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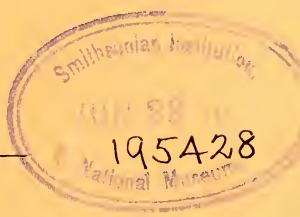
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- Abh. Mus. Nat. u. Heimatk. Magdeburg.* Abhandlungen und Berichte. Museum für Natur- und Heimatkunde. Magdeburg.
- Abh. naturh. Gesellsch. Nürnberg.* Abhandlungen der naturhistorischen Gesellschaft. Nürnberg.
- Abh. schw. paläont. Gesellsch.* See *Mém. Soc. paléont. suisse.*
- Abh. Senckenb. naturf. Gesellsch.* Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. Frankfort-on-the-Main.
- Abstr. Proc. G. S.* Abstracts of the Proceedings of the Geological Society. London.
- Actes Soc. helv. Sci. nat.* Actes de la Société helvétique des Sciences Naturelles. Berne, &c.
- Actes Soc. Linn. Bordeaux.* Actes de la Société Linnéenne de Bordeaux. Bordeaux.
- Actes Soc. sci. Chili.* Actes de la Société scientifique du Chili. Santiago de Chile.
- Am. Geol.* American Geologist. Minneapolis (Minn.).
- Am. Journ. Sci.* American Journal of Science. New Haven (Conn.).
- An. Mus. La Plata.* Anales del Museo de la Plata. La Plata.
- An. Mus. Nac. Buenos Aires.* Anales del Museo Nacional de Buenos Aires. Buenos Aires.
- An. Soc. cient. Argent.* Anales de la Sociedad científica Argentina. Buenos Aires.
- Ann. Acad. Roy. Belg.* Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Ann. Club alpin franç.* Annuaire du Club alpin français. Paris.
- Ann. Géol. et Paléont. Palerme.* Annales de Géologie et de Paléontologie. Palermo.
- Ann. k.-k. naturhist. Hofmus. Wien.* Annalen des kaiserlich-königlichen naturhistorischen Hofmuseums. Vienna.
- Ann. Mag. Nat. Hist.* Annals and Magazine of Natural History. London.
- Ann. Mines, Paris.* Annales des Mines. Paris.
- Ann. N.Y. Acad. Sci.* Annals of the New York Academy of Sciences. New York.
- Ann. R. Univ. Pisa.* Annuario della Reale Università di Pisa. Pisa.
- Ann. Rep. Am. Mus. Nat. Hist. N.Y.* Annual Report of the American Museum of Natural History. New York.
- Ann. Rep. Bureau Mines, B.C.* Annual Report of the Bureau of Mines, British Columbia. Victoria (B.C.).
- Ann. Rep. Dep. Geol. Indiana.* Annual Report of the Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).

- Ann. Rep. Dep. Mines, N.S.W.* Annual Report of the Department of Mines and Agriculture, New South Wales. Sydney.
- Ann. Rep. Dep. Mines, Queensl.* Annual Report of the Under Secretary for Mines, Queensland. Brisbane.
- Ann. Rep. Geol. Surv. Canada.* Annual Report of the Geological Survey of Canada. Ottawa. See also *Summ. Rep.*
- Ann. Rep. Geol. Surv. Gt. Brit.* Annual Report of the Geological Survey of Great Britain. London.
- Ann. Rep. Geol. Surv. Natal.* Annual Report of the Geological Survey of Natal. Pietermaritzburg.
- Ann. Rep. Geol. Surv. Queensl.* Annual Progress Report of the Geological Survey of Queensland. Brisbane.
- Ann. Rep. Geol. Surv. Transvaal.* Annual Report of the Geological Survey of the Transvaal. Pretoria.
- Ann. Rep. Geol. Surv. W. Austr.* Annual Progress Report of the Geological Survey. Perth (W. Austr.).
- Ann. Rep. Mus. Comp. Zool.* Annual Report of the Assistant in Charge of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Ann. Rep. Nat. Hist. Surv. Minn.* Annual Report of the Geological and Natural History Survey of Minnesota. Minneapolis (Minn.).
- Ann. Rep. Phil. Soc., Leeds.* Annual Report of the Philosophical Society. Leeds.
- Ann. Rep. Roy. Cornwall Polyt. Soc.* Annual Report of the Royal Cornwall Polytechnic Society. Falmouth.
- Ann. Rep. Smiths. Inst. Rep. U.S. Nat. Mus.* Annual Report of the Board of Regents of the Smithsonian Institution. Report of the United States National Museum. Washington (D.C.).
- Ann. Rep. U.S. Geol. Surv.* Annual Report of the United States Geological Survey. Washington (D.C.).
- Ann. Rep. Wellington Coll. Nat. Sci. Soc.* Annual Report of the Wellington College Natural Science Society. Wellington College.
- Ann. Rep. Yorks. Phil. Soc.* Annual Report of the Yorkshire Philosophical Society. York.
- Ann. sci. Acad. polyt. Porto.* Annaes scientificos da Academia polytecnica do Porto. Coimbra.
- Ann. Sci. nat. (Zool. & Paléont.).* Annales des Sciences naturelles: Zoologie et Paléontologie. Paris.
- Ann. Sci. Univ. Jassy.* Annales scientifiques de l'Université de Jassy. Jassy (Runania).
- Ann. S.A. Mus., Cape Town.* Annals of the South African Museum. Cape Town.
- Ann. Soc. géol. Belg., Liège.* Annales de la Société géologique de Belgique. Liège.
- Ann. Soc. géol. Nord.* Annales de la Société géologique du Nord. Lille.
- Ann. Soc. R. zool. & malac. Belg.* Annales de la Société Royale zoologique et malacologique de Belgique. Brussels.
- Ann. Univ. toscane.* Annali delle Università toscane. Pisa.
- Anz. k. Akad. Wissensch. Wien.* Anzeiger der kaiserlichen Akademie der Wissenschaften. Vienna.
- Arch. f. Anthr. & Geol. Schleswig-Holsteins.* Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel.
- Arch. Naturk. Liv- Ehst- u. Kurlands, Dorpat.* Archiv für die Naturkunde Liv- Ehst- und Kurlands. Naturforscher-Gesellschaft. Dorpat.
- Arch. naturw. Landesd. Böhmen.* Archiv der naturwissenschaftlichen Landesdurchforschung von Böhmen. Prague.
- Arch. néerland. Sci.* Archives des Sciences exactes et naturelles, publiées par la Société hollandaise des Sciences à Harlem. The Hague.
- Ark. f. (Bot.; Kemi Min. & Geol.; or Zool.) K. svenska Vet.-Akad.* Arkiv för Botanik (&c.) utgivet af K. svenska Vetenskaps-Akademien. Stockholm.
- Athenæum.* Athenæum Journal. London.
- Atti R. Acc. Lincei, Rendic.* Atti della Reale Accademia dei Lincei, Rendiconti. Rome.
- Atti R. Acc. Sci. Napoli.* Atti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Atti R. Acc. Sci. Padova.* Atti e Memorie della Reale Accademia di Scienze, Lettere ed Arti in Padova. Padua.
- Atti R. Acc. Sci. Torino.* Atti della Reale Accademia delle Scienze di Torino. Turin.
- Atti R. Univ. Genova.* Atti della Reale Università di Genova. Genoa.
- Atti Soc. tosc. Sci. nat.* Atti della Società toscana di Scienze naturali. Pisa.
- Augustana Library Publ.* Augustana Library Publication. Rock Island (Ill.).

- Beitr. geol. Schweiz.* Beiträge zur Geologie der Schweiz. (Schweizerische geotechnische Kommission.) Bern.
- Beitr. Geophys. Leipzig.* Beiträge zur Geophysik. Leipzig.
- Beitr. naturk. Preussens, K. phys.-ökon. Gesellsch. Königsberg.* Beiträge zur naturkunde Preussens. Königliche physikalisch-ökonomische Gesellschaft. Königsberg.
- Beitr. Paläont. Österr.-Ung.* Beiträge zur Paläontologie und Geologie (Österreich-Ungarns und des Orients. Vienna.
- Ber. k.-sächs. Gesellsch. Wissensch. Leipzig.* Bericht der königlich-sächsischen Gesellschaft der Wissenschaften. Leipzig.
- Ber. naturf. Gesellsch., Freiburg i. B.* Berichte der naturforschenden Gesellschaft. Freiburg i. B.
- Ber. oberhess. Gesellsch. Nat.-Heilk.* Bericht der oberhessischen Gesellschaft für Natur- und Heilkunde. Giessen.
- Ber. oberrhein. geol. Ver.* Bericht über die Versammlungen des oberrheinischen geologischen Vereins. Stuttgart.
- Ber. Senckenb. naturf. Gesellsch.* Bericht der Senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.
- Berg- hütt. Jahrb. Wien.* Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Pörfirram und der königlich-ungarischen Bergakademie zu Schemnitz. Vienna.
- Bihang k. svenska Vet.-Akad. Handl.* Bihang till kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Bol. Acad. Nac. Cordoba.* Boletín de la Academia Nacional de Ciencias en Cordoba. Buenos Aires.
- Bol. Com. Mapa geol. España.* Boletín de la Comisión del Mapa geológico de España. Madrid.
- Bol. Ing. Minas, Perú.* Boletín del Cuerpo de Ingenieros de Minas del Perú. Lima.
- Bol. Inst. geogr. Argent.* Boletín del Instituto geográfico Argentino. Buenos Aires.
- Bol. Inst. geol. México.* Boletín del Instituto geológico de México. Mexico.
- Bol. Soc. geogr. Lima.* Boletín de la Sociedad geográfica de Lima. Lima.
- Bol. Soc. Geogr. Lisboa.* Boletín da Sociedade de Geographia de Lisboa. Lisbon.
- Bol. Soc. Nac. Minería, Santiago.* Boletín de la Sociedad Nacional de Minería. Santiago de Chile.
- Boll. R. Com. geol. Ital.* Bollettino del Reale Comitato geologico d'Italia. Rome.
- Boll. Soc. geol. ital.* Bollettino della Società geologica italiana. Rome.
- Bull. Acad. Imp. Sci. St.-Petersb.* Bulletin de l'Académie Impériale des Sciences. St. Petersburg.
- Bull. Acad. Roy. Belg.* Bulletins de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Bull. Am. Mus. Nat. Hist., N.Y.* Bulletin of the American Museum of Natural History. New York.
- Bull. Assoc. franç. Adv. Sci.* Bulletin de l'Association française pour l'Avancement des Sciences. Paris.
- Bull. Bur. Mines, B. C.* Bulletin of the Provincial Bureau of Mines, British Columbia. Victoria (B.C.).
- Bull. Bur. Mines, Canada.* Bulletin of the Bureau of Mines, Canada. Ottawa.
- Bull. Cal. State Mining Bur.* Bulletin of the Californian State Mining Bureau. San Francisco.
- Bull. Chicago Acad. Geol. Surv.* Bulletin of the Chicago Academy of Science, Geological and Natural History Survey. Chicago (Ill.).
- Bull. Comm. géol. Finlande.* Bulletin de la Commission géologique de Finlande. Helsingfors.
- Bull. Com. géol. Russie.* Bulletins du Comité géologique. St. Petersburg.
- Bull. Geol. Inst. Univ. Upsala.* Bulletin of the Geological Institution of the University of Upsala. Upsala.
- Bull. Geol. Soc. Am.* Bulletin of the Geological Society of America. Rochester (N.Y.).
- Bull. Geol. Surv. Alabama.* Bulletin of the Geological Survey of Alabama. University & Montgomery (Ala.).
- Bull. Geol. Surv. Georgia.* Bulletin of the Geological Survey of Georgia. Atlanta (Ga.).
- Bull. Geol. Surv. Ohio.* Bulletin of the Geological Survey of Ohio. Columbus (Ohio).
- Bull. Geol. Surv. Queensl.* Bulletin of the Geological Survey of Queensland (Department of Mines). Brisbane.

- Bull. Geol. Surv. Victoria.* Bulletin of the Geological Survey of Victoria. Melbourne.
- Bull. Geol. Surv. W. Austr.* Bulletin of the Geological Survey of Western Australia. Perth (W. Austr.).
- Bull. Geol. Univ. Cal.* Bulletin of the Department of Geology, University of California. Berkeley (Cal.).
- Bull. Imp. Inst.* Bulletin of the Imperial Institute. London.
- Bull. Intern. Acad. Sci. Cracovie.* Bulletin International de l'Académie des Sciences. Cracow.
- Bull. Mus. Comp. Zool.* Bulletin of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Bull. Mus. Hist. nat. Paris.* Bulletin du Muséum d'Histoire naturelle. Paris.
- Bull. Nat. Hist. Soc. New Brunswick.* Bulletin of the Natural History Society of New Brunswick. St. John (N.B.).
- Bull. Phil. Soc. Wash.* Bulletin of the Philosophical Society. Washington (D.C.).
- Bull. Soc. belge Géol., Bruc.* Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
- Bull. Soc. franç. Min.* Bulletin de la Société française de Minéralogie. Paris.
- Bull. Soc. géol. France.* Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Norm.* Bulletin de la Société géologique de Normandie. Havre.
- Bull. Soc. Hist. nat. Toulouse.* Bulletin de la Société d'Histoire naturelle de Toulouse. Toulouse.
- Bull. Soc. Imp. Nat. Moscou.* Bulletin de la Société Impériale des Naturalistes de Moscou. Moscow.
- Bull. Soc. Linn. Norm.* Bulletin de la Société Linnéenne de Normandie. Caen.
- Bull. Soc. oural. Sci. nat.* Bulletin de la Société ouralienne d'Amateurs des Sciences naturelles. Ekaterinburg.
- Bull. Soc. R. malac. Belg.* See *Ann. Soc. R. malac. Belg.*
- Bull. Soc. Sci. et méd. de l'Ouest, Rennes.* Bulletin de la Société scientifique et médicale de l'Ouest. Rennes.
- Bull. Soc. vaud. Sci. nat.* Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
- Bull. U.S. Geol. Surv.* Bulletin of the United States Geological Survey. Washington.
- Bull. Wisc. Geol. & Nat. Hist. Surv.* Bulletin of the Wisconsin Geological and Natural History Survey. Madison (Wisc.).
- Canad. Rec. Sci.* Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
- Centralbl. f. Min.* Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Chem. News.* Chemical News. London.
- Coll. Guard.* Colliery Guardian. London.
- Colo. Coll. Studies.* Colorado College Studies. Colorado Springs (Colo.).
- Com. Mus. Nac. Buenos Aires.* Comunicaciones del Museo Nacional de Buenos Aires. Buenos Aires.
- Comm. Commiss. Serv. geol. Portugal.* Communicações da Comissão do Serviço geológico de Portugal. Lisbon.
- Comm. geogr. e geol. S. Paulo.* Comissão geographica e geologica de São Paulo. São Paulo.
- C. R. Acad. Sci. Paris.* Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
- C. R. Assoc. franç. Av. Sci.* Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.
- Dan. geol. Undersög.* Danmarks geologiska Undersögelse. Copenhagen.
- Denkschr. k. Akad. Wissensch. Wien.* Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.
- Eclogæ Geol. Helv.* Eclogæ Geologicae Helvetiæ. Lausanne.
- Econ. Papers, U.S. Geol. Surv.* Economic Papers, United States Geological Survey. Washington.
- Econ. Proc. R. Dublin Soc.* Economic Proceedings of the Royal Dublin Society. Dublin.
- Erläut. geol. Karte Baden.* Erläuterungen zur geologischen Specialkarte des Grossherzogthums Baden. Heidelberg.
- Fennia.* Fennia. Bulletin de la Société de Géographie de Finlande. Helsingfors.
- Field Columbian Mus.* Field Columbian Museum Publications. Chicago (Ill.).
- Földt. Közl.* Földtani Közlöny. [Geological Magazine.] Budapest.
- Gen. Rep. Geol. Surv. India.* General Report on the Work carried on by the Geological Survey of India. Calcutta.

- Geogn. Jahresh.*, München. Geognostische Jahreshefte. Munich.
- Geogr. Journ.* Geographical Journal (Royal Geographical Society). London.
- Geol. & Nat. Hist. Surv. Minn.* Geological and Natural History Survey of Minnesota. St. Paul (Minn.).
- Geol. Fören. Stockh. Förh.* Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.
- Geol. Karte Baden.* Geologische Spezialkarte des Grossherzogthums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
- Geol. Mag.* Geological Magazine. London.
- Geol. Surv. Canada. Contr. Canad. Palæont.* Geological Survey of Canada. Contributions to Canadian Palæontology. Ottawa.
- Geol. Surv. Mich. Rep.* Geological Survey of Michigan. Reports. Lansing (Mich.).
- Geol. Surv. Queensl., Publications.* Geological Survey of Queensland: Publications. Brisbane.
- Geol. u. Palæont. Abh., Jena.* Geologische und Palæontologische Abhandlungen. Jena.
- Giorn. Geol. prat., Perugia.* Giornale di Geologia pratica. Perugia.
- Hist. Berwicks. Nat. Club.* History of the Berwickshire Naturalists' Club. Alwrick.
- Hull Mus. Publ.* Hull Museum Publications. Hull.
- Indian Engin.* Indian Engineering. Calcutta.
- Internat. Cat. Sci. Lit.* International Catalogue of Scientific Literature. London.
- Iowa Geol. Surv.* Iowa Geological Survey. Des Moines.
- Irish Nat.* Irish Naturalist. Dublin.
- Jaarb. Mijw. Ned. O.-Ind.* Jaarboek van het Mijwезen in Nederlandsch Oost-Indië. Amsterdam.
- Jahrb. f. Berg- u. Hüttenw. Sachsen.* Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiburg.
- Jahrb. k.-k. geol. Reichsanst.* Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Jahrb. k.-preuss. geol. Landesanst.* Jahrbuch der königlich-preussischen geologischen Landesanstalt. Berlin.
- Jahrb. k.-ung. geol. Anst.* Jahrbuch der königlich-ungarischen geologischen Anstalt. Budapest.
- Jahrb. nassauisch. Ver. f. Naturk.* Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden.
- Jahrb. Schw.-Alpenclub.* Jahrbuch des Schweizer-Alpenclub. Bern.
- Jahresb. k.-ung. geol. Anst.* Jahresbericht der königlich-ungarischen geologischen Anstalt. Budapest.
- Jahresb. Ver. Naturw. Braunschweig.* Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Brunswick.
- Jahresh. Ver. Naturk. Württ.* Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
- Journ. Asiat. Soc. Bengal.* Journal and Proceedings of the Asiatic Society of Bengal. Calcutta.
- Journ. Bombay Branch R. Asiat. Soc.* Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
- Journ. Canad. Mining Inst.* Journal of the Canadian Mining Institute. Ottawa.
- Journ. Ceylon Branch R. Asiat. Soc.* Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.
- Journ. Chem. Soc.* Journal of the Chemical Society. London.
- Journ. China Branch R. Asiat. Soc.* Journal of the China Branch of the Royal Asiatic Society. Shanghai.
- Journ. Cinc. Soc. Nat. Hist.* Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).
- Journ. Coll. Sci. Tokyo.* Journal of the College of Science, Imperial University. Tokyo.
- Journ. Conch., Paris.* Journal de Conchyliologie. Paris.
- Journ. East India Assoc.* Journal of the East India Association. London.
- Journ. Geol. Chicago.* Journal of Geology. Chicago (Ill.).
- Journ. Iron & Steel Inst.* Journal of the Iron and Steel Institute. London.
- Journ. Linn. Soc.* Journal of the Linnean Society. London.
- Journ. Northants Nat. Hist. Soc.* Journal of the Northamptonshire Natural History Society and Field-Club. Northampton.
- Journ. R. Agric. Soc.* Journal of the Royal Agricultural Society. London.
- Journ. R. Inst. Cornwall.* Journal of the Royal Institution of Cornwall. Truro.

- Journ. R. Micr. Soc.* Journal of the Royal Microscopical Society. London.
- Journ. Roy. Soc. N.S.W.* Journal and Proceedings of the Royal Society of New South Wales. Sydney.
- Journ. Soc. Arts.* Journal of the Society of Arts. London.
- Journ. Vict. Inst. London.* Journal of the Transactions of the Victoria Institute. London.
- Journ. & Proc. Hamilton Sci. Assoc. (Canada).* Journal and Proceedings of the Hamilton Scientific Association. Hamilton (Canada).
- K. danske Vidensk.-Selsk. Afh.* Kongelige danske Videnskabernes-Selskabs naturvidenskabelig og matematisk Afhandling. Copenhagen.
- K. danske Vidensk. Selsk. Skrift.* Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.
- K. svenska Vet.-Akad. Handl.* Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Kansas Univ. Quart.* Kansas University Quarterly. Bulletin of the University of Kansas. Lawrence (Kan.).
- Lond. Edinb. Dubl. Phil. Mag.* London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
- Magy. Kir. Földtani Intézet.* See *Jahrb. k.-ung. geol. Anst.*
- Maryland Geol. Surv.* Maryland Geological Survey. Baltimore (Md.).
- Matér. Carte géol. Suisse.* Matériaux pour la Carte géologique de la Suisse. Commission géologique. Bern.
- Mater. Geol. Russ.* Materialien zur Geologie Russlands. Herausgegeben von der kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Meddel. Upsala Univ. Min.-geol. Inst.* Meddelanden från Upsala Universitets Mineralogisk-geologiska Institut. Stockholm.
- Mém. Acad. Imp. Sci. St. Pétersb.* Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
- Mém. Acad. Sci. Dijon.* Mémoires de l'Académie des Sciences, Arts, et Belles-Lettres de Dijon.
- Mém. Acad. Stanislas.* Mémoires de l'Académie de Stanislas. Nancy.
- Mem. Am. Mus. Nat. Hist., N.Y.* Memoirs of the American Museum of Natural History. New York.
- Mem. Carta geol. Ital.* Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
- Mém. Com. géol. Russie.* Mémoires du Comité géologique. St. Petersburg.
- Mem. Geol. Surv. England & Wales.* Memoirs of the Geological Survey of England and Wales. London.
- Mem. Geol. Surv. India. Palæont. Indica.* Memoirs of the Geological Survey of India. Palæontographica Indica. Calcutta.
- Mem. Geol. Surv. Ireland.* Memoirs of the Geological Survey of Ireland. Dublin.
- Mem. Geol. Surv. N.S.W.* Memoirs of the Geological Survey of New South Wales. Sydney.
- Mem. Geol. Surv. N.Y.* Memoirs of the Geological Survey of the State of New York. State Museum. University of the State of New York. Albany (N.Y.).
- Mem. Geol. Surv. Scotland.* Memoirs of the Geological Survey of Scotland. Edinburgh.
- Mem. Geol. Surv. U.K.* Memoirs of the Geological Survey of the United Kingdom. London, Glasgow, &c.
- Mem. Geol. Surv. Victoria.* Memoirs of the Geological Survey of Victoria. Melbourne.
- Mem. Manch. Lit. Phil. Soc.* Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.
- Mem. Mus. Comp. Zool.* Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Mem. N.Y. Acad. Sci.* Memoirs of the New York Academy of Sciences. New York.
- Mem. R. Acad. Cienc., Madrid.* Memorias de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Mem. R. Acc. Sci. Torino.* Memorie della Reale Accademia delle Scienze. Turin.
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- Mem. Soc. cient. 'Ant. Alzate.'* Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.
- Mém. Soc. géol. France (Paléont.).* Mémoires de la Société géologique de France. Paléontologie. Paris.

- Mém. Soc. Linn. Norm.* Mémoires de la Société Linnéenne de Normandie. Caen.
- Mém. Soc. Nat. Kiev.* Mémoires de la Société des Naturalistes. Kiev.
- Mém. Soc. paléont. suisse.* Mémoires de la Société paléontologique suisse. Geneva, &c.
- Mém. Soc. Phys. & Hist. nat. Genève.* Mémoires de la Société de Physique et d'Histoire naturelle de Genève. Geneva.
- Mém. Soc. R. malac. Belg.* See *Ann. Soc. R. zool. et malac. Belg.*
- Mém. Soc. Roy. Sci. Liège.* Mémoires de la Société Royale des Sciences. Liège.
- Min. Mag.* The Mineralogical Magazine and Journal of the Mineralogical Society London.
- Min. petr. Mitth.* Mineralogische und petrographische Mittheilungen. Vienna.
- Mines & Minerals. Scranton.* Mines and Minerals. Scranton (Pa.).
- Mining Journ.* Mining Journal. Railway and Commercial Gazette. London.
- Minutes of Proc. Inst. C.E.* Minutes of Proceedings of the Institution of Civil Engineers. London.
- Missouri Bur. Geol. & Mines.* Missouri Bureau of Geology and Mines. Jefferson City (Mo.).
- Mitth. badisch. geol. Landesanst.* Mittheilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.
- Mitth. Erdbeben-Komm. k. Akad. Wissensch., Wien.* Mittheilungen der Erdbeben-Kommission der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Mitth. geol. Landesanst. Elsass-Lothr.* Mittheilungen der geologischen Landesanstalt von Elsass-Lothringen. Strasburg.
- Mitth. Jahrb. k.-ung. geol. Anst.* Mittheilungen aus dem Jahrbuche der königlich-ungarischen geologischen Anstalt. Budapest.
- Mitth. Min. Inst. Kiel.* Mittheilungen aus dem Mineralogischen Institut der Universität. Kiel.
- Mitth. naturf. Gesellsch. Bern.* Mittheilungen der naturforschenden Gesellschaft. Bern.
- Mitth. nat. Ver. Steiermark.* Mittheilungen des naturwissenschaftlichen Vereines für Steiermark. Graz.
- Mitth. Ver. Erdk. Dresden.* Mittheilungen des Vereins für Erdkunde. Dresden.
- Monogr. Paléont. Soc.* Monographs of the Palaeontographical Society. London.
- Monogr. U.S. Geol. Surv.* Monographs of the United States Geological Survey. Washington (D.C.).
- Naturalist, Leeds.* The Naturalist. Leeds & London.
- Nature.* Nature. London.
- N. J. f. Min.* Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Norsk geol. Tidsskr.* Norsk geologisk Tidsskrift, udgivet af Norsk geologisk Forening. Christiania.
- Notice expl. Carte géol. Suisse.* Notice explicative de la Carte géologique de la Suisse. Berne.
- Notizbl. Ver. f. Erdk. Darmstadt.* Notizblatt des Vereins für Erdkunde und der grossherzoglichen hessischen geologischen Landesanstalt. Darmstadt.
- Nouv. Arch. Mus. Hist. nat. Paris.* Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
- Nyt Magazin.* Nyt Magazin for Naturvidenskaberne. Christiania.
- Öfvers. K. Vet.-Akad. Förh.* Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar. Stockholm.
- Ottawa Nat.* Ottawa Naturalist. Ottawa.
- Overs. K. danske Vidensk.-Selsk. Forh.* Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandlingar. Copenhagen.
- Paläont. Abh. Jena.* Paläontologische Abhandlungen. Jena.
- Palaeontographica.* Palaeontographica. Stuttgart.
- Palaeontographica italica.* Palaeontographica italica. Pisa.
- Papers & Proc. Roy. Soc. Tasn.* Papers and Proceedings of the Royal Society of Tasmania. Hobart.
- Papers & Rep. Min. & Mining, N.Z.* Papers and Reports relating to Minerals and Mining, N.Z. Wellington (N.Z.).
- Parerg. Inst. geol. Mex.* Parergones del Instituto geológico de Mexico. Mexico.
- Peterm. Mitth.* Petermann's Mittheilungen. Gotha.
- Phil. Trans. Roy. Soc.* Philosophical Transactions of the Royal Society. London.
- Photogr. Journ.* Photographic Journal. (Royal Photographic Society.) London.
- Princeton Univ. Rep.* Princeton University. Reports of Expeditions. Princeton (N.J.).

- Proc. Acad. Nat. Sci. Philad.* Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).
- Proc. Am. Acad. Arts & Sci.* Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).
- Proc. Am. Phil. Soc.* Proceedings of the American Philosophical Society. Philadelphia (Pa.).
- Proc. Asiatic Soc. Bengal.* Proceedings of the Asiatic Society of Bengal. Calcutta.
- Proc. Austr. Inst. M. E.* Proceedings of the Australasian Institute of Mining Engineers. Melbourne (Vict.).
- Proc. Bath Nat. Hist. F. C.* Proceedings of the Bath Natural History and Antiquarian Field-Club. Bath.
- Proc. Belfast Nat. F. C.* Proceedings of the Belfast Naturalists' Field-Club. Belfast.
- Proc. Biol. Soc. Washington.* Proceedings of the Biological Society of Washington. Washington (D.C.).
- Proc. Boston Soc. Nat. Hist.* Proceedings of the Boston Society of Natural History. Boston (Mass.).
- Proc. Bristol Nat. Soc.* Proceedings of the Bristol Naturalists' Society. Bristol.
- Proc. Cambridge Phil. Soc.* Proceedings of the Cambridge Philosophical Society. Cambridge.
- Proc. Canad. Inst.* Proceedings of the Canadian Institute. Toronto.
- Proc. Chem. Soc.* Proceedings of the Chemical Society. London.
- Proc. Colo. Sci. Soc.* Proceedings of the Colorado Scientific Society. Denver (Colo.).
- Proc. Cotteswold Nat. F. C.* Proceedings of the Cotteswold Naturalists' Field-Club. Gloucester.
- Proc. Davenport Acad. Nat. Sci.* Proceedings of the Davenport Academy of Natural Science. Davenport (Iowa).
- Proc. Dorset Nat. Hist. F. C.* Proceedings of the Dorset Natural History and Antiquarian Field-Club. Dorchester.
- Proc. Geol. Assoc.* Proceedings of the Geologists' Association. London.
- Proc. Geol. Soc. S. A.* Proceedings of the Geological Society of South Africa. Johannesburg.
- Proc. Indiana Acad. Sci.* Proceedings of the Indiana Academy of Sciences. Indianapolis.
- Proc. Linn. Soc.* Proceedings of the Linnean Society. London.
- Proc. Linn. Soc. N.S.W.* Proceedings of the Linnean Society of New South Wales. Sydney.
- Proc. Lit. Phil. Soc. Liverp.* Proceedings of the Literary and Philosophical Society of Liverpool. Liverpool.
- Proc. Malacol. Soc.* Proceedings of the Malacological Society. London.
- Proc. Midland Inst. M. E.* Proceedings of the Midland Institute of Mining, Civil, and Mechanical Engineers. Newcastle-upon-Tyne.
- Proc. Nat. Mus. U.S.A.* Proceedings of the National Museum. Washington (D.C.).
- Proc. Rhodesia Sci. Assoc.* Proceedings of the Rhodesia Scientific Association. Bulawayo.
- Proc. Roy. Inst. Gt. B.* Proceedings of the Royal Institution of Great Britain. London.
- Proc. Roy. Irish Acad.* Proceedings of the Royal Irish Academy. Dublin.
- Proc. R. Phys. Soc. Edinb.* Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc.* Proceedings of the Royal Society. London.
- Proc. Roy. Soc. Edinb.* Proceedings of the Royal Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc. Tasm.* Proceedings of the Royal Society of Tasmania. Hobart. See *Papers & Proc.*
- Proc. Roy. Soc. Victoria.* Proceedings of the Royal Society of Victoria. Melbourne.
- Proc. Soc. Bibl. Arch.* Proceedings of the Society of Biblical Archaeology. London.
- Proc. S. Wales Inst. Engin.* Proceedings of the South Wales Institute of Engineers. Cardiff.
- Proc. Univ. Durham Phil. Soc.* Proceedings of the University of Durham Philosophical Society. Newcastle-upon-Tyne.
- Proc. verb. Soc. R. malac. Belg.* Procès-verbaux des Séances de la Société Royale malacologique de Belgique. Brussels.
- Proc. Wash. Acad. Sci.* Proceedings of the Washington Academy of Sciences. Washington (D.C.).

- Proc. Yorks. Geol. Soc.* Proceedings of the Yorkshire Geological and Polytechnic Society. Halifax.
- Proc. Zool. Soc. London.* Proceedings of the Zoological Society. London.
- Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.* Proceedings and Transactions of the Croydon Microscopical and Natural History Society. Croydon.
- Proc. & Trans. N.S. Inst. Sci.* Proceedings and Transactions of the Nova Scotia Institute of Science. Halifax (N.S.).
- Proc. & Trans. Roy. Soc. Canada.* Proceedings and Transactions of the Royal Society of Canada. Ottawa.
- Prof. Papers, U.S. Geol. Surv.* Professional Papers, United States Geological Survey. Washington.
- Publ. Carnegie Mus.* Publications of the Carnegie Museum. Pittsburg (Pa.).
- Publ. Earthq. Comm. Tokyo.* Publications of the Earthquake Investigations Committee in Foreign Languages. Tokyo.
- Q. J. G. S.* Quarterly Journal of the Geological Society. London.
- Q. J. R. Met. Soc.* Quarterly Journal of the Royal Meteorological Society. London.
- Quarry.* The Quarry. London.
- Rec. Geol. Surv. India.* Records of the Geological Survey of India. Calcutta.
- Rec. Geol. Surv. Victoria.* Records of the Geological Survey of Victoria. Melbourne.
- Rec. London & W. Country Chamber of Mines.* Record of the London and West Country Chamber of Mines. London.
- Rendic. e Mem. R. Acc. Sci. Acireale.* Rendiconti e Memorie della Reale Accademia di Scienze, Lettere ed Arti. Acireale.
- Rendic. R. Acc. Sci. Napoli.* Rendiconti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Rendic. R. Ist. lomb.* Reale Istituto lombardo di Scienze e Lettere. Rendiconti. Milan.
- Rep. & Proc. Belfast Nat. Hist. Soc.* Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.
- Rep. & Trans. Devon. Assoc. Adv. Sci.* See *Trans.*
- Rep. Austral. Assoc. Adv. Sci.* Report of the Australasian Association for the Advancement of Science. Sydney.
- Rep. Brit. Assoc.* Report of the British Association for the Advancement of Science. London.
- Rep. Brit. S. Africa Co.* Report of the British South Africa Company. London.
- Rep. Bureau Mines, Canad.* Report of the Bureau of Mines, Canada. Ottawa.
- Rep. Croydon Microsc. Club.* See *Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.*
- Rep. Dep. Mines N.S.* Report of the Department of Mines, Nova Scotia. Halifax (N.S.).
- Rep. Dep. Mines, Tasm.* Report of the Secretary of the Department of Mines. Hobart.
- Rep. Dep. Mines, W. Austr.* Report of the Department of Mines, Western Australia. Perth (W. Austr.).
- Rep. Geol. Surv. Louisiana.* Report of the Geological Survey of Louisiana. Bâton Rouge (La.).
- Rep. Geol. Surv. Transvaal.* See *Transvaal Mines Dep., Rep. Geol. Surv.*
- Rep. Inst. Mines & Forests Brit. Guiana.* Report of the Council of the Institute of Mines and Forests on the Gold and Forest-Industries of British Guiana. Georgetown (Demerara).
- Rep. Leicester Mus.* Report of the Committee to the Town Council, Leicester Corporation Museum and Art Gallery. Leicester.
- Rep. Rugby School Nat. Hist. Soc.* Report of the Rugby School Natural History Society. Rugby.
- Rep. S. A. Assoc. Adv. Sci.* Report of the South African Association for the Advancement of Science. Cape Town.
- Rep. S.E. Union Sci. Soc.* See *Trans. S.E. Union Sci. Soc.*
- Rep. U.S. Dep. Agric.* Report of the United States Department of Agriculture. Washington (D.C.).
- Rep. Univ. Geol. Surv. Kansas.* Reports of the University Geological Survey of Kansas. Topeka (Kan.).
- Rev. Cienc., Lima.* Revista de Ciencias. Lima.
- Rev. critique de Paléozool.* Revue critique de Paléozoologie. Paris.
- Rev. Inst. geogr. & hist. Bahia.* Revista trimestral do Instituto geographico e historico da Bahia. Bahia.
- Rev. Minas, Santiago.* Revista de Minas. Santiago de Chile.

- Rev. R. Acad. Cienc. Madrid.* Revista de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Rev. Sci. Paris.* Revue Scientifique. Paris.
- Rev. Soc. sci. São Paulo.* Revista da Sociedade científica de São Paulo. São Paulo.
- Riv. ital. Paleont., Perugia.* Rivista italiana di Paleontologia, Perugia (*late* Bologna, Parma).
- Riv. Min. e Crist. ital. Padova.* Rivista di Mineralogia e Cristallografia italiana. Padua.
- Rochester Nat.* Rochester Naturalist. Rochester.
- Rozpr. Akad. Umiej. Krakow.* Rozprawy Akademii Umiejetności Wydział matematyczno-przyrodniczy. Cracow.
- Samml. geol. R.-Mus. Leiden.* Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
- Schr. Gesellsch. Naturw. Marburg.* Schriften der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg. Marburg.
- Schr. physik.-ökonom. Gesellsch. Königsb.* Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.
- Sci. Proc. R. Dublin Soc.* Scientific Proceedings of the Royal Dublin Society. Dublin.
- Sci. Trans. R. Dublin. Soc.* Scientific Transactions of the Royal Dublin Society. Dublin.
- Science.* Science. New York.
- Scot. Geogr. Mag.* Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.
- Sitz. Gesellsch. naturf. Freunde, Berlin.* Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.
- Sitz. k. Akad. Wissensch. Wien.* Sitzungsberichte der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Sitz. k.-bayr. Akad.* Sitzungsberichte der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. Munich.
- Sitz. k.-preuss. Akad. Wissensch. Berlin.* Sitzungsberichte der königlich-preussischen Akademie der Wissenschaften. Berlin.
- Sitz. Naturf.-Gesellsch. Dorpat.* Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
- Sitz. niederrhein. Gesellsch. Nat. &c., Bonn.* Sitzungsberichte der nieder-rheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. See *Verh. naturh. Ver. preuss. Rheinl.*
- Sitz. u. Abh. Gesellsch. 'Isis.'* Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. Dresden.
- Smiths. Miscell. Coll.* Smithsonian Miscellaneous Collections. Washington (D.C.).
- Soc. 'Ger. Guidoni,' Spezia.* Società 'Gerolamo Guidoni' per la Diffusione e l'Incremento degli Studi naturali. Spezia.
- Spelunca.* 'Spelunca.' Bulletin de la Société de Spéléologie. Paris.
- Summ. Progr. Geol. Surv. U.K.* Summary of Progress of the Geological Survey of the United Kingdom. London.
- Summ. Rep. Geol. Surv. Canada.* Summary Report of the Geological Survey of Canada. Ottawa.
- Sver. geol. Undersökn., Afd.* Sveriges geologiska Undersökning, Afhandlingar. Stockholm.
- Tasm. Dep. Mines.* Tasmania. Department of Mines. Hobart.
- Trans. Am. Inst. M.E.* Transactions of the American Institute of Mining Engineers. New York.
- Trans. Am. Phil. Soc.* Transactions of the American Philosophical Society. Philadelphia (Pa).
- Trans. Austr. Inst. M.E.* Transactions of the Australasian Institute of Mining Engineers. Melbourne & Sydney.
- Trans. Brit. Assoc. Waterw. Eng.* Transactions of the British Association of Waterworks Engineers. London.
- Trans. Canad. Inst.* Transactions of the Canadian Institute. Toronto.
- Trans. Connect. Acad.* Transactions of the Connecticut Academy of Arts and Sciences. New Haven (Conn.).
- Trans. Croydon Nat. Hist. Soc.* See *Proc. & Trans.*
- Trans. Cumberland Assoc.* Transactions of the Cumberland Association. Carlisle.
- Trans. Devon. Assoc.* Transactions of the Devonshire Association for the Advancement of Science. Plymouth.

- Trans. Edinb. Geol. Soc.* Transactions of the Edinburgh Geological Society. Edinburgh.
- Trans. Geol. Soc. Glasgow.* Transactions of the Geological Society of Glasgow. Glasgow.
- Trans. Geol. Soc. S.A.* Transactions of the Geological Society of South Africa. Johannesburg.
- Trans. Herts Nat. Hist. Soc.* Transactions of the Hertfordshire Natural History Society and Field-Club. Hertford.
- Trans. Hist. & Sci. Soc. Manitoba.* Transactions of the Historical and Scientific Society of Manitoba. Winnipeg.
- Trans. Hull Geol. Soc.* Transactions of the Hull Geological Society. Hull.
- Trans. Hull Sci. & F. Nat. Club.* Transactions of the Hull Scientific and Field Naturalists' Club. Hull.
- Trans. Inst. Mining & Metall.* Transactions of the Institution of Mining and Metallurgy. London.
- Trans. Inst. M.E.* Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
- Trans. Kansas Acad. Sci.* Transactions of the Kansas Academy of Science. Topeka (Kan.).
- Trans. Leicester Lit. & Phil. Soc.* Transactions of the Leicester Literary and Philosophical Society. Leicester.
- Trans. Linn. Soc.* Transactions of the Linnean Society. London.
- Trans. Manch. Geol. Soc.* Transactions of the Manchester Geological and Mining Society. Manchester.
- Trans. N. Engl. Inst. Min. & Mech. Eng.* Transactions of the North of England Institute of Mining and Mechanical Engineers. Newcastle-upon-Tyne.
- Trans. N.Z. Inst.* Transactions and Proceedings of the New Zealand Institute. Wellington (N.Z.).
- Trans. N.Z. Inst. M.E.* Transactions of the New Zealand Institute of Mining Engineers. Auckland (N.Z.).
- Trans. Perth. Soc. Nat. Sci.* Transactions and Proceedings of the Perthshire Society of Natural Science. Perth.
- Trans. R. Geol. Soc. Cornwall.* Transactions of the Royal Geological Society of Cornwall. Penzance.
- Trans. Roy. Irish Acad.* Transactions of the Royal Irish Academy. Dublin.
- Trans. Roy. Soc. Canada.* See *Proc. & Trans. Roy. Soc. Canada.*
- Trans. Roy. Soc. Edinb.* Transactions of the Royal Society of Edinburgh. Edinburgh.
- Trans. Roy. Soc. S. Austr.* Transactions of the Royal Society of South Australia. Adelaide.
- Trans. S.A. Phil. Soc.* Transactions of the South African Philosophical Society. Cape Town.
- Trans. S.E. Union Sci. Soc.* Transactions of the South-Eastern Union of Scientific Societies. London.
- Trans. Woolhope Nat. F.C.* Transactions of the Woolhope Naturalists' Field-Club. Hereford.
- Trans. Zool. Soc. Lond.* Transactions of the Zoological Society. London.
- Transvaal Mines Dep., Rep. Geol. Surv.* Transvaal Mines Department. Report of the Geological Survey. Pretoria.
- Trav. Soc. Imp. Nat. St. Petersb.* Travaux de la Société Impériale des Naturalistes. St. Petersburg.
- Tufts Coll. Studies.* Tufts College Studies. Tufts College (Mass.).
- Verh. deutsch. wissensch. Ver. Santiago.* Verhandlungen des deutschen wissenschaftlichen Vereins zu Santiago de Chile. Valparaiso.
- Verh. k.-k. geol. Reichsanst.* Verhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Verh. k.-k. zool.-bot. Gesellsch. Wien.* Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien. Vienna.
- Verh. naturf. Gesellsch. Basel.* Verhandlungen der naturforschenden Gesellschaft. Basel.
- Verh. naturh. Ver. preuss. Rheinl.* Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande, Westfalens und des Regierungs-Bezirks Osnabrück. Bonn.
- Verh. russ.-k. min. Gesellsch.* Verhandlungen der russisch-kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Vidensk. Meddel. naturh. Foren. Kjöbenhavn.* Videnskabelige Meddelelser fra den naturhistoriske Forening i Kjöbenhavn. Copenhagen.

- Water.* Water. London.
- Water-Supply Papers, U.S. Geol. Surv.* Water-Supply Papers, United States Geological Survey. Washington.
- Zapishn. srpsk. geol. Drush.* Zapisnitzi srpskog geoloshkog Drushtva. (Sitzungsberichte der serbisch-geologischen Gesellschaft.) Belgrade.
- Zeitschr. deutsch. geol. Gesellsch.* Zeitschrift der deutschen geologischen Gesellschaft. Berlin.
- Zeitschr. f. Berg-, Hütt.- u. Salinenw.* Zeitschrift für das Berg-, Hütten- und Salinenwesen im preussischen Staate. Berlin.
- Zeitschr. f. Kryst.* Zeitschrift für Krystallographie und Mineralogie. Leipzig.
- Zeitschr. f. Naturw. Sachsen.* Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen. Stuttgart.
- Zeitschr. f. prakt. Geol.* Zeitschrift für praktische Geologie. Berlin.
- Zool. Rec.* Zoological Record. Record of Zoological Literature. London.
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- 3. Wirbelthierfahrten aus dem Fylsch der Ostalpen. *Verh. k.-k. geol. Reichsanst.* 1904, p. 340. 1904.
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- . *Obit.* See BARROIS, C., 3; & BRANCO, W., 3.
- ZURCHER, P. See LÉVY, AUG. M., 4.
-

SUBJECT-INDEX.*

- Aalenian.—Buckman, S. S., 2; Deprat, J., 3.
- Aar Massif (Bernese Alps).—Fischer, O. — Valley (Switzerland).—Muehlberg, F.
- Abaucourt (Meurthe - et - Moselle). — Nicklès, R., 4; Zeiller, R., 4.
- Abercastle (Pembroke).—Elsden, J. V., 2.
- Aberdeenshire.—Gibb, A. W.; Jamieson, T. F.
- Aberfeldy (Perth).—Barrow, G.
- Abra*.—Clark, W. B.
- Abruzzo (Italy).—Cassetti, M., 1 & 2.
- Abyssinia (Africa).—Arsандаux, H., 1-3.
- Acanthocœnia*.—Angelis d'Ossat, G. de.
- Acanthocorys*.—Squinabol, S., 3.
- Acaremys*.—Scott, W. B., 2.
- Acarmania (Greece).—Renz, C.
- Acentrophorus*.—Eastman, C. R., 2.
- Aceratherium*.—Weber, M.
- Achen, Lake (Tyrol).—Ampferer, O., 4.
- Achinsk District (Tomsk Gov.).—Brown, L. B.
- Aci Castello (Sicily).—Franco, S. di.
- Acidaspis*.—Reed, F. R. C.
- Acireale (Sicily).—Clerici, E., 5.
- Acrohyænodon*.—Ameghino, F., 7.
- Acrolepis*.—Destinez, P.
- Acrosphæra*.—Squinabol, S., 3.
- Acrotreta*.—Wiman, C., 2.
- Acteon*.—Clark, W. B.; Weaver, C. E.
- Actæonella*.—Fittipaldi, E. U.
- Actæonina*.—Blake, J. F., 2; Etheridge, R., *fil.*, 3.
- Actinocamax-plenus* zone, Bohemia.—Petrascheck, W., 4.
- Adda Quaternary glacier (Lombardy).—Wilmer, F.
- Adelphomys*.—Scott, W. B., 2.
- Adelsberg (Styria).—Kossmat, F., 2.
- Adianites*.—Seward, A. C.
- Adit, Kaiser Franz-Josef, Ischl. — Aigner, A.
- Adrianople (Turkey). — Abel, O., 2; Schaffer, F. X.
- Ætobatis*.—Priem, F.; Stromer, E., 1 & 3.
- Africa, Portuguese Colonies.—Choffat, P., 5.
- Africa. *See also* Algeria, British Central, Dahomey, Somaliland, &c.
- Africa (S.).—Passarge, S.; Philippi, E., 6; Tottenham, R. G. L.; Wilman, (Miss) M.
- (—), British Association Meeting in.—Anon., 24; Herbertson, A. J., 2; Lamplugh, G. W., 1 & 2; Miers, H. A., 4.
- (—), classification of formations in.—Corstorphine, G. S.; Hatch, F. H.; Rogers, A. W., 1 & 4.
- (—), recent & fossil fishes.—Bou-lenger, G. A.
- *See also* Cape Colony, Transvaal, &c.
- Aganides*.—Frech, F., 3.
- Agates, Sidlaw Hills.—Dow, R.
- Aggio, Cape (Alpes-Maritimes).—Caziot, E.
- Agnano, Lake (S. Italy).—Piutti, A.
- Agnostus*.—Wiman, C.
- Agomphus*.—Wieland, G. R., 2.
- Agordo (Venetia).—Piutti, A., 2.
- Agulhas Bank (Cape of Good Hope).—Collet, L. W., 2; Schwarz, E. H. L., 2.
- Ahenet (Sahara).—Haug, E., 3.
- Ahmar, Gebel (Egypt).—Barron, T.
- Ailsh, Loch (Ross).—Murray, Sir J., 3.
- Airedale (Yorks).—Jowett, A.
- Airuk Mt. (Kirghiz District). — Jere-mina, (Mrs.) E.
- Aix-la-Chapelle (Rh.-Pruss.).—Forir, H.; Holzapfel, E.
- Akermannite.—Hlawatsch, C.
- Alabama (U.S.A.). — Crane, W. R.; Emmons, S. F., 2; Fuller, M. L., 2-4.
- Alactaga*.—Nehring, A.
- Alalaria*.—Blake, J. F., 2; Etheridge, R., *fil.*, 3; Gregorio, A. de.
- Alaska (N. Am.).—Brooks, A. H., 1 & 2; Fawns, S., 2; Kinzie, R. A.; Lea, S. H.; Maddren, A. G.; Martin, G. C.; Obalski, T.; Purington, C. W., 1 & 2; Spencer, A. C., 2; Wright, C. W.
- Albania (Turkey).—Nopcsa, F., 4.
- Albany, New York State Museum. *See* Museums, &c.

* All fossil-names are those of genera which are figured, or occur in the titles of papers.

Authors' names without a number refer to the first or only title.

- Alberta (Canada).—Bell, R.; Jacobs, E.; Knight, C. W.; Lambé, L. M., 2.
- Albi (Tarn).—Lévy, Aug. M., 4.
- Albian & Aptian, Isère.—Jacob, C.
- Albite.—Melzer, G.
- Albona (Istria).—Schubert, R. J., 2.
- Alder Gulch (Mont.).—Douglass, E.
- Aldwarke (Yorks).—Middleton, F. E.
- Alectryonia*.—Krumbeck, L.; Newton, R. B., 6.
- Ales (Sardinia).—Bassani, F., 6.
- Alethopteris*.—Scott, D. H., 2.
- Algæ 'borings.'—Fuchs, T., 3.
- , Cambrian.—Bell, R.
- , Devonian.—Smith, G. O.
- , Tertiary.—Gasparsis, A. de, 3.
- Algeria (N. Africa).—Ficheur, E., 1-4; Gentil, L., 2; Jacob, C., 4; Lamothe, —; Levat, D.; Savornin, J., 1-3; Thévenin, A.; see also Oran, &c.
- Alwal North (Cape Colony).—Du Toit, A. L.
- Alkali-deposits, Chad district.—Courtet, H., 2.
- , Chile.—Yunge, G.
- , Germany.—Ochsenius, K.; Schulz-Brisen, B.
- , Illinois, Indiana, Iowa, & Wisconsin.—Willcox, O. W., 2.
- , See also Potash & Salt.
- Alken (Belgian Limburg).—Mourlon, M., 2.
- Allanite, Ceylon.—Coomáráswamy, A. K., 4.
- Alligator.—Stefano, G. de.
- Allomeryx*.—Sinclair, W. J.
- Alluvial cones.—Purdue, A. H.
- Alluvium, Elbe.—Schucht, F.
- , Fulda Valley.—Lang, O.
- , Lake Bienne.—Autenen, F.
- , Severn Valley.—Ellis, T. S.
- Alocolytoceras*.—Buckman, S. S., 2.
- Alopecias*.—Stromer, E., 3.
- Alpes-Maritimes.—Ambayrac, —, 1 & 2; Bertrand, L., 1-10; Boule, M., 7; Caziot, E.; Dollfus, G. F.; Guéhard, A., 1-4 & 6; Pellegrin, C.
- Alpine erosion.—Daly, R. A., 3.
- , See also Erosion, Glacial, &c.
- Alps, Bavarian.—Stromer, E.
- , Bernese.—Douvillé, H., 8; Fischer, O.; Lugeon, M., 2; Renevier, E.; Rössinger, G., —; Rollier, L., 1-3.
- , Carnic.—Airaghi, C., 2; Gortani, M.; Vinassa de Regny, P. E., 4.
- , Cottean, &c.—Jacob, C., 3; Novaresse, V.; Sandberg, C. G. S.; Ternier, P.
- , Dinaric.—Hawelka, V.
- , glaciation of the.—Peuck, A., 3.
- , Graian.—Hezner, L.
- , Pennine.—Derôme, J.; Fox, F.; Heim, Alb.; Stella, A., 2; Schardt, H., 3 & 4; Whymper, E.
- , Rhaetian.—Hammer, W., 1 & 3; Mariani, E.
- , Swabian.—Gaiser, E.; Schwarz, H.
- Alps, Swiss.—Hofmann, W.; Schmidt, C., 3; Simoëns, G., 2; Steinmann, G.; Van de Wiele, C.
- Alquife (Andalusia).—Bulmer, G. H.
- Alresford (Hants).—Hawkins, C. E.
- Alsace.—Regelmann, C.; Van Werveke, L.
- Altai Mts. (Siberia).—Brown, L. B.; Spring, R., 2.
- Altopascio (Tuscany).—Ristori, G.
- Alum Pot (Yorks).—Dwerryhouse, A. R.
- Alum-shales, Gothland.—Sjægren, H., 4.
- Aluminium, distribution of.—Day, D. T.
- , Hungary.—Szédeczki, J. von.
- Alunite.—Hillebrand, W. F., 3.
- Alunogen.—Headden, W. P., 2; Hobbs, W. H., 2.
- Amalthea*.—Clark, W. B.
- Amana (Iowa).—Dewalque, G., 4; Hinrichs, G. D.
- Amathusia*.—Wilckens, O.
- Amber, Denmark.—Nørregaard, E. M.
- , Prussia.—Day, D. T.; Meunier, F.
- Ambert (Puy-de-Dôme).—Boubée, E.
- Amblypterus*.—Seward, A. C., 3.
- Ambocelia*.—Stobbs, J. T.
- Ambonychia*.—Raymond, P. E., 2.
- America (Central), volcanic activity.—Sapper, K.
- American Association for the Advancement of Science, 1905. Geology.—Hovey, E. O., 3.
- Ammodiscus*.—Brueckmann, R.; Chapman, F., 2.
- Ammonites, Cretaceous.—Choffat, P., 5; Kønen, A. von; Pavlov, A. P.; Péron, A.; Smith, W. D.; Wollemann, A.; Wysogórski, J.
- , Jurassic.—Benecke, E. W.; Blake, J. F., 2; Buckman, S. S., 1 & 2; Clerc, M.; Collet, L. W.; Fucini, A.; Gregorio, A. de, 2; Lissajous, —; Simionescu, I., 2.
- , Triassic.—Airaghi, C., 2; Diener, C., 2; Martelli, A.; Nætling, F., 2.
- Ammonoidea, Devonian.—Frech, F., 3.
- Ammonoosie (N. Ha.).—Hitchcock, C. H.
- Amphibia, Triassic.—Lomas, J.
- Amphiblestrum*.—Clark, W. B.
- Amphibolite, Aar Massif.—Fischer, O.
- , Austria (Lr.).—Sigmund, A., 3.
- , Donegal, Co.—Cole, G. A. J.
- Amphibolitic diabase (Sardinia).—Viola, C., 2.
- rocks, classification of.—Læwinson-Lessing, F.
- Amphion*.—Raymond, P. E.
- Amphiope*.—Loriol, P. de, 2.
- Amphitemnus*.—Ameghino, F., 7.
- Amplexus*.—Rowley, R. R.; Stucken-berg, A.
- Ampyx*.—Winnan, C.
- Amstelian, Dutch Campine.—Dubois, E., 1 & 4; see also Tertiary.
- Amsterdam Valley (Transvaal).—Frames, M. E.

- Amur R. (Siberia).—Ivanov, M.; Khlaponin, A.; Rippas, P.; Yavorovski, P.
Amussium.—Clarke, E.
 Amzalar (Rumania).—Nicolau, E.
Anadolops & Anagonia.—Ameghino, F., 7.
 Analcite-trachyte tuffs, Alberta.—Knight, C. W.
 Analyses, dolomite.—Knight, N., 2; Skeats, E. W.
 —, Eins & Homburg v. d. Höhe waters.—Fresenius, H., 1 & 2.
 —, Keuper Marls.—Moody, G. T.
 —, Nova Scotian coals.—Gilpin, E., Jun., 1.
 —, rock.—Læwinson-Lessing, F., 2.
 —, Swedish waters.—Hofman-Bang, O.
 Analysis (method of), clay.—Bleiningger, A. V.; Weems, J. B.
 —, microchemical.—Graber, H. W.
 —, mineral.—Chesneau, G.
 —, soils.—Cayeux, L., 1 & 7; Crook, T.; Dumont, J.; Kilroe, J. R.
 Anamesite.—Schwantke, A.
Anaschisma.—Branson, E. B., 2.
 Anatase.—Brezina, A.; Millesevich, F.
Anatina.—Krumbeck, L.
 ANAXIMANDER. See Eastman, C. R., 4.
 Anchi-eutectic & Anchi-mono-mineral igneous rocks.—Vogt, J. H. L., 2.
Anchilophus.—Stehlin, H. G., 3.
 Ancona (Italy).—Cassetti, M., 3.
 Ancos R. (Chile).—Lucio, F. de.
Ancyloceras.—Kœnen, A. von.
Ancylus-deposits, Baltic.—Howorth, Sir H. H., 2.
 Andalusia (Spain).—Bulmer, G. H.; Douvillé, R.
 Andalusite.—Lacroix, A., 2; Molengraaff, G. A. F., 2.
 —, Andes (S. Am.).—Bonney, T. G. 6; Fnock, R.; Evans, J. W., 10; Loram, S. H., 1 & 4.
 Andesite, Ararat.—Bomey, T. G.
 —, Arizona.—Guild, F. N.
 —, Bohemia.—Wohnig, K.
 —, Borneo.—Easton, N. W.
 —, Cantal.—Romeu, A. de.
 —, Caucasus.—Læwinson-Lessing, F., 2.
 —, Fife.—Elsden, J. V., 3; Joly, J.
 —, Merioneth.—Fearnside, W. G.
 —, Murcia.—Pilz, R.
 —, New Zealand.—Sollas, W. J., 2.
 —, Tripoli.—Manasse, E., 2.
 —, West India Is.—Høegbom, A. G., 4.
 Andover (Hants).—Bennett, F. J., 2.
 Andrarum (Gothland).—Persson, E.
 Angara R. (Siberia).—Meister, A., 2.
 Anglesey (N. Wales).—Greenly, E.
 Anglesite, Messina.—Traina, E.
 Angola (W. Africa).—Choffat, P., 5.
 Anhydrite.—Preiswerk, H.; Schaller, W. T., 3.
 Animals, extinct.—Lankester, E. R.
Anisocardia.—Loriol, P. de.
Anisophyllum.—Stuckenberg, A.
Anissodolops.—Ameghino, F., 7.
 Annaberg. See St. Annaberg.
 Annelids, Mount-Torlesse (N. Z.).—Bather, F. A.
 —, Tertiary.—Rovereto, G., 2.
Anomalina.—Hucke, W.
Anomia.—Wilckens, O.
Anomosaurus.—Huene, F. von, 2.
Anoplophora.—Galdieri, A., 2.
 Anorthite.—Borgstrøm, L., &c.
 Antarctic Expedition, British.—Bruce, W. S.; Colbeck, W.; Scott, R. F.
 —, Regions.—Charcot, J.; Ferrar, H. T., 2; Gourdon, E.; Hutton, F. W.; Milne, J., 2; Nordenskjöld, O.; Philippi, E., 1, 3, & 5; Wiman, C., 4.
 Antelao, Mte. (Venetia).—Mariani, E., 2.
Anthracomya.—Gibson, W., 2; Stobbs, J. T., 2.
Anthracosia.—Kœnen, A. von, 2.
Anthrapalæmon.—Woodward, H., 4.
Anthropornis.—Wiman, C., 4.
 Anthy (Upper-Savoy).—Schenk, A.
 Antigorite-serpentine.—Bonney, T. G., 8.
 Antilles, Little (W.I.).—Høegbom, A. G., 4; see also West Indies, &c.
 Antilope, Quaternary.—Hofman, A., 2.
 Antimony, United States.—Day, D. T.
 Antimony-glance, Japan.—Kœnigsberger, J., 2.
 Antoliva Valley (Piedmont).—Lincio, G.
 Antwerp (Belgium).—Van Ertborn, O., 2.
 Auouache Basin (Somaliland).—Arsandaux, A.
 Apache, Fort (Ar.).—Reagan, A. B., 3.
Aparchites.—Wiman, C., 2.
 Apatite.—Schwantke, A., 2.
Apatoccephalus.—Wiman, C.
 Apennines (Italy).—Bellini, R., 3; Lorenzo, G. de, 2, 8, & 10; Moderni, P.; Prever, P. L., 2; Sacco, F., 2, 4, & 5.
Aphelops.—Osborn, H. F., 5.
Apiocrinus.—Remeš, M.
 Aplite.—Piolti, G.
Aplodontia.—Sinclair, W. J., 2.
Aplomilia.—Koby, F.; Missuna, A.
 Apophyllite.—Cornu, F.; Schaller, W. T., 3.
Aporrhais.—Deninger, K.; Locard, A.; Wilckens, O.
 Appalachian Basin (N. Am.).—Stevenson, J. J.
 Apsheron Penin. (Russia).—Goloobyatnikov, D. V., 1 & 2.
Aptyxiella.—Blake, J. F., 2.
 Apuan Alps (Tuscany).—Rovereto, G.; Ugolini, R., 2; Vagliani, C.; Zaccagno, D., 2.
 Apulia (Italy).—Bassani, F., 3; Gasparis, A. de, 3; Taramelli, T., 7.
 Aquitanian, Gironde.—Labrie, J.
 Arabia.—Crick, G. C., 5.
 Arachnida, Carboniferous.—Fritsch, A.
 Aragonite, reproduction of.—Michel, L.

- Arapahoe glacier (Neb.).—Henderson, J.
- Ararat, Mt. (Armenia).—Bonney, T. G., 2.
- Araucaroxylo*.—Fliche, P.
- Arbuckle Mts. (Ind. Terr.).—Taff, J. A.
- Arca*.—Clark, W. B.; Lorient, P. de; Morgan, J. de, 2; Newton, R. B., 3; Osmont, V. C., 2; Reed, F. R. C.; Weaver, C. E.
- Archæan, Africa, S.—Corstorphine, G. S.; Hatch, F. H., 4.
- , Canada.—Bell, R.
- , Greece.—Deprat, J. 2.
- , Portugal.—Delgado, J. F. N.
- , Sahara.—Giard, A.
- Archæocidaris*.—Stobbs, J. T.
- Archæodolops*.—Ameghino, F., 7.
- Archæophis*.—Janensch, W.
- Archegosaurus*.—Seward, A. C., 3.
- Archicorys*.—Squinabol, S., 3.
- Archinacella*.—Raymond, P. E., 2.
- Architectonica*.—Weaver, C. E.
- Arctic land, improbability of polar.—Spencer, J. W., 4.
- , Ocean, shore-lines.—Hull, E., 2; Spencer, J. W., 2.
- , Regions.—Boeckström, H.; Bøhm, J., 1 & 3; Hull, E., 2; Nathorst, A. G.; Schmidt, F. von, 3 & 4; Stevenson, J. J., 2.
- , shell-beds, Scotland. — Jamieson, T. F., 2.
- , Trias.—Bøhm, J., 1 & 3.
- Ardea (Rome).—Meli, R., 2.
- Ardennes.—Limburg-Stirum, A. de.
- Ardennite.—Prandtl, W.
- Arabi (Congo Free State).—Preumont, G. F. J.
- Arenicolites*.—Whitfield, R. P., 3.
- Arenig Fawr (Merioneth) & Arenig Group.—Fearnside, W. G.
- Argentina (S. Am.).—Ameghino, F., 1-9; Hoskold, H. D.; Rowbotham, J. McK.; Thomas, I.; Tornquist, A., 4.
- Argentré (Ille-et-Vilaine).—Bigot, A., 7.
- Argyrolagus* & *Argyromanis*.—Ameghino, F., 7.
- Arid climates.—Davis, W. M., 2.
- Ariège (France).—Bertrand, L., 11 & 12.
- Arionellus*.—Wiman, C., 2.
- Arizona (U.S.A.).—Atwood, W. W.; Blake, W. P., 1, 4, 5; Emmons, S. F., 2; Graichen, W.; Guild, F. N.; Jennings, E. P.; Lindgren, W., 2 & 3; Ransome, F. L.; Reagan, A. B., 3 & 4.
- Arkansas (U.S.A.).—Adams, G. I.; Boltwood, B. B.; Fuller, M. L., 2-4; Purdue, A. H., 2; Veitch, A. C.
- Armadillo, Tertiary.—Osborn, H. F.
- Arnheim Beds, Ohio.—Færste, A. F.
- Arno Valley (Tuscany).—Puccioni, N.; Vinassa de Regny, P., 3.
- Arrabida, Serra d' (Estremadura). — Choffat, P., 1, 2, & 4.
- Arran, I. of (Scotland). — Thomson, J., 2.
- Arsenic, United States.—Day, D. T.
- Arso (I. of Ischia).—Dell' Erba, L.
- Artesian water, Brabant.—Halet, F.
- , Heretaunga Plain (N.Z.).—Hill, H.
- , Italy.—Stella, A., 3; Verri, A., 4.
- , Paris Basin.—Dollfus, G. F., 4; Geslain, M.
- , Queensland.—Williams, C. J. R.
- , United States.—Darton, N. H.; Winchell, N. H., 2.
- Artois (France).—Gosset, J.
- Arvicola*.—Major, C. I. F.
- Asbestos, Canada.—Cirkel, F.; Wilson, E. B.
- , production of.—Evans, J. W., 7.
- Aschaffenburg (Bavaria).—Klemm, G.
- Ashby-de-la Zouch (Leicester).—Strangways, C. F., 2.
- Ashes, Arenig volcanic.—Merioneth.—Fearnside, W. G.
- , Jutland volcanic.—Bæggild, O. B.
- Asia (E.) Orography.—Hobbs, W. H.
- Asia Minor.—Bonney, T. G., 2; Bukowski, G. von, 3; Simmersbach, B.
- Asperipes*.—Matthew, G. F., 2.
- Asphalt, Asia Minor.—Simmersbach, B.
- , Mexico.—Barriga, M. D.
- , United States.—Day, D. T.; Emmons, S. F., 2.
- Aspidoceras*.—Dacqué, E., 2; Kænén, A. von.
- Aspidostoma*.—Canu, F.
- Asplenium*.—Zaleski, M. D.; Zeiller, R.
- Assa Valley (Grisons).—Tarnuzzer, C.
- Assam (India).—Holland, T. H., 2; Maclaren, J. M.
- Assegai Kloof (Transvaal).—Mellor, E. T., 7.
- Assiniboia (Canada).—Lambe, L. M., 4 & 5; Stanton, T. W.
- Astarte*.—Bellini, R., 3; Clark, W. B.; Krumbeck, L.; Wilckens, O.
- Asterias*.—Hucke, W.
- Astragalus, perforate.—Ameghino, F., 1-6.
- Astrakanite.—Van 't Hoff, J. H., 2.
- Astrolampas*.—Lambert, J.
- Astropecten*.—Lorient, P. de, 2; Spencer, W. K.
- Aswan (Nile Valley).—Beadnell, H. J. L.
- Atacama (Chile).—Loram, S. H., 4
- Yunge, G.
- Ataphrus*.—Blake, J. F., 2.
- Atchison Co. (Kan.).—Kneer, E. B.
- Ateleaspis*.—Traquair, R. H., 6.
- Atlantic Ocean (N.), cable-soundings.—Anon., 30; submarine valleys.—Spencer, J. W., 5.
- , (S.), volcanic islands.—Schwarz, E. H. L.
- Atlantosaurus*-beds, Colorado.—Williston, S. W., 2.
- Atlas Mts. (Morocco).—Gentil, L.; Le-moine, P., 2; Savornin, J., 2.
- Atlin (B.C.).—Robertson, W. F.

- Atmosphere, abstraction by iron of oxygen from.—Smyth, C. J., Jun., 3; geological history of the.—Stevenson, J.
- Atmospheric erosion. *See* Erosion, &c.
- Atomic weights.—Wetherell, E. W.
- Atopite.—Hussak, E., 2.
- Atractites*.—Martelli, A.
- Atrina*.—Clark, W. B.
- Aubrey Formation, Arizona.—Reagan, A. B., 3; Limestone, Rocky Mts.—Reagan, A. B., 2.
- Aburn (N.Y.).—Hartnagel, C. A.
- Aucella* & *Aucellina*.—Woods, H.
- Auckland (N.Z.).—Sollas, W. J., 2.
- Aue (Saxony).—Stutzer, O.
- Augite.—Luczizki, V.; *see also* Felspar.
- Aulacoidaris*.—Loriol, P. de, 2.
- Auriferous conglomerates. *See* Banket.—gravel, Ynkon.—Obalski, T.
- Australia (S.). *See* South Australia.
- (W.). *See* Western Australia.
- Austria. *See* Galicia, Moravia, &c.
- Austria (Lower).—Sigmund, A., 2 & 3; Vettors, H.; *see also* Vienna Basin.
- (Upper).—Mojsisovics, E. von, 2.
- Autophytography.—White, C. H.
- Autunite. *See* Calco-uranite.
- Auxerre (Yonne).—Lemoine, P., 6.
- Avezano (Abruzzi).—Cassetti, M.
- Avicula*.—Bøhm, J.; Daqué, E., 2.
- Aviculopecten*.—Bøhm, J.
- Avon R. (Somerset, &c.).—Oriol, B.
- Awaruite.—Jamieson, G. S.
- Axes, crystalline.—Becke, F., 4; Luczizki, W.; Wright, F. E.
- Axophyllum*.—Vaughan, A.
- Aymestry (Hereford).—Herries, R. S., 2.
- Ayrshire.—Smith, J., 1-5.
- Azurite.—Cesàro, G., 2; Hobbs, W. H., 3.
- Baccano, Lake (Rome).—Clerici, E., 1 & 6.
- Bach Mts. (Styria).—Dreger, J.
- Bactrites*.—Loomis, F. B.
- Baden (Germany).—Eisele, H.; Regelmann, C.; Schnarrenberger, K., 1 & 2; Thuerach, H., 1 & 2; Wilckens, O., 2.
- Badger Head (Tasm.).—Twelvetrees, W. H.
- Baffin Land (Arctic).—Emerson, B. K.
- Bagnères de Bigorre (Hautes-Pyrénées).—Carez, L.; Mascart, —.
- Bagnes, Val de (Valais).—Rabot, C.
- Bagshot Beds.—Fisher, O., 2.
- Baiera*.—Seward, A. C.
- Baikal, Lake (Siberia).—Ochsenius, C., 2.
- Bairdia*.—Chapman, F., 3; Lienenklaus, E.
- BAKER, M. *Obit.*—*See* Dall, W. H.
- Bakerville (B.C.).—Atkin, A. J. R., 2.
- Bakony Mts. (Hungary).—Prinz, G., 2; Staff, H. von.
- Baku (Caucasus).—Andrusov, N. E.; Goloobyatnikov, D. V., 1 & 2; Trevithick, J. H.
- Balanca (Rumania).—Nicolau, T.
- Balanophyllia*.—Dennant, J.
- Balanus*.—Woodward, H., 3.
- Balaton Lake (Hungary).—Staff, H. von; Vitalis, S.
- Bálincz (Hungary).—Kadic, O.
- Balistes*.—Bassani, F., 3.
- Balkan Mts. (Turkey).—Douvillé, H., 6; Launay, L. de; Zeiller, R.
- Ballyfin Bog (Ireland).—Adams, J.
- Balmhorn massif (Valais).—Lugeon, M., 2.
- Balmoral (Transvaal).—Mellor, E. T., 8.
- Baltic glaciation.—Jentzsch, A.; Keilhack, K., 2; Maas, G.; Négis, P.
- , Quaternary history of the.—Deecke, W., 3; Howorth, Sir H. H., 3.
- , southern sandbanks of the.—Deecke, W., 5; Schellwien, E.
- , *See also* Pomerania, &c.
- Baltic Provinces (Russia).—Brueckmann, R.; Doss, B.
- Baluchistan (India).—Burrows, H. W.; Newton, R. B., 3; Woodward, H., 3.
- Balve (Westphalia).—Beyschlag, F.
- Banaba I. (S. Pacific).—Power, F. D.
- Banbury (Oxon).—Walford, E. A., 2.
- Banket, Rhodesia.—Mennell, F. P., 3 & 4.
- Baptanodon*.—Merriam, J. C., 4.
- beds, Colorado.—Williston, S. W., 2.
- Baraboo (Wisc.).—Weidman, S.
- Barberino di Mugello (Prov. of Florence).—Pasquale, M., 2.
- Barcelona (Catalonia).—Almera, J.; Neviani, A., 2.
- Barillopus*.—Matthew, G. F., 2.
- Barinophyton*.—Smith, G. O.
- Barissan Mts. (Sumatra).—Tobler, A.
- Barkly East (Cape Colony).—Du Toit, A. L.
- Barley (Devon).—Rowe, J. B.
- Barnsley (Yorks).—Davison, C., 2.
- Baropezia*.—Matthew, G., 2.
- Barremian, Gard.—Lambert, J.; Sayn, G.—Oran.—Gentil, L., 2.
- BARRIS, W. H. *Obit.*—*See* Hammatt, E. S.
- Barrow (Leicester).—Roechling, H. A.
- Barry (Glamorgan).—Richardson, L., 3.
- Bartin (Pomerania).—Hucke, K.
- Bartonian, Languedoc.—Stehlin, H. G., 3.
- Barycrinus*.—Whitfield, R. P., 2.
- Baryghelia*.—Koby, F.
- Barylite.—Tacconi, E., 2.
- Baryphyllia*.—Koby, F.
- Barytes.—Artemiev, D. N.: Ball, S. H.; Day, D. T.; Hobbs, W. H., 3.
- Basalt, Antarctic.—Nordenskjöld, O.; Scott, R. F.
- , Arizona.—Guild, F. N., 2.
- , Baden.—Wilckens, O., 2.
- , Bohemia.—Cornu, F., 2; Færster B.; Graber, H. V., 2.
- , Borneo.—Easton, N. W.

- Basalt, Columbia (District of).—Piper, C. V.
 —, Germany.—Chelius, C., 3; Gaiser, E.; Hornung, F.; Schauf, F.; Schottler, W., 1 & 2; Schwarz, H.; Wysocki, J., 3.
 —, Hebrides Tertiary.—Stracey, B.
 —, Hungary.—Vitalis, S.
 —, Mangareva & Pitcairn Is.—Lévy, Aug. M., 2.
 —, New Mexico.—Brady, F. W., 2.
 —, New South Wales.—Mingaye, J. C. H.; Morrison, M.
 —, Pembrokehire.—Elsden, J. V., 2.
 —, Sahara.—Foureaux, F.
 —, Somaliland, &c.—Arsandaux, H., 1-3.
 —, Styria.—Sigmund, A.
 —, Tahiti.—Lacroix, A., 3.
 —, Tasmanian melilite.—Twelvetrees, W. H., 5.
 —, Transvaal.—Rand, R. F.
 —, Tripoli.—Manasse, E.
 —, Vogelgebirge.—Kœbrich, —; Schwantke, A.
 —, Washington (U. S. A.).—Calkins, F. C.
 —, Weitendorf.—Hilber, V.
 Basaltic Is., S. Atlantic.—Schwarz, E. H. L., 6.
 Basilicata (Italy).—Bassani, F., 5; Lorenzo, G. de, 1, 2, & 8.
Basilicus.—Schmidt, F. von.
 Basin Ranges, New Mexico.—Keyes, C. R., 4.
 Basingstoke (Hants).—Bennett, F. J., 2.
Bassania.—Gasparis, A. de.
 Bassano (Venetia).—Taramelli, T., 4.
 Basses-Alpes (France).—Lévy, Aug. M., 4.
 Bastille, Montagne de la (Dauphiné).—Kilian, W.
 Bathonian, Besançon.—Deprat, J., 3.
 —. See also Jurassic.
Bathyactis.—Demant, J.
Bathynathus.—Case, E. C., 2.
 Batoka Gorge (Zambesi R.).—Lamplugh, G. W., 1 & 2.
 Batrachia, Tertiary.—Stefano G. de.
 —, Triassic.—Branson, E. B., 2.
 Batrachian footprints, Carboniferous.—Matthew, G. F., 2.
 Bauxite, Georgia.—Watson, T. L.
 —, India.—Holland, T. H., 3.
 —, United States.—Day, D. T.
 —, Vogelgebirge.—Kœbrich, —.
 Bavaria.—Ammon, L. von, 1 & 2; Bertling, R.; Fink, W., 1 & 2; Glungler, G.; Kohler, E., 2; Kranz, W.; Reindl, J., 1-3; Stromer, E.; see also Mineral waters, &c.
 Beach-sands, Queensland.—Ball, L. C.
 Bear I. (Barents Sea).—Bœhm, J., 1 & 3.
 Bear, Cave, Dordogne.—Capitan, L., 4.
 Beaufort Beds.—Rogers, A. W., 4.
 Beaulieu, Bois de (Boulonnais).—Mourlon, M.
 Bechar, Djebel (Oran).—Thévenin, A.
 Bechuanaland (S.A.).—Holmes, G. G.; Passarge, S.
 Beckelite.—Morozevich, I., 1 & 3.
 Becraft Mt. (N.Y.).—Grabau, A. W.
 Bedford.—Woodward, H. B., 5 & 6.
 Bedfordshire.—Hopkinson, J., 1 & 2; Lamplugh, G. W., 3.
 BEECHER, C. E. *Obit.*—See Bather, F. A., 5.
 Bega R. (Hungary).—Kadić, O.
Belemnites.—Blake, J. F.; Clerc, M.; Pavlov, A. P.; Vettors, H.
 — *-mucronata* Chalk, microscopic plants in.—Reinsch, P. F.
Belemnites, Cretaceous.—Lankester, E. R.
 —, Jurassic.—Benecke, E. W.; Lugeon, M.
 Belgium, dislocations in strata.—Dewalque G., 3; see also Brabant, Tertiary, &c.
 Belknap Mts. (New Hampshire).—Pirson, L. V., 3.
 Bellenberg volcano (Rh.-Pruss.).—Gaubert, P., 6.
 Belliazzi (I. of Ischia).—Oglialoro-Todaro, A.
Bembexia.—Donald, (Miss) J., 2.
 Bena di Padru (Sardinia).—Lovisato, D.
 Bendigo, Little (Vict.).—Bradford, W., 2.
 Bengal (India).—Stonier, G. A., 2.
 Beni R. (Bolivia).—Evans, J. W., 9.
 Benkovac (Dalmatia).—Schubert, R. J., 6.
Bennettites.—Lignier, O.
 BENOST, A. E., *Obit.*—See Degrange-Touzain, A., 2.
 Berbachite, Urals.—Duparc, L., 4.
 Berchtesgaden (Bavaria).—Kohler, E., 2.
 Bereg Komitat (Hungary).—Posewitz, J.
 Berhaven (Co. Cork).—Blenkinsop, G. H.
Berenicia.—Dacqué, E., 2.
 Bering R. (Alaska).—Brooks, A. H., 2; Martin, G. C.
 Berkshire.—Bennett, F. J.; Davey, E. C.; Lamplugh, G. W., 4; Monckton, H. W., 3; Salter, A. E.; Treacher, L.; Walker, H.; Wright, J.
 Bermuda Banks (Atlantic).—Biglow, H. B.
 Berne (Switzerland).—Juillerat, E.; Lugeon, M., 2; Rollier, L., 1-3 & 7; Studer, T.; Tüchle, M.
 Bernese Jura (Switzerland).—Æberhardt, B.; Fleury, E., 2; see also Jura, Swiss.
 Berrow Hill (Gloucester).—Richardson, L., 4.
 Berwickshire.—Goodchild, J. G., 4.
 Berwyn Hills (Wales).—Watts, W. W.
Berycidarum.—Schubert, R. J., 3.
 Beryl.—Coomáráswamy, A. K., 4; Lincio, G.; Pollok, J. H.
 Beryllium.—Wetherell, E. W., 2.
 Besançon (Dauphiné).—Deprat, J., 3.
Betulites.—Stanton, T. W.
 Beuthen (Silesia).—Michael, R.

- Beyrichia*, Devonian.—Loomis, F. B.; Thomas, I.
- Beyrichona*.—Wiman, C., 2.
- Biarritz (Basses-Pyrénées).—Boussac, J.
- Biber Valley (Schaffhausen).—Meister, J.
- 'Bibliographia Geologica.'—Margerie, E. de, 2.
- Bibo*.—Meunier, F.
- Bieberwier (Tyrol).—Rose, —.
- Biel, Lake. *See* Bienne, Lake.
- Bielefeld (Westphalia).—Meyer, E.
- Bielew (Tula Gov.).—Tchirvinski, P. N.
- Biella (Piedmont).—Zamboni, F., 2.
- BIELTZ collection of mollusca.—Horwitzky, H., 2.
- Bienne, Lake (Berne).—Antenen, E.; Rollier, L., 3 & 7.
- Big Bend District (B.C.).—Carmichael, H.
- Big Blackfoot Valley (Mont.).—Winchell, N. H.
- Bihar Mts. (Hungary).—Szádeczki, J. von.
- Billingen (Gothland).—Munthe, H., 4.
- Billings (Mo.).—Ward, H. A.
- Bilna (Sudan).—Courtet, H., 2.
- Bilobites*-like concretions.—Deecke, W., 2.
- Biloculina*.—Wójcik, K.
- Bina (Congo Free State).—Preumont, G. F. J.
- Bimicroporella*.—Canu, F.
- Bingham Cañon (Utah).—Boutwell, J. M.
- Binn Valley (Valais).—Millosevich, F.; Solly, R. H.
- Biotite-diorite, California.—Osmont, V. C.
- Biradiolites*.—Douvillé, H.; Morgan, J. de, 2.
- Birds, Cretaceous.—Stanton, T. W.
- , fossil.—Lankester, E. R.; Wiman, C., 4.
- , Quaternary.—Nehring, A.
- Birkenau (Hesse).—Klemm, G., 7.
- Birmingham (Ala.).—Crane, W. R.
- Bisbee (Arizona).—Ransome, F. L.
- Bischoff, Mount (Tasm.).—Fawns, S., 1 & 2.
- Bishop's Stortford (Herts).—Irving, A., 3.
- Bishopool & Bishton (Mon.).—Richardson, L., 2.
- Bislich (Rh.-Pruss.).—Schulz-Brisen, B.
- Bismuth, Venetia.—Piutti, A., 2.
- silver-gangue, Erzgebirge.—Viebig, W.
- Bismuthite.—Headden, W. P., 2.
- Bitchu (Japan).—Yokoyama, M.
- Bittium*.—Blake, J. F., 2.
- Bitumen, origin of.—Morgan, W. C.
- Bituminous limestone. *See* Sapropel.
- rocks, temperatures of borings in.—Branco, W., 2; Stremme, H.
- sand, Heppenheim.—Steuer, A.
- schists, Salerno Triassic.—Bassani, F., 4.
- Björneborg (Örebro).—Blomberg, A.
- Black Hill (Berwickshire).—Goodchild, J. G., 4.
- Blackheath (Kent).—Salter, A. E., 4.
- Blackheath (Surrey).—Herries, R. S.
- Black-Reef Series, Transvaal.—Kyuaston, H., 3 & 6.
- Blackened rocks, desert.—Blake, W. P., 2; Lucas, A.
- Blair Atholl (Perth.).—Barrow, G.; Horne, J.
- Blairmore (Alberta).—Jacobs, E.
- Blanc, Mont (Savoy).—Whympere, E.
- BLANDY, J. F. *Obit.*—*See* Raymond, R. W.
- BLANFORD, W. T.—*Biography.* *See* Anon., 1; *Obit.*—*See* Anon., 2; & Geikie, Sir A., 3.
- Blastosmia*.—Koby, F.
- Blauen Mt. (Swiss Jura).—Jenny, F.
- Blea Wyke Point (Yorks).—Rastall, R. H.
- Blende, France.—Lodin, A.
- , Sardinia.—Rimatori, C.
- , Valais.—Solly, R. H.
- Blocks, classification by size.—Atterberg, A., 1 & 2.
- , erratic, Alps (W.).—Sandberg, C. G. S.; *see also* Erratic.
- Blue Mt. (Ont.).—Bell, R.
- 'Bluestone,' New York.—Dickinson, H. T.
- Bæckia*.—Wiman, C., 3.
- Bogs, Holstein.—Wolff, W., 2.
- , Scotland.—Smith, W. G.
- , Sweden.—Sundbærg, G.
- , *See also* Peat.
- Bohemia.—Broili, F., 2; Færster, B.; Fritsch, A., 2; Hinterlechner, K.; Hibscl, J. E., 1-3; Hæfer, H., 2; Jahn, J. J., 1 & 2; Katzer, F., 1 & 2; Klvaňa, J.; Liebus, A.; Petrascheck, W., 2-5; Richter, K.; Schmidt, A., 2; Stép, J.; Tietze, E.; Wohnig, K.; Woldrich, J. N.; Želízko, J. V., 1 & 2; Zimmermann, R.
- Böhm.-Leipa. *See* Leipa.
- Böhmerwald (Bohemia).—Reindl, J., 2; Woldrich, J. N.
- Bois-Borsu (Liège).—Destinez, P.
- Bokkeveld Beds.—Rogers, A. W., 4.
- Bolca, Monte (Venetia).—Janensch, W.
- Bolchov (Orel Gov.).—Tchirvinski, P. N.
- Bolivia (S. Am.).—Bradley, D. H., Jun.; Evans, J. W., 9; Hæk, H.; Lœmberg, E.; Pompeckj, J. F.; Roberts, M.; Ticht, W. G.
- Boljevici (Montenegro).—Martelli, A.
- Bologna (Emilia).—Roccati, A., 2.
- 'Bolson-plains,' New Mexico.—Passarge, S., 2; Ticht, W. G., 3.
- Bom R. (Siberia).—Rippas, P.
- Bombay (India).—Warth, H.
- Bone-bed, Bohemian Cretaceous.—Petrascheck, W., 2.
- , —, Triassic.—Jahn, J. J., 2.
- Bone-beds, Fayum.—Beadnell, H. J. L., 2.
- , Rhætic.—Wickes, W. H.

- Bone-bludgeon, Suffolk Crag.—Fisher, O., 3.
 — cave, Hoe-Grange Quarry.—Arnold-Bemrose, H. H.
 Boothite.—Schaller, W. T., 3.
 Borax, Chile.—Yunge, G.
 —, United States.—Day, D. T.
Boreodon.—Stanton, T. W.
 Borings, Belgium.—Mourlon, M., 3;
 Van Ertborn, O., 1 & 3.
 —, Bohemia.—Katzner, F.
 —, Cambridgeshire.—Whitaker, W., 3.
 —, dip of beds in.—Marriott, H. F.
 —, Dover.—Anon., 17.
 —, fossils in.—Capeder, G., 3.
 —, Germany (N.).—Linstow, O. von;
 Ochsenius, K.; Schneider, O.
 —, Hesse.—Klemm, G., 3; Steuer, G.;
 Reinach, A. von, 2.
 —, Lincolnshire.—Woodward, H. B.,
 9.
 —, Meurthe-et-Moselle. — Cavallier,
 C.; Laur, F., 1-3; Nicklès, R., 3 & 4;
 Zeiller, R., 3 & 4.
 —, Neuffen.—Branco, W., 2; Stremme,
 H.
 —, Newfoundland.—Howley, J. P.
 —, New Jersey.—Vermeule, C. C.
 —, Nord.—Cornet, J., 5.
 —, Nova Scotia.—Gilpin, E., Jun., 3.
 —, Picardy.—Gosselet, J.
 —, Rome.—Clerici, E., 2.
 —, Schleswig-Holstein.—Gagel, C., 2
 & 4.
 —, Silesia.—Michel, R., 2.
 —, stresses in earth's crust.—Chree, E.
 —, temperature in deep.—Gilbert, G.
 K., 3.
 —, Transvaal.—Horwood, C. B.
 —, Turin.—Sacco, F., 4.
 —, United States.—Darton, N. H.;
 Fuller, M. L., 5.
 —, Victoria.—Anderson, W. R.
 Bormio (Lombardy).—Hammer, W., 1
 & 3.
 Borneo (E.I.).—Huxham, B. H.; Roden,
 J.; Volz, W., 2.
 —, West (D.E.I.).—Easton, N. W.
Bornia.—Clark, W. B.
 Borszékfürdö (Transylvania). — Pálfy,
 M. von, 2.
 Boskowitz (Moravia).—Suess, F. E., 2.
 Bosnia.—Baumgärtel, B.; Hawelka, V.;
 Katzner, F., 3 & 4; Kittl, E.; Schiller,
 J.
 Bosrück Tunnel (Upper Austria).—
 Geyer, G., 2.
 Boston (Mass.).—Gulliver, F. P.
 Bostonite, Pembrokeshire. — Eldsen,
 J. V., 2.
 —, Rézbánya.—Windhager, F.
 Bothnia, Gulf of.—Howorth, Sir H. H., 3.
 Botzen (Tyrol).—Trenner, G. B.
Boucharidia.—Hutton, F. W., 4.
 Boulangerite.—Gonnard, F., 2.
 Boulder-Clay, faceted pebbles in Che-
 shire.—Bather, F. A., 3.
 — — —, Lancashire.—Reade, T. M.
 Boulder-Clay, Yorkshire.—Sheppard, T.
 Boulders, Cambridgeshire.—Rastall, R.
 H., 4.
 —, Danish & N. German glacial.—
 Grøenwall, K. A., 1 & 2.
 —. See also Erratic blocks.
 Boulonnais (France). — Cornet, J.;
 Fliche, P., 3; Mourlon, M.; Sauvage,
 H. E., 1 & 3.
 Bourbon - Lancy (Saône-et-Loire). —
 Michel-Lévy, Alb. M.
 Bourges (Cher).—Dollfus, G. F., 3.
 Bournemouth (Hants).—Reid, C., 2.
 Bournonite.—Richard A.; Schaller, W.
 T., 3.
 Bovey Tracy (Devon).—Lowe, H. J.
 — — — Beds, Devon.—Fisher, O., 2;
 Hunt, A. R., 4.
 Bowmanite.—Solly, R. H.
 Brabant (Belgium).—Halet, F.; Van
 Ertborn, O.
 Brachiopoda, Carboniferous. — Morgan,
 J. de, 2; Nøtting, F., 3; Reagan,
 A. B., 3; Stobbs, J. T.; Vaughan,
 A.
 —, Cretaceous.—Masias, M. G., 2;
 Morgan, J. de, 2; Péron, A.; Wil-
 ckens, O.
 —, Devonian.—Dun, W. S.; Loomis,
 F. B.; Thomas, I.
 —, Jurassic.—Benecke, E. W.; Clerc,
 M.; Dacqué, E., 2.; Krumbeck, L.:
 Lorient, P. de; Upton, C.; Rau, K.
 —, Ordovician. — Chapman, F.;
 Förster, A. F.; Raymond, P. E., 2;
 Reed, F. R. C.
 —, Permian.—Martelli, A.
 —, Silurian.—Dun, W. S.; Hudson,
 G. H.; Wiman, C., 2.
 —, Tertiary.—Behm, J., 5; Clark,
 W. B.; Hutton, F. W., 4.
 —, Triassic.—Behm, J.
Brachiocrinus.—Talbot, M.
Brachiosaurus.—Riggs, E. S.
Brachybrachium.—Williston, S. W.
 Brád (Transylvania).—Bauer, J.
 Bradenham (Bucks).—Spicer, E. C.
 Bradford (Yorks).—Jowett, A.
Bradrona.—Wiman, C., 2.
Bradya.—Stache, G.
 Bragdon Formation, California.—Diller,
 J. S.
 Bramburg (Hanover).—Hornung, F.
 Brandenburg (Prussia).—Beyschlag, F.;
 Raab, O.; Schröder, H., 2.
 BRASS, H. *Obit*.—See Marr, J. E.
 BRAVAIS on twinning.—Friedel, G.
 Braunau District (Silesia).—Berg, G.;
 Schmidt, A., 2.
 Brazil (S. Am.).—Cayeux, L., 2.; Hla-
 watsch, C., 2; Hussak, E.; Krasser,
 F.; Milne, G. T.; Scott, H. K.
 Breccias, Chablais Jurassic. — Lugeon,
 M.
 —, frictional, between granite and
 marble, Basses-Pyrénées. — Termier,
 P., 4.
 —, Maux schistose.—Blake, J. F.

- Brecciated limestones, Pyrenees.—Rousel, J.
- Brèche-au-Diable (Normandy).—Bigot, A., 2.
- Bredon Hill (Worcester).—Richardson, L., 7 & 8.
- Brenner Pass (Tyrol).—Bonney, T. G., 8.
- Brescia (Lombardy).—Bettoni, A.; Cacciamali, G. B., 2.
- Brentwood (Essex).—Woodward, H. B., 4.
- Breslau (Silesia).—Dathe, E.; Frech, F., 4.
- Bressuire (Deux-Sèvres).—Fournier, A.
- Bretten (Baden).—Schnarrenberger, K., 2.
- Bribir (Dalmatia).—Dainelli, G.
- Bridgend (Glamorgan).—Strahan, A., 2; Tiddeman, R. H.
- Bridges, natural, formation of.—Cleland, H. F.
- Bridlington (Yorks).—Muff, H. B.
- Briilon (Westphalia).—Leclerc, H.
- Bristol.—Morgan, C. L.; Tutchet, J. W.; Vaughan, A.
- Britanny (France).—Bigot, A., 1 & 7; Brun, P. de.
- British Association, S. Africa, 1905.—Anon., 24; Boulenger, G. A.; Herbertson, A. J., 2; Miers, H. A.
- British Central Africa.—Dunstan, W. R., 8.
- British Columbia (Canada).—Ashworth, J., 1 & 2; Atkin, A. J., 1 & 2; Attwood, G.; Bell, R.; Carmichael, H.; Daly, R. A., 2; Macbride, R.
- British Guiana (S. Am.).—Hargreaves, T. S.
- British Isles, earth-movements.—Strahan, A.; *see also* England, &c.
- British Pacific Cable.—Klotz, O.
- Brocken massif (Harz).—Erdmannsdorffer, O. H., 3.
- Broken Hill (Victoria).—Walpole, G. S.
- Broni (Lombardy).—Taramelli, T., 3.
- Brontosaurus*.—Gregory, W. K.; Osborn, H. F., 10.
- Bronzite.—Erdmannsdorffer, O. H., 2.
- Brookite, Cleveland ironstone with.—Lindsey, C. R.
- Brown-coal, Asia Minor.—Simmersbach, B.
- , Bohemian Tertiary.—Hibsch, J. E.
- , origin of.—Hoffmann, J. F.
- , Wiesbaden Tertiary.—Henrich, F., 2.
- Brown iron-ore, Hesse.—Muenster, H., 1 & 2.
- Brown, T. *See* SHERBORN, C. D., 4.
- Brown's Creek (Victoria).—Chapman, F., 2.
- BROWNE, R. G. M. *Obit.*—*See* Marr, J. E.
- Bruay (Pas-de-Calais).—Barrois, C., 2.
- Bruce Mines Bay (L. Huron).—Bell, R.
- Brucite.—Peruzzi, L.
- Bruguiera*.—Prever, P. L.
- Brünn (Moravia).—Suess, F. E.
- Brunswick (Germany).—Beyschlag, F.; Bode, A.; Wollemann, A.
- Bruscus R. (Brazil).—Hussak, E.
- Brussels (Belgium).—Devonshire, E. Mourlon, M., 3; Rutot, A., 5.
- Brüttelen (Berne).—Studer, T.
- Bryozoa, Carboniferous.—Stuckenber, A.; Whitfield, R. P.
- , Cretaceous.—Péron, A.
- , Devonian.—Cummings, E. R., 1 & 2.
- , Jurassic.—Lang, W. D.
- , Silurian.—Hennig, A.
- , Tertiary.—Burrows, H. W.; Canu, F.; Neviani, A., 1 & 2.
- Bucegi (Rumania).—Simionescu, I., 2.
- BUCH, L. von, monument near Weyer (U. Austria).—Geyer, G.; Toula, F., 3.
- Buckinghamshire.—Salter, A. E.; Sikes, R. C.; Spicer, E. C.; Treacher, L., 2; White, H. J. O.; Woodward, H. B., 8.
- Buchsweiler (Alsace).—Van Werveke, L.
- Buda (Dalmatia).—Bukowski, G. von.
- Buda Mts. (Hungary).—Aradi, V.
- Budapest (Hungary).—Staff, H. von.
- Budweis (Bohemia).—Katzner, F.
- Buenos Aires (S. Am.).—Reche, O.
- Buidhe, Loch (Sutherland).—Murray, Sir J., 3.
- Building-stones, Hesse.—Chelius, C., 4.
- , United States.—Buckley, E. R., 2; Day, D. T.; Emmons, S. F., 2.
- Builth (Radnorshire).—Watts, W. W.
- Buiskop (Transvaal).—Mellor, E. T., 4.
- Bukovina (Austria).—Vetters, H., 2.
- Búlandshöfði (Iceland).—Pjetursson, H.
- Bulgaria.—Allachverdjeff, D. G.; Bakalov, P.
- Bulla*.—Wilekens, O.
- Bullinula*.—Weaver, C. E.
- Bunter Sandstone. *See* Trias.
- Burgundy (France).—Lemoine, P., 6; Lévy, Alb. M.; Martel, E. A., 5.
- Burham (Kent).—Dibley, G. E.
- Burma.—Fawns, S., 2; Holland, T. H., 2.
- Burrington Combe (Devon).—Sibly, T. F., 2.
- Burton-on-Trent (Staffs).—Hind, W.; Strangways, C. F., 2.
- Bushveld tin-field (Transvaal).—Fawns, S.; Hall, A. L., 1 & 3.
- Bussignano spring (Umbria).—Verri, A.
- Buta (Congo Free State).—Preumont, G. F. J.
- Butterton dyke (Staffs).—Gibson, W., 2.
- Bythotrephis*.—Bell, R.
- Cabbé-Roquebrune (Alpes-Maritimes).—Bertrand, L., 9.
- Cadereyta (Mexico).—Villarello, J. de D., 2.
- Cadoceras*.—Blake, J. F., 2.
- Cadore (Venetia).—Airaghi, C., 2; Mariani, E., 2.
- Cæcum*.—Clark, W. B.

- Cænopus*.—Osborn, H. F., 5.
 Caernarvon (N. Wales).—Elsden, J. V., 4; Schaub, L.
 Cagliari (Sardinia).—Vigliarolo, G.
 Cajabamba (Peru).—Santolalla, F. M., 1 & 2.
 Calabria (Italy).—Bassini, F., 8; Clerici, E., 4; Crema, C.; Neviani, A., 3.
Calamophyllia & *Calamosmia*.—Koby, F.
 Calcareous tufa, Scania.—Kurck, C.
 Calcite.—Cesàro, G.; Dunstan, B.; Hobbs, W. H., 3; Thugutt, St. J., 2.
 —, fetid.—Harrington, B. J.
 Calco-uranite.—Gaubert, P.
 Caldarelle (Campania).—Oglialoro-Todaro, A., 2.
 California (U. S. A.).—Blake, W. P.; Branner, J. C.; Day, D. T.; Diller, J. S.; Emmons, S. F., 2; Furlong, E. L.; Gilbert, G. K.; Knox, N. B.; Lawson, A. C.; Lee, W. T.; Osmont, V. C., 1 & 2; Pritchard, W. A.; Prutzman, P. W.; Reid, J. A.; Sinclair, W. J., 2; Turner, H. W.; Weaver, C. E.
 —, coast-ranges of.—Anderson, F. M.
 Californite.—Clarke, F. W., 3.
 Callide Coalfield (Queensl.).—Syson, R. C.
Callocardia.—Clark, W. B.
Callocystites.—Schuchert, C.
 Callovian, Morocco.—Gentil, L., 4.
 Calvados (France).—Bigot, A., 2-5.
 Calvörde (Brunswick).—Beyschlag, F.
Calyptrea.—Clark, W. B.; Locard, A.; Newton, R. B.
 Camana (Peru).—Alvarado, L. U.
Camaroerinus.—Jækel, O., 3; Schuchert, C.
Camarotoechia.—Raymond, P. E., 2; Vaughan, A.
 Camborne (Cornwall).—Davison, C., 2.
 Cambrian, Brittany.—Bigot, A.
 —, China.—Mansuy, H.; Woodward, H., 2.
 —, Lake-Superior Region.—Lane, A. C., 2; Van Hise, C. R., 4.
 —, Merioneth.—Fearnside, W. G.
 —, New York.—Clarke, J. M., 2; Dale, T. N.
 —, Panjab.—Walcott, C. D., 2.
 —, Portugal.—Delgado, J. F. N.
 —, South Australia.—Howchin, W.
 —, Sweden.—Sundberg, G.
 — phosphates, Victoria.—Howitt, A. M.
 Cambridgeshire.—Lamplugh, G. W., 3; Marr, J. E., 3; Rastall, R. H., 4; Salter, A. E.; Whitaker, W., 3.
 Cambro-Ordovician, Missouri.—Ball, S. H.
 — — — Limestones, Virginia.—Campbell, H. D.
 Camels, Tertiary.—Matthew, W. D., 2.
 Camenz (Saxony).—Friedrich, E. G.
 Cameroons (W. Africa).—Grossouvre, A. de, 4.
 Campaglia (Piedmont).—Lincio, G., 3.
 Campania (Italy).—Bassani, F., 4; Bøse, E.; Galdieri, A., 2; Manasse, E.; Oglialoro-Todaro, A., 2 & 3.
Campanile.—Morgan, J. de, 2; Newton, R. B., 6.
 Campbell I. (S. Pacific).—Speight, R.
 Campbell-Rand Beds.—Rogers, A. W., 4.
 Campine (Belgium).—Dubois, E., 2 & 4; Forir, H.; Van Ertborn, O., 3; Velge, G., 1 & 2.
 — (Dutch).—Dubois, E., 1 & 4
 Velge, G.
 Campobasso (Italy).—Fittipaldi, E. U.
Campophyllum.—Stuckenberg, A.
Campteroptlebia.—Bode, A.
 Camptonite, Tyrol.—Proboscht, H.
 Canada, Carboniferous footprints.—Matthew, G., 2.
 —, geology & palæontology, 1903.—Ami, H. M., 2.
 —, Natural History Museums.—Merrill, F. J. H.
 —, new provinces of.—Anon., 20.
 —, Tertiary plants.—Penhallow, D. P., 2.
 —, vertebrate palæontology in.—Lambe, L. M., 3.
 — (N. W. Terr.).—Obalski, T.
 —. See Alberta, Assiniboia, British Columbia, Ottawa, &c.
 Canandaigua Lake (N. Y.).—Clarke, J. M., 8.
 Cananea, Sonora (Mex.).—Blake, W. P., 3.
Cancellaria.—Clark, W. B.
 Candoglia (Piedmont).—Tacconi, E., 2.
Candona.—Lienenklaus, E.; Sieber, —.
Candonopsis.—Sieber, —.
 Cango Beds.—Rogers, A. W., 4.
Caninia.—Stuckenberg, A.; Vaughan, A.
Canis.—Ameghino, F., 4; Nehring, A.
 Canjuers, Plain of (Var).—Martel, E. A., 11.
Cannartiscus.—Clark, W. B.
 Cannel-Coal. See Sapropel.
 — peat, Stettin.—Potonié, H.
 Cannstatt (Württemberg).—Meigen, W.
 Canso, Cape (Nova Scotia).—Anon., 30.
 Cantabrian Mts. (Spain).—Termier, P., 5.
 Cantal (France).—Lauby, A., 2; Romeu, A. de.
 Canterbury (N. Z.).—Hutton, F. W., 2; Park, J., 3.
 Canutillo (Chile).—Loram, S. H., 2 & 3.
 Cape Breton Co. (N. S.).—Gilpin, E., Jun., 2.
 Cape Colony (S. Africa).—Anderson, W.; Buttgenbach, H., 1 & 4; Collet, L. W., 2; Corstorphine, G. S.; Day, D. T.; Du Toit, A. L., 1 & 2; Hatch, F. H., 4; Miers, H. A.; Philippi, E., 6; Rogers, A. W., 1-4; Russell, A.; Schwarz, E. H. L., 1-5; Seeley, H. G., 1 & 3; Stephen, M. J.; Watermeyer, F. S.; Williams, G. F.; Wilman, (Miss) M.
 — — — Geological Commission.—Schwarz, E. H. L.

- Cape System, S. Africa.—Corstorphine, G. S.; Hatch, F. H., 4; Rogers, A. W., 4.
- Capreolus*.—Arnold-Bemrose, H. H.
- Capri, I. of (Italy).—Airaghi, C., 3; Angelis d'Ossat, G. de.
- Capsulina*.—Neviani, A., 3.
- Carabocrinus*.—Hudson, G. H.
- Caracoles (Chile).—Labastie, F.
- Caradoc Group, Merioneth.—Fearnside, W. G.
- Carax*.—Simionescu, I.
- Carbonates of magnesia, Santorin lavas.—Lacroix, A., 14.
- Carbonicola*.—Gibson, W., 2.
- Carboniferous, Algeria.—Thévenin, A.
- , Appalachian Basin.—Stevenson, J. J.
- , Arizona.—Reagan, A. B., 3 & 4.
- , Bohemia.—Schmidt, A., 2.
- , Boulonnais.—Barrois, C., 2; Cornet, J.
- , Brittany.—Bigot, A., 7.
- , Devon.—Jukes-Browne, A. J.
- , California.—Diller, J. S.
- , Clare, Co.—Hind, W., 2.
- , Corsica.—Deprat, J., 6.
- , Dublin, Co.—Matley, C. A.
- , faunas, N. America.—Girty, G. H.
- , Georgia.—Maccallie, S. W.
- , Hesse, Westphalia, &c.—Beyerschlag, F.
- , Iowa.—Beyer, S. W., 1 & 3.
- , Kansas.—Reagan, A. B., 4.
- , Lancashire.—Baldwin, W., 1 & 2; Bolton, H., 2; Dawkins, W. B., 3; Woodward, H., 4.
- , Laval Basin.—Ehler, D. P.
- , Lorraine.—Cavallier, C.; Laur, F., 1-3; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
- , Midlands.—Kidston, R.
- , Mississippi Valley.—Weller, S., 4.
- , Missouri.—Ball, S. H.
- , Newfoundland.—Howley, J. P.
- , New York.—Butts, C.; Gienn, L. C.; Grabau, A. W., 2.
- , Northumberland.—Goodchild, J. G., 5.
- , Ohio.—Prosser, C. S., 3.
- , Persia.—Douvillé, H., 7; Morgan, J. de, 2.
- , Peru.—Habich, E. A. V. de.
- , Rocky Mts.—Reagan, A. B., 2.
- , Sahara.—Haug, E.
- , Scotland.—Peach, B. N., 3; Thomson, J., 1 & 3.
- , Silesia.—Schmidt, C., 2.
- , Staffordshire.—Gibson, W., 1 & 2; Kidston, R.; Stobbs, J. T.; Ward, J.
- Carboniferous Limestone, Bristol.—Vaughan, A.
- , Derbyshire.—Crick, G. C., 2.
- , Galicia.—Guerrich, G.
- , Gower.—Gubbin, W. B.
- , Hainault.—Brien, V., 2; Delépine, —.
- , Pennsylvania.—Clapp, F. G.
- Carboniferous Limestone, Russia.—Stuckenber, A.
- , silica in.—Knight, N.
- , Somerset.—Sibly, T. F.
- , Staffordshire.—Gibson, W., 2.
- , volcanic rocks, Somerset.—Morgan, C. L.
- , zones.—Hind, W., 3.
- Carcharias*.—Clark, W. B.; Stromer, E., 4.
- Carcharodon*.—Pasquale, M.; Stromer, E., 3.
- Cardiaster*.—Wilckens, O.
- Cardita*.—Locard, A.
- Cardium*.—Clark, W. B.; Dainelli, G.; Etheridge, R., *fil.*, 3; Gregorio, A. de; Howorth, Sir H. H., 3; Krumbeck, L.; Lorient, P. de; Newton, R. B., 3; Richardson, L., 3.
- Carinthia (Austria).—Humphrey, W. A.; Redlich, K. A., 2.
- Carniola (Austria).—Hørnes, R.; Kossmat, F.; Mojsisovics, E. von; Mueller, A.
- Carnotite.—Adams, E. P.; Hillebrand, W. F., 4.
- Carolina, N. & S. (U.S.A.).—Emmons, S. F., 2; Fuller, M. L., 2-4.
- Carpathian Mts.—Friedberg, W.; Macgregor, (Miss) M.; Murgoci, G. M., 2-4; Nicolau, T., 2; Pálffy, M. von, 2; Simionescu, I., 3; Wisniowski, T.; Wójcik, K.
- , Danube gorge in the.—Sevastos, R.
- Carpinus*.—Palibin, I. V.
- Carpites*.—Stanton, T. W.
- Carpophæra*.—Squinabol, S., 3.
- Carrubare (Calabria).—Neviani, A., 1 & 3.
- Carterville (Ga.).—Watson, T. L., 3.
- Cascade Coalfield (Alberta).—Bell, R.
- Cassianella*.—Bœhm, J., 1 & 2.
- Cassidaria*.—Locard, A.
- Cassiterite.—Collins, J. H.; Coomaraswamy, A. K.; Day, D. T.; Schaller, W. T., 3.
- Castalia*.—Stanton, T. W.
- Castellammare (Bay of Naples).—Lorenzo, G. de, 3.
- Castell Venere (Istria).—Moser, L. K.
- Castelvenier (Istria).—Schubert, R. J., 5.
- Castiglioncello (Tuscany).—Ugolini, R., 3.
- Castle Cary (Somerset).—Woodward, H. B., 7.
- Castres (Tarn).—Stehlin, H. G., 3.
- Catagonus*.—Ameghino, F., 7.
- Catalogue of Scientific Literature.—See International.
- Catalonia (Spain).—Almera, J.; Neviani, A., 2; Sapper, K.; Sauvage, H. E., 2.
- Catopterus*.—Eastman, C. R., 2.
- Cattagat, the.—Howorth, Sir H. H., 2.
- Catullocevas*.—Buckman, S. S.
- Caucasus (Russia).—Goloobyatnikov, D. V.; Löwinson-Lessing, F., 2; Trevithick, J. H.; Valarovitch, P.; Wysogórski, J.; Yachevski, L., 3.

- Causea*.—Wiman, C., 2.
 Cautin, Prov. of (Chile).—Schneider, J.
 Cavan (N.S.W.).—Shearsby, A. J., 2.
 Caverns & caves, 1901-1905.—Martel,
 E. A., 7 & 8.
 —, California.—Furlong, E. L.; Sin-
 clair, W. J., 2.
 —, Cantal.—Lauby, A., 2.
 —, Clare, Co.—Scharff, R. F.
 —, Cork, Co.—Ussher, R. J.
 —, Côte-d'Or.—Martel, E. A.
 —, Crete.—Bate, (Miss) D. M. A.;
 Bullen, R. A.
 —, Cyprus.—Bate, (Miss) D. M. A., 2.
 —, Derbyshire.—Arnold-Bemrose, H.
 H.
 —, Dinant.—Rahir, E.
 —, Dordogne.—Capitan, L., 3 & 4.
 —, Düsseldorf.—Könen, K.
 —, French Jura.—Fournier, E., 3.
 —, Hautes-Alpes.—Martel, E. A., 6.
 —, influence on topography. —
 Russell, I. C., 4.
 —, Kesslerloch.—Meister, J.
 —, lion-bones in.—Boule, M., 3; Capi-
 tan, L., 4; see also *Machairodus*, &c.
 —, Mentone.—Boule, M., 7.
 —, Muotta Valley.—Rahir, E., 2.
 —, New Mexico.—Brady, F. W., 2.
 —, New South Wales.—Etheridge, R.,
fil., 4.
 —, Palermo.—Gregorio, A. de, 3.
 —, Put-in-Bay I. (Ohio).—Kraus, E.
 H.
 —, Pyrenees (French).—Martel, E. A.,
 9.
 —, Rochefort (Namur).—Martel, E. A.,
 3 & 4.
 —, Somerset.—Balch, H. E.
 —, Tarn.—Martel, E. A., 10.
 —, Venetia.—Issel, A., 4; Martel, E.
 A., 11; Squinabol, S., 2.
 —, Yonne.—Parat, A.
 —, Yorkshire.—Cuttriss, S. W.;
 Derryhouse, A. R., 1 & 2.
 Caversham (Oxon).—Monckton, H. W.,
 3.
 Cavities in crystalline rocks.—Baron, R.;
 Bonney T. G., 3; Ferrar, H. T.
Cedroxylon.—Fliche, P.
 Celestite.—Köchlin, R.; Kraus, E. H.,
 2; Samoilov, J.; Surgunov, N. E.
Cellarina.—Canu, F.; Clark, W. B.;
 Péron, A.
 Celsian.—Tacconi, E., 2.
 Cement-industries, United States.—Day,
 D. T.; Eckel, E. C.; Emmons, S. F., 2.
 — materials, Alabama.—Lea, S. H.
 —, Ohio.—Bleining, A. V.;
 Eno, F. H.
 'Cement-stone,' Jutland.—Bøggild, O.
 B.
Cenellipsis.—Squinabol, S., 3.
 Cenomanian, Bohemia.—Jahn, J. J.
 —, Silesia.—Wysogórski, J., 3.
Cenosphaera.—Squinabol, S., 3.
 Centrolite.—Lovisato, D.
Centrosaurus.—Lambe, L. M., 2.
 Cephalopoda, Carboniferous.—Crick, G.
 C., 2; Hind, W., 2; Stobbs, J. T.;
 Whiteaves, J. F.
 —, Cretaceous.—Choffat, P., 5; Crick,
 G. C.; Etheridge, R., *fil.*, 3; Morgan,
 J. de, 2; Pavlov, A. P.; Péron, A.;
 Prinz, G.; Richarz, P. S.; Smith, W.
 D.; Uhlig, V.
 —, Culm.—Kittel, E.
 —, Devonian.—Crick, G. C., 3.
 —, Jurassic.—Benecke, E. W.; Blake,
 J. F., 2; Buckman, S. S.; Dacqué, E.,
 2; Fucini, A.; Krumbeck, L.; Morgan,
 J. de, 2; Prinz, G., 2; Vettors, H.;
 Wunstorff, W.
 —, Permian.—Martelli, A.
 —, structure of Palæozoic.—Ruede-
 mann, R., 2.
 —, Tertiary.—Crick, G. C., 5.
 —, Triassic.—Bœhm, J., 1 & 3;
 Frech, F., 7; Martelli, A.; Nœtling,
 F., 2 & 4.
 —. See also Ammonites, &c.
Ceratites.—Airaghi, C., 2; Diener, C.,
 2; Martelli, A.
Ceratodus.—Fraas, E.
Ceratophyllum.—Kerner, F. von.
 Ceratopsia. See Dinosauria.
Cercomya.—Loriol, P. de.
Ceriopora.—Péron, A.
Cerithinella.—Bellini, R.; Blake, J. F.,
 2.
Cerithiopsis.—Clark, W. B.; Locard,
 A.
Cerithium.—Blake, J. F., 2; Choffat,
 P.; Deninger, K.; Gregorio, A. de;
 Locard, A.
Ceromya.—Krumbeck, L.
 Cerussite.—Hobbs, W. H., 3; Hubrecht,
 P. F.; Jecker, L.
Ceruus.—Arnold-Bemrose, H. H.;
 Dubois, E., 2 & 4; Nehring, A.
 Cesana (Piedmont).—Piolli, G.
 Cetacea, Tertiary.—Abel, O., 1-5; Papp,
 K. von, 2; Vigliarolo, G.
 Cetina (Dalmatia).—Kerner, K., 5.
Cetiosaurus.—Woodward, A. S., 5.
 Cetona, Monte (Tuscany).—Fucini, A.,
 1 & 2.
 Ceylon.—Brauns, R., 2; Coomáraswámy,
 A. K., 1-5; Dunstan, W. R., ¶1-5;
 Newton, R. B., 4.
 Chablais (Savoy).—Lugeon, M.
 Chacas (Peru).—Dueñas, E. I.
 Chad, Lake (Sudau).—Courtet, H., 1 &
 2; Foureau, F., 1 & 2; Hubert, H.
 Chalanga, see Khatanga.
 Chalcocite.—Lindgren, W., 3.
 Chalcopyrite, Rumania.—Nicolau, T.
 Chalk, Cromer.—Bonney, T. G., 4.
 —, Hainault.—Cornet, J., 3.
 —, jointing in the.—Epps, C. H. H.
 —, Kansas.—Stemberg, C. H.
 —, Kent.—Dibley, G. E., 2; Wood-
 ward, A. S., 3.
 —, Möens Klint.—Hintze, V., 2.
 —, *Mucronata*, microscopic vegeta-
 tion in.—Reinsch, P. F.

- Chalk, Nord.—Deblon, A.
 — pebbles, Aberdeenshire clay with white.—Gibb, A. W.
 —, phosphatic. — Cornet, J., 3;
 White, H. J. O.
 —, *Scaphites*-, Brunswick.—Wollemann, A.
 —, Speeton Cliffs.—Hobson, B.
 —, Surrey.—Young, G. W.
 —, Trimmingham.—Bonney, T. G., 7;
 Howorth, Sir H. H., 3; Woodward, B. B.
Chama.—Gregorio, A. de.
 Champlain, Lake (U.S.A.). — Hudson, G. H.; Raymond, P. E., 2.
 — Valley (U.S.A.). — Peet, C. E.; Upham, W., 3.
Chapmania.—Silvestri, A., 2.
 Chappaquiddick I. (Mass.).—Brown, T. C.
Chara.—Kerner, F. von, 2.
 Charnockite Series, Ceylon.—Coomaraswamy, A. K., 1 & 3.
 Charnwood Forest (Leicester).—Watts, W. W., 3.
 Chartres (Eure-et-Loir).—Dollfus, G. F., 3.
Chasmotherium.—Depéret, C.
 Châtillon-sur-Ain (Jura).—Loriol, P. de.
 Chatisgarh District (Central Provinces, India).—Evans, J. W., 6.
 Chazy Limestone.—Hudson, G. H.; Raymond, P. E., 2.
 Cheadle Coalfield (Staffs.).—Gibson, W., 2.
 Checras (Peru).—Habich, E. A. V. de.
Cheirurus.—Hudson, G. H.; Reed, F. R. C.
 Cheddar (Somerset).—Davis, H. M.
 Chelonia, Cretaceous.—Wieland, G. R., 1 & 2.
 —, Tertiary.—Abel, O., 3; Hooley, R. W.
 Chelsfield (Kent).—Larkby, J. R., 2.
 Chelydosauria.—Case, E. C.
 Chemakha (Daghestan). — Andrusov, N. E.
 Chemistry, geology &.—Van't Hoff, J. H.
 —, thermal terrestrial.—Thomsen, J.
 Chepstow (Monmouth).—Richardson, L., 9.
 Cherkus Mt. (Istria).—Manek, F.
 Chert, Istria.—Moser, L. K., 3.
 —, origin of.—Ball, S. H.
 —, Shantung.—Hinde, G. J.
 Chiaromonte, Gulf of (Sicily).—Checchia-Rispoli, G.
 Chichester (Sussex).—Elsden, J. V.
 Chihuahua (Mexico).—Hovey, E. O., 2.
 Chile (S. Am.).—Bonney, T. G., 6;
 Labastie, F.; Loram, S. H., 1-4;
 Lucio, F. de; Schneider, J.; Sundt, J.; Yunge, G.
 Chillagoe (Queensl.).—Smith, G.
 Chiltern Hills (Oxon.).—Woodward, H. B., 9.
 Chilworth (Surrey).—Herries, R. S.
 China (Asia).—Beelich, H.; Hinde, G. J.; Shockley, W. H.; Woodward, H., 2.
 Chiquilistlán (Mex.).—Villarello, J. D.
 Chivasso Hill (Turin).—Bellini, R., 2.
Chlamys.—Dainelli, G.
 Chloritic schist, Gross-Venediger massif. —Weinschenk, E., 2.
Choffatella.—Schlumberger, C., 2.
 Chogo-Lungma glacier (Kashmir). — Workman, W. H.
 Chokier (Liège).—René d'Andrimont, 3.
Chonavis.—Stuckenbergh, A.
Chonetes.—Chapman, F.; Dun, W. S.; Stobbs, J. T.; Vaughan, A.
Chorisastrea.—Koby, F.
 Chorlton-on-Medlock (Lancs.). — Dawkins, W. B., 3.
 Chorolque (Bolivia).—Roberts, M.
 Christiania (Norway).—Reusch, H., 2.
 Chromite, Bosnia.—Baumgärtel, B.
 Chrysoberyl.—Evans, N. N.
 Chrysocolla.—Lindgren, W., 3.
Chrysoeyon.—Ameghino, F., 4.
Chrysodomus.—Clark, W. B.; Deninger, K.
Chrysophrys.—Bassini, F., 3.
 Chuniespoort (Transvaal). — Kynaston, H., 6.
Cidaris.—Bøhm, J.; Remeš, M.
 Cinglais, Pays de (Calvados).—Bigot, A., 3.
Cinulia.—Wilckens, O.
 Cibly (Hainault).—Cornet, J., 3.
 Cirques, formation of.—Howorth, Sir H. H.
 Cirripedia, Tertiary.—Tièche, M.
 Cisa Pass, Apennines.—Bellini, R., 3.
 Città della Pieve (Umbria).—Verri, A.
 Clachland Point (Arran).—Thomson, J., 2.
Cladodelphys.—Ameghino, F., 7.
Cladodus.—Traquair, R. H.
Cladophlebis.—Yokoyama, M.
Cladosictis.—Sinclair, W. J., 3.
 Clan William (Cape Colony).—Rogers, A. W., 2 & 3.
 Clansayes (Drôme).—Jacob, C., 2.
 Clapham (Beds.).—Woodward, H. B., 6.
 Clapham (Yorks.).—Dwerryhouse, A. R.
 Clarbeston (Pembroke).—Thomas, H. H., 2.
 Clare, Co. (Ireland). — Hind, W., 2;
 Scharff, R. F.
 CLARK, E. *Obit.*—See Green, B. R.
Clavulina.—Wójcik, K.
 Clay-industries, United States.—Day, D. T.
 — ironstones. See Ironstones.
 — slates, Antarctic.—Nordenskjöld, O.
 Clay-with-flints, Surrey.—Young, G. W.
 Clays, Ceylon.—Coomaraswamy, A. K., 2.
 —, Cotteswold Hills.—Callaway, C., 2.
 —, Dakota (N.).—Berkey, C. P.
 —, English Tertiary.—Fisher, O., 2.

- Clays, France.—Merle, A.; Vogt, J. H. L., 3.
 —, fusibility of.—Ries, H., 3 & 4.
 —, Heppenheim.—Steuer, A.
 —, Indiana.—Blatchley, W. S., 3.
 —, Iowa.—Beyer, S. W., 1-3; Weems, J. B.
 —, Liassic.—Woodward, H. B., 7.
 —, Meissen.—Seemann, —.
 —, Missouri.—Wheeler, H. A.
 —, New Jersey.—Ries, H., 4 & 6.
 —, New York.—Sarle, C. J., 2.
 —, Ohio.—Bleiminger, A. V.
 —, Tuscany.—Ristori, G.
 —, Wyoming baked.—Bastin, E. S.
 —, United States literature on.—Emmons, S. F., 2.
 Cleavage, slaty.—Fisher, O., 5; Harker, A., 3; Leith, C. K.
 Clee Hill (Salop).—Herries, R. S., 2.
 CLEEVE, P. T. *Obit.*—See Anon., 3.
Cleiocrinus.—Springer, F.
Clenia.—Ameghino, F., 7.
 Clermont (Oise).—Capitan, L., 2.
 Cleveland ironstone, brookite in.—Lindsey, C. R.
Clidophorus.—Raymond, P. E., 2.
 Cliffs, sea.—Issel, A., 2.
 Cliffwood Point & Cliffwood Clays, New Jersey.—Weller, S., 1 & 2.
 Clifton (Ariz.).—Lindgren, W., 2 & 3.
 Climate, earth-deformation &.—Penck, A., 2.
 Climates, arid.—Davis, W. M., 2.
 Climatic changes, Baltic.—Howorth, Sir H. H., 3.
Climacograptus.—Hall, T. S., 4.
Climactichnites.—Woodworth, J. B.
Ctionites.—Bohm, J.
Clionychia.—Raymond, P. E., 2.
Clisiophyllum.—Stuckenbergh, A.; Vaughan, A.
Cloughtonia & *Clydoniceras*.—Blake, J. F., 2.
Clymenia-beds, Morvan.—Lévy, Alb. M.
 Coal, Alaska.—Brooks, A. H., 1 & 2; Martin, G. C.
 —, Alberta.—Bell, R.
 —, Argentina.—Rowbotham, J. McK.
 —, Balkan Cretaceous.—Douvillé, H., 6; Launay, L. de; Zeiller, R.
 —, bituminous.—Halberstadt, B.
 —, Bohemia.—Hofer, H., 2.
 —, Borneo.—Huxham, B. H.; Roden, J.; Scrivenor, J. B., 3.
 —, British Columbia.—Ashworth, J., 2; Bell, R.; Macbride, R.
 —, Canada (E. & W.).—Anon., 20.
 —, Cape Colony.—Anderson, W.; Du Toit, A. L.
 —, Chile.—Lucio, F. de; Schneider, J.; Yunge, G.
 —, China.—Shockley, W. H.
 —, Commission, 1901-1905.—Greenwell, A.
 —, Cumberland.—Brown, M. W., &c.
 —, Dover.—Dawkins, W. B.; Thompson, R. R.
 Coal, Færøe Is.—Dodd, R.
 —, Georgia.—Macallie, S. W.
 —, Great Britain, &c.—Home Office, 4.
 —, Guam I.—Safford, W. E.
 —, India.—Holland, T. H., 2; Pickering, W. H.; Rudra, S. C.
 —, Indiana.—Epperson, J.
 —, Iowa.—Beyer, S. W., 1 & 3.
 —, Kansas.—Kneer, E. B.
 —, Limburg (Dutch).—Dewalque, G.
 —, Lorraine.—Cavallier, C.; Laur, F., 1-3; Lucke, O.; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
 —, Maryland.—Rutledge, J. J.
 —, Mexico.—Barriga, M. D.
 —, mining, annals of.—Galloway, R. L.
 —, Missouri.—Ball, S. H.
 —, Münster Basin.—Schulz-Brisen, B.
 —, New South Wales.—Parton, J.; Pittman, E. F.
 —, New Zealand.—Hayes, J.; Macgowan, J., 1 & 2; Park, J., 4.
 —, Nova Scotia.—Gilpin, E., Jun., 1 & 3.
 —, origin of.—Hoffmann, J. F.
 —, Perak.—Scrivenor, J. B., 4.
 —, Peru.—Dueñas, E. I.; Habich, E. A. V. de; Santolalla, F. M., 1-3.
 —, Queensland.—Cameron, W. E.; Dunstan, B.; Syson, R. C.
 —, Silesia.—Geisenheimer, P.; Michel, R., 2.
 —, Spitsbergen.—Stevenson, J. J., 2 & 3.
 —, Sweden.—Sundberg, G.; Wilkin-son, W. F.
 —, Tasmania.—Twelvetrees, W. H., 1, 3 & 6-8.
 —, Tomsk & Yenisei Govs.—Fritz, W.
 —, Transvaal.—Swinburne, W. P., 1-3; Weldon, H.; Whitehead, J. J.
 —, United States production, &c.—Day, D. T.; Emmons, S. F., 2.
 —, Virginia (W.).—Payne, H. M.
 —, Western Australia.—Simpson, E. S.
 —. See also Brown Coal, &c.
 Coalfields, Aix-la-Chapelle.—Forir, H.
 —, Alberta.—Bell, R.; Jacobs, E.
 —, Bengal.—Stonier, G. A., 2.
 —, British Columbia.—Ashworth, J.; Bell, R.
 —, Cape Colony.—Russell, A.
 —, Durham.—Stobbs, J. T., 2.
 —, Fife.—Anon., 29; Wilson, J. S. G.
 —, Lancashire.—Gerrard, J.
 —, Liège.—Lohest, M.; Stainier, X.
 —, Lorraine.—Cavallier, C.; Laur, F., 1-3; Lucke, O.; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
 —, Missouri.—Bush, B. F.
 —, Pennsylvania.—Halberstadt, B.; Stevenson, J. J.
 —, Saxony.—Hausse, R.; Kliver, —; Seebohm, —.
 —, Scotland.—Simmersbach, B., 4.

- Coalfields, Silesia.—Geisenheimer, P.; Michel, R., 2.
- , Staffordshire, &c.—Gibson, W., 1 & 2; Kidston, R.; Stobbs, J. T., 1 & 3.
- , Texas.—Ries, H., 5.
- , Wales (S.).—Strahar, A., 2-4.
- , Westphalia, &c.—Krusch, —; Mueller, G., 2.
- , Yorkshire.—Middleton, F. E.
- Coal-Measures. *See* Carboniferous.
- Coast-changes, Elbe estuary.—Hansen, R.
- erosion, England & Wales.—Carey, A. E.; Matthews, E. R.; Spiller, J.; Wilson-Barker, D.
- —, Médoc.—Degrange-Touzain, A.
- —, Portugal.—Choffat, P., 3 & 6.
- ledges, Cape Colony.—Schwarz, E. H. L., 2.
- Ranges, California.—Anderson, F. M.
- Cobalt, Hungary.—Gesell, A.
- , Ontario.—Bell, R.
- , Saxon Erzgebirge.—Beck, R.
- Cobleskill Limestone, New York.—Hartnagel, C. A.
- Coccoliths.—Fuchs, F., 5.
- Cochleosaurus*.—Broili, F., 2.
- Cochliodontidæ, Carboniferous.—Bran-son, E. B.
- Cock of Arran. *See* Arran.
- Codaster*.—Rowley, R. R.
- Codonospermum*.—Grand'Eury, F. C., 3.
- Codornella*.—Rau, K.
- Celestine. *See* Celestite.
- Cœlodus*.—Choffat, P.
- COHEN, E. *Obit.*—*See* Deecke, W., 4.
- Colchester (Essex).—Davison, C., 5.
- COLLINS, A. L. *Obit.*—*See* Lawrence, B. B.
- Colne (Lancs.).—Bolton, H., 2; Woodward, H., 4.
- Colobodus*.—Gorjanovič-Kranberger, K.
- Colombia (S.A.).—Felix, J., 2.
- Colorado (U.S.A.).—Capps, S. R.; Collins, G. E.; Darton, N. H.; Emmons, S. F., 2; Hillebrand, W. F., 4; Lakes, A., 3; Lindgren, W., 4; Ritter, E. A.; Westgate, L. G.; Williston, S. W., 2.
- Coltura (Venetia).—Taramelli, T., 2.
- Columbella*.—Clark, W. B.
- Columbia, District of (U.S.A.).—Fuller, M. L., 2-4; Piper, C. V.
- Columbite.—Headden, W. P., 2.
- Colville, Cape (Auckland).—Sollas, W. J., 2.
- Combe, Mt. (Congo Free State).—Preumont, G. F. J.
- Cominella*.—Wilckens, O.
- Como (Lombardy).—Wilmer, F.
- Comoseris*.—Koby, F.
- Comptonia*.—Spencer, W. K.
- Comstock Lode (Nev.).—Maguire, —; Reid, J. A.
- Concretions, *Bi'obites*-like.—Deecke, W., 2.
- Concretions, cement & coal.—Smith, J., 2-4.
- , origin of.—Miers, H. A., 2.
- , phosphatic.—Collet, L. W., 2.
- , quartz.—Meunier, S.
- , *See also* Orbicular.
- Condesuyos (Peru).—Alvarado, L. U.
- Condonga (Minas Geraes).—Hussak, E.
- Condor, Bolivian fossil.—Lœnnberg, E.
- Condroz massif (Namur).—Destinez, P., 2.
- Conero, Mte. (Italy).—Cassetti, M., 3.
- Cones, alluvial.—Purdue, A. H.
- , *See also* Alluvial, Volcanic, &c.
- Confusastrea*.—Koby, F.
- Conglomerates, Alpes-Maritimes Tertiary.—Dollfus, G. F.
- , Gippssland serpentine.—Thiele, E. O.
- , La Malle Valley Tertiary.—Guébbard, A., 6.
- , Rhodesian auriferous.—Mennell, F. P., 3 & 4.
- , Var Delta.—Guébbard, A., 5.
- , Witwatersrand.—Hatch, F. H., 2 & 4.
- , *See also* Dwyka, &c.
- Congo Basin (Africa).—Cornet, J., 4; Delisle, F.
- Congo Free State (Africa).—Buttgenbach, H., 2, 3 & 5; Preumont, G. F. J.
- Conifers, Jurassic.—Fliche, P., 3.
- Connectastrea*.—Koby, F.
- Conocardium*.—Raymond, P. E., 2.
- Conodonts, Silurian.—Wiman, C., 2.
- Conon Basin (Ross).—Murray, Sir J., 2; Peach, B. N.
- Conoplain, Ortiz Mts.—Ogilvie, I. H., 2.
- Consolino di Stilo, Mte. (Calabria).—Bassani, F., 8.
- Contact-metamorphism.—Credner, H.; Eisele, H.; Erdmannsdorffer, O. H.; Ermisch, K., 2; Fedorov, E. von, 2; Hussak, E.; Knopf, A.; Pelikan, A.; Turner, H. W.; Van Hise, C. R.; Weinschenk, E., 2.
- Contact-zones, growth of crystals in.—Cole, G. A. J.
- Continental platforms, submerged.—Nansen, F.; Spencer, J. W., 2.
- Conularia*.—Raymond, P. E., 2; Wiman, C., 3.
- Conus*.—Gregorio, A. de; Locard, A.
- Converse Co. (Wy.).—Hatcher, J. B.
- Convexastrea*.—Koby, F.
- Coolgardie (N.) (W. Austral.).—Jackson, C. F. V.
- Copper, Africa (S.W.).—Voit, F. W.
- , Alaska.—Brooks, A. H.
- , Altai.—Spring, R., 2.
- , Argentina.—Rowbotham, J. McK.
- , Arizona.—Graichen, W.; Jennings, E. P.; Lindgren, W., 2 & 3; Ransome, F. L.
- , Berhaven.—Blenkinsop, G. H.
- , Bolivia.—Bradley, D. H., Jun.
- , Canada.—Bell, R.
- , Chile.—Yunge, G.

- Copper, Congo Free State.—Buttgenbach, H., 2.
 —, Cuba.—Souder, H.
 —, Elizabetopol.—Køeller, G.
 —, garnet associated with.—Smith, G.
 —, Great Britain.—Home Office, 4.
 —, Hungary.—Illés, W.; Mauritz, B.
 —, Lake-Superior district.—Lane, A. C., 2.
 —, New South Wales.—Pittman, E. F.
 —, Peru.—Loroza, E.; Masias, M. G., 2; Santolalla, F. M., 2.
 —, Queensland.—Smith, G.
 —, Sardinia.—Lovisato, D.
 —, Sonora (Mex.).—Blake, W. P., 3.
 —, South Australia.—Gascuel, L.; Gee, L. C. E.
 —, Styria.—Redlich, K. A.
 —, Sweden.—Sundbærg, G.
 —, Tasmania.—Gregory, J. W.
 —, Tuscany.—Ermisch, K., 2.
 —, Tyrol.—Rose, —.
 —, United States, production, &c.—Day, D. T.; Emmons, S. F., 2.
 —, Utah.—Boutwell, J. M.
 —, Western Australia.—Simpson, E. S.
 —, Wicklow, Co.—Davies, E. H.
 Copper-pyrites, Rumania.—Nicolau, T.
Coprosmeophyllum.—Deane, H.
Coptosoma.—Loriol, P. de, 2.
 Cor (Donegal).—Cole, G. A. J.
 Coral-reefs, Indian Ocean.—Fuchs, T., 4.
 —, Pacific.—Agassiz, A.; Safford, W. E.
 Corallites, coral - genera &. — Angelis d'Ossat, G. de, 3.
 Corals, Carboniferous. — Stuckenbergh, A.; Thomson, J., 1 & 3; Vaughan, A.
 —, Cretaceous.—Angelis d'Ossat, G. de; Dacqué, E.; Péron, A.; Vaughan, T. W.
 —, Devonian.—Etheridge, R., *fil.*; Thomas, I.
 —, Jurassic.—Benecke, E. W.; Koby, F.; Gregorio, A. de, 2; Missuna, A.; Vaughan, T. W.
 —, Permo-Carboniferous.—Morgan, J. de, 2.
 —, Silurian. — Etheridge, R., *fil.*; Shearsby, A. J.; Želízko, J. V.
 —, Tertiary.—Clark, W. B.; Dainelli, G.; Dennant, J.; Felix, J., 2; Newton, R. B., 6.
 Corbières (Languedoc).—Mengel, O.
Corbis.—Morgan, J. de, 2.
Corbula.—Loriol, P. de; Morgan, J. de, 2; Wilckens, O.
 Corchiano (Rome).—Meli, R.
Cordaites, seeds of.—Grand' Eury, F. C., 2.
 Cordierite.—Tacconi, E., 2.
 Cordieritic rocks, Rican.—Pelikan, A.
 Cordovaro (Venetia).—Taramelli, T.
Cordylocrinus.—Talbot, M.
 Cork City & Harbour.—Lamplugh, G. W., 5.
 Cork, Co. (Ireland).—Blenkinsop, G. H.; Muff, H. B.; Ussher, R. J.; Wright, W. B.
 Cornbrash fauna.—Blake, J. F., 2.
 Cornish minerals.—Rudler, F. W., 3.
 Cornwall.—Bather, F. A., 2; Busz, K.; Collins, J. H., 2; Crick, G. C., 3; Davison, C., 2; Fawns, S., 2; Flett, J. S.; Fox, H., 1 & 2; Home Office, 4; Latham, F.; Macalister, D. A.; Stephens, F. J.; Ussher, W. A. E., 2; Woodward, H.
Corocalyptra.—Squinabol, S., 3.
 Coronadite.—Lindgren, W., 3.
 Corsica. I. of.—Deprat, J., 5 & 6; Tornquist, A., 3.
 Cortina District (Tyrol).—Skeats, E. W.
 Corundum, Ceylon.—Coomáráswamy, A. K., 3 & 4; Dunstan, W. R., 5.
 —, India.—Holland, T. H., 2.
 —, Ontario.—Bell, R.
 —, Perak.—Evans, J. W., 3.
 —, United States, &c.—Day, D. T.
Corylus.—Palibin, I. V.
 Cosasca (Piedmont).—Lincio, G.
 Cosenza (Calabria).—Crema, C.
 Cosmogony.—Wetherell, E. W.
 COSSA (A.) Collection.—Sacco, F., 7.
 Costigan Coalfield (Alberta).—Bell, R.
 Côte-d'Or (France).—Martel, E. A., 5.
 Côte-St. André (Isère).—Hitzel, —, 2.
 Côtes-du-Nord (France).—Brun, P. de.
 Cotham Marble, Bristol.—Short, A. R., 2.
 Cotteswold Hills (Gloucester).—Callaway, C., 2; Salter, A. E.; Upton, C.
Cottus.—Leriche, M., 2; Lænnberg, E., 2.
 Covehithe (Suffolk).—Spiller, J.
 Cowbridge (Glamorgan).—Richardson, L., 3.
 Cow-Meadow gravel-pit, Northampton.—Thompson, B.
 Coxwell, Little (Berks).—Wright, J.
 Crag, Suffolk.—Fisher, O., 3.
 Craggie, Loch (Ross).—Murray, Sir J., 3.
Crania.—Bæhm, J.; Reed, F. R. C.
Craspedites.—Kœnen, A. von.
Crassatella.—Dainelli, G.
 Craveggia (Piedmont).—Lincio, G.
 Crayford (Kent).—Leach, A. L.
 Creep-folding in valleys.—Howe, J. A.
Crenella.—Clark, W. B.
 Cretaceous, Africa (S.).—Hatch, F. H., 4.
 —, Algeria.—Gentil, L., 2; Savornin, J.
 —, Alpes-Maritimes.—Guébard, A., 1-3.
 —, Angola.—Choffat, P., 5.
 —, Balkan Mts.—Launay, L. de.
 —, Berkshire.—Wright, J.
 —, Bohemia.—Jahn, J. J.; Petrascheck, W., 2, 3, & 4; Schmidt, A., 2.
 —, Brunswick.—Wollemann, A.

- Cretaceous, Brussels.—Rutot, A., 5.
 —, Bukowina.—Vetters, H., 2.
 —, Cambridgeshire.—Lamplugh, G. W., 3.
 —, Camerouns.—Grossouvre, A. de, 4.
 —, Cape Colony.—Rogers, A. W., 4.
 —, Capri.—Airaghi, C., 3; Angelis d'Ossat, G. de.
 —, Daghestan.—Wysogórski, J.
 —, Dalmatia.—Kerner, F. von.
 —, Drôme.—Jacob, C., 2.
 —, Egypt.—Beadnell, H. J. L.
 —, Galicia.—Wisniowski, T.
 —, Greece.—Négris, P., 2.
 —, Harz.—Philippi, E., 5.
 —, Heligoland.—Køeneu, A. von.
 — invertebrate types, Philadelphia Acad. Nat. Sci. Collection.—Johnson, C. W.
 —, Isère.—Jacob, C.; Pâquier, V.
 —, Kansas.—Sternberg, C. H.; Wieland, G. R.
 —, Languedoc.—Sayn, G.
 —, Leysin, Upper Red.—Douvillé, H., 8; Renevier, L.; Rössinger, E.
 —, Limburg (Dutch).—Uhlenbroek, G. D.
 —, Marches (Italy).—Cassetti, M., 3.
 —, Molise.—Fittipaldi, E. U.
 —, Montana.—Stanton, T. W.
 —, New Jersey.—Prather, J. K.; Ries, H., 6; Rutot, A., 5 & 6; Weller, S., 1 & 2.
 —, Oise.—Meunier, S.
 —, Oppeln.—Flegel, K., 2.
 —, Oregon.—Louderback, G. D.
 —, Patagonia.—Wilckens, O., 1 & 3.
 —, Persia.—Douvillé, H., 7; Morgan, J. de, 2.
 —, Peru.—Masias, M. G., 2.
 —, Portugal.—Choffat, P., 1 & 4.
 —, Pyrenees.—Roussel, J.
 —, Revigliano I.—Lorenzo, G. de, 3.
 —, Rome.—Dainelli, G., 2.
 —, Russia.—Pavlov, A. P.
 —, Sahara, &c.—Lapparent, A. de, 2.
 —, Sardinia.—Torquist, A., 3.
 —, Saxony.—Deninger, K.; Petrascheck, W.
 —, Silesia.—Schmidt, C., 2; Sturm, F.; Wysogórski, J., 3; *see also* Geological Society, German.
 —, Somaliland.—Dacqué, E.
 —, Tunis.—Gauthier, V., 2; Péron, A.; Thomas, P.
 —, Venetia.—Squinabol, S., 3.
 —, Westphalia.—Meyer, E.
 —, Wyoming.—Merriam, J. C., 4.
 —, Zululand.—Etheridge, R., *fil.*, 3.
 —. *See also* Neocomian, &c.
 Crete.—Bate, (Miss) D. M. A.; Bullen, R. A.
 Crimea (Russia).—Missuna, A.
 Crinoidea, Carboniferous.—Lankester, E. R.; Rowley, R. R.; Whitfield, R. P., 2.
 —, Cretaceous.—Hucke, W.; Jäkel, O., 2.
 Crinoidea, Devonian.—Loomis, F. B.; Schuchert, C.
 —, Jurassic.—Benecke, E. W.; Lankester, E. R.; Remeš, M.
 —, Silurian.—Hudson, G. H.; Springer, F.; Talbot, M.
 Cripple Creek (Colo.).—Lindgren, W., 4; Ritter, E. A.
Cristellaria.—Brueckmann, R.; Hucke, W.; Wójcik, K.
 Cristobalite.—Gaubert, P., 2.
 Croatia.—Waagen, L., 3.
 Croce, Pania della (Apuan Alps).—Rovereto, G.; Zaccagno, D., 2.
 Crocidolite.—Molengraaff, G. A. F., 2.
Crocodylus.—Andrews, C. W.
 Cromarty Firth (Scotland).—Murray, Sir J., 2; Peach, B. N.
 Cromer (Norfolk).—Bonney, T. G., 4; Harmer, F. W.
 Cromer Forest-Bed, Dutch & Belgian equivalent of.—Dubois, E., 1 & 4.
 Cross Fell (Cumberland).—Lewis, F. J.
Crossothea.—Kidston, R., 3.
 Crow's-Nest Coalfield (B.C.).—Ashworth, —.
 Crozon (Britanny).—Bigot, A.
Cruvatula.—Galdieri, A., 2.
 Crustacea, Carboniferous.—Woodward, H., 4 & 5.
 —, Cretaceous.—Weller, S.; Wilckens, O.
 —, Devonian.—Loomis, F. B.
 —, Silurian.—Lankester, E. R.; Sarle, C. J.
 —, Tertiary.—Hall, T. S., 2; Tièche, M.; Woodward, H., 3.
Cruziana.—Wiman, C., 2.
 Cryolite, Greenland.—Day, D. T.
Cryptaulax.—Blake, J. F., 2.
Cryptocenia.—Koby, F.
Cryptograptus.—Hall, T. S., 4.
Cryptoplax.—Hall, T. S., 3.
 Crystalline rocks, Ecuador.—Wolff, F. von.
 —, natural perforations in.—Baron, R.; Bonney, T. G., 3; Ferrar, H. T.
 Crystallization, concretions due to.—Miers, H. A., 2.
 Crystallographic projections.—Becke, F., 3; Fedorov, E. von; Hilton, H., 2 & 3; Penfield, S. L.
 Crystallography.—Fedorov, E. von, 1-5; Hilton, H., 1-4; Lippitsch, K.
 Crystal-clusters, gneiss with.—Lincio, G., 3.
 Crystals, axes of.—Becke, F., 4; Luczizki, W.
 —, deformation by pressure.—Lœwinson-Lessing, F., 3.
 —, gold.—Schwarz, E. H. L., 4.
 —, growth in contact-zones.—Cole, G. A. J.
 —, interference-figures of.—Becke, F., 3; Grattarola, G.
 —, linear force of growing.—Becker, G. F., 4.

- Crystals, skiodromes of.—Becke, F., 3 ; Fedorov, E. von.
- , structure of.—Fedorov, E. von, 4 ; Nold, A. ; Sommerfeldt, E. ; Viola, C.
- , symmetry of.—Fedorov, E. von, 3 ; Friedel, G., 2 ; Hilton, H., 4 ; Marshall, H. ; Stevanovič, S., 2.
- , twinning of.—Friedel, G. ; Osthoff, A.
- , See also Minerals, §c.
- Csaklya (Transylvania).—Roth von Telegd, L.
- Csepel I. (Hungary).—Gull, W.
- Ctenodonta*.—Raymond, P. E., 2 ; Reed, F. R. C. ; Stobbs, J. T.
- Cuba (W. I.).—Day, D. T. ; Souder, H.
- Cucullæa*.—Bœhm, J. ; Wilckens, O.
- CULLINAN diamond.—Hatch, F. H., 3.
- Culm, Devon.—Arber, E. A. N., 2, 5, & 6 ; Hamling, J. G. ; Jukes-Browne, A. J.
- , Flechtingen.—Wieggers, F.
- , Gothland.—Sjögren, H., 4.
- , Hesse, Westphalia, &c.—Bey-schlag, F.
- , Moravia.—Suess, F. E.
- Cumberland.—Brown, M. W. ; Dodds, R., 2 ; Lewis, F. J.
- Cumnor (Berks).—Walker, H.
- Cuneocythere*.—Lienenklaus, E.
- Cunninghamites*.—Stanton, T. W. ; Zeiler, R.
- Cupar (Fife).—Joly, J.
- Cupularia*.—Canu, F.
- Cursipes*.—Matthew, G. F., 2.
- Cuxton (Kent).—Woodward, A. S., 3.
- Cyathocrinus*.—Rowley, R. R.
- Cyathophora*.—Koly, F.
- Cyathophyllum*.—Vaughan, A.
- Cycadeoidea*.—Fliche, P., 3.
- Cycadofilices, Carboniferous.—White, D.
- Cyclammia*.—Chapman, F., 2 ; Schubert, R. J., 3 ; Silvestri, A.
- Cycloctypus*.—Chapman, F., 3.
- Cyclocypris*.—Lienenklaus, E. ; Sieber, —.
- Cyclonema*.—Raymond, P. E., 2.
- Cyclophyllum*.—Stuckenberg, A.
- Cyclopsina*.—Schlumberger, C.
- Cyclostoma*.—Menzel, H., 2.
- Cyclus*.—Woodward, H., 5.
- Cylichna*.—Clark, W. B. ; Etheridge, *fil.*, 3.
- 'Cylinders' volcanic rock.—Klemm, G., 2.
- Cylindrites*.—Blake, J. F., 2.
- Cymbospondylus*.—Merriam, J. C., 2.
- Cyperites*.—Kerner, F. von.
- Cypress Hills (Assiniboia).—Lambe, L. M., 4 & 5.
- Cypria*, *Cypridopsis*, & *Cypris*.—Lienenklaus, E. ; Sieber, —.
- Cyprus.—Bate, (Miss) D. M. A., 2 ; Bellamy, C. V., 2 ; Duke, J. C.
- Cyrtoceras*.—Crick, G. C., 2.
- Cyrtina*.—Dun, W. S.
- Cyrtodonta*.—Hudson, G. H. ; Raymond, P. E., 2 ; Reed, F. R. C.
- Cyrtolite.—Hidden, W. E.
- Cyrtopora*.—Cann, F.
- Cyrtostropha*.—Donald, (Miss) J., 2.
- Cystoidea, Devon-Silurian.—Schuchert, C.
- , Silurian.—Hudson, G. H. ; Jækel, O., 3.
- Cythere*.—Clark, W. B.
- Cytherea*.—Etheridge, *R. fil.*, 3 ; Locard, A. ; Morgan, J. de, 2 ; Wilckens, O.
- Cythereis* & *Cytheridea*.—Clark, W. B. ; Lienenklaus, E.
- Cytherideis*.—Clark, W. B.
- Cytheropteron*.—Clark, W. B. ; Lienenklaus, E.
- Cytherura*.—Lienenklaus, E.
- Czaruy dil-Gebirge (Bukowina).—Vetters, H., 2.
- Dacite, Murcia.—Pitz, R.
- , New Zealand.—Sollas, W. J., 2.
- Daetyliosphaera*.—Squinabol, S., 3.
- Daghestan (Caucasia).—Terpigorev, A., 2 ; Wysogórski, J. ; Yachevski, L., 3.
- Dahomey (W. Africa).—Bœhm, J., 4.
- Daimh, Loch an (Ross).—Murray, Sir J., 3.
- Dakota, N. (U. S. A.).—Berkey, C. P. ; Wilder, F. A.
- Dakota, S. (U.S.A.).—Darton, N. H. ; Lull, R. S., 3 ; Matthew, W. D., 4 ; Reagan, A. B., 5.
- Dalles, St. Croix.—Chamberlin, R. T.
- Dalmanites*.—Hitchcock, C. H. ; Thomas, J.
- Dalmatia.—Bukowski, G. von ; Dainelli, G. ; Kerner, F. von, 1-5 ; Mojsisovics, E. von ; Schubert, R. J., 1, 4-7, & 9 ; Stefani, C. de ; Waagen, L., 2.
- Damsonium*.—Kerner, F. von, 2.
- Dammara*.—Stanton, T. W.
- Dammarrites*.—Zeiller, R.
- DAMOUR, A., *Obit.*—See Lacroix, A., 9.
- Danakili-land (N.E. Africa).—Arsan-daux, H., 1-3.
- Danburite.—Kœnigsberger, J.
- Dannemora (Svealand).—Wilkinson, W. F.
- Danube R.—Kranz, W. ; Sevastos, R.
- Dapedius*.—Gorjanovič-Kramberger, K.
- Darent, R. (Kent).—Salter, A. E.
- Darmstadt (Hesse).—Klemm, G., 4.
- Dartmoor (Devon).—Evans, H. M. ; Prowse, A. B.
- Dassel (Hildesheim).—Beyschlag, F.
- Datchworth (Herts).—Salter, A. E., 2.
- Datheosaurus*.—Schroeder, H.
- Dauba (Bohemia).—Graber, H. V., 2.
- DAUBRÉE, A. *Obit.*—See Berthelot, A.
- Dauphiné (France).—Camous, — ; Dep-prat, J. ; Favre, J. N. ; Girardin, P. ; Jacob, C. 1 & 2 ; Kilian, W. ; Lory, P., 1-3 ; Mougrin, P. ; Whympier, E.
- , See also Isère, §c.
- Davas (Asia Minor).—Bukowski, G. von, 3.

- Dawson (Queensl.).—Cameron, W. E.
Dawsonites.—Bøhm, J., 1 & 3.
 Daylesford (Victoria).—Hart, T. S.
 Dearne Valley (Yorks).—Carter, W. L., 3.
 Decalcification, flints &.—Mennier, S., 5.
 Deep-sea deposits.—Anon., 30; Bruce, W. S.; Klotz, O.
 — fauna.—Fuchs, T., 4 & 7.
 DEFRA^NCE collection, Caen Museum.—Bigot, A., 6.
 Degow (Pomerania).—Hucke, K.
 Dehydration. *See* Phosphates, &c.
 Delaware (U.S.A.).—Fuller, M. L., 2-4.
 Delaware Limestone, Ohio.—Prosser, C. S., 2.
 Délémont (Berne).—Rollier, L., 2.
 Delphinidae, Miocene.—Abel, O., 4.
Delphinornis.—Wiman, C., 4.
Delphinula.—Gregorio, A. de; Krumbeck, L.
 Deltas.—Geinitz, E., 3.
Deltocyathus.—Dennant, J.
Deltodus.—Branson, E. B.
 Deluges, geology &.—Sollas, W. J.
Dendrogyra.—Angelis d'Ossat, G. de.
Dendrohelia.—Koby, F.
 Denholes, Grays (Essex).—Biddell, E.
 Denmark.—Bøggild, O. B.; Grønwall, K. A., 2 & 3; Harz, N., 3; Hintze, V., 2; Madsen, V., 1 & 2; Nørregaard, E. M., 1 & 2; Nordmann, V.
 —, lakes of.—Wesenberg-Lund, C.
Dentalium.—Bather, F. A.; Martelli, A.; Wilckens, O.
Dentex.—Bassani, F., 3.
Denticopsis.—Fritsch, A., 2.
 Denudation, South Africa.—Tottenham, R. G. L.
 Derbyshire.—Crick, G. C., 2; Davison, C., 4; Hind, W.; Strangways, C. F., 2.
Dermoseris & *Dermosmitia*.—Koby, F.
 Desert rock-film, mangano-ferruginous.—Blake, W. P., 2; Lucas, A.
 Desert-sand.—Flick, —; Goodchild, J. G.
 Deserts, Arizona, &c.—Blake, W. P.
 —, Bechuanaland.—Passarge, S.
 —, Egypt.—Lucas, A.
Desmiera.—Morgan, J. de, 2.
 De-Sotville (Ala.).—Brezina, A., 3.
 Dessau (Anhalt).—Linstow, O. von, 2.
 Deuterozoic.—Anon., 16.
 'Deutozoic,' meaning of.—Bonney, T. G.; Goodchild, J. G., 3.
 Deux-Sèvres (France).—Fournier, A.
 Devizes (Wilts).—Bennett, F. J., 3;
 Jukes-Browne, A. J., 2.
 Devon.—Arber, E. A. N., 2, 5 & 6;
 Collins, J. H., 2; Evans, H. M.; Fisher, O., 2; Hamling, J. G.; Hunt, A. R., 1, 2, 4, & 5; Jukes-Browne, A. J., 1 & 2; Lowe, H. J.; Prowse, A. B.; Rowe, J. B.; Rudler, F. W., 3;
 Sibley, T. F., 2; Ussher, W. A. E., 1 & 3.
 Devonian, 'altered,' Devon.—Hunt, A. R.
 —, Argentina.—Thomas, I.
 —, Boulonnais.—Cornet, J.; Murlon, M.
 —, Condroz.—Destinez, P., 2.
 —, Cornwall.—Bather, F. A., 2;
 Crick, G. C., 3; Flett, J. S.; Fox, H., 1 & 2; Ussher, W. A. E., 2; Woodward, H.
 —, Düsseldorf.—Køenen, K.
 —, Ellesmere Land.—Nathorst, A. G.
 —, Hesse.—Beyschlag, F.; Frech, F., 3; Jækel, O., 5.
 —, Kentucky.—Williams, H. S.
 —, Kirghiz District.—Jeremina, (Mrs.) E.
 —, Maine (U.S.A.).—Smith, G. O.
 —, Moravia.—Suess, F. E.
 —, Nassau.—Reinach, A. von.
 —, New York.—Butts, C.; Clarke, J. M., 4 & 8; Dickinson, H. T.; Drevermann, F.; Glenn, L. C.; Grabau, A. W.; Ingen, G. V.; Loomis, F. B.; Luther, D. D.; Shimer, H. W.
 —, Pennsylvania.—Williams, H. S.
 —, Poland.—Sobolev, D.
 —, Quebec.—Clarke, J. M., 7.
 —, Ohio.—Prosser, C. S., 2.
 —, Sahara.—Girard, A.; Haug, É., 3.
 —, Saône-et-Loire.—Lévy, Alb. M.
 —, Westphalia.—Beyschlag, F.
 —, Virginia.—Williams, H. S.
 — worms.—Clarke, J. M., 6.
 —, Yunnan.—Mansuy, H.
 Dewlish (Dorset).—Fisher, O.
 Dexter (Kan.).—Macfarland, D. F.
 Dharwar (Bombay Pres.).—Ahlers, R. O.
 Diabase, Borneo.—Easton, N. W.; Volz, W., 2.
 —, Finland.—Hackman, V.
 —, Harzburg.—Erdmannsdorffer, O. H.
 —, Hesse.—Brauns, R., 5.
 —, Peloponnesus.—Deprat, J.
 —, Pembrokeshire.—Elsden, J. V., 2.
 —, Sardinia.—Viola, C., 2.
 —, Transvaal.—Hall, A. L., 1 & 2;
 Kynaston, H., 4; Mellor, E. T., 6 & 7; Rand, R. F.; Tweddill, S. M.
 —, West Indies.—Høegbom, A. G., 4.
 Diablo-Cañon (Arizona) meteorite.—Moissan, H., 1-3.
Diacanthocapsa.—Squinabol, S., 3.
 Diadectidae.—Case, E. C.
 Diamond, light-absorption.—Walter, B.
 — placers, Vaal River.—Coe, F. E.
 Diamondiferous breccia, Kimberley.—Bonney, T. G., 8.
 — pipes, Kimberley.—Buttgenbach, H., 1 & 4.
 —, Pretoria.—Kynaston, H., 5.
 Diamonds, Brazil.—Kunz, G. F.
 —, British Guiana.—Hargreaves, T. S.
 —, Kimberley.—Bonney, T. G., 8;
 Buttgenbach, H., 1 & 4; Day, D. T.; Kunz, G. F.

- Diamonds, New South Wales.—Pittman, E. F.
 —, origin of.—Crookes, Sir W.; Heneage, E.; Moissan, H., 1 & 2; Williams, G. F.
 —, Transvaal.—Hatch, F. H., 3.
 —, Wisconsin.—Hobbs, W. H., 3.
 Diatomaceæ, Tertiary.—Clark, W. B.
 Diatomaceous deposits, Acireale.—Cle-rici, E., 5.
 —, Égravats ravine.—Lauby, A.
 — earths.—Evans, J. W., 5.
Dibunophyllum.—Stucken-berg, A.; Vaughan, A.
Dicellograptus.—Hall, T. S., 4.
Diceratops.—Hatcher, J. B.; Lull, R. S.
Dicksonia.—Zaleski, M. D.
Dicolocapsa.—Squinabol, S., 3.
Dicranograptus.—Hall, T. S., 4.
Dictyomitra.—Squinabol, S., 3.
Dictyonema.—Ruedemann, R.
Dictyonema-Slate, New York.—Matthew, G. F.
Dictyophyllum.—Yokoyama, M.
Dictyopyge.—Eastman, C. R., 2.
Dictyoretmon.—Whitfield, R. P.
Dicyclina.—Schlunberger, C., 3.
Dicynodon.—Broom, R.
Dicynodontia, Karroo.—Broom, R., 1-7; Jækel, O.; Seeley, H. G., 1-3.
 Dillenburg (Nassau).—Bœhm, —.
Dimetrodon.—Broili, F.; Case, E. C., 3.
Dimorpharea & Dimorphastrea.—Koby, F.
Dimorphoceras.—Stobbs, J. T.
 Dinant (Namur).—Rahir, E.
 Dinantian, Brittany.—Bigot, A., 7.
Dinochærus.—Peterson, O. A., 1 & 2.
Dinohyus.—Peterson, O. A., 2.
 Dinosauria, Cretaceous.—Hatcher, J. B.; Lambe, L. M., 2; Lull, R. S.; Nopsca, F., 1 & 3.
 —, Jurassic.—Anon., 23; Osborn, H. F., 3 & 10; Riggs, E. S.; Williston, S. W., 3.
 —, Karroo.—Broom, R., 1-7; Jækel, O.; Seeley, H. G., 1-3.
 —. See also Reptilia.
Dinotherium.—Hofmann, A., 2.
 Diorite, Bavaria.—Glungler, G.
 —, Borneo.—Easton, N. W.
 —, Caernarvonshire.—Elsden, J. V., 4.
 —, California.—Osmond, V. C.
 —, Campbell I.—Speight, R.
 —, Pembroke-shire.—Elsden, J. V., 2.
 —, Perthshire.—Barrow, G.
 —, Piedmont.—Franchi, S.
 —, Transvaal.—Tweddill, S. M.
 —, Victoria.—Whitelaw, O. A. L.
 —, West Indies.—Hægbom, A. G., 4.
Dioploton.—Vigliarolo, G.
 Diopside, *Eozoon*-limestone.—Preiswerk, H., 2.
 Diop-tase.—Lindgren, W., 3.
Diospyros.—Stanton, T. W.
Diplocænia.—Koby, F.
Diplodocus.—Anon., 23; Woodward, H., 7.
Diplograptus.—Hall, T. S., 4.
Diplosirenites.—Bœhm, J.
Diplurus.—Eastman, C. R., 2.
Discina.—Bœhm, J.
 Disco Bay (Greenland).—Engell, M. C.
Discohelix.—Weaver, C. E.
Discoidea.—Bather, F. A., 4.
Discotrochus.—Demant, J.
Disteironmys.—Ameghino, F., 7.
Distylocapsa.—Squinabol, S., 3.
 Dithmarschen (Schleswig-Holstein).—Hansen, R.
Ditrupa.—Wilckens, O.
 Dobsina (Hungary).—Gesell, A.; Illés, W.
 Dogger, Blea Wyke.—Rastall, R. H.
 —. See also Jurassic.
 Döhlen (Saxony).—Hausse, R.
 Dolerite, Borneo.—Easton, N. W.
 —, Fife.—Elsden, J. V., 3; Joly, J.
 —, Merioneth.—Fearn-sides, W. G.
 —, Perthshire.—Barrow, G.
 —, Rowley-Regis weathered.—Warth, H.
 Dolgelly Group, Merioneth.—Fearn-sides, W. G.
Dolichobrachium.—Williston, S. W.
Dolichopter-us.—Sarle, C. J.
Dolium.—Newton, R. B., 3.
 Dolomite, Alpes-Maritimes.—Gué-bhard, A.
 —, analysis of.—Knight, N., 2.
 —, Bukovina.—Vetters, H., 2.
 —, calcite &.—Thugutt, St. J., 2.
 —, Cannstatt.—Meigen, W.
 —, Denmark.—Nørregaard, E. M., 2.
 —, *Lithothamnion*, &c., and.—Vester-borg, A.
 —, origin of.—Ball, S. H.; Brien, V.
 —, Pyrenees.—Roussel, J.
 —, Transvaal.—Hall, A. L., 2 & 4; Horwood, C. B., 2; Kynaston, H., 3.
 —, Tyrol.—Ampferer, O., 2; Skeats, E. W.
 Dolomitic limestone, Hanover.—Hæfer, H.
 Dome-structure, Nevada.—Gilbert, G. K.
 Doneykite.—Stevanovič, S., 2.
 Dömsöd (Hungary).—Gull, W.
 Don R. (Yorks.).—Carter, W. L., 2 & 3.
 Donauwörth (Bavaria).—Ammon, L. von, 2.
Donax.—Etheridge, R., *fil.*, 3.
 Doncaster (Yorks.).—Davison, C.
 Donegal (Ireland).—Cole, G. A. J.
 Dorchester (Dorset).—Reid, C., 5.
 Dordogne caves (France).—Capitan, L., 3 & 4.
 Dorset.—Fisher, O., 2; Reid, C., 3-5; Woodward, A. S.
Dorsetensia.—Buckman, S. S.
Doryple & Dorysphaera.—Squinabol, S., 3.
Dosinia - deposits, Denmark.—Nord-mann, V., 3.

- Douai (Nord).—Cornet, J., 5.
 Doubs (France).—Merle, A.
 Doughty Springs (Colo.).—Headden, W. P.
 Doughtyite.—Headden, W. P., 2.
 Douglas I. (Alaska).—Kinzie, R. A.; Spencer, A. C., 2.
 Dover (Kent).—Anon., 17; Dawkins, W. B.; Thompson, R. R.
 Downs, Berkshire.—Treacher, L.
 Drainage, New York State.—Tarr, R. S.
 Drakensberg Mts. (S. A.).—Du Toit, A. L., 2.
 Drawings in Dordogne cave.—Capitan, L., 4.
 Dredging, gold.—Postlethwaite, R. H.
Drepanaspis.—Traquair, R. H., 5.
Drepanura.—Woodward, H., 2.
 Dresden (Saxony).—Hausse, R.
 Drift, England (Central & Southern).—Salter, A. E.
 —, Herefordshire.—Aldis T. S.; Grindley, H. E.; Moore, H. C., 3.
 —, Lincolnshire & Yorkshire.—Stather, J. W.
 —, Prussia.—Grönwall, K. A.
 —, Stour Valley.—Whitaker, W., 2.
 —, Thames Valley.—Leach, A. L.
 —. *See also* Quaternary, §c.
Drillia.—Clark, W. B.; Morgan, J. de, 2.
 Drôme (France).—Jacob, C., 2.
Dromilopus & *Dromopsis*.—Matthew, G. F., 2.
 Drumlins, Michigan.—Russell, I. C., 2.
 —. *See also* Moraines, §c.
 'Druridge' Valley (Northumberland).—Woolacott, D.
 Druse-minerals.—Hobbs, W. H., 3; Zambonini, F., 2.
 Dubesty (Hungary).—Kadic, O.
 Dublin Co. (Ireland).—Matley, C. A.
 Dubostica (Bosnia).—Baungärtel, B.
 DUFET, M. *Obit.*—*See* Lapparent, A. de, 4; Wyruboff, G.
 Dufile (Lado Enclave).—Preumont, G. F. J.
Dulichium.—Hartz, N., 3.
 Dumball I. (Avonmouth).—Bolton, H.
 Dumfries sandstone.—Anon., 25.
Dumortieria.—Benecke, E. W.; Buckman, S. S.; Prinz, G., 2; Schaller, W. T.
 Duncan Creek (Yukon Terr.).—Bell, R.
 Dunderland (Norway).—Wilkinson, W. F.
 Dunedin (Otago).—Marshall, P.
 Dunes, Holland.—Dubois, E., 3.
 Dungeness (Kent).—Wilson-Barker, D.
 Dunite, Otago.—Marshall, P., 2.
 —, Ural Mts.—Duparc, L., 3 & 4.
 Dunkard Formation, Maryland.—Jones, T. R., 2.
 Dunwich (Suffolk).—Spiller, J.
 Durdham Downs (Somerset).—Short, A. R.
 Durham.—Stobbs, J. T., 2; Woolacott, D.
 Düsseldorf (Rh.-Pruss.).—Köenen, K.
 Dust-fall, England (S.W.).—Fryer, A. C.
 —, Palermo.—Meunier, S., 2.
 Dwyka Beds.—Rogers, A. W., 4.
 — Conglomerate.—Corstorphine, G. S.; Mellor, E. T., 1 & 2; Philippi, E., 6.
Dybowskiella.—Stuckenbergh, A.
 Dykes, Ithaca.—Barnett, V. H.
 —, Mysore.—Wetherell, E. W., 3.
 —, New South Wales.—Morrison, M.
 —, petroleum in volcanic.—Lakes, A., 3.
 Dynamometamorphism, mineralogy &.—Spezia, G., 2.
 Dysodile, Soleure.—Rollier, L., 4.
 Earlston (Berwickshire).—Goodchild, J. G., 4.
 Earth, age of the.—Sollas, W. J.
 —, axes of the.—Lecrenier, A.
 —, consolidation of the.—Irving, A., 2.
 —, crust of the.—Arlt, T.; Chree, C.; Davis, W. M.; Fisher, O., 6; Leduc, A.; Marsh, D. B.; Van Hise, C. R., 2.
 — deformation, climate &.—Penck, A., 2.
 —, earthquake-waves &.—Hogben, G., 2; Lapparent, A. de, 3.
 —, — & interior of the.—Láska, W., 2.
 —, figure of the.—Bianco, O. Z.; Sollas, W. J.; Reibisch, P.
 —, land & sea.—Arlt, T.
 —, movements, British Isles.—Strahan, A.
 —, movements of surface.—Guenther, R. T.; Hogben, G., 3; Lapparent, A. de, 5; Launay, L. de, 4; Strahan, A., 5; *see also* Land, changes of level of.
 —, nebular theory &.—Mistockles, N.
 —, origin of the.—Becker, G. F.; Fairchild, H. Le R., 2; Frazer, P., 2; Lobley, J. L.; Nicita, F.; Upham, W.
 — pillars.—Guenther, S.
 — pressure, Keuper rocks of Eldersfield.—Richardson, L., 6.
 —, rigidity of the interior.—Irving, A.; See, T. J. J.
 —, surface of the.—Herbertson, A. J.
 —, underground temperature.—Everett, J. D.
 Earthquake-observatory, Shide.—Milne, J., 3.
 — waves.—Benndorf, H.; Fisher, O., 4; Harboe, E. G.; Hogben, G., 2; Knott, C. G.; Lapparent, A. de, 3; Láska, W., 2; Rudzki, M. P.
 Earthquakes, Austria.—Mojsisovics, E. von; Schwab, P. F.
 —, Bavaria.—Reindl, J., 1-3.
 —, Belgium.—Lagrange, E.
 —, Carniola & Styria.—Hærnes, R., 2.

- Earthquakes, Cornwall.—Davison, C., 2.
 —, Derbyshire.—Davison, C., 4.
 —, distribution of.—Montessus de Ballore, F. de, 2.
 —, earth's interior &.—Láska, W., 2.
 —, Essex.—Davison, C., 5.
 —, Galicia.—Láska, W.
 —, Guatemala.—R. D.
 —, guide for observers of.—Gerland, G.
 —, Hautes-Pyrénées.—Mascart, —.
 —, investigations on.—Davison, C., 6; Milne, J., 3; Omori, F.
 —, Japan.—Kikuchi, D.; Omori, F., 1-3.
 —, Kangra Valley.—Anon., 21; Köken, E.; Holland, T. H.
 —, Kashmir.—Clements, H.
 —, Lahore.—Moureaux, T., —.
 —, Leicestershire.—Davison, C., 3.
 —, Macedonia.—Hørnes, R.
 —, Missouri.—Shepard, E. M.
 —, New Zealand.—Hogben, G., 1-4.
 —, Ponza Is.—Mecalli, G.
 —, Prussia.—Jentzsch, A., 3.
 —, rainfall &.—Clements, H.
 —, Russian Baltic Provinces.—Doss, B.
 —, Stromboli &.—Lacroix, A., 15.
 —, twin.—Davison, C., 5.
 —, Upsala.—Stolpe, P.
 —, volcanoes &.—Lorenzo, G. de, 10.
 —, West Indies.—Montessus de Ballore, F. de.
 —, Yorkshire.—Davison, C., 1 & 2.
 East Indies, tin in the.—Fawns, S., 2.
 —. See also Borneo, &c.
 Easton (Pa.).—Peck, F. B.
 Ebermannstadt (Bavaria) earthquake, 1625.—Reindl, J., 3.
 Eberstadt (Darmstadt).—Klemm, G., 4.
 Eberswalde-Thorn Valley (Prussia).—Keilhack, K., 2; Maas, G.
 Ecca Beds.—Corstorphine, G. S.; Rogers, A. W., 4.
Echinanthus & *Echinobrissus*.—Loriol, P. de, 2.
 Echinoidea, Carboniferous.—Stobbs, J. T.
 —, Cretaceous.—Airaghi, C.; Bather, F. A., 4; Gauthier, V.; Huccke, W.; Lambert, J.; Loriol, P. de, 2; Masias, M. G., 2; Spencer, W. K.; Weller, S., 3; Wilckens, O.
 —, Devonian.—Bather, F. A., 2.
 —, Jurassic.—Gauthier, V., 2; Remeš, M.
 —, Tertiary.—Airaghi, C.; Clark, W. B.; Dainelli, G.; Fourtau, R.; Kilian, W., 2; Loriol, P. de, 2; Newton, R. B., 6.
Echinolampas.—Loriol, P. de, 2.
 Eclogite, Gross - Venediger.—Weinschenk, E., 2.
 —, Switzerland.—Hezner, L.
Echphora.—Clark, W. B.
 Ecuador (S. Am.).—Wolff, F. von.
 Edenite.—Roccati, A., 3.
 Edentata, Santa Cruz Beds.—Scott, W. B.
 Edenvale Caves (Clare).—Scharff, R. F.
 Edinburgh (Scotland).—Peach, B. N., 3; Traquair, R. H., 3.
Edriocrinus.—Talbot, M.
 Egg-case, Chimerooid.—Gill, T.
 Egravats ravine (Puy-de-Dôme).—Lauby, A.
 Egypt.—Andrews, C. W., 1 & 2; Barrois, C.; Barron, T.; Beadnell, H. J. L., 1 & 2; Bonnet, E.; Fourtau, R.; Hohler, T. B.; Lucas, A.; Pachundaki, D. E.; Stewart, C. E.; Stromer E., 3 & 4; Ugolini, R.
 Eifel (Rh.-Pruss.).—Greenly, E., 2; Jækel, O., 6.
 Eifelian fault, Liège.—René d'Andrimont, 3; Lohest, M.
Eifelosaurus.—Jækel, O., 6.
 Eigg, I. of (Hebrides).—Harker, A.; Taylor, H.
 Ejutla (Mex.).—Villarello, J. D., 3.
 Elands River (Transvaal).—Kynaston, H., 6; Mellor, E. T., 3.
 Elandsfontein (Transvaal).—Johnson, J. P.
Elaphis.—Stefano, G. de.
 Elba, I. of.—Achiardi, G. d'; Cortese, E.; Ermisch, K.
 Elbe estuary, coast - changes.—Beyerschlag, F.; Hansen, R.
 Elbe R. (Germany).—Schucht, F.
 Elberfeld (Rh.-Pruss.).—Kenen, K.
 Elburz Mts. (Persia).—Morgan, J. de.
 Eldersfield (Worcester).—Richardson, L., 6.
Eleana.—Bode, A.
Electra.—Canu, F.
Elephas.—Arnold-Bemrose, H. H.; Bate, (Miss) D. M. A., 2; Puccione, N.
 — *meridionalis*, at Dewlish.—Fisher, O.
 Elizabetpol (Transcaucasia).—Køeller, G.
 Ellesmere Land (Arctic).—Nathorst, A. G.
Ellipsocephalus.—Wiman, C., 2.
Ellipsoviphus.—Squinabol, S., 3.
 Elmira (N.Y.).—Clarke, J. M., 9.
 Elmshorn (Schleswig-Holstein).—Gagel, C., 2 & 4.
Elopopsis.—Fritsch, A., 2.
Elotherium.—Sinclair, W. J.
 Elterlein (Saxony).—Beck, R., 2.
Emarginula.—Clark, W. B.; Deninger, K.
 Embleton (Northumberland).—Goodchild, J. G., 5.
 Emilia (Italy).—Pantanelli, D.; Stefani, C. de, 2.
 Emmonsite.—Hillebrand, W. F.
 Ems (Nassau).—Fresenius, H.
 Enargite.—Headen, W. P., 2; Moses, A. J.
 Enclosures, igneous rock.—Romeu, A. de.

- Endothiodon*.—Broom, R., 5.
 Engadine (Grisons).—Tarnuzzer, C.
 Engihoule (Liège).—Lohest, M.
 England, coast-erosion.—Carey, A. E.
 —, mines, &c.—Home Office, 1-4.
 —. See also British Isles, Geological Survey, &c.
 Engravings, stone-age.—Anon., 22.
 Enstatite, Caernarvon.—Elsden, J. V., 4.
 — -diorite, Pembrokeshire.—Elsden, J. V., 2.
Entogonites.—Kittl, E.
Entomis.—Loomis, F. B.
 Entomostraca, Jurassic.—Richardson, L.
Entoptychus.—Sinclair, W. J.
 Entraignes Valley (Savoy).—Fliche, P., 2.
 Envellier (Berne).—Rollier, L.
Eocardia.—Scott, W. B., 2.
 Eocene, Dalmatia.—Dainelli, G.; Schubert, R. J., 1, 2, & 7; Stefani, C. de.
 —, Egypt.—Beadnell, H. J. L.
 —, Florence.—Pasquale, M., 2.
 —, Istria.—Manek, F.; Moser, L. K.; Schubert, R. J., 2 & 7.
 —, Morocco.—Brives, A.
 —, New Caledonia.—Deprat, J., 7.
 —, Nigeria.—Newton, R. B.
 —, Noirmoutier I.—Bonnet, E., 2.
 —, Switzerland.—Stehlin, H. G.
 —, Syracuse.—Checchia-Rispoli, G.
 —. See also Tertiary.
 Eoliths, Kent.—Larkby, J. R., 1 & 2.
 —, origin of.—Boule, M., 6.
Eosphaeniscus.—Wiman, C., 4.
Eotomaria.—Raymond, P. E., 2.
Eozoon-limestone, Côte St. Pierre.—Preiswerk, H., 2.
 Epervay (Marne).—Leriche, M.
 Epidavros (Peloponnesus).—Deprat, J.
 Epidote, Inverness-shire.—Thomas, H. H.
Epipeltephilus.—Ameghino, F., 7.
 Éply (Meurthe-et-Moselle).—Zeiller, R., 3.
Epistreptophyllum.—Koby, F.
Equus.—Gidley, J. W.; Lambe, L. M., 4 & 5; Osborn, H. F., 2; Reche, O.
 —. See also Horse, &c.
 Erebus, Mt. (Antarctic).—Scott, R. F.
 'Erebus' & 'Terror' Gulf (Antarctic).—Wiman, C., 4.
Erethizon.—Allen, J. A.
 Ericeira (Estremadura).—Choffat, P.
 Eric, L. (N. Am.).—Kraus, E. H.
Eriophya.—Etheridge, R., *fil.*, 3.
 Erith (Kent).—Leach, A. L.
 Erosion, Alpine.—Daly, R. A., 3.
 —, Antarctic wind.—Philippi, E., 3.
 —, atmospheric, &c.—Wilson-Barker, D.
 —, ice.—Fairchild, H. L., 3; see also Glacial, &c.
 —, rain.—Guenther, S.
 —, river.—Yachevski, L., 2.
 —. See also Coast, &c.
 Erratic blocks, British Isles.—Kendall, P. F.
 — —, origin of Alpine.—Meunier, S., 4.
 Erseklél (Hungary).—László, G. von.
Erycina.—Clark, W. B.
Erycites.—Priinz, G., 2.
 Erzberge (Styria).—Redlich, K. A.
 Erzgebirge (Saxony).—Baumgärtel, B., 3; Beck, R., 1 & 2; Kliver, —; Mann, O.; Reindl, J., 2; Seebohm, —; Viebig, W.
 — (Transylvania).—Roth von Telegd, L.
Eschara.—Péron, A.
 Eschscholtz Bay (Siberia).—Maddren, A. G.
 Esino R. (Italy).—Moderni, R.
 Esna (Nile Valley).—Beadnell, H. J. L.
 Essex.—Biddell, E.; Davison, C., 5; Irving, A., 3; Salter, A. E.; Thresh, J. C.; Woodward, H. B., 4.
 Essexite, Bohemia.—Hibsch, J. E., 3.
 Estagel (Pyénées-Orientales).—Mengel, O.
Estheria.—Richardson, L.
Estheriella-Shales, Malay Peninsula.—Jones, T. R.; Newton, R. B., 2.
 Estremadura (Portugal).—Choffat, P., 1-2 & 4.
 Euganean Hills (Venetia).—Squinabol, S., 3.
 Étampes Valley (Seine-et-Oise).—Courtay, G.
 Etna (Sicily).—Rovereto, G., 3.
Etoblattina.—Meunier, F., 2.
 Etruria-Marl Group.—Kidston, R.
 ETTINGSHAUSEN, C. VON. See Krasser, F.
Eubrachiosaurus.—Williston, S. W.
Eucetrurus.—Traquair, R. H., 2.
Euchitonina.—Squinabol, S.
 Euclase.—Kœchlin, R., 2.
Eucyclus & *Eulima*.—Blake, J. F., 2.
Eucyrtidium.—Clark, W. B.; Squinabol, S., 3.
Eucytherura.—Lienenklaus, E.
 Eugranite, Brocken massif.—Erdmanns-dœrffer, O. H., 3.
 Eukrite, meteoritic.—Berwerth, F.
Eumorphotis.—Bæhm, J.
Eumylodon.—Ameghino, F., 7.
Eunema.—Hudson, G. H.; Raymond, P. E., 2.
Euphemus.—Stobbs, J. T.
Euphoberia.—Woodward, H., 4.
 Euphotide. See Gabbro.
 Europe, International geological map.—Beyschlag, F., 2.
 —, Keuper-transgression in.—Tornquist, A., 5.
 Europium.—Urbain, G.
Eurycare.—Persson, E.
Eurypterus.—Sarle, C. J.
Eusignomys.—Ameghino, F., 8.
Euspatangus.—Loriol, P. de, 2.
Euspira.—Newton, R. B., 6.
Eusyringium.—Squinabol, S., 3.
 EVERETT, J. D., *Obit.*—See Perry, J.

- Evi, L' (Fribourg).—Musy, M.
 Evolution of species.—Eastman, C. R., 4;
 Raulin, V.
 —, Tertiary mammals.—Boule, M.,
 4 & 5; Depéret, C., 2-4.
 Exeter (Devon).—Rowe, J. B.
 Exhibition, St. Louis, 1904.—Bauerman,
 H.
 Experimental orography. — Avebury,
 Lord.
 Eyziès, Les (Dordogne).—Capitan, L., 3.
 Èze (Alpes-Maritimes).—Ambayrac, —,
 2; Bertrand, L., 10.
 Færøe Is.—Dodd, R.; Hartz, N., 2;
 Heddle, M. F.; Thoroddsen, T., 2.
Fagus.—Palibin, I. V.
 Fareham (Hants).—Whitaker, W., 6.
 Faringdon (Berks).—Wright, J.
 Fassa Valley (Tyrol).—Proboscht, H.
 Faults, Aix-la-Chapelle.—Forir, H.
 —, New York overthrust.—Schneider,
 P. F.
 — & folds, Yonne.—Lemoine, P., 6;
see also Eifelian, &c.
Favia.—Koby, F.
Favosites.—Thomas, I.
 Faxö (Denmark).—Nørregaard, E. M., 2.
 Fayum (Egypt).—Beadnell, H. J. L., 2.
 Fee Glacier (Valais).—Bonney, T. G., 9.
 Feher-Körös District (Hungary).—Palfy,
 M. von.
Felis.—Arnold-Bemrose, H. H.
 Fellabrunn (Lr. Austria).—Vetters, H.
 Felsite, Fife.—Elsden, J. V., 3; Joly, J.
 —, Transvaal.—Hall, A. L.; Mellor,
 E. T., 3.
 Felsitic slates, Snowdon.—Dakyns, J. R.
 Felspars.—Gonnard, F., 1 & 2; Johans-
 son, H. E., 1 & 2; Melzer, G., 1 & 2;
see also Anorthite, Labradorite,
 Perthite, &c.
 —, chemical constitution of.—Tschermak,
 G.
 —, high-temperature research on.—
 Harker, A., 4.
 —, isomorphism of.—Day, A. L.
Fenestella.—Cumings, E. R., 1 & 2.
 FERGUSON, W. *Obit.*—*See* Anon., 4;
 Marr, J. E.
 Fergusonite, Ceylon.—Coomáráswámy,
 A. K., 4.
 Fernando de Noronha I. (Atlantic). —
 Wilson-Barker, D.
 Fern Pass (Tyrol).—Ampferer, O., 4
 Rose, —.
 Ferrous nitrate.—Scharizer, R.
 Ferrous sulphate, Thames goldfield.—
 Paul, M.
 Ferru, Mte. (Sardinia).—Dannenberg, A.
 Ferto', Lake (Hungary).—Szontagh, T.
 von.
 Ffestiniog Group, Merioneth.—Fearnsides,
 W. G.
 Fibroferrite.—Headden, W. P., 2.
Fibula.—Fittipaldi, E. U.
 Fichtelgebirge (Bavaria).—Reindl, J., 2.
Ficopsis.—Weaver, C. E.
 Fife.—Anon., 29; Elsden, J. V., 3; Joly,
 J.; Smith, W. G.; Wilson, J. S. G.
 Figeac (Lot).—Lévy, Aug. M., 4.
 Findhorn R. (Scotland).—Teall, J. J. H.,
 2.
 Finger Lakes (N.Y.).—Dryer, C. R.
 Finkenwalde (Pomerania).—Deecke, W.,
 2.
 Finmark (Norway).—Hackman, V.;
 Simmersbach, B., 2.
 Fiodhaig, Loch (Sutherland).—Murray,
 Sir J., 3.
 Fire-clays, Missouri.—Wheeler, H. A.
 — -damp, Lorraine.—Laur, F., 3.
Fischerina.—Stuckenberg, A.
 Fish-otolites, Tertiary.—Schubert, R. J.,
 8.
 Fishers I. (N.Y.).—Fuller, M. L.
 Fishes, Carboniferous.—Branson, E. B.;
 Gibson, W., 2; Tornquist, A., 4; Tra-
 quair, R. H., 1 & 2.
 —, Cretaceous.—Choffat, P.; Fritsch,
 A., 2; Hucke, W.; Musy, M.; Osborn,
 H. F., 6; Ridewood, W. G.; Sauvage,
 H. E., 3; Sternberg, C. H.
 —, egg-case of.—Gill, T.
 —, Devonian.—Drevernann, F., 2;
 Jækel, O., 5; Lankester, E. R.; Tra-
 quair, R. H., 3-5.
 —, fossil, & South African recent.—
 Boulenger, G. A.
 —, Jurassic.—Bassani, F.; Blake,
 J. F., 2; Sauvage, H. E., 1-3; Wood-
 ward, A. S.
 —, Permo-Carboniferous.—Seward, A.
 C., 3.
 —, Quaternary.—Lønning, E., 2.
 —, Silurian.—Lankester, E. R.; Tra-
 quair, R. H., 6.
 —, Tertiary.—Bassani, F., 1-3, 5, & 6;
 Boulenger, G. A.; Clark, W. B.;
 Leriche, M., 2; Pasquale, M., 1 & 2;
 Priem, F.; Romanovski, G. D.;
 Simionescu, I.; Stefano, G. de, 2;
 Stromer, E., 1-3; Toula, F.
 —, Triassic.—Bassani, F., 4; Eastman,
 C. R., 2; Fraas, E.; Gorjanović, —;
 Kramberger, K.; Lomas, J.
 Fishguard (Pembroke).—Elsden, J. V., 2.
 FITZ-GERALD, E. A. *See* Bonney, T.
 G., 6.
 Fitz-James implement-station, near
 Clermont (Oise).—Capitan, L., 2.
 Fjords, origin of.—Uphan, W., 2.
Flabellum.—Clarke, E.; Dennant, J.
 Flagstone, Pretoria.—Tweddill, S. M.
 Flamborough Head (Yorks).—Hobson,
 B.
 Flanders.—René d'Andrimont, 1 & 2;
 Van Erthorn, O., 4.
 Flechtingen (Magdeburg).—Wieggers, F.
 Flints, decalcification &.—Meunier, S.,
 5.
 —, Egypt.—Pachundaki, D. E.
 —, origin of.—Sollas, W. J.
 —, Paris Basin.—Meunier, S., 5.
 Flitwick (Beds).—Hopkinson, J.
 FLOCKE, F. A. *Obit.*—*See* Waagen, L.

- Florence (Tuscany).—Pasquale, M., 2;
Stefani, C. de, 4.
Florida (U.S.A.).—Fuller, M. L., 2-4.
FLOWER, Sir W. H. *Obit.*—See Cornish,
C. J.
Fluorspar, Illinois, &c.—Bain, H. F., 2;
Day, D. T.
Flustrina.—Péron, A.
Flysch, Austria (Lr.).—Abel, O., 3.
—, Bavaria.—Fink, W., 1 & 2.
—, Bosnia.—Schiller, J.
—, Cretaceous ophitic.—Sacco, F., 5.
Fætorius.—Nehring, A.
Foldings, reversed, Carpathians.—Mur-
gocci, G. M., 2-4.
—, —, Montagne Noire.—Bergeron,
J.
—, —, Piedmont.—Lugeon, M., 3 &
4; Stella, A., 2.
—, —, Spain.—Almera, J.; Nicklès,
R.
—, —, Spoleto.—Lotti, B.
—, —, Tyrol.—Grossouvre, A. de, 2.
Folds, Alps.—Simoëns, G., 2.
—, faulted.—Cornet, J., 2.
— shown on geological maps.—Vinassa
de Regny, P., 2.
Fontaine - l'Évêque (Var).—Martel, E.
A., 11.
Fontanmesia.—Buckman, S. S.
Footprints, Carboniferous Batrachian.—
Matthew, G. F., 2.
—, human Tertiary.—Branco, W.
—, Jura-Trias of N. America.—Lull,
R. S.
—, Triassic.—Lomas, J.
Foraminifera, Cretaceous.—Gough, G.
C.; Hucke, W.; Kemna, A.; Schlum-
berger, C., 2; Wright, J.
—, dimorphism of.—Lister, J. J., 2.
—, Jurassic. — Brueckmann, R.;
Schlumberger, C., 3.
—, Quaternary.—Jensen, H. I.
—, Tertiary.—Chapman, F., 2 & 3;
Cecchia-Rispoli, G., 2; Clark, W. B.;
Douvillé, H., 5; Gentile, G.; Kemna,
A.; Lemoine, P., 5; Lister, J. J., 1 &
2; Neviani, A., 3; Newton, R. B., 6;
Prever, P. L., 1-3; Schlumberger, C.;
Schubert, R. J., 1 & 2; Silvestri, A.,
1 & 2; Stache, G.; Steuer, A., 2;
Wójcik, K.
— See also *Orbitoides*, &c.
'Forest Bed,' Dutch Campine.—Dubois,
E., 1 & 4; Velge, G., 1 & 2.
Forfarshire.—Dow, R.; Smith, W. G.
Forni (Venetia).—Gortani, M.
Fortuna Valley (Heidelberg).—Luttman-
Johnson, H.
Fossil genera and species in New York
State Museum.—Ellis, (Miss) M.
'Fossiliferous' gneiss, &c.—Squinabol, S.
Fossils, study of.—Woodward, A. S., 2.
FOSTER, Sir C. LE N. *Obit.*—See Jenn-
ings, H., 2; Judd, J. W.; Rickard, T. A.
FOUQUÉ, F. A. *Obit.*—See Gaubert, P.,
2; Lévy, Aug. M.; Teall, J. J. H., 3;
& Termier, P., 3.
FOWLER, P. *Obit.*—See MARR, J. E.
Frabosa Cave (Udine).—Issel, A., 4.
France. See Nord, Provence, &c.
Franche-Comté (France).—Fournier, E.,
2; Girardot, A.
Frank (Alberta).—Jacobs, E.
Franklin (Canada).—Bell, R.
Franz-Josef Adit, Ischl.—Aigner, A.
Frate Valley (Lombardy).—Taramelli,
T., 3.
Frauenstein (Wiesbaden).—Schændorf,
F.
FRAZIER, B. W. *Obit.*—See Frazer, P.
Frechiella.—Prinz, G., 2.
French Guinea (W. Africa).—Lacroix,
A., 12 & 16.
Fribourg (Switzerland).—Hofmann, W.
Frobisher Bay (Baffin Land).—Emerson,
B. K.
Frohnalp (Schwyz).—Arbenz, P.
Frombachia.—Blaschke, F.
Fronicularia. — Brueckmann, R.;
Hucke, W.
Fuchsite.—Bell, R.
Fucoid-'borings.'—Fuchs, T., 3.
Fulda Valley (Hesse).—Lang, O.
Fulgurites.—Platania, G.
—, artificial.—Tchirvinski, P. N., 2.
Fungidæ.—Vaughan, T. W.
Fumerolles, Mont Pelé.—Lacroix, A., 6.
Funafuti Atoll (Pacific).—Sollas, W.
J.
Fünfstetten am Ries (Bavaria).—Am-
mon, L. von, 2.
Fürfeld (Hesse).—Schopp, H.
Furrowed stone from Dahomey. —
Boehn, J., 4.
Fusulinella.—Morgan, J. de, 2.
Fusus.—Deninger, K.; Gregorio, A. de;
Weaver, C. F.; Wilckens, O.
Fyen (Denmark).—Madsen, V.
Gabbro, Borneo.—Easton, N. W.
—, Bosnia.—Schiller, J.
—, Brocken massif, &c.—Erdmanns-
dörffer, O. H., 1 & 3.
—, Caucasus. — Löwinson - Lessing,
F., 2.
—, coarseness of.—Lane, A. C.
—, Cyprus.—Duke, J. C.
—, Gothland.—Gavelin, A., 2.
—, Graian Alps.—Hezner, L.
—, Guinea.—Lacroix, A., 12.
—, Pembrokehire.—Elsden, J. V., 2.
—, Piedmont.—Roccati, A.
—, Transvaal.—Hall, A. L., 2.
—, Tuscany.—Ugolini, R., 3.
—, Urals.—Duparc, L., 4, &c.
Gacko (Bosnia).—Hawelka, V.
Gadolinite.—Hidden, W. E.
Gaima, Mt. (Congo Free State).—Preu-
mont, G. F. J.
Galena, British Columbia.—Robertson,
W. F.
—, Caracoles.—Labastie, F.
—, Grisons.—Koenigsberger, J., 2.
—, Wisconsin.—Hobbs, W. H.
— See also Lead.

- Galeocerdo*.—Clark, W. B.; Stromer, E., 3.
- Galicia (Austria).—Friedberg, W.; Guerich, G.; Láska, W.; Loziński, W. von; Wiśniowski, T.; Wójcik, K., 1 & 2.
- Gallberg (Hanover).—Wunstorf, W.
- Gallo Mte. (Palermo).—Gregorio, A. de, 3.
- Galway (Ireland).—Anon., 26.
- Gambier Is. (Pacific).—Agassiz, A.
- Gangamopteris*.—Seward, A. C., 3.
- Gänsbrunnen (Soleure).—Schmidt, C.
- Gaping-Ghyll cavern (Yorks.).—Dwerryhouse, A. R.
- Gard (France).—Lambert, J.; Lodin, A.; Sayn, G.
- Garnet.—Yachevski, L.
- , copper associated with.—Smith, G.
- Garnet-formation, Queensland.—Smith, G.
- Garnets, Ceylon.—Coomáráswamy, A. K., 3; Dunstan, W. R., 5.
- , Dartmoor.—Evans, H. M.
- Garnierite.—Deprat, J., 4.
- Gas (natural), British Columbia.—Ashworth, J., 2.
- (—), Canada.—Anon., 20.
- (—), Indiana.—Kinney, B. A.
- (—), Kansas.—Macfarland, D. F.
- (—), New York.—Bishop, I. P.
- (—), United States, production of.—Day, D. T.
- (volcanic).—Brun, A., 2.
- Gaspé (Quebec).—Clarke, J. M., 7.
- Gassino (Piedmont).—Bassani, F., 2.
- Gasteropoda, Carboniferous.—Hind, W., 2; Reis, O. M.; Stobbs, J. T.
- , Cretaceous.—Deuinger, K.; Etheridge, R., *fl.*, 3; Fittipaldi, F.; Péron, A.; Wilckens, O.
- , Devonian.—Loomis, F. B.; Thomas, I.
- , Jurassic.—Bellini, R., 3; Blake, J. F., 2; Clerc, M.; Krumbeck, L.
- , Ordovician.—Raymond, P. E., 2.
- , *Pachycardium*-tuff.—Read, A.
- , Permian.—Martelli, A.
- , Quaternary.—Newton, R. B., 4; Shimek, B., 1 & 2.
- , Silurian.—Donald, (Miss) J., 1 & 2; Hudson, G. H.
- , Tertiary.—Andræ, A.; Bellini, R.; Clark, W. B.; Gregorio, A. de; Hall, T. S., 3; Hutton, F. W., 3; Locard, A.; Menzel, H., 2; Morgan, J. de, 2; Newton, R. B., 1, 3, 5, & 6; Weaver, C. E.
- , Triassic.—Blaschke, F.; Böhm, J.; Mariani, E., 2.
- Gastrioceras*.—Stobbs, J. T.
- Gatactochilus*.—Andræ, A.
- Gaude, La (Alpes-Maritimes).—Am-bayrac, —.
- Gault, Pomerania.—Hucke, K.
- Gazella*.—Schlosser, M.
- Gedern - Grebenhain Ry. (Hesse).—Schottler, W., 2.
- Geer R. (Belgium).—Kræntzel, F.; Lacomble, J.
- Gehlenite.—Hlawatsch, C.
- Geilnau (Hesse).—Chelius, C., 3.
- Gellivaara (Sweden).—Bygdén, A.; Wilkinson, W. F.
- GEMMELLARO, G. G. *Obit.*—See Bucca, L.
- Gems. See Precious stones, Minerals, &c.
- Gemünden (Rh.-Pruss.).—Traquair, R. H., 5.
- Gemündina*.—Traquair, R. H., 5.
- Genoa (Liguria).—Issel, A., 3 & 5; Sacco, F., 5; Taramelli, T., 5.
- Genoa-Po Ry. (Italy).—Stefani, C. de, 3.
- Geography, field-work.—Gulliver, F. P., 2.
- , systematic.—Herbertson, A. J.
- , See also Internat. Cat. Sci. Lit.
- Geologica, Bibliographia.—Margerie, E. de, 2.
- Geological Commission, Switzerland.—Muehlberg, F.; Rollier, L., 1-3 & 7.
- exterminations.—Warring, C. B.
- Institute, Mexico.—Guild, F. N.
- Magazine, Index, 1864-1903.—Woodward, (Mrs.) E. S.
- map, New York State.—Merrill, F. J. H.
- maps, folds shown on.—Vinassa de Regny, P., 2.
- , See also Maps.
- & sections, line-drawing for.—Daly, R. A.
- models.—English, D.
- photographs.—Lewis, G. G.; Watts, W. W., 2.
- problems.—Van Hise, C. R., 2.
- research, use of prospector's pan in.—Parkinson, J.
- sketching.—Lakes, A., 4.
- Society Club, List, 1824-1904.—Monckton, H. W., 2.
- Society, medals, &c.—Marr, J. E., 1 & 2.
- , France.—Boule, M., 2.
- , German (Berlin), Silesian excursion.—Dathe, E.; Flegel, K.; Frech, F., 4-6; Friedrich, E. G.; Sturm, F.
- , Italy.—Clerici, E., 4.
- , Serbia.—Stevanović, S.
- , South Africa.—Sawyer, A. R.
- Survey, Algeria.—Ficheur, E., 2 & 3; Jacob, C., 4.
- , Alsace-Lorraine.—Benecke, E. W.; Van Werveke, L.
- , Austria - Hungary.—Bukowski, G. von, 1 & 2; Kosmat, F., 2; Mojsisovics, E. von, 2; Schubert, R. J., 9; Suess, F. E., 5 & 6; Tietze, E., 1 & 2.
- , Baden.—Schnarrenberger, K., 1 & 2; Thuerach, H., 1 & 2.
- , Cape Colony.—Du Toit, A. L.; Rogers, A. W.; Schwarz, E. H. L.

- Geological Survey, Egypt.—Beadnell, H. J. L., 2.
- , England & Wales.—Anon., 14; Bennett, F. J., 1 & 2; Gibson, W., 2; Hawkins, C. E.; Reid, C., 2-5; Strangways, C. F., 2; Jukes-Browne, A. J., 2; Strahan, A., 2-4; Teall, J. J. H., 1 & 2; Tiddeman, R. H.; Ussher, W. A. E., 3; Woodward, H. B., 10; Whitaker, W., 4-6.
- , Georgia.—Maccallie, S. W.; Watson, T. L.
- , Hesse.—Lepsius, R.; Steuer, A., 4.
- , Hungary. — Beckh, J.; Emszt, K.
- , India.—Holland, T. H., 3.
- , Iowa.—Calvin, S.
- , Ireland.—Anon., 18; Lamplugh, G. W., 5; Teall, J. J. H., 1 & 2.
- , Japan.—Iki, T.; Ogawa, T.; Ōtsuki, Y.
- , Maryland.—Clark, W. B.
- , Missouri.—Ball, S. H.; Backley, E. R., 1 & 2.
- , Mysore.—Smeeth, W. F.
- , Newfoundland.—Howley, J. P.
- , New Jersey.—Kuemmel, H. B.
- , New York State.—Merrill, F. J. H.
- , Prussia. — Beyschlag, F.; Krusch, —.
- , Queensland.—Ball, L. C., 1 & 2; Cameron, W. E.; Dixon, R.
- , Russia.—Karpinski, A. P.
- , Scotland. — Barrow, G.; Clough, C. T., 1 & 2; Horne, J.; Teall, J. J. H., 1 & 2; Wilson, J. S. G.
- , Sweden. — Blomberg, A.; Gavelin, A.; Munthe, H.; Post, L. von; Svedmark, E.; Tørnebohm, A. E.
- , Switzerland.—Heim, Alb., 2.
- , Transvaal.—Hall, A. L., 1 & 2; Kynaston, H., 2-7; Mellor, E. T., 6-8; Tweddill, S. M.
- , United States.—Walcott, C. D.
- , Victoria.—Bradford, W., 1 & 2.
- , Western Australia.—Maitland, A. G., 1 & 2.
- , surveying. — Geikie, J.; Lakes, A., 5.
- , of magnetic iron-ore.—Ulrich, P.
- , text-books. — Chamberlin, T. C.; Frech, F., 7; Geikie, J.; Kayser, E.; Lapparent, A. de, 5; Launay, L. de, 4; Marr, J. E., 4; Weinschenk, E.
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- , American (N.), 1903.—Weeks, F. B.
- , art &.—Lorenzo, G. de, 11.
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- , classical authors &.—Lorenzo, G. de.
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- , education & applied.—Lapworth, C.
- , experimental. — Avebury, Lord; Miers, H. A.
- , German educational.—Rinne, F., 2.
- , history of.—Sollas, W. J.
- , nineteenth century.—Davis, W. M.
- , Oxford &.—Sollas, W. J.
- , photography &.—Lewis, G. G.
- , phylogenesis &.—White, C. A.
- , Sweden.—Sundbarg, G.
- , text-books of. *See* Geological.
- , *See also* International Catalogue of Scientific Literature, &c.
- Geophysics.—Becker, G. F.
- George Creek (Md.).—Rutledge, J. J.
- George Town (Tasm.).—Twelvetrees, W. H.
- Georgia (U.S.A.).—Fuller, M. L., 2-4; Maccallie, S. W.; Watson, T. L., 1-3.
- Gerardtite.—Lindgren, W., 3.
- Gerau, Gross (Hesse).—Steuer, A., 6.
- Gerece Mts. (Hungary).—Beckh, H.; Staff, H. von.
- German East Africa.—Kört, W.
- , S.W. Africa.—Voit, F. W.
- Germany. *See also* Moraines, Potash, Prussia, Quaternary, Salt, &c.
- Gerona (Catalonia).—Sapper, K.
- Gerrard's Cross (Bucks).—Sikes, R. C.
- Gervillia.—Benecki, E. W.; Bøhm, J., 2; Choffiat, P.; Galdieri, A., 2; Woods, H.
- Gesso, Valley of (Piedmont).—Roccati, A.
- Geysers, Iceland.—Thoroddsen, T., 3.
- Ghâts (W.), near Bombay.—Warth, H.
- Ghriama, Loch a' (Sutherland).—Murray, Sir J., 3.
- Giétroz glacier (Valais).—Rabot, C.
- Giffoni (Campania).—Bassani, F., 4.
- Gilpin Co. (Colo.).—Collins, G. E.
- Ginglymostoma.—Priem, F.; Stromer, E., 3.
- Giorgiosite.—Lacroix, A., 10.
- Gippsland (Victoria).—Thiele, E. O.
- Gironde (France).—Degrange - Touzin, A.; Labrie, J.
- Giuf, Piz (Tödi Alps).—Koenigsberger, J.
- Glacial clay, Cotteswold Hills.—Callaway, C., 2.
- , Commissions.—*See* Glaciers.
- , conglomerate, Cape Colony, &c.—Hatch, F. H., 4; Philippi, E., 6; Rogers, A. W., 3; *see also* Dwyka, &c.
- , Transvaal.—Hall, A. L., 2; Mellor, E. T., 1 & 2.
- , deposits, Aberdeenshire.—Gibb, A. W.

- Glacial deposits, Ayrshire.—Smith, J., 5.
 ———, Colorado.—Westgate, L. G.
 ———, Denmark.—Grønwall, K. A., 2.
 ———, Hanover.—Gagel, C.
 ———, Iceland.—Knebel, W., 1 & 2;
 Pjetursson, H., 1 & 2.
 ———, Lancashire.—Dawkins, W. B., 2.
 ———, Lombardy.—Wilmer, F.
 ———, Pembrokeshire.—Jehu, T. J.
 ———, Perthshire.—Barrow, G.
 ———, Prussia.—Grønwall, K. A.
 ———, St. Gallen.—Falkner, C.
 ———, Sweden.—Gustafsson, J. P.; Sundbarg, G.; Wiman, C.
 ———, Weimar.—Wagner, R.
 ———, Winterthur.—Weber, J.
 ———. *See also* Moraines, Quaternary, &c.
 ——— erosion, Alpine.—Gilbert, G. K., 2;
 Gregorio, A. de, 4; Johnson, W. D.
 ———, Minneapolis.—Sardeson, F. W.
 ———, New York.—Tarr, R. S., 2.
 ———. *See also* Erosion, &c.
 ——— lake, Tay Valley.—Barrow, G.
 ——— lakes, Champlain Valley.—Upham, W., 3.
 ———, Massachusetts.—Goldthwait, J. W.
 ——— period.—Geinitz, E.; Négris, P.
 ———, changes of level in the.—Jamieson, T. F., 2.
 ——— striae, Flechtingen Culm.—Wieggers, F.
 Glaciation, Aberdeenshire.—Jamieson, T. F.
 ———, Alps.—Penck, A.
 ———, Arizona.—Atwood, W. W.
 ———, Bavaria.—Ammon, L. von; Bærtling, R.; Fink, W.
 ———, Bolivia.—Tight, W. G.
 ———, California.—Gilbert, G. K., 2;
 Knopf, A.
 ———, Canada.—Bell, R.; Sherzer, W. H.
 ———, Colorado.—Capps, S. R.
 ———, Germany (N.).—Jentsch, A.; Kaunhowen, F., 2; Keilhack, K., 2; Maas, G.
 ———, Herefordshire.—Grindley, H. E.; Moore, H. C., 3.
 ———, Holyhead Mt.—Greenly, E.
 ———, ice or water, the cause of.—Anon., 19.
 ———, Ireland (S.).—Muff, H. B.; Wright, W. B.
 ———, Minnesota & Wisconsin.—Chamberlin, R. T.
 ———, New York.—Fairchild, H. L., 1 & 3; Peet, C. E.
 ———, Salt-Range Palæozoic.—Jentsch, A., 2.
 ———, South I. (N.Z.).—Hogg, E. G.
 ———, Sweden (S.).—Wright, G. F., 3.
 ———, Yorkshire.—Carter, W. L., 3; Jowett, A.; Muff, H. B.
 Glacier-bursts.—Rabot, C.
 Glacier, East Anglian, Chalky-Boulder-Clay.—Harmer, F. W., 1-3.
 Glaciers, Canadian.—Ogilvie, I. H.
 ———, Côte-St. André.—Hitzel, —, 2.
 ———, Cottean Alps.—Jacob, C., 3.
 ———, Dauphiné & Savoy.—Favre, J. N.; Girardin, P., 1-3; Hitzel, —; Mougin, P.
 ——— French Commission on.—Favre, J. N.; Girardin, P.; Mougin, P.
 ———, grained structure in.—Quincke, G.
 ———, International Commission on.—Finsterwalder, S.; Reid, H. F., 1 & 2.
 ———, Kashmir.—Workman, W. H.
 ———, moraines &.—Crammer, H.
 ———, Mt. Lyell (Cal.).—Lee, W. T.
 ———, Nebraska.—Henderson, J.
 ———, Oregon.—Russell, I. C., 3.
 ———, Thianshan.—Merzbacher, G., 1 & 2.
 ———, Turkestan.—Huntington, E.
 ———, Tyrol.—Mariani, E.; Rabot, C.
 ———, Salzburg.—Crammer, H., 2.
 ———, Switzerland.—Forel, F. A., 2;
 Penck, A., 3; Rabot, C.; Whympfer, E.
 ———, valleys &.—Girardin, P., 3.
 ———, variations of.—Blumcke, A.; Forel, F. A., 2; Mariani, E.; Rabot, C.; Reid, H. F., 1 & 2.
 ———. *See also* Glaciation, &c.
 Gladkaite, Ural Mts.—Duparc, L., 3.
 Glamorganshire.—Gubbin, W. B.; Richardson, L., 3; Strahan, A., 2 & 3; Tiddeman, R. H.
 Glandar Limestone, Syria.—Krumbeck, L.
Glanosuchus.—Broom, R., 2.
 Glaserite.—Van't Hoff, J. H., 2.
 Glass, natural.—Stark, M., 2.
 Glatz (Silesia).—Dathe, E.; Flegel, K.; Schmidt, A., 2; Sturm, F.
 Glauberite.—Van't Hoff, J. H., 5.
 Glauber's salt, Dobs.—Merle, A.
 Glauco-dote.—Schaller, W. T., 3.
 Glauconite.—Collet, L. W., 2; Prather, J. K., 2.
 Glauconitic beds, Belgium.—Rutot, A., 5 & 6.
 Glauco-phane.—Franchi, S.; Termier, P., 2.
 ——— schist, Berkeley (Cal.).—Thelen, P.
Gleichenia.—Zeiller, R.
 Globe (Ariz.).—Graichen, W.
Globiclipora.—Péron, A.
Globigerina-marl, Istria.—Schubert, R. J., 2.
 ——— ooze, Maldives.—Fuchs, T., 4.
Glossopteris.—Arber, E. A. N., 1 & 7;
 Etheridge, R., *fil.*, 2; Seward, A. C., 2.
 Gloucestershire.—Callaway, C., 2 & 3;
 Richardson, L., 1, 4, & 9.
 Glucinum from beryl.—Pollok, J. H.
Glyphioceras.—Hind, W., 2; Stobbs, J. T.
Glyptodon.—Janensch, W., 2.
 Gmelinite.—Franco, S. di.

- Gneiss, Antarctic.—Nordenskjöld, O.
 —, Bavaria.—Glungler, G.
 —, Bohemia.—Hinterlechner, K.; Richter, K.; Woldrich, J. N.
 —, Congo Free State.—Preumont, G. F. J.
 —, Finland.—Hackman, V.
 —, Korea.—Carles, W. R.
 —, Minas Geraes.—Hussak, E.
 —, Ontario.—Bell, R.
 —, Perthshire.—Barrow, G.
 —, Piedmont.—Lincio, G., 3; Roccati, A.
 —, pseudo-fossils in.—Squinabol, S.
 —, Pyrenees.—Roussel, J., 2.
 —, Rum (I. of).—Harker, A., 5.
 —, Scottish Highlands (E.).—Callaway, C.
 —, Sweden.—Sundberg, G.
 —, Ticino, so-called.—Klemm, G., 5.
 —, Tyrol.—Hammer, W., 2; Weinschenk, E., 2.
 Gneissoid rocks, Ararat district.—Bonney, T. G., 2.
 Gobitschau (Moravia).—Kretschmer, F. *Gobius*.—Simionescu, I.
 Godesberg (Rh.-Pruss.).—Fliegel, G.
 Gold, Alaska.—Bell, R.; Brooks, A. H., 1 & 2; Kinzie, R. A.; Obalski, T.; Purington, C. W., 1 & 2; Spencer, A. C., 2; Wright, C. W.
 —, Argentina.—Rowbotham, J. McK.
 —, Arizona.—Graichen, W.
 —, Asia Minor.—Simmersbach, B.
 —, Bolivia.—Bradley, D. H., Jun.
 —, Borneo.—Scrivener, J. B., 3.
 —, Brazil.—Hussak, E.
 —, British Columbia.—Atkin, A. J. R.; Carmichael, H.; Macbride, R.; Robertson, W. F.
 —, British Guiana.—Hargreaves, T. S.
 —, California.—Knox, N. B.; Prichard, W. A.
 —, Canada.—Anon., 20.
 —, Cape Colony.—Schwarz, E. H. L., 4.
 —, Carniola.—Mueller, A.
 —, Chile.—Loram, S. H., 2 & 3; Lucio, F. de; Yunge, G.
 —, Colorado.—Collins, G. E.; Lindgren, W., 4; Ritter, E. A.
 —, crystalline.—Schwarz, E. H. L., 4.
 —, free in non-oxidized zones.—Lakes, A.
 —, India.—Ahlers, R. O.; Holland, T. H., 2; Maclaren, J. M.; Rudra, S. C.; Smith, A. M.
 —, Indian Territory.—Taff, J. A.
 —, indicators, Victoria (Austral.).—Vale, W. H.
 —, Ivory Coast.—Truscott, S. J.
 —, Klondyke.—Purington, C. W., 2.
 —, Korea.—Bauer, L.; Carles, W. R.; Speak, S. J.
 —, Malay States.—Dykes, F. J. B.; Scrivener, J. B., 2.
 Gold, Merioneth.—Home Office, 4; Huddart, L. H. L.
 —, Mexico.—Chance, H. M.; Laird, G. A.
 —, Montana.—Douglass, E.
 —, Nevada.—Spurr, J. E.
 —, New South Wales.—Pittman, E. F., &c.
 —, New Zealand.—Hayes, J.; Macgowan, J., 1 & 2.
 —, Nova Scotia.—Bell, R.; Gilpin, E., Jun., 3; Woodman, J. E.
 —, Ophir.—Braga, E.
 —, Peru.—Alvarado, L. U.; Loroza, E.; Santolalla, F. M., 1-3.
 —, Queensland.—Ball, L. C., 1 & 2; Dunn, E. J.; Dunstar, B.
 —, Rhodesia.—Mennell, F. P., 1, 3, & 4; Warth, T.
 —, Siberia.—Brown, L. B.; Friz, W.; Gerasimov, A.; Ijitski, N.; Ivanov, M.; Khlaponin, A.; Meister, A., 1 & 2; Rippas, P.; Schmidt, F. von, 3 & 4; Spring, R., 2; Walsh, G. E.; Yachevski, L.; Yavorovski, P.
 —, South Australia.—Drown, H. Y. L.
 —, Sumatra.—Ivey, J. H.
 —, Sweden.—Sundberg, G.
 —, Tasmania.—Gregory, J. W.; Twelvetrees, W. H., 2 & 6-8.
 —, Tierra del Fuego.—Brain, J.
 —, Transvaal.—Hatch, F. H., 2 & 4; Jennings, E. I.; Merensky, H., 2; Svinburne, U. P., 1-3; Weldon, H.
 —, Transylvania.—Bauer, J.
 —, United States production.—Gay, D. T.; Emmons, S. F., 2.
 —, Utah.—Boutwell, J. M.
 —, Victoria.—Anderson, W. R.; Bradford, W., 1 & 2; Hart, T. S., 2; Hunter, S. B.; Lindgren, W.; Whitelaw, O. A. L.
 —, Western Australia.—Crockett, L. L.; Gibson, C. G., 1 & 2; Hoover, H.; Jackson, C. F. V.; Maitland, A. G., 1-4; Parker, C.; Saunders, W. T.; Simpson, E. S.
 Gold-dredging, New South Wales.—Blair, D. K.
 —, New Zealand.—Macgowan, J., 1 & 2; Peck, W.
 —, United States.—Postlethwaite, R. H.
 Goldberg (Silesia).—Beyschlag, F.
 Goldcliff (Mon.).—Richardson, L., 2.
 Goldfield (Nev.).—Spurr, J. E.
 Gollenberg (Pomerania).—Schneider, O.
 Golling (Salzburg).—Fugger, E.
Goniobasis.—Clark, W. B.; Stanton, T. W.
Goniocora.—Koby, F.
Goniocylindrites.—Bigot, A., 5.
Goniophora.—Reed, F. R. C.
Gonodon.—Bœhm, J.
Gonodus.—Galdieri, A., 2.
 Goring Gap.—Salter, A. E.
 Gorm, Loch (Sutherland).—Murray, Sir J., 3.

- Gortschitz Valley (Carinthia).—Redlich, K. A., 2.
- Gosau (Tyrol).—Grossouvre, A. de, 2.
- deposits, Tyrol.—Felix, J.
- Göteborg (Gothland).—Munthe, H., 3 & 4.
- Gothland (Sweden).—Blomberg, A., 2; Gavelin, A., 1-3; Heunig, A.; Holmquist, P. J.; Munthe, H., 2-5; Persson, E.; Post, L. von; Sjøgren, H., 3 & 4; Svedmark, E., 1 & 2; Tærnebohm, E.
- Gothlandian, Brittany.—Bigot, A.
- Gottesberg (Saxony).—Mann, O.
- Gough I. (S. Atlantic).—Bruce, W. S.
- Gower (Glamorgan).—Gubbin, W. B.
- Graben (Baden).—Thuerach, H., 2.
- Graham Land (Antarctic).—Charcot, J.; Gourdon, E.
- Granada (Andalusia).—Bulmer, G. H.
- Grand Lake (Newfoundland).—Howley, J. P.
- Grand R. (Colo.).—Riggs, E. S.
- Grandidiérite.—Lacroix, A., 2.
- Grängesberg (Svealand).—Wilkinson, W. F.
- Granite, Aar massif.—Fischer, O.
- , Alps (W.), Oligocene.—Sandberg, C. G. S.
- , Antarctic.—Nordenskjöld, O.
- , Austria (Lr.).—Sigmund, A., 3.
- , Baden-Baden.—Eisele, H.
- , Bavaria.—Glungler, G.
- , Bohemia.—Hinterlechner, K. Woldrich, J. N.
- , Borneo.—Easton, N. W.
- boulder, L. Von Buch monument near Weyer.—Geyer, G.; Toula, F., 3.
- , Caucasus.—Lœwinson-Lessing, F., 2.
- , cavities in.—Baron, R.; Bonney, T. G., 3; Ferrar, H. T.
- , Congo Free State.—Preumont, G. F. J.
- , Cornwall.—Busz, K.
- , Corsica.—Deprat, J., 5.
- , Dartmoor.—Evans, H. M.
- , Donegal.—Cole, G. A. J.
- , Egypt.—Ugolini, R.
- , Finland.—Hackman, V.
- , Galway.—Anon., 26.
- , Gothland.—Gavelin, A., 2; Holmquist, P. J.
- , Greenland.—Emerson, B. K.
- , Guinea.—Lacroix, A., 12.
- , Harz.—Erdmannsdorffer, O. H., 1 & 3.
- , Korea.—Carles, W. R.
- , Lojano Hills.—Roccati, A., 2.
- , Madagascar.—Baron, R.
- , Maine (U.S.A.).—Emmons, S. F., 2.
- , Mineral King (Cal.).—Knopf, A.
- , Missouri.—Buckley, E. R., 2.
- , Mount-Sorrel basic.—Rastall, R. H., 3.
- , New South Wales.—Andrews, E. C.
- , Nigeria.—Hubert, H.
- Granite, Orange-River Colony & Swaziland.—Jorissen, E.
- , Perthshire.—Barrow, G., &c.
- , Piedmont.—Tacconi, E.
- , Pyrenees.—Roussel, J., 3.
- , Rhodesia.—Cairncross, W. H.
- , Riesengebirge.—Milch, L., 3; Rimmann, E.
- , Sardinia.—Riva, C.
- , South Australia.—Woolnough, W. G.
- , Spitsbergen orbicular.—Bäckstrøm, H.
- , Sudan.—Courtet, H.; Lacroix, A.
- , Swabia.—Schwarz, H.
- , Transvaal.—Hall, A. L., 1 & 2; Jorissen, E.; Kynaston, H., 1, 3, & 4; Mellor, E. T., 5 & 7; Tweddill, S. M.
- , Tyrol.—Hammer, W., 2.
- , Vire.—Bigot, A., 4.
- , Volhynia.—Tarassenkov, V.
- , West Indies.—Høgbom, A. G., 4.
- Granites, age of S. African.—Hatch, F. H., 4.
- , secondary origin of some.—Daly, R. A., 2.
- Granitic injection in quartzite, Eberstadt.—Klemm, G., 4.
- Grantsburg (Wisc.).—Berkey, C. P., 2.
- Granulite, Austria (Lr.).—Sigmund, A., 2.
- , Ceylon.—Coomaraswamy, A. K., 1 & 3.
- , Moravia.—Suess, F. E., 3 & 4.
- , Saxony.—Bergt, W.; Credner, H. *Graphimys*.—Scott, W. B., 2.
- Graphite, Austria (Lr.).—Sigmund, A., 2.
- , Ceylon.—Coomaraswamy, A. K., 3 & 4; Dunstan, W. R., 5.
- , India.—Evans, J. W., 6; Holland, T. H., 2; Rudra, S. E.
- , Mexico.—Barriga, M. D.; Villarello, J. D., 3.
- , origin of.—Hoffmann, J. F.
- , Piedmontese Alps.—Novarese, V.
- , Siberia.—Koenigsberger, J., 2.
- , United States.—Day, D. T.
- Graphitic mica-schists, Gross-Venediger.—Weinschenk, E., 2.
- Graptolites, Silurian, Atlas Mts.—Gentil, L.
- , Victoria.—Hall, T. S., 1 & 4.
- Graptolitic rocks, S. Orkney Is.—Pirie, J. H.
- schists, Sahara.—Flamand, G. B.
- Graslitz (Bohemia).—Baumgartel, B., 3; Beck, R., 2.
- Grasse (Alpes-Maritimes).—Guébard, A., 4.
- Grateloupia.—Gasparis, A. de, 3.
- Grave, Pointe de (Médoc).—Degrange-Touzin, A.
- Gravels, Avon R. (Somerset, &c.).—Oriol, B.
- , Californian auriferous.—Knox, N. B.
- , classification by size.—Atterberg, A., 1 & 2.

- Gravels, Denmark.—Grøenwall, K. A., 3.
 —, Dumball, I.—Bolton, H.
 —, England (Central & Southern).—Salter, A. E.
 —, Hertfordshire.—Salter, A. E., 3.
 —, Germany, N.—Deecke, W.; Grøenwall, K. A., 1 & 3.
 —, Northampton.—Thompson, B.
 —, Paris.—Capitan, L.
 —, Thames (north of the).—Irving, A., 4.
 —, Thames Valley.—Hintou, M. A. C.; Lach, A. L.
 —, Well Hill.—Larkby, J. R., 1 & 2.
 —, Yukon Terr.—Obalski, T.
 Gravity, India.—Burrard, S. G.
 —, variations.—Bianco, O. Z.
 Grays (Essex).—Biddell, E.
 Gready (Cornwall).—Busz, K.
 Grebenhain-Gedern Ry. (Hesse).—Schottler, W., 2.
 Greece.—Deprat, J., 1 & 2; Négris, P., 1 & 2; Renz, C.; *see also* Ionian Is., §c.
 Greenland.—Day, D. T.; Emerson, B. K.; Engell, M. C.; Hartz, N., 4.
 Greensand, Ireland.—Gough, G. C.
 — (Lower), Berks & Wilts.—Davey, E. C.
 — (—), Dauphiné.—Jacob, C., 1 & 2.
 Grenoble (Dauphiné).—Kilian, W.; Lory, P., 1 & 2.
 Griesern Valley (Uri).—Goldschmidt, V.
 Grindelwald (Berne).—Wilson-Barker, D.
 Griquatown Beds.—Rogers, A. W., 4.
 Grikaland Series (S.A.).—Hatch, F. H., 4.
 Grisons (Switzerland).—Tarnuzzer, C.
 Grits, Staffordshire coalfields.—Gibson, W., 2.
 Grorother Mühle (Nassau).—Schændorf, F.
 Gros-Tilleul (Brabant).—Halet, F.
 Gross-Meseritsch (Moravia).—Suess, F. E., 5.
 Gross-Venediger (Tyrol).—Wein-schenk, E., 2.
 Grotte di Castro (Rome).—Orzi, D.
Gryllacris.—Bode, A.
Gryphaea.—Newton, R. B., 6.
 Guadeloupe (W.I.).—Hovey, E. O.
 Guam I.—Safford, W. E.
 Guanajuato (Mex.).—Mackee, G. W.
 Guano, New Mexico.—Brady, F. W., 2.
 Guatemala (C. Am.).—Oldham, R. D.; Ordóñez, E.
 Guillaume's (Alpes Maritimes).—Bertrand, L., 4.
 Guinea, French (W. Africa).—Lacroix, A., 12 & 16.
 Gully, The (Durdham Downs).—Short, A. R.
Gümbelia.—Prever, P. L.
 Gurk Valley (Carinthia).—Redlich, K. A., 2.
 GURNEY, H. P. *Obit.*—*See* Fletcher, L.; Marr, J. E.
 Guxhagen (Hesse).—Lang, O.
 Gyergyóbelbor (Transylvania).—Pálfy, M. von, 2.
Gymnites.—Martelli, A.
 Gypsum, crystalline.—Cesàro, G., 2.
 —, dolomite, Wietze, with.—Høefer, H.
 —, Doubs.—Merle, A.
 —, Kansas.—Grimsley, G. P.
 —, Livonia.—Sodoffski, G.
 —, Montana.—Rowe, J. P.
 —, natural history of.—Rudler, F. W.
 —, New Mexico.—Brady, F. W.
 —, Queensland.—Dunstan, B.
 —, United States.—Day, D. T.
 —, Wisconsin.—Hobbs, W. H., 3.
Gyrignophus.—Scott, W. B., 2.
Gyrinus.—Njoberg, E.
 Gyrolite.—Currie, J.; Schaller, W. T., 3.
Gyronema.—Donald, (Miss) J., 2.
 Gwelo (Rhodesia).—Parsons, C. E.
 Haardt district (Germany).—Benecke, E. W., 2.
 Hacı-el-Khenig (Sahara).—Flamand, G. B. M.
 Hadid, Jebel (Morocco).—Fischer, T.; Lemoine, P.
 Hamatite, Alabama.—Crane, W. R.
 —, crystals.—Mackee, G. W.; Moses, A. J.
 —, Cumberland.—Brown, M. W., &c.
 —. *See also* Iron, §c.
Hagiastrum.—Squinabol, S., 3.
 Haidenschaft (Styria).—Kossmat, F., 2.
 Haiger (Nassau).—Boehm, —.
 Hainault (Belgium).—Cornet, J., 3; De-lépine, —; Rutot, A., 1-3; Van Ertborn, O., 1 & 2.
 Hainich Mts. (Prussian Saxony).—Bey-schlag, F.
 Halfa, Wadi- (Egypt).—Ugolini, R.
Halicapsa.—Squinabol, S., 3.
Halicore.—Abel, O.; Lorenz von Li-burnau, L.
 Haliotidæ, Triassic.—B'aschke, F.
Haliotimorpha.—Blaschke, F.
Halitherium.—Abel, O., 5; Oort, E. D., von.
 Hallaton (Leicester).—Roehling, H. A., 2.
 Halle-a.-Saale (Germany).—Haase, E.
 Hallein (Salzburg).—Gorjanovič-Kram-berger, K.
Hallopis-Beds, Colorado.—Williston, S. W., 2.
 Halloysite.—Schaller, W. T., 3.
 Hallstadt (Upper Austria).—Mojsisóvics, E. von, 2.
 Halurgometamorphism.—Hornung, F.
Halysites.—Etheridge, R., *fil.*
Hamites.—Choffat, P., 5.
Hammatoceras.—Benecke, E. W.; Prinz, G., 2.
 Hampshire.—Bennett, F. J., 2; Fisher, O., 2; Hawkins, C. E.; Reid, C., 2; Whitaker, W., 4-6.

- Hampstead (London).—Reader, T. W.
Hamstead or Hempstead (I. of Wight).
—Hunt, A. R., 4.
Han-sur-Lesse (Namur).—Deladrier, E.
Hangman's Wood, Grays.—Biddell, E.
Hanover (Germany).—Beyschlag, F.;
Gagel, C.; Häfer, H.; Kœnen, A.
von, 3; Menzel, H.; Ochsenius, K.;
Wunstorf, W.
Hantkenia.—Morgan, J. de, 2.
Haplolops.—Scott, W. B.
Happy Valley (S. Austral.).—Basedow,
H.
Hardanger district (Norway).—Monck-
ton, H. W.; Reusch, H., 2.
Hargitta Mt. (Hungary).—Pálffy, M.
von, 2.
Häring (Tyrol).—Kœchlin, R.
Harlech (Merioneth).—Watts, W. W.
Harmer Green (Herts).—Salter, A. E., 2.
Harpagodes.—Krumbeck, L.
Harpina.—Raymond, P. E.
Harpoceras.—Benecki, E. W.; Fucini,
A.; Wunstorf, W.
Harriota egg-case, Cretaceous.—Gill,
T.
Hartzbergite, Otago.—Marshall, P., 2.
Harz Mts. (Germany).—Erdmanns-
dœrffer, O. H., 1 & 2; Hornung, F.;
Philippi, E., 5.
Harzburg (Germany).—Erdmanns-
dœrffer, O. H.
Hastings (Sussex).—Palmer, P. H.
HATCHER, J. B. *Obit.*—See Schuchert,
C., 2.
Haute-Garonne (France).—Bertrand, L.,
11.
Haute-Marne (France).—Fliche, P.
Haute-Saône (France).—Girardot, A.;
Laurent, A.
Hauterivian, Languedoc.—Sayn, G., &c.
Hautes-Alpes (France).—Martel, E. A.,
6.
HÄÜY on twinning.—Friedel, G.
Haverfordwest (Pembroke).—Reed, F.
R. C.
Hawaiian Is. (Pacific).—Hitchcock, C.
H., 2.
HAWELL, J. *Obit.*—See Carter, W. L.
Headon Beds, Hordwell.—Hooley, R.
W.
Henthote (Vict.).—Chapman, F.
Hebertella.—Raymond, P. E., 2.
Hebrides, Inner (Scotland).—Stracey,
B.
Hecticoceras.—Simionescu, I., 2.
Heidelberg (Transvaal).—Luttman-
Johnson, H.
Helderbergian, New York.—Talbot, M.
Heliaetes.—Bassani, F., 3.
Helicina.—Shimek, B., 1 & 2.
Helicocryptus.—Blake, J. F., 2.
Helicotoma.—Raymond, P. E., 2.
Heligoland.—Kœnen, A. von; Liebe-
nam, E.
Heliocornia.—Koby, F.
Heliodiscus.—Squinabol, S., 3.
Helionera.—Raymond, P. E., 2.
Helium, minerals with.—Moss, R. J.;
Travers, M. W.
Helix.—Bullen, R. A., 1 & 2.
Hellgate Valley (Mont.).—Winchell, N.
H.
Hemicidaris.—Airaghi, C., 3.
Hemipristis.—Stromer, E., 3.
Hempstead Beds, Bovey lignite &—
Hunt, A. R., 4.
Hennops R. (Transvaal).—Hall, A. L., 2.
Heppenheim a. d. Bergstrasse (Hesse).—
Klemm, G., 3; Steuer, G.
Hérault (France).—Nicklès, R., 2.
Herefordshire.—Aldis, T. S.; Grindley,
H. E.; Herries, R. S., 2; Moore, H.
C., 1-3.
Heretaunga Plain, Hawke's Bay (N.Z.).
—Hill, H.
Herkimer (N.Y.).—Cushing, H. P.
Hermalle - sous - Huy (Liège).—René
d'Andrimont, 3.
Hernösand (Jemtland).—Munthe, H.
HERRICK, W. G. *Obit.*—See Tight, W.
G., 2.
Herschel (Cape Colony).—Du Toit, A.
L.
Hertfordshire.—Irving, A., 3; Salter, A.
E., 1-3.
HERTLE, L. *Obit.*—See Weithofer, A.
Hervian, Brussels.—Rutot, A., 5.
Herzegovina.—Katzner, F., 4.
Hesse (Germany).—Behlen, H.; Bey-
schlag, F.; Brauns, R., 5; Chelius,
C., 1-3 & 5; Frech, F., 3; Fresenius,
H., 1 & 2; Henrich, F.; Jäkel, O., 5;
Klemm, G., 1, 3, 4, 6, & 7; Lang, O.;
Lepsius, R.; Lienenklaus, E.; Muen-
ster, H., 1 & 2; Reichenau, W. von;
Reinach, A. von, 2; Schauf, W.;
Schœndorf, F.; Schopp, H.; Schottler,
W., 1 & 2; Steuer, A., 1-4; Wittich,
E.; see also Vogelgebirge, §c.
Heterodelphis.—Papp, K. von, 2.
Heterolepidotus.—Gorjanović - Kram-
berger, K.
Heterophlebia.—Bode, A.
Heteropora.—Péron, A.
Heterospatangus.—Fourtau, R.
Heulandite.—Ferro, A. A.
Heur-le-Tiexhe R. (Limburg).—La-
combe, J.
Heuscheuer Mts. (Silesia, &c.).—Flegel,
K.; Petrascheck, W. G.
Hevalonche.—Squinabol, S., 3.
Hexaphyllia.—Stuckenberg, A.
Hexham (Northumberland).—Lebour,
G. A., 2.
Hiantopora.—Canu, F.
Highwood Mts. (Mont.).—Pirsson, L.
V., 2.
Hildesheim (Germany).—Beyschlag, F.
Hildoceras.—Fucini, A.; Prinz, G., 2.
Himalayas (Asia).—Diener, C.; Work-
man, W. H.
Hipparion - Bed & fauna, Perrier. —
Stehlin, H. G., 2.
Hipponecharion.—Winan, C., 2.
Hippoparina.—Canu, F.

- Hippopotamus* cave-deposit, Merry-sur-Yonne.—Parat, A.
Hippurites.—Toucas, A., 1 & 2.
 —zone, Gosau deposits.—Felix, J.
Hirudella.—Bassani, F., 4.
 Hoboken (Antwerp).—Van Ertborn, O., 2.
 Hodna, Chott el (Algeria).—Savornin, J., 3.
 Hoe - Grange Quarry (Derbyshire).—Arnold-Bemrose, H. H.
 Hoff, K. E. A. von. *Obit.*—See Reich, O.
 Hoffnungs Bay (Antarctic).—Norden-skjöld, O.
 'Hog-wallows,' California. &c.—Brauner, J. C.; Hilgard, E. W.; Piper, A. C.; Purdue, A. H., 2; Veatch, A. C.
 —. See also Mounds, natural, §c.
 Högby (Gothland).—Munthe, H., 5.
 Hohenpeissenberg (Bavaria).—Bartling, R.
 Hohndorf (Saxony).—Seeböhm, —.
 Holborough (Kent).—Dibley, G. E.
 Holderness (Yorks).—Matthews, E. R.
Holectypus.—Masias, M. G., 2.
 Holland.—Dubois, E., 3; René d'Andri-mont, 1, 2, & 4; Uhenbroek, G. D.
 Holocene mollusca, Crete.—Bullen, R. A.
 —, Spain.—Bullen, R. A., 2.
 —. See also Quaternary.
Holococenia.—Koby, F.
Holopea.—Hudson, G. H.; Raymond, P. E., 2.
 Holyhead Mt. (Anglesey).—Greenly, E.
Homalonotus.—Thomas, I.
 Homburg Forest (Hildesheim).—Bey-schlag, F.
 Homburg v. d. Höhe (Nassau).—Frese-nius, H., 2.
Homocrinus.—Talbot, M.
Homomya.—Boehm, J.
 Hoosic R. (N.Y.).—Dale, T. N.
Hoplites.—Uhlig, V.
Hoploparia.—Wilckens, O.
Hoplopteryx.—Fritsch, A., 2.
 Horndwell (Hants).—Hooley, R. W.
 Hornblende.—Roccati, A., 3.
 —, Sesia Valley.—Franchi, S.
 Hornblende - minette, Aar massif. — Fischer, G.
 — schist, Canada.—Thelen, P.
 Hornstone, Istria.—Moser, L. K., 3.
 Horodenka (Galicia).—Loziński, W. von.
 Horse, evolution of the.—Osborn, H. F., 9.
 Horses, Quaternary.—Reche, G.
 —, Tertiary.—Gidley, J. W.; Osborn, H. F., 2; see also *Equus*, &c.
 Hoskold, H. D. *Obit.*—See Butt, W.
 Hostomitz (Bohemia).—Liebus, A.
 'Hot Springs' (Ark.).—Boltwood, B. B.
 Howes, G. B. *Obit.*—See Anon., 5.
 Hoyoux Valley (Liège).—Lespineux, G.
 Huanuco & Huafáz (Peru).—Enock, R.
 Huasco R. (Chile).—Loram, S. H., 1 & 4.
 Hudson Bay (Canada).—Bell, R.
 Hudson-River Cañon (Atlantic). — Spencer, J. W., 3.
 Hudson Valley (N.Y.).—Dale, T. N.; Peet, C. E.; Upham, W., 3.
 Huebnerite.—Hobbs, W. H., 2.
Hughmilleria.—Sarle, C. J.
 Huimpil (Chile).—Schneider, J.
 Hull (Yorks).—Bancroft, F. J.
 Humfredianum, Museum, catalogue.—Sherborn, C. D.
 Hungary.—Aradi, V.; Bøekh, H., 1-3; Bøekh, J.; Emszt, K.; Halaváts, J.; Horusitzky, H.; Kossnat, F., 3; Pálfy, M. von, 1 & 2; Papp, K. von, 1 & 2; Posewitz, T.; Prinz, G., 2; Ržehák, A., 3; Schafarzik, F.; Simion-escü, I., 3; Sevastos, R.; Szádeczki, J. von; Szontagh, T. von; Täger, H.; Windhager, F.; see also Basalt, Soils, Transylvania, §c.
 Huntley (Gloucester).—Callaway, C., 3.
 Huronian, Lake-Superior Region.—Van Hise, C. R., 4.
 Hutchinsonite.—Solly, R. H.
 Hutton, F. W. *Obit.*—See Woodward, H., 6; Woodward, H. B., 3.
Hyæmoschus.—Hofmann, A., 2.
Hyæna.—Bortolotti, C.; Reichenau, W. von; Schröder, H., 2; Ussher, R. J.
Hyatella.—Reed, F. R. C.
Hydatina.—Blake, J. F., 2.
Hydnophora.—Angelis d'Ossat, G. de.
Hydractinia.—Clark, W. B.
 Hydrography, Andes.—Evans, J. W., 10.
 Hydromedusæ, Jurassic.—Gregorio, A. de, 2.
 Hydrozoa, Tertiary.—Clark, W. B.
 Hyposidæ & *Hyposodus*.—Loomis, F. B., 2.
Hyperdidelphys.—Ameghino, F., 7.
 Hypersthene - andesite, Merioneth. — Fearnside, W. G.
Hypertragulus.—Sinclair, W. J.
Hypsilophodon.—Nopcea, F., 3.
Hypsocormus.—Sauvage, H. E.
Hyracodon.—Lambe, L. M., 4.
 Ibequas Beds.—Rogers, A. W., 4.
 Ice, Antarctic.—Colbeck, W.; Scott, R. F.
 — erosion.—Anon., 19; Fairchild, H. L., 3.
 Ice-age, origin of.—Geinitz, E.
 —. See also Glacial Period, §c.
 Iceland.—Knebel, W., 1 & 2; Pjeturs-son, H., 1 & 2; Thoroddsen, T., 1-4.
 Icenian, Campine.—Dubois, E., 2 & 4.
Ichthyocrinus.—Talbot, M.
Ichthyopteryx.—Wiman, C., 4.
 Ichthyosauria, Cretaceous.—Merriam, J. C., 1, 2, & 4.
 Ichthyosaurian paddles, Triassic. — Merriam, J. C., 1 & 2.
 'Ictis,' I. of.—Reid, C.
 Idaho (U.S.A.).—Emmons, S. F., 2.
Idmonea.—Clark, W. B.

- Igneous rocks, Africa (N.E.).—Arsandaux, H., 1-3.
 ———, Alberta.—Knight, C. W.
 ———, Antarctic. — Nordenskjöld, O.; Scott, R. F.
 ———, Bohemia. — Wohning, K.; Woldrich, J. N.
 ———, Bolivia.—Evans, J. W., 9.
 ———, Borneo.—Easton, N. W.
 ———, Caernarvonshire.—Elsden, J. V., 4; Schaub, L.
 ———, California. — Knopf, A.; Osmont, V. C.
 ———, classification of. — Daly, R. A., 4.
 ———, coarseness of.—Lane, A. C.
 ———, Cornwall.—Flett, J. S.
 ———, Corsica.—Deprat, J., 6.
 ———, deep metamorphism of. — Lévy, Aug. M., 3.
 ———, eroded cavities in.—Baron, R.; Bonney, T. G., 3; Ferrar, H. T.
 ———, feldspars in.—Johannson, H., 1 & 2.
 ———, Fife.—Elsden, J. V., 3; Joly, J.
 ———, Hesse. Chelius, C., 2, 3, & 5.
 ———, Kirghiz District.—Jeremina, (Mrs.) E.
 ———, lightning &. —Platania, G.; *see also* Fulgurites.
 ———, Lipari Is.—Stark, M.
 ———, magmas. *See* Magmas.
 ———, Massachusetts.—Crosby, W.
 O.
 ———, Merioneth.—Fearnshides, W.
 G.
 ———, Moldau Valley.—Klvana, J.
 ———, Montana.—Pirsson, L. V., 2.
 ———, mountains and.—Burckhart, C.
 C.
 ———, Mysore.—Wetherell, E. W., 3.
 ———, Nevada.—Smith, D. T.
 ———, New Brunswick.—Bailey, L. W.
 ———, New Hampshire.—Pirsson, L. V., 3.
 ———, New Zealand.—Marshall, P., 1 & 2; Rastall, R. H., 2; Sollas, W. J., 2.
 ———, Pembrokeshire. —Elsden, J. V., 2.
 ———, percentages of components.—Williams, I. A.
 ———, Perm.—Duparc, L., 3 & 4; Fedorov, E. von, 2.
 ———, Perthshire.—Barrow, G.
 ———, Quebec.—Adams, F. D.
 ———, Rhenish Prussia.—Chelius, C., 4.
 ———, Rum (I. of).—Harker, A., 5.
 ———, Sahara.—Foureau, F., 1 & 2.
 ———, Skye.—Clough, C. T., &c.
 ———, Somaliland, &c. —Arsandaux, H., 1-3.
 ———, Swiss Alps.—Schmidt, C., 3.
- Igneous rocks, Transvaal.—Hall, A. L., 1 & 2; Kynaston, H., 1-6; Mellor, E. T., 5-8; Rand, R. F.; Tweddill, S. M.
 ———, tridymite in.—Lacroix, A., 5.
 ———, Tripoli.—Manasse, E., 2.
 ———, Welsh border.—Watts, W. W.
 ———, West Indies.—Høegbom, A. G., 4.
 ———. *See also* Basalt, Diorite, &c.
 Ijebu (Lagos).—Dunstan, W. R., 7.
Iliocypris.—Lienenklaus, E.; Sieber, —.
 Illinois (U.S.A.).—Bain, H. F., 1 & 2; Fuller, M. L., 2-4; Weller, S., 4; Willcox, O. W., 2.
 Ilmenite, Balaton (Lake) District.—Vitalis, S.
 Implements, flint & stone.—Capitan, L., 1 & 2; Delgado, J. F. N., 2; Feilden, H. W.; Gregorio, A. de, 3; Hany, E. T.; Hinton, M. A. C.; Johnson, J. P.; Larkby, J. R., 1 & 2; Layard, N. F.; Lockyer, Sir N.; Pachundaki, D. E.; *see also* Eoliths.
 Imst (Tyrol).—Ampferer, O.
 Inclusions, Cornish granite.—Busz, H.
 ———, Tromsø quartz-vein.—Sjøgren, H., 2.
 ———, volcanic rock.—Lacroix, A., 13.
 Index of refraction. *See* Minerals.
 India, force of gravity in.—Burrard, S. G.
 ———, mineral-production.—Holland, T. H., 2; Rudra, S. C.
 ———, mines.—Grundy, J.; Pickering, W. H.
 ———, petroleum.—Evans, J. W.
 ——— (N.W.), Cretaceous.—Crick, G. C.
 ——— (—), earthquake, 1905.—Anon., 21; Holland, T. H.; Koken, E., 2.
 ———. *See also* Coal, Graphite, Mica, Sind, &c.
 Indian Territory (U.S.A.).—Emmons, S. F., 2; Taff, J. A.
 Indiana.—Wiman, C., 2.
 Indiana (U.S.A.).—Blatchley, W. S., 1-3; Epperson, J.; Förste, A. F., 2; Fuller, M. L., 2-4; Kinney, B. A.; Reagan, A. B.; Willcox, O. W., 2.
 Indo-China (Asia).—Mansuy, H.
Indoceras.—Nætling, F., 2.
 Ingleborough (Yorks).—Dwerryhouse, A. R.
 Inn Valley (Tyrol).—Ampferer, O.; Rose, —; Suess, E.
Inoceramus.—Choffat, P., 5; Wilckens, O.
 ———-beds, Carpathian Mts.—Wiśniowski, T.
 Insects, Carboniferous.—Fritsch, A.; Meunier, F., 2.
 ———, Eocene amber.—Meunier, F.
 ———, Liassic.—Bode, A.
 ———, Quaternary.—Mjøberg, E., 2.
 Interference-figures, crystals &. —Becke, F., 3; Grattarola, G.

- Interglacial clays, Grantsburg.—Berkey, C. P., 2.
 — deposits, Northern Europe.—Gagel, C., 2-4; Geinitz, E., 2.
 Intrusive rocks, classification of.—Daly, R. A., 4; *see also* Igneous.
 Inverness-shire.—Thomas, H. H.
 Iodobromite in Arizona.—Blake, W. P., 5.
 Iola (Kan.).—Adams, G. I., 2.
 Ionian Is. (Greece).—Keser, J.
 Iowa (U.S.A.).—Beyer, S. W., 1-3; Calvin, S.; Weems, J. B.; Willcox, O. W., 1 & 2.
 Ipswich (Suffolk).—Layard, N. F.
Irania.—Morgan, J. de, 2.
 Ireland, Geological Survey.—Anon., 18; *see also* Geological Survey.
 —, lake-district.—Howarth, O. J. R.
 —, mines, &c.—Home Office, 1-4.
 —, raised beaches.—Hunt, A. R., 5; Muff, H. B.; Wright, W. B.
 —. *See also* Clare, Cork, Donegal, &c.
 Irene (Transvaal).—Hall, A. L., 2.
 Iron, abstraction of oxygen from atmosphere by.—Smyth, C. H., jun., 3.
 —, Alabama.—Crane, W. R.
 —, Andalusia.—Bulmer, G. H.
 —, Asia Minor.—Simmersbach, B.
 —, Caucasus.—Terpigorev, A., 2.
 —, Ceylon.—Coomáráswamy, A. K., 4; Dunstan, W. R., 5.
 —, Chile.—Yunge, G.
 —, China.—Shockley, W. H.
 —, Congo Free State.—Prenmont, G. F. J.
 —, Cuba.—Day, D. T.; Souder, H.
 —, Cumberland.—Brown, M. W., &c.
 —, Dauphiné.—Camous, —.
 —, Doubs.—Merle, A.
 —, Elba.—Cortese, E.
 —, Finland.—Simmersbach, B., 2.
 —, Great Britain, &c.—Home Office, 4.
 —, Hesse.—Muenster, H., 1 & 2.
 —, Hungary.—Boeckh, H., 2; Illés, W.
 —, India.—Holland, T. H., 2; Rudra, S. C.
 —, Lagos.—Bellamy, C. V.
 —, Lorraine & Luxemburg (Duchy of).—Benecke, E. W.
 —, meteoric.—Brezina, A., 1-3; Cohen, E., 1 & 2; Fleury, E.; Ward, H. A.
 —, —, structure of.—Rinne, F.
 —, Mexico.—Capilla, A.
 —, Nassau.—Böhm, —.
 —, New Jersey.—Kuettel, H. B., 2.
 —, Nova Scotia.—Bell, R.; Gilpin, E., Jun., 2 & 3.
 —, oolitic.—Bailey, L.
 —, Perm.—Duparc, L.
 —, Prov. Don Cossacks.—Terpigorev, A.
 —, Queensland.—Dunstan, B.
 —, Styria.—Humphrey, W. A.
 Iron, sulphate of. *See* Melanterite.
 —, Sweden.—Bäckström, H.; Sundbærg, G.
 —, Tomsk Gov.—Friz, W.
 —, Tunis.—Macinery, A. J.
 —, Tuscany.—Cortese, E.; Ermisch, K., 2.
 —, Ufa.—Krasnopolski, A.
 —, United States.—Day, D. T.; Emmons, S. F., 2.
 —, Ural Mts. (S.).—Kovalev, P.
 —, Utah.—Jennings, E. P., 2.
 —, Wyoming.—Kemp, J. F.
 —. *See also* Chromite, Magnetite, &c.
 Iron-Gates, Danube.—Sevastos, R.
 Iron-nickel alloy, natural. *See* Awaruite.
 Ironstone, Shotover Hill.—Lamplugh, G. W., 4.
 Ironstones, Staffordshire clay.—Gibson, W., 2.
Isastræa.—Missna, A.
 Ischia I. (Italy).—Dell' Erba, L.; Oglialoro-Todaro, A.
 Ischl (Salzkanmergut).—Aigner, A.; Mojsisovics, E. von, 2.
Ischyodus.—Fritsch, A., 2.
Ischyrocyon.—Matthew, W. D., 4.
 Isère (Dauphiné).—Hitzel, —, 1 & 2; Jacob, C.; Lory, P., 1 & 2; Pâquier, V.
 Isergebirge (Bohemia).—Richter, K.
 Island mountain-plains.—Passarge, S., 2.
 — tying.—Gulliver, F. P., 4.
Ismenia.—Rau, K.
Isoarca.—Loriol, P. de.
Isocardia.—Clark, W. B.; Krumbek, L.; Weller, S.
Isocrinus.—Jækel, O., 2.
 Issoire (Puy-de-Dôme).—Stehlin, H. G., 2.
 Issy (Seine).—Cayeux, L., 4.
 Issy-l'Évêque (Saône-et-Loire).—Danne, J.
 Istria.—Manek, F.; Moser, L. K., 1-3; Schubert, R. J., 2, 5, & 7.
 Itacolomite, Brazil.—Cayeux, L., 2.
 Itabirite, Brazil.—Hussak, E.
 Italy. *See* Emilia, Vesuvius, &c.
 Ithaca (N.Y.).—Barnett, V. H.; Matson, G. C.; Ries, H.
 Ivory Coast (W. Africa).—Hamy, E. T.; Truscott, S. J.
 Jackson Co. (Kan.), fossil trees.—Shattuck, C. H.
 Jade.—Berwerth, F., 2; Hezner, L.; Kunz, G. F.
Jækelocystis.—Schuchert, C.
 Jaën (Andalusia).—Douville, R.
 Jakuben (Bohemia).—Cornu, F., 2.
 Jamberoo (N.S.W.).—Jaquet, J. B.
 Janosite.—Boeckh, H., 3.
 Japan.—Fawns, S., 2; Iki, T.; Kikuchi, D.; Milne, J.; Ogawa, T.; Omori, F., 1-3; Otsuki, Y.; Yokoyama, M.

- Japan, magnetic survey of.—Tanakadate, A.
 —. See also Geological Survey, §c.
 Jarosite.—Hillebrand, W. F., 3.
 Java (D.W.I.).—Volz, W.
 Jemtland (Sweden).—Munthe, H.
 Jena (Germany).—Wagner, R.; Walther, K.
 Jenolan Caves (N.S.W.).—Etheridge, R., *fil.*, 4.
 Jessnitz (Anhalt).—Linstow, O. von, 2.
 Jinetz (Bohemia).—Liebus, A.
 Johannesburg (Transvaal).—Johnson, J. P.
 Johanngeorgenstadt (Saxony).—Beck, R., 2; Viebig, W.
 John-Day Series.—Sinclair, W. J.
 Jointing, in Chalk.—Epps, C. H. H.
 Joints, simultaneous rock.—Becker, G. F., 2.
 JUDD, J. W. See Anon., 13.
 Judith River Beds (Montana).—Stanton, T. W.
 Jura district, ancient lakes of the.—Bourgeat, —, 2.
 —, French.—Bourgeat, —; Fournier, E., 2 & 3; Loriol, P. de.
 —, Swiss.—Æberhardt, B.; Clerc, M.; Jenny, F.; Machaček, F.; Muehlberg; Rollier, L., 1, 3, & 7; Schardt, H., 2.
 —, Würtemberg.—Kranz, W.
 Jurassic, Alpes-Maritimes.—Bertrand, L., 1-10; Guébard, A., 4 & 6.
 —, Apennines.—Bellini, R., 3.
 —, Austria (Lr.).—Vetters, H.
 —, Baltic Provinces.—Brueckmann, R.
 —, Basilicata.—Lorenzo, G. de, 1 & 2.
 —, Boulonnais.—Sauvage, H. E.
 —, Bulgaria.—Bakalow, P.
 —, Calvados.—Bigot, A., 5.
 —, Carpathian Mts. (S.).—Simionescu, I., 3.
 —, Crimea.—Missuna, A.
 —, Dauphiné.—Deprat, J., 3; Lory, P., 1 & 2.
 —, Franche-Comté.—Girardot, A.
 —, German East Africa.—Køert, W.
 —, Glamorgan.—Richardson, L., 3 & 4.
 —, Greece.—Reuz, C.
 —, Hanover.—Wunstorf, W.
 —, Hérault.—Nicklès, R., 2.
 —, Hungary.—Aradi, V.; Prinz, G., 2.
 —, Japan.—Yokoyama, M.
 —, Lombardy.—Bettoni, A.; Cacciarnali, G. B., 2.
 —, Lorraine & Luxemburg (Duchy of).—Benecke, E. W.
 —, Madagascar.—Douvillé, H., 2.
 —, Morocco.—Gentil, L., 4.
 —, Neuchâtel.—Clerc, M.; Juillerat, E.
 —, New Mexico.—Keyes, C. R., 2.
 —, Oxfordshire.—Lamplugh, G. W., 4; Walford, E. A., 1 & 2.
 —, Persia.—Morgan, J. de, 2.
 —, Poitiers.—Fournier, A.
 Jurassic, Portugal.—Choffat, P., 2 & 4; Koby, F.
 —, Prussia (E.), &c.—Brueckmann, R.; Krause, G.
 —, Pyrenees.—Roussel, J.
 —, Rumania.—Simionescu, I., 2.
 —, Sardinia.—Tornquist, A., 1 & 3.
 —, Siberia.—Zalesski, M. D.
 —, Sicily, &c.—Gregorio, A. de, 2.
 —, Somerset.—Tutcher, J. W.; Vaughan, A., 3.
 —, Spitsbergen.—Stevenson, J. J., 2.
 —, Swiss Jura.—Æberhardt, B.; Schardt, H., 2.
 —, Syria.—Krumbeck, L.
 —, Tunis.—Gauthier, V., 2.
 —, Tuscany.—Fucini, A., 2; Ugolini, R., 2.
 —, Umbria.—Lotti, B.
 —, Valais.—Collet, L. W.
 —, Westphalia.—Meyer, E.; Schlunck, J.
 —, Yorkshire.—Rastall, R. H.
 Jussey (Haute-Saône).—Laurent, A.
 Jutland (Denmark).—Bægild, O. B.
 Kadabek (Perm. Gov.).—Fedorov, E. von, 2.
 КАСИ, M. *Obit.*—See Schmidt, C., 2.
 Kahla (Weimar).—Wagner, R.
 Kaibab Plateau (Arizona).—Jennings, E. P.
 Kainite.—Baumgärtel, B., 2.
 Kaiseregg Mt. (Fribourg).—Hofmann, W.
 Kalahari Desert (Bechuanaland).—Pasarge, S.
 Kalgoorlie (W. Austral.).—Saunders, W. T.
 'Kalkberg' (Raspenu).—Richter, K.
 Kalstad (Trondhjem).—Kiaer, J.
 Kaltenleutgeben (Lower Austria).—Richarz, P. S.
 Kamburg (Weimar).—Wagner, R.
 Kamenka (Siberia).—Meister, A., 2.
 Kangra-Valley earthquake (Himalayas).—Anon., 21; Holland, T. H.; Koken, E., 2.
 Kansas (U.S.A.).—Adams, G. I., 2; Barrow, E., 2; Bartow, E., 1 & 2; Beede, J. W.; Dartou, N. H.; Einmons, S. F., 2; Grimsley, G. P., 1 & 2; Jones, A. W.; Kneer, E. B.; Macfarland, D. F.; Prosser, C. S.; Reagan, A. B., 4; Smith, A. J.; Shattuck, C. H.; Sternberg, C. H.; Wieland, G. R.; Willard, J. T.; Wooster, L. C.
 Kaolin, Broken Hill.—Walpole, G. S.
 —, Ceylon.—Dunstan, W. R., 5.
 —, origin of.—Weyberg, Z.
 —, Saxony.—Seemann, —; Stutzer, O.; Winkler, M.
 Karakoram Himalaya (Kashmir).—Workman, W. H.
 Karben, Gross (Hesse).—Steuer, A., 2.
 Karroo System, Cape Colony.—Corstorphine, G. S.; Hatch, F. H., 4; Rogers, A. W.

- Karoo System, Transvaal.—Corstorphine, G. S.; Hall, A. L.; Hatch, F. H., 4; Kynaston, H., 2; Mellor, E. T., 1-3.—(Lower) reptilia.—Broom, R., 1-7; Jækel, O.; Seeley, H. G., 1-3.—*See also* Dwyka, &c.
- Kashmir (India).—Clements, H.; Seward, A. C., 3; Wardle, Sir T.; Workman, W. H.
- Katanga (Congo Free State).—Buttgenbach, H., 2, 3, & 5.
- Katuni (Dalmatia).—Kerner, F. von, 3.
- Kazanesd (Hungary).—Lackner, A.
- Kedabeg (Elizabethpol).—Köeller, G.
- Keele Group.—Kidston, R.
- Keewatin (Canada).—Bell, R.
- Kehdinger Moor (Hanover).—Beyschlag, F.
- Keighley (Yorks).—Jowett, A.
- Kellia*.—Clark, W. B.
- Kelloway Rock, German East Africa.—Køert, W.
- Kelty (Fife).—Anon., 29.
- Kennet R.—Salter, A. E.
- Kent.—Anon., 17; Dawkins, W. B.; Dibley, G. E., 1 & 2; Larkby, J. R., 1 & 2; Leach, A. L.; Salter, A. E., 1 & 4; Thompson, R. R.; Whitaker, W., 7; Wilson-Barker, D.; Woodward, A. S., 3.
- Kentucky (U.S.A.).—Fuller, M. L., 2-4; Williams, H. S.
- Kephalonia I. (Ionian Is.).—Keser, J.
- Keramosphæra*.—Stache, G.
- Keratophyre, Bohemia.—Graber, H. V., 2.
- , Wisconsin.—Weidman, S.
- Kerbi R. (Siberia).—Ivanov, M.; Yavorovski, P.
- Kerguelen Land (Antarctic).—Philippi, E., 4.
- Kern Basin, Upper (Cal.).—Lawson, A. C.
- Kerosene-shale, New South Wales.—Pittman, E. F.; *see also* Petroleum, &c.
- Kerunia*.—Nopcsa, F., 2.
- Kesslerloch Cave (Schaffhausen).—Meister, J.
- Keszegfalva (Hungary).—Timkó, E.
- Kettenjura (Switzerland).—Muehler, F.; Wepfer, G.
- Keuper, Chepstow.—Richardson, L., 9.
- , Haute-Saône.—Laurent, A.
- , Worcestershire.—Richardson, L., 6.
- Keuper bone-bed, Bohemia.—Jahn, J. J., 2.
- Marls, colour of.—Moody, G. T.
- transgression, Europe.—Tornquist, A., 5.
- Keweenaw, Lake-Superior region.—Lane, A. C., 2.
- Keynsham (Somerset).—Vaughan, A., 3.
- Khatanga R. (Siberia).—Schmidt, F. von, 4.
- Kiama (N.S.W.).—Jaquet, J. B.
- Kieserite.—Van't Hoff, J. H., 2.
- Kieslingswalde (Silesia).—Sturm, F.
- Kiev Gov. (Russia).—Theophilakov, K.
- Kilauea (Hawaii).—Hitchcock, C. H., 2.
- Kilkee (Clare).—Hind, W., 2.
- Kimberley (Cape Colony).—Bonney, T. G., 9; Buttgenbach, H., 1 & 4; Williams, G. F.
- Kinmeridge Clay, E. Prussia.—Krause, G.
- Kinderhook Creek (N.Y.).—Dale, T. N.
- faunas, Mississippi Valley.—Weller, S., 4.
- shales, Iowa.—Beyer, S. W., 3.
- Kingena*.—Krumbeck, L.
- Kingsbridge (Devon).—Ussher, W. A. E., 1 & 3.
- Kington (Hereford).—Herries, R. S., 2.
- Kirghiz District (Asia).—Jeremina, (Mrs.) E.; Palibin, I. V.
- Kirmington (Lincs).—Stather, J. W.
- Kirn (Rhen.-Pr.).—Chelius, C., 4.
- Kirunavaara (Sweden).—Wilkinson, W. F.
- Klaus-Beds, Carpathian Mts. (S.).—Simionescu, I., 3.
- Klerksdorp (Transvaal).—Molengraaff, G. A. F.
- Klingenthal (Saxony).—Baumgärtel, B., 3; Beck, R., 2.
- 'Klippen,' Alps (W.).—Sandberg, C. G. S.
- , Bohemia—Jahn, J. J.
- , Bukowina.—Vetters, H., 2.
- , Dalmatia.—Schubert, R. J., 4.
- , Lake-Lucerne district.—Tobler, A., 2.
- Klondyke (N.W. Canada).—Obalski, T.; Purington, C. W., 2.
- Kluane, Lake (Yukon Terr.).—Bell, R.
- Knittelfeld (Styria).—Zeleny, V.
- Kniveton (Derby).—Crick, G. C., 2.
- 'Knollensteine.'—Deecke, W., 2.
- Knolls near Rorschach.—Frueh, J.
- Knysna (Cape Colony).—Schwarz, E. H. L., 3 & 4.
- Kochendorf (Württemberg).—Stettner, G.
- Kochites*.—Prinz, G.
- Kola Penin. (Russia).—Hackman, V.
- Kolar goldfield (Mysore).—Smith, A. M.
- Komárom (Hungary).—László, G. von; Timkó, E.
- Königs-Wusterhausen (Brandenburg).—Schroeder, H., 2.
- Koninckophyllum*.—Stuckenberg, A.; Vaughan, A.
- Koninckella*.—Rau, K.
- Korea (Asia).—Bauer, L.; Carles, W. R.; Speak, S. J.
- Korlat (Dalmatia).—Schubert, R. J., 4.
- KORNHUBER, A. *Obit.*—*See* Vacek, M.
- Körös R. (Hungary).—Pálffy, M. von.
- Kosel Mt. (Bohemia).—Færster, B.
- Koslin (Pomerania).—Schneider, O.
- Kostenblatt (Bohemia).—Hibsch, J. E., 2.
- Kostroma (Russia).—Artemiev, D. N.

- Koswite, Urals.—Duparc, L., 4.
 Kotel (Bulgaria).—Bakalow, P.
 Kralup (Bohemia).—Klvaana, J.
Krambergeria.—Simionescu, I.
 Kraanspoort (Transvaal).—Mellor, E. T., 7.
 Kremsmünster (Austria).—Schwab, P. F.
 Kromau (Moravia).—Suess, F. E., 6.
 Kuba (Caucasus).—Volarovitch, P.
 Kuchavelli (Ceylon).—Coomaraswamy, A. K., 2.
 Kuchelbad (Bohemia).—Katzner, F., 2.
 Kühetaier Berg, Eitz Valley, Alps.—Ohnesorge, T.
 Kunzite.—Baskerville, C.
- Labrador (Canada).—Tarr, R. S., 2.
 Labradorite.—Luczizki, W., 2.
 —porphyry, Westphalia.—Leclercq, H.
 Labyrinthodontidae.—Braun, E. B., 2.
 Laccolite, Weitendorf granite (Styria).—Hilber, V.
 Laccolites, Montana.—Pirsson, L. V., 2.
 Lad, Piz (Grisons).—Tarnuzzer, C.
 Lado Enclave (Equatorial Africa).—Preumont, G. F. J.
 Ladrone Is. (Pacific).—Safford, W. E.
 Ladysmith Pit (Cumberland).—Dodds, R., 2.
 Laeken (Brabant).—Halet, F.
 Lagain, Loch an (Sutherland).—Murray, Sir J., 3.
Lagena.—Hucke, W.
Lagenostoma.—Arber, E. A. N., 4; Oliver, F. W.; Scott, D. H., 5.
Lagomys.—Major, C. I. F.
 Lagonegro (Basilicata).—Lorenzo, G. de.
 Lagoons of Lake Upemba (Congo).—Buttgenbach, H., 5; Cornet, J., 4.
 Lagorai, Cima di (Tyrol).—Trener, G. B.
 Lagos (Nigeria).—Bellamy, C. V.; Dunstan, W. B., 7.
Laharpeia.—Prever, P. L.
 Lahore (Panjab).—Moureaux, T.
 Laibach (Carniola).—Kossmat, F.
 Lake-basins, Germany (N.).—Kaunhowen, F., 2.
 Lake-district, Ireland.—Howarth, O. J. R.
 Lake District, minerals of English.—Rudler, F. W., 3.
 Lake, Lisbon Pleistocene.—Hull, E.
 Lake-temperatures, Sweden.—Grenander, S.
 Lakes, Denmark.—Wesenberg-Lund, C.
 —, glacier-bound.—Rabot, C.
 —, Jura ancient.—Bourquet, —, 2.
 —, marine fauna in.—Ochsenius, C., 2.
 —, New York 'finger'.—Dryer, C. R.
 —, Scotland.—Wesenberg-Lund, C.
 —, Silesian ancient.—Friedrich, E. G.
 —, Upsala.—Geer, S. de.
 —. See also Lochs, &c.
 Lamellibranch-shell torsion.—Clarke, J. M., 6.
 Lamellibranchia, Carboniferous.—Frech, F.; Gibson, W., 2; Hind, W., 2; Kenen, A. von, 2; Stobbs, J. T.
 —, Cretaceous.—Dacqué, E.; Dainelli, G., 2; Etheridge, R., *fil.*, 3; Morgan, J. de, 2; Petrascheck, W., 4; Schmidt, F. von, 2; Toucas, A., 1 & 2; Weller, S.; White, C. A., 2; Wilckens, O.; Woods, H.
 —, Devonian.—Loomis, F. B.
 —, Jurassic.—Allen, H. A.; Bellini, R., 3; Benecke, E. W.; Clerc, M.; Dacqué, E., 2; Krumbeck, L.; Lorient, P. de; Vettors, H.; White, C. A., 2.
 —, Ordovician.—Raymond, P. E., 2; Reed, F. R. C.
 —, Permian.—Schmidt, A.
 —, Quaternary.—Jensen, A. S.; Newton, R. B., 4.
 —, Rhætic.—Richardson, L., 3.
 —, Silurian.—Hudson, G. H.
 —, Tertiary.—Bellini, R.; Boehm, J., 4; Cerulli-Irelli, S.; Clark, W. B.; Dainelli, G.; Gregorio, A. de; Hutton, F. W., 3; Newton, R. B., 1, 3, & 6; Osmont, V. C., 2; Park, J.; Weaver, C. E.; White, C. A., 2.
 —, Triassic.—Benecke, E. W., 2; Boehm, J., 1 & 3; Galdieri, A., 2; Picard, E.
Lamna.—Stromer, E., 3.
 Lamprophyre, Sardinia.—Riva, C.
Lampusia.—Newton, R. B., 3.
 Lancashire.—Bolton, H., 2; Dawkins, W. B., 2 & 3; Gerrard, J.; Gibson, W.; Kidston, R.; Reade, T. M.; Woodward, H., 4.
 Land, changes of level.—Jamieson, T. F., 2; Nausen, F.; Négris, P., 1 & 2; Rowe, J. B.; Spencer, J. W., 2; Wilson-Barker, D.; see also Earth-movements.
 —ice, Siberia.—Maddren, A. G.
 —, pre-Southern Atlantic.—Schwarz, E. H. L., 6.
 — & sea, distribution of.—Arltdt, T.
 Landelies (Hainault).—Brien, V., 2.
 Landenian, Hainault.—Rutot, A., 2; see also Tertiary.
 Landes, Les (France).—Labrie, J.
 Landeslut (Silesia).—Schmidt, A., 2.
 Landgraf springs (Homburg v. d. Höhe).—Fresenius, H.
 Landskron (Bohemia).—Tietze, E.
 Landskrona (Scania).—Tarnobohm, E.
 Landslip, Edermannstadt, 1625.—Reindl, J., 3.
 —, Woolhope District.—Moore, H. C., 2.
 Landslips, Mieminger terrace (Tyrol).—Ampferer, O., 2.
 Langogne (Lozère).—Kilian, W., 2.
 Langport (Somerset).—Woodward, H. B., 7.
 Langnedoc (France).—Bergeron, J., 1 & 2; Lévy, Aug. M., 4; Mengel, O.; Nicklès, R., 2; Sayn, G.; Stehlin, H. G., 3.

- Lankoff massif (Tyrol).—Skeats, E. W.
 Lanna (Nerike).—Wiman, C.
 Lannemezan (Hautes - Pyrénées).—Boule, M.
 Lanzo Valley, Piedmont.—Novarese, V.
 Laos, French (Cochinchina).—Gascuel, L., 2.
 Lapland (Swedish).—Bäckström, H.
 Laramie Formation, Wyoming.—Hatcher, J. B.; Lull, R. S.
 Laramie Mts. (Wy.).—Kemp, J. F.
 Larche (Basses-Alpes).—Lévy, Aug. M., 4.
Lasanius.—Traquair, R. H., 6.
 Laterite, Bombay.—Warth, H.
 —, Ceylon.—Dunstan, W. R., 5.
Latimæandra.—Koby, F.
 Laurionite.—Cesàro, G.
 Lautaret Valley (Hautes-Alpes).—Fliche, P., 2.
 Lava-domes, Eifel.—Greenly, E., 2.
 —, —, spray, Java.—Volz, W.
 Laval (Mayenne).—Ehlert, D. P.
 Lavas, Ararat.—Bonney, T. G., 2.
 —, Cairo & Suez.—Barron, T.
 —, Cavan (N.S.W.).—Shearby, A. J., 2.
 —, Ischia.—Dell' Erba, L.
 —, New Zealand.—Rastall, R. H., 2; Sollas, J. W., 2.
 —, Pembrokeshire.—Elsden, J. V., 2.
 —, Santorin.—Lacroix, A., 14.
 —, Vesuvius.—Matteucci, R. V., 1-4.
 Lavernock Point (Glamorgan).—Richardson, L., 3.
 Lawrence Co. (N. Y.).—Logan, W. N.
 Lawsonite.—Schaller, W. T., 4; Termier, P., 2.
 Laziali, Colli (Rome).—Angelis d'Ossat, G. de, 2; Clerici, E.; Verri, A., 2-4.
 Lead, Arkansas.—Adams, G. I.
 —, British Columbia.—Attwood, G.; Robertson, W. F.
 —, Chile.—Labastie, F.
 —, Elba.—Ermisch, K.
 —, Great Britain.—Home Office, 4.
 —, Illinois.—Bain, H. F.
 —, India.—Rudra, S. C.
 —, Missouri.—Ball, S. H.
 —, Murcia.—Pilz, R.
 —, New South Wales.—Pittman, E. F.
 —, Siberia.—Friz, W.; Spring, R., 2.
 —, Silesia.—Guerich, G., 2; Michel, R.; Sachs, A., 2.
 —, Sweden.—Sundbærg, G.
 —, Tunis.—Jecker, L.
 —, Tuscany.—Ermisch, K., 2.
 —, Tyrol.—Rose, —.
 —, United States.—Day, D. T.; Emons, S. F., 2.
 —, Utah.—Boutwell, J. M.
 Leadhillite.—Jecker, L.
 Leads, Victoria deep.—Lindgren, W.
 Leaf-variations, palæobotany &.—Penhallow, D. P.
 Lebanon Mts. (Syria).—Krumbeck, L.
 Lecco (Lombardy).—Wilmer, F.
Leda.—Clarke, E.; Lorient, P. de; Wilckens, O.
 Leeward Is. (W.I.).—Hægbom, A. G., 4.
 Leicestershire.—Davison, C., 3; Roehling, H. A., 1-3; Salter, A. E.; Strangways, C. F., 2; Watts, W. W., 3.
 Leine Valley (Hanover).—Menzel, H.
 Leipa (Bohemia).—Førster, B.; Graber, H. V., 2.
Leipteria.—Stobbs, J. T.
 Leitha-limestone, Moravia.—Rzehak, A.
 Lelant (Cornwall).—Stephens, F. J.
 Lemberg (Galicia).—Láska, W.
 Lemsa (Ufa Gov.).—Krasnopolski, A.
 Lemur, fossil.—Lorenz von Liburnau, L.
 Lena district (Siberia).—Gerasimov, A.
 Lengenbachite.—Solly, R. H.
 Leoben (Styria).—Hofmann, A., 2.
 Leonite.—Van't Hoff, J. H., 2.
Leperditia.—Raymond, P. E., 2.
Lepidocyclina.—Chapman, F.; Lemoine, P., 4 & 5.
Lepidodendron.—Smith, B.
 —, nomenclature of.—Fischer, F.
 Lepidolite.—Bell, R.; Schaller, W. T., 2 & 3.
Lepidophloios.—Weiss, F. E.
Lepidopus.—Bassani, F., 3.
Lepocrinites.—Schuchert, C.
Lepralia.—Clark, W. B.; Neviani, A., 2.
Leptocyathus.—Dennant, J.
Leptophyllia.—Koby, F.; Missuna, A.
Leptoplastus.—Persson, E.
Leptoseris.—Dainelli, G.
 Lerida (Catalonia).—Sauvage, H. E., 2.
 LESLEY, J. P. *Obit.*—See Lyman, B. S.
 Lesménils (Meurthe - et - Moselle).—Zeiller, R., 3.
 Lesse R. (Belgium).—Deladrier, E.
 Lessö I. (Kattegat).—Nordmann, V.
 Letky (Bohemia).—Klvana, J.
 Letterston (Pembroke).—Thomas, H. H., 2.
 Leuca, Cape (Italy).—Dainelli, G., 2.
 Leucas (Greece).—Renz, C.
 Leucite.—Colomba, L.; Langguth, E.
 Leucotephrite, Phlegrean Fields.—Manasse, E.
 Leval (Hainault).—Rutot, A., 1 & 3.
 Lewisham (Kent).—Salter, A. E., 4.
 Leysin (Vaud).—Douvillé, H., 8; Renévier, E.; Rössinger, E.
 Lias, Apennines, central.—Bellini, R., 3.
 —, Brunswick.—Bode, A.
 —, Dorset.—Woodward, A. S.
 —, Gloucestershire.—Richardson, L., 1, 3, & 4.
 —, Greece.—Renz, C.
 —, Hérault.—Nicklès, R., 2.
 —, Hungary.—Aradi, V.
 —, Lombardy.—Cacciamali, G. B., 2.

- Lias, Lorraine & Luxemburg (Duchy of).—Benecke, E. W.
 —, Oxfordshire.—Walford, E. A., 2.
 —, Portugal.—Choffat, P., 2.
 —, Sicily.—Gregorio, A. de, 2.
 —, Somerset.—Woodward, H. B., 7;
 Vaughan, A., 3.
 —, Tuscany.—Fucini, A., 1 & 2; Ugolini, R., 2.
 —, type-specimens.—Allen, H. A.
 —, Yorkshire.—Rastall, R. H.
 —. *See also* Jurassic.
- Libethenite.—Cesàro, G., 2; Lindgren, W., 3; Schaller, W. T., 3.
- Libokwa (Congo Free State).—Preumont, G. F. J.
- Lichas.—Reed, F. R. C.
- Liège (Belgium).—René d'Andrimont, 3; Lespineux, G.; Lohest, M.; Stainier, X.
- Liesing R. (Lr. Austria).—Toula, F., 2.
- Lightning Creek, Cariboo (B.C.).—Atkin, A. J. R.
- Lignite, Dakota (N.).—Wilder, F. A.
 —, Guam I.—Safford, W. E.
 —, Rhenish Prussia.—Velge, G., 1 & 2.
- Liguria (Italy).—Issel, A., 1, 3, & 5; Sacco, F., 5; Taramelli, T., 5.
- Lille (Nord).—Deblon, A.
- Lima. — Böhm, J.; Dacqué, E., 2; Krumbeck, L.; Petrascheck, W., 4; Richardson, L., 3; Wilckens, O.
- Limber, Great (Lincs).—Stather, J. W.
- Limburg (Belgian).—Kräntzel, F.; Lacomble, J.; Mourlon, M., 2; *see also* Campine.
 — (Dutch).—Dewalque, G.; Dabois, E., 1 & 4; Uhenbroek, G. D.; Velge, G., 1-3.
- Limburgite, Paraguay.—Milch, L.
- Limerick (Ireland).—Teall, J. J. H., 2.
- Limestones, Capri Cretaceous.—Angelis d'Ossat, G. de.
 —, Carboniferous. *See* Carboniferous.
 —, crystalline, Ceylon. — Coomaraswamy, A. K., 4.
 —, Minas Geraes.—Hussak, E.
 —, Doubs.—Merle, A.
 —, Düsseldorf Devonian.—Kœnen, K.
 —, Kalstad.—Kiar, J.
 —, Kansas.—Smith, A. J.
 —, Lias.—Woodward, H. B., 7.
 —, Missouri.—Buckley, E. R., 2.
 —, New York.—Hopkins, T. C.; Sarle, C. J., 2.
 —, Ohio.—Prosser, C. S., 2.
 —, Pennsylvania.—Clapp, F. G.
 —, Pyrenees.—Roussel, J., 1 & 3.
 —, Rejstrup.—Madsen, V.
 —, Somaliland.—Newton, R. B., 6.
 —, Virginia.—Campbell, H. D.
 —. *See also* Lithographic, &c.
- Limestone-schist complex, Raspernau.—Richter, K.
- Limmat Valley (Switzerland).—Muehlberg, F.
- Linnicythere.—Lienenklaus, E.; Sieber, —.
- Lincolnshire.—Preston, H.; Stather, J. W.; Woodward, H. B., 9.
- LINDENKOHLE, A. *Obit.*—*See* Ogden, H. G.
- Line-drawing for geological maps, &c.—Daly, R. A.
- Lingula.—Raymond, P. E., 2; Stobbs, J. T.; Wilckens, O.; Wiman, C., 2.
- Lingulosmitia.—Koby, F.
- Lion, cave.—Boule, M., 3; Capitan, L., 4; *see also* *Machairodus*.
- Liopleurodon.—Blake, J. F., 2.
- Lioran (Cantal).—Romeu, A. de.
- Liostrea.—Morgan, J. de, 2.
- Liotina.—Newton, R. B., 6.
- Lipari Is. (Mediterranean).—Anderson, T.; Lacroix, A., 15; Sollas, W. J.; Stark, M.; Yeld, G.
- Lisbon (Portugal).—Delgado, J. F. N., 2; Hull, E.
- Lissens (Ayr).—Smith, J.
- Listriodon.—Ameghino, F., 7.
- Lis-Werry (Mon.).—Richardson, L., 2.
- Lithiotis.—Frech, F., 2.
- Lithium, United States.—Day, D. T.
- Lithium-dum-silicate.—Weyberg, Z., 2.
- Lithocampe.—Clark, W. B.; Squinabol, S., 3.
- Lithodomus.—Krumbeck, L.; Loriol, P. de.
- Lithographic stone, Lerida.—Sauvage, H. E., 2.
- Lithomespilus.—Squinabol, S., 3.
- Lithophaga.—Clark, W. B.; Newton, R. B., 6.
- Lithostrobilus.—Squinabol, S., 3.
- Lithostrotion.—Stuckenbergh, A.
- Lithothamnion, &c., magnesite &.—Vesterberg, A.
- Little Falls (N.Y.).—Cushing, H. P.; Fairchild, H. L.
- Littorina.—Blake, J. F., 2; Morgan, J. de, 2; Howorth, Sir H. H., 3.
 — deposits, Baltic.—Howorth, Sir H. H., 3; Post, L. von.
- Livonia (Russia).—Sodolfski, G.
- Livornese Mts. (Tuscany).—Ugolini, R., ?.
- Llanberis (Caernarvon).—Watts, W. W.
- Llandeilo Group, Merioneth.—Fearn-sides, W. G.
- Llanelly (Caernarvon).—Strahan, A., 3.
- Llanmartin (Mon.).—Richardson, L., 2.
- Llano Co. (Texas).—Hidden, W. E.
- Llanwern (Mon.).—Richardson, L., 2.
- Llynfant, Moel (Merioneth).—Fearn-sides, W. G.
- Loboites.—Jäkel, O., 3.
- Lochs, Scottish freshwater.—Murray, Sir J., 1-3; Peach, B. N., 1 & 2; Wesenberg-Lund, C.
- Lochwitz (Bohemia).—Ziebus, A.
- Loddon R.—Salter, A. E.
- Löss, Iowa.—Beyer, S. W., 3; Willcox, O. W., 1 & 2.
 —, Mississippi Valley.—Shimek, B.
 —, Missouri.—Owen, (Miss) L. A.
 —, origin of.—Wright, G. F.
 —. *See also* Drift, &c.

- Loftahammar (Gothland).—Gavelin, A., 1-3; Holmquist, P. J.
- Loftusia*.—Morgan, J. de, 2.
- Lofty, Mt. (S. Austral.).—Howchin, W.
- Loire Basin (France).—Dollfus, G. F., 2.
- Lojano Hills (Emilia).—Roccati, A., 2.
- Lombardy.—Cacciamali, G. B., 2; Hammer, W., 1 & 3; Prever, P. L., 2; Taramelli, T., 3; Wilmer, F.
- Lomme R. (Namur).—Martel, E. A., 4.
- Lomomys*.—Scott, W. B., 2.
- Long - Kloof Mts. (Cape Colony).—Schwarz, E. H. L., 3.
- Longcliffe (Derby).—Arnold-Bemrose, H. H.
- Longhope (Gloucester).—Callaway, C.
- Longmynd (Salop).—Watts, W. W.
- Lonsdalia*.—Stuckenberg, A.
- Lonzée (Namur).—Rutot, A., 6.
- Lopha*.—Morgan, J. de, 2.
- Lophiotherium*.—Stehlin, H. G., 3.
- Lophoblastus*.—Rowley, R.
- Lophophylloides* & *Lophophyllum*.—Stuckenberg, A.
- Lophospira*.—Raymond, P. E., 2.
- Lorraine.—Bailly, L.; Benecke, E. W.; Cavalier, C.; Laur, F., 1-3; Lucke, O.; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
- Los Is. (French Guinea).—Lacroix, A., 16.
- Lösch (Moravia).—Suess, F. E., 5.
- Lot (France).—Lévy, Aug. M., 4.
- Loughborough (Leicester).—Strangways, C. F., 2.
- Louisiana (U.S.A.).—Fuller, M. L.; Hilgard, E. W.; Veatch, A. C.
- Loup-Fork Beds, Nebraska.—Peterson, O. A.
- Lowestoft (Suffolk).—Harmer, F. W.; Wilson-Barker, D.
- Lorococoncha*.—Lienenklaus, E.
- Loxonema*.—Donald, (Miss) J., 1 & 2; Mariani, E., 1 & 2; Stobbs, J. T.
- Lübbecke (Westphalia).—Schlunck, J.
- Lucca (Tuscany).—Ristori, G.
- Lucerne, Lake of (Switzerland).—Pannekoek, J. J.; Tobler, A., 2.
- Luchon Valley (Pyrenees).—Dop, P.
- Lucina*.—Dainelli, G.; Locard, A.; Morgan, J. de, 2; Newton, R. B., 6.
- Lucy, Mt. (Queensl.).—Dunstan, B.
- LUDLAM collection.—Rudler, F. W., 3.
- Ludlow (Salop).—Elles, (Miss) G. L.; Fortey, C.; Herries, R. S.
- Lugau (Saxony).—Kliver, —; Seebohm, —.
- Lully Limestone, New York.—Loomis, F. B.
- Lund (Scania).—Tørnebohm, E.
- Lüneburg (Hanover).—Mueller, G.
- Lunenburg (Germany).—Gagel, C.
- Lunulicardium*.—Clarke, J. M., 5.
- Lunulites*.—Canu, F.
- Luossavaara (Sweden).—Wilkinson, W. F.
- Luristan (Persia).—Morgan, J. de.
- Lussin I. (Adriatic).—Waagen, L., 2.
- Lutetian, estuarine fauna in.—Cayeux, L., 4; *see also* Tertiary, &c.
- Lutra*.—Matthew, W. D., 4.
- Luz (Hautes-Pyrénées).—Carez, L.
- Luzonite.—Moses, A. J.
- Luxemburg, Duchy of.—Benecke, E. W.
- Lychnocanium*.—Squinabol, S., 3.
- Lycopodites*.—Seward, A. C.
- Lydenburg (Transvaal).—Molengraaff, G. A. F., 2; Thord-Grav, I.
- Lyell, Mt. (Cal.).—Lee, W. T.
- Lyell, Mt. (Tasm.).—Gregory, J. W.
- Lyginodendrea, seeds of.—Arber, E. A. N., 3.
- Lyginodendron*.—Kidston, R., 3; Nathorst, A. G.; Oliver, F. W.; Scott, D. H., 2.
- Lyme Regis (Dorset).—Woodward, A. S.
- Lyriocrinus*.—Hudson, G. H.
- Lyrolepis*.—Romanovski, G. D.
- Lys, R. (France).—Gosselet, J., 2.
- Lytoceras*.—Prinz, G., 2; Simionescu, I., 2; Wunstorff, W.
- Lytocerataidæ, Jurassic.—Buckman, S. S., 2.
- Lyttonia*.—Nætling, F., 3.
- Maâdid, Jebel (Algeria).—Savornin, J.
- MACCALLEY, H. *Obit.*—*See* Smith, E. A.
- MACCLEAN, F. *Obit.*—*See* Marr, J. E.
- Macedonia (Turkey).—Hørnes, R.
- Machairodus*.—Boule, M., 3; Capitan, L., 4; Merriam, J. C., 3.
- Machimosaurus*.—Blake, J. F., 2.
- Mackenzie (Queensl.).—Cameron, W. E.
- MACMAHON, C. A. *Obit.*—*See* Bonney, T. G., 5.
- Macoma*.—Clark, W. B.; Jensen, A. S.
- Macrocephalites*.—Blake, J. F., 2.
- Macrodon*.—Bæhm, J.; Dacqué, E., 2.
- Macromesodon*.—Blake, J. F., 2.
- Macrurus*.—Schubert, R. J., 3.
- Macskamezö (Hungary).—Kossmat, F.
- Mactra*.—Newton, R. B., 3.
- Madagascar.—Baron, R.; Blake, G. S.; Douvillé, H., 2.
- Madeira.—Harcourt, E. V.
- Madeira R. (Bolivia).—Evans, J. W., 9.
- Madras Pres. (India).—Vredenburg, E.
- Madre, Sierra (Mexico).—Hovey, E. O., 2.
- Magaliesberg Range (Transvaal).—Kynaston, H., 4.
- Magdeburg (Prussia).—Jacob, T.; Linstow, O. von.
- Magellania*.—Hutton, F. W., 4.
- Magmas, igneous rock.—Daly, R. A., 2; Ditte, A.; Døltter, C., 1, 2, & 4; Elsden, J. V., 2; Harker, A.; Johansson, H. E., 2; Miers, H. A.; Milch, L., 2; Morozovitch, I., 2; Park, J., 2; Pirsson, L. V.; Romberg, J.; Vogt, J. H. L., 1 & 2; Vukits, B.
- Magnesian rocks, Otago.—Marshall, P. 2.
- Magnesite.—Bæckh, H., 2; Day, D. T.

- Magnetite, *Lithothamnion*, &c., and.—Vesterberg, A.
- Magnetic iron-ore, Caucasus.—Terpigo-rev, A., 2; *see also* Magnetite.
- , surveying.—Uhlich, P.
- survey of Japan.—Tanakadate, A.
- variation, Paris, Lahore earthquake &c.—Moureaux, T.
- Magnetite, Caucasus.—Yachevski, L., 3.
- , Styria.—Zeleny, V.
- , Utah.—Jennings, E. P., 2.
- , Wyoming.—Kemp, J. F.
- Main R. (Germany).—Steuer, A., 3.
- Maine (U.S.A.).—Emmons, S. F., 2; Smith, G. O.
- Mainz Basin (Nassau).—Lienenklaus, E.; Schœndorf, F.
- Majalla, Mte. (Abruzzo).—Cassetti, M., 2.
- 'Majolica'-limestone.—Cacciamali, G. B.
- Malachite.—Buttgenbach, H., 3; Cesàro, G.
- Mälaren Lake (Svealand).—Lœnberg, E., 2.
- Malay Peninsula (Asia).—Dunstan, W. R., 2; Dykes, F. J. B.; Evans, J. W., 3; Fawns, S., 2; Jones, T. R.; Newton, R. B., 2; Scrivenor, J. B., 1, 2, 4, & 5; Taylor, W. T.
- Maldives (Indian Ocean).—Fuchs, T., 4.
- Maldon (Victoria).—Bradford, W.
- Malle Valley (Alpes - Maritimes). — Guébbard, A., 6.
- Malletia*.—Wilckens, O.
- Malmesbury Series.—Hatch, F. H., 4; Rogers, A. W., 4.
- Malmö (Scania).—Tørnebohm, E.
- Malocystites*.—Hudson, G. H.
- Maloja (Grisons).—Finsterwalder, S.
- Mammalia, Cretaceous.—Ameghino, F., 7; Hatcher, J. B.; Lull, R. S.
- , dentition of Patagonian fossil.—Gaudry, A.
- , evolution of fossil.—Boule, M., 4 & 5; Depéret, 2-4; Lankester, E. R.; Osborn, H. F., 11.
- , Jurassic.—Broom, R., 3 & 6.
- , marine fossil.—Fraas, E., 2.
- , Mexican fossil.—Osborn, H. F., 11.
- , perforate astragalus in.—Ameghino, F., 1-6.
- , Quaternary.—Arnold-Bemrose, H. H.; Bate, (Miss) D. M. A., 1 & 2; Furlong, E. L.; Janensch, W., 2; Major, C. I. F.; Munthe, H., 3; Nehring, A.; Reichenau, W. von; Sinclair, W. J., 2; Ussher, R. J.
- , restorations of fossil.—Osborn, H. F., 7.
- , Tertiary.—Abel, O., 1-5; Allen, J. A.; Ameghino, F., 1-6, 8, & 9; Andrews, C. W., 2; Beadnell, H. J. L., 2; Boule, M., 4 & 5; Depéret, C., 1-4; Gaudry, A., 1 & 2; Lambe, L. M., 1, 4, & 5; Loomis, F. B., 2; Lorenz von Liburnau, L.; Lull, R. S., 3; Matthew, W. D., 1-4; Merriam, J. C., 3; Osborn, H. F., 1, 2, 5, & 6; Peterson, O. A., 1 & 2; Pompeckj, J. F.; Schlosser, M.; Scott, W. B., 1-3; Sinclair, W. J., 1-3; Stehlin, H. G., 1-3; Studer, T.; True, F. W.; Vigliarolo, G.
- Mammalia. *See also* Cetacea, *Mastodon*, &c.
- Mammalian carpus & tarsus.—Broom, R., 3.
- palæontology, N. America.—Osborn, H. F., 8.
- Mammoth, Alaska, search for.—Maddren, A. G.
- , Belgian Limburg.—Mourlon, M., 2.
- , Co. Cork.—Ussher, R. J.
- , Northampton.—Thompson, B.
- , Siberia.—Herz, O. F.
- Mamoré R. (Bolivia).—Evans, J. W., 9.
- Man, advent of.—Marsh, D. B.
- , Cheddar.—Davis, H. M.
- , elephant-remains, Dewlish &.—Fisher, O.
- , fossil.—Lankester, E. R.
- , Mentone fossil.—Boule, M., 7.
- , New South Wales.—Etheridge, R., *fl.*, 4.
- , Quaternary.—Schenk, A.; Wilson, J. H.
- , Tertiary.—Branco, W.
- , West Kent prehistoric.—Larkby, J. R., 1 & 2.
- Man, I. of.—Blake, J. F.
- Manatus*.—Abel, O.
- Manchester (Laucs).—Dawkins, W. B., 3.
- Manga Reva Is. (Pacific).—Agassiz, A.; Lévy, Aug. M., 2.
- Mangnese, Ceylon.—Dunstan, W. R., 5.
- , Cuba.—Souder, H.
- , Georgia.—Watson, T. L., 2.
- , Hungary.—Kossinat, F., 3.
- , India.—Rudra, S. C.
- , United States.—Day, D. T.; Emmons, S. F., 2.
- Mangano-ferruginous film on desert rocks.—Lucas, A.
- Mangilia*.—Clark, W. B.
- Mannheim (Baden).—Thuerach, H.
- MANSERGH, J. *Obit.*—*See* Anon., 6.
- Mansfield (Vict.).—Howitt, A. M.
- Manx slates & breccias.—Blake, J. F.

MAPS.

AFRICA (EQUATORIAL).

Congo Free State (N.E.) and Lado Enclave. 1 inch=about 70 miles. 1905.—Preumont, G. F. J.

AFRICA (NORTH).

ALGERIA. Service de la Carte géologique. $\frac{1}{50,000}$ Algiers *bis* & 84. Miliana. 1904.—Ficheur, E., 2 & 3. —. Jebel Maâdid. $\frac{1}{200,000}$ 1904.—Savornin, J.

EGYPT. Fayum Province, $\frac{1}{250,000}$ & Bone-bearing Localities, $\frac{1}{50,000}$ 1905.—Beadnell, H. J. L.

AFRICA (NORTH).

- MOROCCO. $\frac{1}{2,000,000}$ 1905.—Lemoine, P.
 —. Ain Sefra. $\frac{1}{400,000}$ 1905.—
 Levat, D.

AFRICA (SOUTH).

- BECHUANALAND. 1 inch = about 10 miles.—Holmes, G. G.
 —. Kalahari Desert. $\frac{1}{1,000,000}$ 1904.
 —Passarge, S.
 CAPE COLONY. 1 inch = 90 miles.
 1905.—Rogers, A. W., 4.
 —. Aliwal North, Herschel, Barkley East & part of Wodehouse. 1 inch = 4 miles. 1905.—Du Toit, A. L.
 —. Clan William. 1 inch = 4 miles. 1905.—Rogers, A. W., 3.
 —. Van Rhy'n's Dorp, &c. 1 inch = 6 miles. 1905.—Rogers, A. W., 2.
 —. Coalfields. 1 inch = 15 miles & 1 inch = 60 miles. 1905.—Russell, A.
 —. Molteno (E. of). 1 inch = 2 miles. 1904.—Anderson, W.
 —. Priska. 1 inch = 10 miles. 1905.—Schwarz, E. H. L.
 —. Stormberg Beds. 1 inch = about 1 mile. 1905.—Du Toit, A. L.
 —. Willowmore, Uniondale, & Knysna, 1 inch = 12½ miles; & Long-Kloof Mts., 1 inch = 2½ miles. 1905.—Schwarz, E. H. L., 3.
 —, Natal, Orange-River Colony, Transvaal, &c. 1 inch = 78·88 miles. 1905.—Hatch, F. H., 4.

TRANSVAAL. 1 inch = 19·7 miles.

- 1905.—Hatch, F. H., 4.
 —. Amsterdam Valley. 1 inch = about 4 miles. 1905.—Frames, M. E.
 —. Bushveld Tinfields. 1 inch = 2¼ miles. 1905.—Hall, A. L., 3.
 —. Heidelberg, Fortuna Valley. 1 inch = about 1 mile. 1905.—Luttman-Johnson, H.
 —. Klerksdorp. 1 inch = 2 miles. 1905.—Molengraaff, G. A. F.
 —. Kromdraai, 1 inch = 5000 ft.; & Johannesburg, 1 inch = 10,000 ft. 1905.—Sawyer, A. R. See *Geol. Lit.* no. 11, Sawyer, no. 2. 1904.
 —. Lydenburg Goldfields. 1 inch = 8000 yards. 1905.—Thord-Gray, I.
 —. Pretoria. 1¼ inches = 3 miles. 1905.—Hall, A. L.
 —. District diamond-pipes. 1 inch = 2·34 miles. 1904.—Kynaston, H., 5.
 —. Balmoral District Glacial Conglomerate. 1 inch = about 9 miles. 1905.—Mellor, E. T.
 —. & Middelburg Districts, 1 inch = about 2¼ miles; also Pretoria & Waterberg Districts, 1 inch = about 2¼ miles. 1905.—Kynaston, H., 7.

AFRICA (SOUTH).

- TRANSVAAL. Rustenburg District. 1 inch = 4 miles. 1905.—Holmes, G. G., 2.
 —. Springbok Flats. 1 inch = 6 miles. 1905.—Mellor, E. T., 4.
 —. Witswatersrand Goldfield (southern). 1 inch = 3·8 miles. 1905.—Sawyer, A. R. See *Geol. Lit.* no. 11, Sawyer no. 3. 1904.
 —. Zululand, 1 inch = 5 miles; & Melmoth District, 1 inch = 1½ miles. 1904.—Anderson, W.

AFRICA (S.W.), GERMAN. Namieb. $\frac{1}{800,000}$ 1905.—Voit, F. W.

AMERICA (NORTH).

- ALASKA, mineral-deposits. 1 inch = 276 miles. 1905.—Brooks, A. H., 2.
 —, petroleum-fields (*various*). 1905.—Martin, G. C.
 —. Porcupine Placer-District. 1 inch = about 4 miles. 1904.—Wright, C. W.
 —. York District. 1 inch = 15 miles. 1905.—Fawns, S., 2.
 CANADA. Alberta. Costigan Coalfield. 1 inch = ½ mile. 1905.—Bell, R., &c.
 —. British Columbia. Nicola-Valley Coalfield. 1 inch = 1 mile. 1905.—Bell, R.
 —. Nova Scotia. Halifax Co. Moose-River Gold-District. 1 inch = 175 feet. 1905.—Woodman, J. E.
 —. Nictaux & Torbrook Iron-Ore District. 3 inches = about 1 mile. 1905.—Bell, R.
 —. Ontario. Bruce-Mines Bay. 1 inch = 1½ miles. 1905.—Bell, R.
 —. & Quebec. Mica-regions. 1 inch = 3·95 miles. 1905. Cirkel, F., 2.
 —. Quebec. Gaspé-Percé Rock and district. 3 inches = 1 mile. 1905.—Clarke, J. M., 7.
 —. Yukon Terr. Kluane Lake. 1 inch = 6 miles. 1905.—Bell, R.

UNITED STATES.

- (EASTERN) Underground Waters (*various*). 1905.—Fuller, M. L., 3.
 ALABAMA. 1 inch = about 60 miles. 1905.—Lea, S. H.
 —. Mississippi & part of Georgia. 1 inch = 50 miles. 1905.—Eckel, E. C.
 ARKANSAS. Chalk-region. 1 inch = 22 miles. 1905.—Eckel, E. C.
 —. Twin-Lakes area. $\frac{5}{16}$ = 1 mile. 1905. Westgate, L. G.
 CALIFORNIA. Kern Basin (Upper). $\frac{1}{375,000}$ 1904.—Lawson, A. C.
 —. Trinity R. Bragdon Formation. 1 inch = about 7 miles. 1905.—Diller, J. S.
 COLORADO. Gilpin Co. 1 inch = 3150 feet. 1904.—Collins, G. E.

AMERICA (NORTH).

UNITED STATES.

DAKOTA (N.). Lignite-occurrences. 1 inch=30 miles. 1905.—Wilder, F. A.

— (—). Pembina District. 1 inch = about 2 miles. 1905.—Berkey, C. P.

— (S.). Rosebud Indian Reservation. 1 inch=6 miles. 1905.—Reagan, A. B., 4.

GEORGIA. Bauxite-deposits. 1 inch = 6 miles. 1904.—Watson, T. L.

— Cartersville. 1 inch=3 miles; Cave Spring, 1 inch=3 miles. 1904.—Watson, T. L., 3.

— Distribution of Carboniferous strata, 1 inch=7 miles; Coal-Measures of N.W., $1\frac{1}{4}$ inches=3 miles; Relation of Georgia Coalfields to those of Alabama & Tennessee, $\frac{1}{2}$ inch=about $9\frac{1}{2}$ miles; & Round Mt., Walker Co. (Ga.), $\frac{1}{2}$ inch=330 yards. 1904.—Maccallie, S. W.

ILLINOIS (*various*). 1905.—Bain, H. F., 1 & 2.

— & Kentucky Fluorspar-district (*various*). 1905.—Bain, H. F., 2.

— & Missouri. 1 inch=20 miles. 1905.—Eckel, E. C.

INDIAN TERRITORY. Arbuckle Mts. 1 inch = $5\frac{1}{2}$ miles. 1904.—Taff, J. A.

INDIANA & OHIO. 1 inch=45 miles. 1905.—Eckel, E. C.

IOWA. $\frac{3}{8}$ inch=25 miles. 1905.—Eckel, E. C.

— Drift & Solid. 1 inch = 18 miles. (Two maps.) 1904.—Calvin, S.

KANSAS. Iola. 1 inch = 2 miles. 1904.—Adams, G. I., 2.

— Reading Blue Limestone. 1 inch = 4 miles. 1905.—Smith, A. J.

KENTUCKY & TENNESSEE. 1 inch = 50 miles. 1905.—Eckel, E. C.

MAINE. Perry. 1 inch = 2 miles. 1905.—Smith, G. O.

MASSACHUSETTS. Glacial-Lake Sudbury. $\frac{2}{3}$ inch=1 mile. 1905.—Goldthwait, J. W.

MICHIGAN. 1 inch=35 miles. 1905.—Eckel, E. C.

MISSOURI. 1 inch=18 miles. 1904.—Buckley, E. R., 2.

— Miller Co. 1 inch=1 $\frac{1}{2}$ miles. 1903.—Ball, S. H.

MONTANA. Highwood Mts. 1 inch = 4 miles. 1905.—Pirsson, L. V., 2.

NEBRASKA &c. Central Great Plains. 1 inch = 20 miles, & 1 inch = 10 miles. 1905.—Darton, N.

NEVADA. Walker River. 1 inch = about 2 $\frac{1}{2}$ miles. 1905.—Smith, D. T.

NEW HAMPSHIRE. Belknap Mts. 1 inch = 2 miles. 1905.—Pirsson, L. V., 3.

AMERICA (NORTH).

UNITED STATES.

NEW JERSEY. Clay-bearing formations. 1 inch=5 miles. 1904.—Ries, H., &c.

— Clay-formations near Keyport, &c. 1 inch=2000 feet; Middlesex Co. 1 inch=2000 feet; & Distribution of the Alloway Clay. 1 inch = 1 mile. 1904.—Ries, H., 6.

NEW MEXICO. Zuni Salt-Lake. 1 inch=2500 feet. 1905.—Darton, N. H., 3.

NEW YORK. Becraft Mt. 6 inches = 1 mile. 1903.—Grabau, A. W.

— Canandaigua & Naples. 1 inch = 1 mile. 1904.—Clarke, J. M., 8.

— Cayuga Co. Auburn, and region about Union Springs. 1 inch = 1 mile. 1903.—Hartnagel, C. A.

— Elmira, & Walkins districts. 1 inch=1 mile. 1905.—Clarke, J. M., 9.

— Hudson-River Cement-district. 1 inch = 3 miles. 1905.—Eckel, E. C.

— Hudson Valley between the Hoosic R. and Kinderhook. 1 inch = 2 miles. 1904.—Dale, T. N.

— Little Falls. 1 inch=1 mile. 1905.—Cushing, H. P.

— Monroe Co. 1 inch=5 miles. 1904.—Sarle, C. J., 2.

— Olean. 1 inch=1 mile. 1903.—Glenn, L. C., 2.

— Orange Co. Trilobite Mt. 6 inches = 1 mile. 1905.—Shimer, H. W.

— Portage Formation, western. 1 inch = about 8 miles. 1903.—Luther, D. D.

— Rondout. 1 inch = 1 mile. 1903.—Ingen, G. V.

— Salamanca Quadrangle. 1 inch = 1 mile. 1905.—Glenn, J. C.

— Syracuse. 1 inch = 3 miles. 1905.—Fairchild, H. L., 4.

— Tully District. 1 inch=1 mile. 1905.—Clarke, J. M., 10.

OKLAHOMA. Wichita Mts. 1 inch = 3 $\frac{1}{2}$ miles. 1904.—Taff, J. A.

PENNSYLVANIA. Bituminous coal-fields of Pennsylvania. 1 inch = 4 miles. 1904.—Halberstadt, B.

— Lehigh District. 1 inch=2 $\frac{1}{2}$ miles. 1905.—Eckel, E. C.

— (S.W.). 1 inch = 19 miles. 1905.—Clapp, F. G.

TEXAS. 1 inch=54 miles. 1905.—Eckel, E. C.

— El Paso & Reeves Cos. 1 inch = 19 miles. 1905.—Emmons, S. F., 2.

UTAH. Bingham Cañon District. 1 inch = 1700 feet. 1905.—Boutwell, J. M.

AMERICA (NORTH).

UNITED STATES.

VIRGINIA & W. VIRGINIA. 1 inch = 40 miles. 1905.—Eckel, E. C.

WISCONSIN. Baraboo Bluffs. $1\frac{1}{2}$ inch = 1 mile. 1905.—Weidman, S.

— & MINNESOTA. St. Croix River, Dalles. 1 inch = about 3 miles. 1905.—Chamberlin, R. T.

AMERICA (CENTRAL).

MEXICO. Cadereyta. $\frac{1}{200,000}$. 1904.—Villarello, J. D., 2.

— Querétaro. $\frac{1}{200,000}$. 1905.—Villarello, J. D., 4.

— San Luis Potosi. San Pedro District. $\frac{1}{7333}$. 1905.—Laird, G. A.

WEST INDIES. Trinidad (W. part of). 1 inch = about $2\frac{1}{2}$ miles. 1905.—Guppy, R. J. L.

AMERICA (SOUTH).

BRAZIL. Minas Geraes. 1 inch = 50 miles. 1904.—Scott, H. K.

CHILE. Atacama. $\frac{1}{2,000,000}$. 1905.—Yunge, G.

PATAGONIA. $\frac{1}{2}$ inch = about 70 miles. 1905.—Wilckens, O., 3.

PERU. Cajatamba, mineral localities. $\frac{1}{500,000}$. 1904.—Santolalla, F. M.

— Chacas & San Luis. $\frac{1}{500,000}$. 1904.—Dueñas, E. I.

ANTARCTIC REGIONS.

Hoffmings Bay. 1 inch = $1\frac{1}{2}$ miles. 1905.—Nordenskjöld, O.

McMurdo Sound District & Mt. Erebus. 1 inch = 39.45 miles. 1905.—Scott, R. F.

ARCTIC REGIONS.

Ellesmere Land. 1 inch = 70 miles. 1904.—Nathorst, A. G.

ASIA.

ALTAI. Smezhinogorsk. $\frac{1}{150,000}$. 1905.—Spring, R., 2.

INDIA. Assam & Burma. Petroleum. 1 inch = 128 miles. 1905.—Holland, T. H., 2.

— Bengal Coalfields. 1 inch = 12 miles. 1905.—Stonier, G. A., 2.

— Raniganj Section. 1 inch = 1 mile. 1905.—Stonier, G. A.

— Mysore. Kolár Goldfield. 1905.—Smith, A. M.

JAPAN. $\frac{1}{5,000,000}$. 1905.—Tanakadate, A.

— Imperial Geological Survey. $\frac{1}{60,000}$, map.

Zone 3, Col. IV. Sadowara, by T. Iki. 1904.

Zone 5, Col. VII. Murotozaki, by Y. Ōtsuki. 1905.

Zone 7, Col. IX. Toba, by T. Ogawa. 1904.

PERSIA. Luristan, Pish, Kuh. $\frac{1}{757,000}$. 1905.—Morgan, J. de.

SIBERIA. Amur District. Bom R. & Onia R. 1 inch = 5 versts. 1904.—Rippas, P.

ASIA.

SIBERIA. Amur District. Kerbi R. 1 inch = 8 versts. 1904.—Ivanov, M.

— Selemdzha R. 1 inch = 10 versts. 1904.—Khlaponin, A.

— Selemdzha R., Niman R., & Kerbi R. 1 inch = 40 versts. 1904.—Yavorovski, P.

— Léna District. $\frac{1}{84,000}$. Sheet P. 6. 1904.—Gerasemov, A.

— Tomsk Gov., mine map. 1 inch = 530 miles. 1904.—Brown, L. B.

— Yenisei District. $\frac{1}{84,000}$. Sheets L. 6, 8, 9 & K. 7. 1904.—Meister, A. 1 & 2.

TIBET. Tsang & Ü. 1 inch = 32 miles. 1905.—Hayden, H. H.

AUSTRALASIA.

NEW SOUTH WALES. Cowley Yass Co., Parish of Cavan. 2 inches = 1 mile. 1905.—Shearsby, A. J., 2.

— Kiamba & Jamberoo. 1 inch = $\frac{1}{2}$ mile. 1905.—Jaquet, J. B.

— Sydney. 1 inch = $2\frac{1}{2}$ miles, by E. F. Pittman, &c. 1903.—Morrison, M.

QUEENSLAND. Nebo District. 1 inch = 12 miles. 1905.—Cameron, W. E.

SOUTH AUSTRALIA. Happy-Valley District. 1 inch = 1 mile. 1904.—Basedow, H.

— Mount-Lofty District. 4 inches = 1 mile. 1904.—Howchin, W.

TASMANIA. Mount Bischoff. 1 inch = 1,125 feet. 1905.—Fawns, S., 2.

— Mount-Lyell Mining Field. 1 inch = $\frac{1}{4}$ mile. 1905.—Gregory, J. W.

— Mount-Rex Coalfield. 8 inches = 1 mile. 1905.—Twelvetrees, W. H.

— Tamar-River District. $\frac{3}{4}$ inch = 1 mile. 1904.—Twelvetrees, W. H., 3.

VICTORIA. Mansfield phosphate-of-alumina beds. 1 inch = 20 chains. 1905.—Howitt, A. M.

— Pinch-Swamp Creek. 1 inch = $\frac{1}{2}$ mile. 1905.—Copland, M.

WESTERN AUSTRALIA (various). 1904.—Crockett, L. L.

— Goldfields & other Mining districts, by A. G. Maitland. 1 inch = 65 miles. 1904.—Crockett, L. L.

— Mineral locality - map. 1 inch = 75 miles. 1904.—Maitland, A. G., 2 & 4.

— Mount-Margaret Goldfield. Mount Morgans. 1 inch = $\frac{1}{4}$ mile. 1904.—Jackson, C. F. V.

— Murchison Goldfield (various). 1904.—Gibson, C. G.

AUSTRALASIA.

WESTERN AUSTRALIA. North Coolgardie Goldfield. Mulgabbie. 1 inch = $\frac{1}{4}$ mile. 1905.—Jackson, C. F. V.

— Pilbara Goldfield. Bamboo, 2 inches = 1 mile; Yandicoogina, 2 inches = 1 mile; Lalla Rookh, 2 inches = 1 mile; & Moolyella, 2 inches = $\frac{1}{2}$ mile. 1904.—Maitland, A. G., 3.

— Yilgarn Goldfield. Southern Cross. 4 inches = 1 mile. 1904.—Gibson, C. G., 2.

EAST INDIES.

DUTCH EAST INDIES. Borneo (S.E.). Pulo Laut I. $\frac{1}{250,000}$ (part). 1905.—Volz, W., 2.

— (Western). $\frac{1}{500,000}$ & $\frac{1}{100,000}$ (10 sheets). 1904.—Easton, N. W.

— Sumatra (Southern). Barissan Mts., &c. $\frac{1}{1,000,000}$. 1905.—Tobler, A.

EUROPE. Carte géologique internationale de l'Europe. Livr. v. Sheets A. vii, B. vii, C. vii, D. vii, & F. iv. $\frac{1}{500,000}$. 1905.—Beyschlag, F., 2.

ALSACE-LORRAINE. Geological Survey. Blatt no. 65. Buchsweiler. $\frac{1}{25,000}$. 1904.—Van Werveke, L.

AUSTRIA-HUNGARY. K.-k. geologische Reichsanstalt. $\frac{1}{75,000}$.

N.W. group. Zone 6, Col. XVI (no. 40). Schönberg - Mähr. Neustadt. 1905.—Bukowski, G. von, 2.

— Zone 8, Col. XIV (no. 65). Gross-Meseritsch. 1905.—Suess, F. E., 5.

— Zone 9, Col. XIV (no. 75). Trebitsch - Kromau. 1905.—Suess, F. E., 6.

S.W. group. Zone 15, Col. IX (no. 19). Ischl-Hallstadt. 1905.—Mojsisovics, E. von, 2.

— Zone 22, Col. X (no. 98). Haidenschaft-Adelsberg. 1905.—Kossmat, F., 2.

— Zone 25, Col. XI (no. 110). Veglia-Novti. 1905.—Waagen, L., 3.

— Zone 30, Col. XIII (no. 120). Zaravecchia-Stretto. 1905.—Schubert, R. J., 9.

— Bohemia. Jintz-Hostomitz. 1 inch = about 2 miles. 1904.—Liebus, A.

— Mittelgebirge. Sheet XI. Kostenblatt. $\frac{1}{25,000}$. 1905.—Hibsch, J. E., 2.

— Ossegg. Salesiushöhe. $\frac{1}{10,000}$. 1904.—Hæfer, H., 2.

— Raspenau. $\frac{1}{25,000}$. 1904.—Richter, K.

EUROPE.

AUSTRIA - HUNGARY. Bohemia. Wolynka (Volyne) Valley. $\frac{1}{50,000}$. 1904.—Woldrich, J. N.

— & Silesia. 2 inches = about $2\frac{1}{2}$ miles. 1905.—Petrascheck, W., 3 & 5.

— Bukowina. Czarnydil-Gebirge. $\frac{1}{75,000}$. 1905.—Vetters, H., 2.

— Carinthia. Gurk Valley. $\frac{1}{150,000}$. 1905.—Redlich, K. A., 2.

— Stang Alp. $\frac{1}{150,000}$. 1905.—Humphrey, W. A.

— Carniola. 1 inch = 2 miles. 1905.—Mueller, A.

— Dalmatia. Moslacca Canal. 1 inch = about 2 miles. 1905.—Schubert, R. J., 5.

— Mosor Planina. $\frac{1}{75,000}$. 1904.—Kerner, F. von.

— Promina Mt. district. $\frac{1}{250,000}$. 1905.—Schubert, R. J., 6.

— Galicia. Rzeszowa. $\frac{1}{144,000}$. 1903.—Friedberg, W.

— Hungary. Bihar District. 1 inch = about 2 miles. 1905.—Százeczki, J.

— Carpathian Mts. (E.). Hargitta Mt. 1 inch = 18 miles; & Börszékfürdő. $\frac{1}{25,000}$. 1905.—Pály, M. von, 2.

— Macskamező. $\frac{1}{50,000}$. 1905.—Kossmat, F., 3.

— Pesth to Komorn. 1 inch = 16 miles. 1905.—Staff, H. von.

— Transylvania. Ruda. 1 inch = about 1 mile. 1905.—Bauer, J.

— Vashegy. $\frac{1}{25,000}$. 1905.—Böckli, H., 2.

— Moravia. Brünn-Lösch District. 1 inch = about 1 mile. 1905.—Suess, F. E.

— Salzkammergut. Ischl adit. 1 inch = about 545 yards. 1905.—Aigner, A.

— Styria. Radmer. $\frac{1}{25,000}$. 1905.—Redlich, K. A.

— Tyrol. Gross - Venediger. $\frac{1}{125,000}$. 1904.—Weinschenk, E.

BELGIUM. Tectonic map. $\frac{1}{500,000}$. 1905.—Dewalque, G.

— Hainault. Landelies. $\frac{1}{3,200}$. 1905.—Brien, V.

— Liège. Eifelian Fault between Hermalle-sous-Huy & Chokier. $\frac{1}{20,000}$. 1905.—René d'Andrimont, 3.

— & Netherlands. Campine. 1 inch = about 6 miles. 1905.—Dubois, E.

CYPRUS, I. of. 1 inch = $5\frac{1}{2}$ miles. 1905.—Bellamy, C. V., 2.

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FRANCE. Service de la Carte géologique. Carte géologique détaillée de la France. $\frac{1}{50,000}$. Lévy, Aug. M. (Directeur), &c., 4.

195. Figeac. 1904.—By M. Boule, — Mouret, & — Thévenin.

201. Larche. 1904. — By W. Kilian & P. Zurcher.

219. Albi. 1904.—By G. Vasseur, J. Blayac, J. Replin, & J. Bergeron.

— Alpes - Maritimes. Cape Aggio. $\frac{1}{25,000}$. 1904.—Caziot, E.

— Mauvans. $\frac{1}{5,000}$. 1904. —Guébbard, A.

— Monaco, &c. $\frac{1}{400,000}$. 1904.—Bertrand, L.

— Pellegrine, C. $\frac{1}{500,000}$ & $\frac{1}{50,000}$. 1904.—Pellegrine, C.

— Doubs. $\frac{1}{320,000}$. 1905.—Merle, A.

— Isère. Montagne de la Bastille. 1 inch = 4 miles. 1905.—Kilian, W.

— Jura Franc-Comtois. $\frac{1}{1,250,000}$. 1904.—Fournier, A., 2.

— Languedoc, Gard Barremian. $\frac{1}{1,500,000}$. 1905.—Sayn, G.

— Orléanais. Bourges & Sancerre. $\frac{1}{320,000}$. 1905.—Dollfus, G. F., 3.

— Pyrenees (E.). Estagel, &c. $\frac{1}{80,000}$. 1904.—Mengel, O.

— (W.). 1 inch = 16 miles. 1903; also Tarbes & Luz. $\frac{1}{500,000}$. 1904.—Carez, L.

— Yonne. Auxerre, faults & foldings around. $\frac{1}{320,000}$. 1905.—Lemoine, P., 6.

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45. Graben. 1904.—Thuerach, H., 2.

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— Mannheim. River-deposits at $\frac{3}{4}$ inch = 621 yards. 1905.—Thuerach, H.

BAVARIA. Berchtesgaden. $\frac{1}{10,000}$. 1905.—Kohler, E.

— Hohenpeissenberg. $\frac{1}{25,000}$. 1905.—Bartling, R.

— Tegern, Lake. $\frac{1}{25,000}$. 1905.—Fink, W.

— & WÜRTEMBERG. Swabian Danube District. 1 inch = about 200 miles. 1905.—Kranz, W.

EUROPE.

BRUNSWICK. Harzburg. $\frac{1}{50,000}$. 1904.—Erdmannsdorffer, O. H.

HANOVER. Kehdinger Peat-Moor. $\frac{1}{100,000}$. 1905.—Beyschlag, F.

HESSE. Geologische Karte. $\frac{1}{25,000}$. Sheet Birkenau (near Weinheim). 1905.—Klemm, G., 7.

— Sheet Gross - Gerau. 1905.—Steuer, A., 4.

— Guxhagen. $\frac{1}{50,000}$. 1905.—Lang, O.

PRUSSIA. Magdeburg. $\frac{1}{300,000}$. 1905.—Jacob, T.

— O. von. $\frac{1}{800,000}$. 1905.—Linstow,

(E.). Samland moraines. $\frac{1}{100,000}$. 1905.—Krause, P. G.

PRUSSIAN SILESIA. Coalfields. $\frac{1}{400,000}$. 1905.—Geisenheimer, P.

— Sudetic Mts. 1 inch = 10 miles. 1905.—Petrascheck, W., 5.

RHENISH PRUSSIA. Aix-la-Chapelle. 1 inch = 10 miles. 1904.—Holzapfel, E.

THURINGIAN FOREST. Jena. $\frac{1}{25,000}$ & $\frac{1}{150,000}$. 1905.—Walther, K.

WESTPHALIA. Bielefeld - Halle - i. - Westf. $\frac{1}{50,000}$. 1904.—Meyer, E.

— Lübbecke. $\frac{1}{75,000}$. 1904.—Schlunck, J.

WÜRTEMBERG, BADEN, ALSACE, RHENISH BAVARIA, &c. $\frac{1}{800,000}$. 1905.—Regelmann, C.

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- , —, —, Coast-erosion. 1 inch = 60 miles. 1905.—Carey, A. E.
- , —, —, Durham. Pre-Glacial Valleys. 1 inch = 4 miles. 1905.—Woolacott, D.
- , —, —, Gloucestershire. Berrow Hill. 1 inch = 1 mile. 1905.—Richardson, L., 4.
- , —, —, Severn - Valley Alluvium near Gloucester. 1 inch = 2 miles. 1882.—Ellis, T. S.
- , —, —, Merionethshire. Arenig Fawr & Moel Llyfnant. 3 inches = 1 mile. 1905.—Fearnside, W. G.
- , —, —, Norfolk, &c. Glacial deposits (*various*). 1904.—Harmer, F. W., 2.
- , —, —, Northumberland & Durham. $\frac{1}{2}$ inch = 7 miles. 1898.—Galloway, R. L.
- , —, —, Pembrokeshire. St. David's & Strumble Heads. 1 inch = $1\frac{1}{2}$ miles. 1905.—Elsden, J. V., 2.
- , —, —, Post - Carboniferous earth - movements. 1 inch = 28 miles. 1905.—Strahan, A.
- , —, —, Radnorshire. Rhayader District. $1\frac{1}{2}$ inches = 1 mile. 1905.—Lapworth, H.
- , —, —, Somerset. Carboniferous volcanic rocks, Bristol District. 1 inch = 2 miles. 1904.—Morgan, C. L., &c.
- , —, —, Weston-Worle Ridge. 2 inches = 1 mile. 1905.—Sibly, T. F.
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EUROPE.

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EUROPE.

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- Marches, The (Italy).—Cassetti, M., 3; Moderni, P.
- Maremma (Tuscany).—Cortese, E.
- Marelia*.—Airaghi, C.
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- Martinique (W.I.).—Anderson, T., 2; Forel, F. A.; Lacroix, A., 1, 3, 5, 6, & 7; Pélagaud, E.
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- , Moravia.—Maška, K. J.
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- Matto Grosso (Brazil).—Milne, G. T.
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- Mazzanti Quarry (Rome).—Zaccagna, D.
- Méandre (Isère).—Pâquier, V.
- Mecklenburg (Prussia).—Gagel, C., 3
 Geinitz, E., 2; Grønwall, K. A.
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- Medjana (Algeria).—Ficheur, E., 4.
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- Médoc (France).—Degrange-Touzain, A.; Labrie, J.
- Medway R.—Salter, A. E.
- Meekoceras*.—Martelli, A.
- Megaceros*.—Lull, R. S., 3.
- Megaladapis*.—Lorenz von Liburnau, L., 2.
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- Megalodon*.—Bøhm, J.
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- Melania*.—Stanton, T. W.
- Melanophlogite.—Zambonini, F., 3.
- Melanopsis*.—Morgan, J. de, 2.
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- Melaphyre-cylinders.—Klemm, G., 2.
 —, Harz.—Hornung, F.
 —, Hesse.—Schopp, H.
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- Melilite.—Hlawatsch, C.; Zambonini, F., 4.
 — -basalt, Tasmania.—Twelvetrees, W. H., 5.
- Melina*.—Etheridge, R., *fil.*, 3.
- MELION, J. *Obit.*—*See* Tietze, E., 3.
- Melmoth (Zululand).—Anderson, W.
- Meloceras*.—Crick, G. C., 2.
- Melocrinus*.—Talbot, M.
- Membranipora*.—Burrows, H. W.; Canu, F.; Clark, W. B.; Péron, A.
- Mendip Hills (Somerset).—Balch, H. E.
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- Mentor-Beds, Kansas.—Jones, A. W.
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 W. G.; Home Office, 4; Huddart, L.
 H. L.
 Meristina.—Dun, W. S.
 Merkland, Loch (Sutherland).—Murray,
 Sir J., 3.
 Mery-sur-Yonne (Yonne).—Parat, A.
 Merseburg (Germany).—Hasse, E.
 Mersey, R.—Nares, Sir G. S.; Shoobred,
 J. N.
 Merycodus.—Matthew, W. D.
 Mesalia.—Morgan, J. de, 2.
 Mesodesma.—Clark, W. B.
 Mesodon.—Gorjanović-Kramberger, K.
 Meshippus.—Lambe, L. M., 1 & 5;
 Osborn, H. F., 2.
 Mesosaurus.—Broom, R., 4.
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 Messina (Sicily).—La Valle, G.
 Metacheiromys.—Osborn, H. F.
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 J., 5.
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 — schists, Transvaal.—Hatch, F. H.,
 1 & 4.
 Metamorphism, Harz & Hanover.—
 Hornung, F.
 —, igneous rock, deep.—Lévy, Aug.
 M., 3.
 —, rock.—Van Hise, C. R.
 —. See also Contact, §c.
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 Meteoritic iron. See Iron, meteoric.
 Meteorites, Belgian collections of.—
 Dewalque, G., 2 & 4.
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 —, Canada.—Bell, R.
 —, Cañon Diablo.—Moissan, H., 1-3.
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 G. D.
 —, Kentucky.—Tassin, W.
 —, Mexico.—Farrington, O. C.
 —, Missouri.—Ward, H. A.
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 C. H.; White, H. P.
 —, Peramiho.—Berwerth, F.
 —, Rome.—Meli, R.
 —, stony.—Lacroix, A., 8.
 —, Williamette.—Winchell, N. H., 3.
 Metriorhynchus.—Jækel, O., 4;
 Schmidt, W. E.
 Meurthe-et-Moselle (France).—Cavallier,
 C.; Laur, F., 1 & 2; Lucke, O.;
 Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
 Mexico.—Anon., 28; Barriga, M. D.;
 Blake, W. P., 3; Capilla, A., 1 & 2;
 Chance, H. M.; Farrington, O. C.;
 Guild, F. N.; Hovey, E. O., 2; Keyes,
 C. R.; Laird, G. A.; Lozano y Castro,
 M.; Osborn, H. F., 11; Philippe, L.;
 Villarelo, J. D., 1-4; Wittmann, E.
 Mica, Brazil.—Scott, H. K.
 Mica, Canada.—Cirkel, F., 2.
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 1 & 4; Dunstan, W. R., 4 & 5.
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 T. H., 2.
 Mica-schists, Congo Free State.—Preu-
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 E., 2.
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 Russell, I. C., 2.
 Microcline. See Orthoclase.
 Microporella.—Canu, F.; Clark, W. B.
 Microschiza.—Martelli, A.
 Microsolena.—Koby, F.
 Microteron.—Vagliarolo, G.
 Microtragulus.—Ameghino, F., 7.
 Middelburg (Transvaal).—Kynaston, H.,
 7; Mellor, E. T., 8.
 Middlesex.—Salter, A. E.
 Mieminger-Wetterstein Mts. (Tyrol).—
 Ampferer, O., 2.
 Migdale, Loch (Sutherland).—Murray,
 Sir J., 3.
 Migration, evolution &.—Depéret, C.,
 2-4.
 Milford Sound (Otago).—Marshall, P.,
 2.
 Miliana (Algeria).—Ficheur, E., 3.
 Miliolina.—Wójcik, K.
 Milleaster.—Clark, W. B.
 Miller Co. (Mo.).—Ball, S. H.
 Millerite.—Palache, C.
 Milleschau (Bohemia).—Hibsch, J. E., 2.
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 G. A.
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 —, Campania.—Oglialoro-Toda-
 ro, A., 2 & 3.
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 —, —, Phlegrean Fields.—Piutti, A.
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 —, —, Uliveto.—Vinassa de Regny
 P., 3.

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 ———, artificial production of.—Michel, L.
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 ———, British Central Africa.—Dunstan, W. R., 8.
 ———, British Isles.—Rudler, F. W., 3.
 ———, Ceylon.—Coomaraswamy, A. K., 3; Dunstan, W. R., 1-5.
 ———, Côtes-du-Nord.—Brun, P. de.
 ———, druse.—Zambonini, F., 2.
 ———, economic.—Park, J., 4.
 ———, electricity & metalliferous. —Königsberger, J., 2.
 ———, Færøe Is.—Heddle, M. F.
 ———, Gellivaara.—Bygden, A.
 ———, helium in, &c.—Travers, M. W.
 ———, inclusions.—Gaubert, P., 5.
 ———, index of refraction of.—Hotchkiss, W. O.
 ———, melting-points of.—Brezina, Á.; Brun, A.; Døelter, C., 1, 2, & 4; Harker, A., 2; Miers, H. A.; Morozovich, I., 2; Vogt, J. H. L., 1 & 2; Vukits, B.
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 ———, Old Testament.—Jervis, W. P.
 ———, Paris water.—Cayeux, L., 5.
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 ———, Queensland.—Dunstan, B.
 ———, radioactivity of.—Boltwood, B. B., 2; Daune, J.; Mawson, D.; Muñoz del Castillo, J., 1 & 2; Rutherford, E.; Sjøegren, H., 3 & 4; Strutt, R. J., 1 & 2.
 ———, rare-earth.—Baskerville, C., 1-3.
 ———, Rhodesian.—Mennell, F. P., 2.
 ———, separation of.—Hartley, H.
 ———, serpentine-forming.—Bonney, T. G., 8.
 ———, soils &.—Cayeux, L., 1, 3, 6, & 7; Delage, A.; *see also* Soils.
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 ———, Western Australia.—Simpson, E. S.
 ———, Wisconsin.—Hobbs, W. H., 2 & 3.
 Mines, Great Britain, &c.—Home Office, 1-4.
 ———, India.—Grundy, J.
 ———, Transvaal.—Kynaston, H., 2;
 Swinburne, U. P., 1-3.
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 Minette, Aar massif.—Fischer, O.
 ———, Bislich.—Schulz-Brisen, B.
 Mineville (N.Y.).—Ries, H., 2.
 Mingan Is. (Quebec).—Raymond, P. E., 2.
 Minginish (I. of Skye).—Clough, C. T., 2.
 Mining, Argentina.—Hoskold, H.
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 Minnesota (U.S.A.).—Chamberlin, R. T.; Daly, R. A., 2; Fuller, M. L., 2-4; Sardeson, F. W.; Winchell, N. H., 2.
 Miocene, France.—Ameghino, F., 5.
 ———, Galicia.—Friedberg, W.
 ———, Maryland.—Clark, W. B.
 ———, Moravia.—Ržehák, A.
 ———, Oppeln.—Andreae, A.
 ———, Sylt I.—Stolley, J.
 ———. *See also* Tertiary.
Miohippus.—Osborn, H. F., 2.
Miolabis.—Matthew, W. D., 2.
 Mira Grant (Cape Breton).—Gilpin, E., Jun., 2.
 Miseno Crater (Phlegræan Fields).—Lorenzo, G. de, 4.
 Mispickel, Puy-de-Dôme.—Boubée, E.
 Mississippi Valley (U.S.A.).—Emmons, S. F., 2; Fuller, M. L., 2-4; Shimek, B.; Weller, S., 4.
 Missouri (U.S.A.).—Ball, S. H.; Buckley, E. R., 1 & 2; Bush, B. F.; Emmons, S. F., 2; Fuller, M. L., 2-4; Owen, (Miss) L. A.; Rowley, R. R.; Shepard, E. M.; Wheeler, H. A.; Wright, G. F.
 Mitcheldean (Gloucester).—Callaway, C. 3.
Mitra.—Clark, W. B.; Hutton, F. W., 3.
Mitraster.—Spencer, W. K.
Mitrocaprina.—Douvillé, H., 3.
 Mittelgebirge (Bohemia).—Hibsch, J. E., 2 & 3.
 ——— (Hungary).—Bæckh, H.; Stapf, H. von.
Mochlodon.—Nopcsa, F.
 Mocktree Hill (Hereford).—Herries, R. S., 2.
 Modena (Emilia).—Pantaneli, D.
Modiola.—Benecke, E. W.; Brown, T. C.; Krumbeck, L.; Weaver, C. E.
Modiolaria.—Clark, W. B.
Modiolopsis.—Chapman, F.; Hudson, G. H.; Raymond, P. E., 5; Reed, F. R. C.
Modiolus.—Clark, W. B.
 Mödling (Lr. Austria).—Toula, F., 2.
 Møens Klint (Denmark).—Hintze, V., 2.
 Moher (Clare).—Hind, W., 2.
 Moine Gneiss, Perth.—Barrow, G.
 Moiné-Mendia (Basses-Pyrénées).—Terrier, P., 4.
 Molasse, Schaffhausen.—Rollier, L., 5.
 ———, Swabian marine.—Schuetze, E.
 Moldau Valley (Bohemia).—Klvana, J.
 Mole R.—Salter, A. E.

- Molise (Italy).—Fittipaldi, E. U.
 Molle, Ponte (Rome).—Zaccagna, D.
 Molteno (Cape Colony).—Anderson, W.
 Molybdenite.—Lincio, G., 2; Norden-
 skjæld, I.
 Molybdenum, Maine (U.S.A.).—Em-
 mons, S. F., 2.
 Monaco.—Pellegrin, C.
 Monastir (Tunis).—Flick, —.
 Monazite.—Urbain, G.
 —, chemical composition of.—Tcher-
 nik, G. P.
 —, Queensland.—Ball, L. C.; Dun-
 stan, W. R., 9.
 —, United States.—Day, D. T.
 —, Victoria (Austral.).—Copland, M.
 Monazitic sand, Malay States.—Dunstan,
 W. R., 2.
 Monchiquite, New South Wales.—Min-
 gaye, J. C. H., 2.
Monilopora.—Rowley, R. R.
 Monmouthshire.—Richardson, L., 2 & 9;
 Strahan, A., 4.
Monoclonius.—Lambe, L. M., 2.
Monophyllites.—Bøhm, J.
 Monroe Co. (Ind.).—Reagan, A. B.
 — (N.Y.).—Sarle, C. J., 2.
 Mönsterås (Gothland).—Munthe, H., 5.
 Mont-Blanc (Savoy).—Mougin, P.
 Montagne Noire (Languedoc).—Berge-
 ron, J., 1 & 2.
 Montana (U.S.A.).—Douglass, E.; Pirs-
 son, L. W., 1 & 2; Rowe, J. P.; Stan-
 ton, T. W.; Winchell, N. H.
 Monte Carlo (Monaco).—Pellegrin, C.
 Montecarlo (Tuscany).—Ristori, G.
 Montecchio Maggiore (Venetia).—Ferro,
 A. A.
 Montefiascone (Rome).—Fantappiè, L.
 Montenegro.—Del Campana, D.; Mar-
 telli, A., 1 & 2; Nopcea, F., 4.
 Monteregian Hills (Quebec).—Adams,
 F. D.
 Monterey City (Mex.).—Wittmann, E.
 Montian, Hainault.—Rutot, A.; *see also*
 Tertiary.
Montlivaultia.—Koby, F.; Missuna, A.
 Montorfano (Piedmont).—Tacconi, E.
 Montreal (Canada).—Adams, F. D.;
 Buchan, J. S.
 Montreal Mines (Whitehaven).—Brown,
 M. W.
 Monument-Creek Formation.—Darton,
 N. H., 2.
 Monzoni district (Tyrol).—Daelter, C.,
 3; Proboscht, H.
 Monzonite, Montana.—Pirsson, L. V., 2.
 —, Pembrokehire.—Elsden, J. V., 2.
 —, Tyrol.—Proboscht, H.
 Moon, geology of the.—Geikie, Sir A.
 —, volcanic activity in the.—Libert,
 L.
 Moonstone, Ceylon.—Dunstan, W. R.,
 5.
 Moordrift (Transvaal).—Kynaston, H.
 Moors, Holstein.—Wolff, W., 2.
 Moose-River gold-district (N.S.).—
 Woodman, J. E.
 Moraines, Alpine.—Penck, A., 3.
 —, Antarctic.—Ferrari, H. T., 2; Scott,
 R. F.
 —, Baltic terminal, N. Germany.—
 Beyschlag, F.; Howorth, Sir H. H.,
 2; Jentzsch, A.; Keilhack, K., 2;
 Maas, G.; Wolff, W.
 —, Fribourg Alps (Switzerland).—
 Hofmann, W.
 —, glaciers &.—Crammer, H.
 —, Hanover.—Gagel, C.
 —, Prussia (E.).—Krause, P. G.
 —, Schleswig-Holstein.—Gagel, C., 4.
 —, Sweden.—Geer, G. de; Høegbom,
 A. G., 3; Munthe, H.
 Moravia (Austria).—Bukowski, G. von,
 2 & 4; Kretschmer, F., 1 & 2; Remeš,
 M.; Ržehák, A., 3; Suess, F. E., 1-6;
 Tietze, E.
 Moray Firth (Scotland).—Jamieson, T.
 F.; Traquair, R. H., 4.
 Morea (Greece).—Deprat, J.
 Morenci (Ariz.).—Lindgren, W., 2 &
 3.
 Morencite.—Lindgren, W., 3.
 MORGAN, J. de, Persian Expedition.—
 Douvillé, H., 7; Morgan, J. de.
 Morgan Mt., Queensland.—Dunn, E. J.
 Morgans, Mt. (W. Austral.).—Jackson,
 C. F. V.
 Morocco (Africa).—Brives, A.; Fischer,
 T.; Gentil, L., 1, 3, & 4; Lemoine, P.,
 1-3; Levat, D.; Meunier, S., 6;
 Ržehák, A., 2.
 Morococha (Peru).—Masias, M. G., 2.
 Moros R. (Transylvania).—Roth von
 Telegd, L.
Morosaurus.—Osborn, H. F., 10.
 Morrissey Collieries (B.C.).—Ashworth,
 J., 2.
 Morrone, Mte. (Abruzzo).—Cassetti, M.,
 1 & 2.
 Morvan (France).—Lévy, Alb.
 Morvern (Argyll).—Stracey, B.
Mosaurus.—Woodward, A. S., 3.
 Mosbach (Nassau).—Reichenau, W.
 von.
 Moser (Dalmatia).—Kerner, F. von.
 Mounds, basalt, District of Columbia.—
 Piper, C. V.
 —, natural, Arkansas.—Purdue, A. H.,
 2.
 —, —, California.—Branner, J. C.;
 Hilgard, E. W.; Veatch, A. C.
 Mount-Torlesse Annelid.—Bather, F. A.
 Mountain crest-lines, California.—Gil-
 bert, G. K., 2.
 — structure.—Willis, B.
 Mountains, erosion of.—Daly, R. A., 3.
 —, origin of.—Avebury, Lord; Burck-
 hart, C.; Deeley, R. M.; Wepfer, G.
 —, Silesian.—Frech, F., 6.
 Moutier (Berne).—Rollier, L., 6.
Mucronata - Chalk, with microscopic
 vegetation.—Reinsch, P. F.
 Mud-tracks, fossil.—Capeder, G., 3.
 Mud-volcanoes, Baku.—Goloobyatnikov,
 D. V., 2.

- Mugodjar Mts. (Kirghiz District).—Jeremina, (Mrs.) E.
 Mulgabbie (W. Austral.).—Jackson, C. F. V.
 Mull, I. of (Hebrides).—Stracey, B.
 Münster (Westphalia).—Schulz-Brisen, B.
 Muotta Valley (Schwytz).—Rahir, E., 2.
Murænosaurus.—Blake, J. F., 2.
 Murchison goldfield (W. Austral.).—Gibson, C. G.
 Murchison Range (Transvaal).—Meren-sky, H., 2.
Murchisonia.—Donald, (Miss) J., 2.
 Murcia (Spain).—Pilz, R.
Murex.—Locard, A.
 Murotozaki (Japan).—Ôtsuki, Y.
 Mürzzuschlag (Styria).—Mojsisovics, E. von.
 Museum, American Natural History, New York.—Hay, O. P.
 —, British Natural History.—Lomas, J.
 —, Budapest University Geological.—Koch, A., 2.
 —, Caen Natural History.—Bigot, A., 6.
 —, Humfredianum.—Sherborn, C. D., 1 & 2.
 —, Ludlow Natural History Society's.—Forte, C.
 —, New York State, Albany.—Clarke, J. M., 1, 2, & 11; Ellis, (Miss) M.; Merrill, F. J. H., 3; Whitlock, H. P.
 —, Philadelphia Academy of Natural Sciences.—Johnson, C. W.
 — of Practical Geology, London.—Allen, H. A.; Lomas, J.; Teall, J. J. H., 1 & 2; Rudler, F. W., 3.
 —, U. S. National, Washington, types.—Merrill, G. P.; Rathbun, R.; Schuchert, C., 3.
 —, Victorian National, Melbourne.—Chapman, F., 4 & 5.
 Museums, Belgian, meteorites in.—Dewalque, G., 2 & 4.
 —, Canadian & United States Natural History.—Merrill, F. J. H., 2.
 Musk-ox, Gothland.—Munthe, H., 3.
Myalina.—Stobbs, J. T.
Myliobatis.—Bassani, F., 3; Stromer, E., 1-3; Thomas, P.
Myiodon.—Scott, W. B.
Myriacaulus.—Woodward, A. S.
 Myriapoda, Carboniferous.—Woodward, H., 4.
 Mysore (India).—Smeeth, W. F.; Smith, A. M.; Wetherell, E. W., 3.
Mytilus.—Benecke, E. W., 2; Gregorio, A. de; Krumbeck, L.; Loriol, P. de; Wilckens, O.
 Mzensk (Orel).—Tchirvinski, P. N.
 Nagato (Japan).—Yokoyama, M.
 Nahe R. (Germany).—Chelius, C., 4.
 Namaqualand Schists.—Rogers, A. W., 4.
 Namaqualand Series.—Hatch, F. H., 4.
 Namieb (S.W. Africa).—Voit, F. W.
 Namur (Belgium).—Rahir, E.; Rutot, A., 6.
Nanno.—Whiteaves, J. F.
Nannolytoceras.—Buckman, S. S., 2.
Nanopus.—Matthew, G. F., 2.
 Nantucket I. (Mass.) shore - lines.—Gulliver, F. P., 3.
 Naples (Italy).—Bellini, R.; Guenther, R. T.; Lorenzo, G. de, 3.
 Naples (N.Y.).—Clarke, J. M., 8.
 Naples Fauna, Portage Group, N.Y.—Drevermann, F.
 Nardó (Apulia).—Bassani, F., 3.
 Narvik (Norway).—Wilkinson, W. F.
 Nassau (Germany).—Fresenius, H., 1 & 2; Heinrich, F., 1 & 2; Reichenau, W. von; Reinach, A. von; Schen-dorf, F.; Steuer, A., 3.
 Natal (S.A.).—Anderson, W.; Corstor-phine, G. S.; Hatch, F. H., 4; Seward, A. C., 2.
Nathorstites.—Bøhm, J., 1 & 3.
Natica.—Blake, J. F., 2; Deninger, K.; Krumbeck, L.; Locard, A.; Péron, A.; Wilckens, O.
Naticopsis.—Stobbs, J. T.
 Natrojarosite.—Hillebrand, W. F., 3.
 Nauders (Tyrol).—Suess, E.
 Nauru I. (S. Pacific).—Power, F. D.
Nautilus.—Blake, J. F., 2; Dacqué, E., 2; Krumbeck, L.; Simionescu, I., 2.
 Neath (Glamorgan).—Strahan, A., 3.
 Nebo (Queensl.).—Cameron, W. E.
 Nebraska (U.S.A.).—Darton, N. H.
 Nebular theory, earth &.—Mistockles, N.
 Neckar R. (Germany).—Steuer, A., 3.
Necrolestes.—Scott, W. B., 2.
 Neisse Valley (Silesia).—Petrascheck, W., 5.
 Neocomian, Kaltenleutgeben (Lr. Austria).—Richardz, P. S.
 —, Russia.—Pavlov, A. P.
 —. See also Cretaceous, 'Majolica' - limestone, §c.
Neomicrobis.—Rovereto, G., 2.
Neonematherium.—Ameghino, F., 7.
Neoreomys.—Scott, W. B., 2.
Neosqualodon.—Piaz, G. dal.
 Nepheline-rocks, Baden.—Wilckens, O., 2.
 — —, Bohemia.—Cornu, F., 2.
 — —, Finland.—Hackman, V.
 — —, French Guinea.—Lacroix, A., 16.
 — —, Montreal.—Adams, F. D.
 — —, Phlegrean Fields.—Manasse, E.
 — —, Tahiti.—Lacroix, A., 3.
 Nephrite.—Berwerth, F., 2; Kalkowsky, E.; Kunz, G. F.
 Neponset Valley (Mass.).—Crosby, W. O.
Neptunea.—Newton, R. B., 3.
 Neptunite.—Wallenström, A.
Neptunus.—Woodward, H., 3.

- Nerike (Sweden).—Sjögren, H., 4 ;
Wiman, C. ; *see also* Örebro.
- Nerinaea*.—Blake, J. F., 2 ; Fittipaldi,
E. U. ; Krumbeck, L.
- Nerita*.—Fittipaldi, E. U. ; Krumbeck,
L. ; Locard, A. ; Péron, A. ; Schuetze,
E.
- Nerrena goldfield (Victoria).—Bradford,
W., 2.
- Netherlands.—René d'Andrimont, 1, 2,
& 4 ; Uhenbroek, G. D.
- Nettie Lead-Mines (B.C.).—Attwood,
G.
- Nettlingen (Brunswick).—Wollemann,
A.
- Neuchâtel (Switzerland).—Clerc, M. ;
Juillerat, E.
- Neuffen (Württemberg).—Branco, W., 2 ;
Stremme, H.
- Neurode (Silesia).—Schröder, H.
- Neuropteris*.—Scott, D. H., 1 & 2.
—seeds.—Kidston, R., 2 ; Zaleski,
M. D., 2.
- Neustadt (Moravia).—Bukowski, G. von,
2 & 4.
- Nevada (U.S.A.).—Emmons, S. F., 2 ;
Maguire, — ; Merriam, J. C., 1 & 2 ;
Smith, D. T. ; Spurr, J. E. ; Reid, J.
A.
- Nevada, Sierra (Cal.).—Gilbert, G. K., 1
& 2 ; Turner, H. W.
- New Brunswick (Canada).—Bailey, L.
W. ; Bell, R. ; Ganong, W. F.
- New Caledonia (Pacific).—Deprat, J., 4
& 7.
- New-Cove Quarries, Dumfries.—Anon.,
25.
- New-Cross railway-cutting (L. B. &
S. C. R.).—Robarts, N. F., 2 & 3.
- New England (N.S.W.).—Andrews, E.
C.
- New Hampshire (U.S.A.).—Hitchcock,
O. H. ; Pirsson, L. V., 3.
- New Jersey (U.S.A.).—Eastman, C. R.,
1 & 2 ; Fuller, M. L., 2-4 ; Kummel,
H. B., 1-3 ; Peck, F. B. ; Prather, J.
K. ; Ries, H., 4 & 6 ; Spencer, A. C. ;
Vermeule, C. C. ; Weller, S., 1 & 2 ;
Wieland, G. R., 2.
- New Madrid (Mo.).—Shepard, E. M.
- New Mexico (U.S.A.).—Brady, F. W., 1
& 2 ; Darton, N. H., 3 ; Emmons, S.
F., 2 ; Jewett, J. J. ; Keyes, C. R.,
1-4 ; Ogilvie, I. H., 2 ; Tight, W. G.,
3.
- New South Wales.—Blair, D. K. ;
Etheridge, R., *fil.*, 1, 2, & 4 ; Fawns,
S., 2 ; Jaquet, J. B. ; Mingaye, J. C.
H., 1 & 2 ; Parton, T. ; Pittman, E.
F. ; Shearsby, A. J., 1 & 2 ; *see also*
Basalt, Coal, &c.
- New York (U.S.A.).—Bishop, I. P. ;
Butts, C. ; Clarke, J. M., 1-4, 8-11 ;
Cushing, H. P. ; Dale, T. N. ; Dickin-
son, H. T. ; Drevermann, F. ; Dryer,
C. R. ; Ellis, (Miss) M. ; Emmons, S.
F., 2 ; Fairchild, H. L., 1 & 4 ; Fuller,
M. L., 2-4 ; Glenn, L. C., 1 & 2 ;
Grabau, A. W., 1 & 2 ; Hartnagel, C.
A., 1 & 2 ; Hobbs, W. H., 4 ; Hopkins,
T. C. ; Hudson, G. H. ; Ingen, G. V. ;
Logan, W. N. ; Loomis, F. B. ; Luther,
D. D. ; Matthew, G. F. ; Merrill, F.
J. H., 1-3 ; Peet, C. E. ; Raymond,
P. E., 2 ; Ries, H., 1 & 2 ; Ruede-
mann, R. ; Sarle, C. J., 1 & 2 ;
Schneider, P. F. ; Shimer, H. W. ;
Smyth, C. H., Jun. ; Talbot, M. ; Tarr,
R. S., 1 & 2 ; Whitlock, H. P., 1 &
2.
- New Zealand.—Bather, F. A. ; Böhm,
J., 5 ; Clarke, E. ; Grosser, P. ; Hayes,
J. ; Hill, H., 1 & 2 ; Hogben, G., 1-4 ;
Hogg, E. G. ; Hutton, F. W., 2-4 ;
Macgowan, J., 1 & 2 ; Marshall, P.,
1 & 2 ; Park, J., 1, 3, & 4 ; Paul, M. ;
Peck, W. ; Rastall, R. H., 2.
- Newbridge goldfield (Victoria).—
Hunter, S. B.
- Newcastle (Ont.).—Wilson, A. W. G., 2.
- Newcastle-under-Lyme Group.—Kid-
ston, R.
- Newfoundland.—Howley, J. P.
- Newport (Mon.).—Strahan, A., 4.
- NEWTON, E. T. *See* Anon., 14.
- Niagara formation, Ontario.—Grant, C.
C.
- Nice (Alpes-Maritimes).—Bertrand, L.,
8.
- Nickel, Hungary.—Gesell, A.
—, Ontario.—Dickson, C. W.
—, Oregon, &c.—Jamieson, G. S.
- Nicola Valley (B.C.).—Bell, R.
- Nicoria*.—Hooley, R. W.
- Nictaux R. (Nova Scotia).—Bell, R.
- Niederfellabrunn, &c. *See* Fellabrunn,
Lower, &c.
- Nigeria (Africa).—Dunstan, W. R., 7 ;
Fawns, S., 2 ; Hubert, H. ; Newton,
R. B. ; Parkinson, J., 2.
- Nijni-Tagil (Perm).—Spring, R.
- Nijni-Udinsk-Tomsk Section, Siberian
Ry.—Friz, W.
- Nile R. (Lado Enclave).—Preumont, G.
F. J.
- Nile Valley (Egypt).—Beadnell, H. J.
L., 1 & 2 ; Lucas, A.
- Nileus*.—Schmidt, F. von.
- Nilssonia*.—Yokoyama, M.
- Ninan R. (Siberia).—Yavorovski, P.
- Niobrara Group, Kansas.—Wieland, G.
R.
- Nipadites*.—Bonnet, E.
- Nipped seams, Saare Coalfield.—Kohler,
E.
- Nodules, Mekran-coast Tertiary.—New-
ton, R. B., 3.
- , shale, &c.—Smith, J., 2-4.
- NETTLING'S shell-torsion law.—Clarke,
J. M., 5.
- Noirmoutier, I. of (Vendée).—Bonnet,
E., 2.
- Nol (Gothland).—Munthe, H., 3.
- Norberg (Svealand).—Wilkinson, W. F.
- Nord (France).—Cornet, J., 5 ; Deblon,
A. ; Gosselet, J., 3.

- Nördlingen (Bavaria).—Oberdorfer, R.; Reindl, J., 3; Sieber, —.
- Norfolk.—Bonney, T. G., 7; Harmer, F. W., 1-3; Howarth, Sir H. H., 3; Woodward, B. B.
- Norite, Pembrokehire.—Elsden, J. V., 2. —, Transvaal.—Kynaston, H., 1 & 4. —, Urals.—Duparc, L., 4.
- Norite-diorite, Borneo.—Easton, N. W. —. *See also* Quartz, &c.
- Normandy (France).—Bigot, A., 2-5; *see also* Calvados.
- Norrbottn (Sweden).—Bækstrøm, H.; Bygdén, A.; Wilkinson, W. F.
- NORTH, F. W. *See* Anon., 15.
- North Pole, improbability of land at the.—Spencer, J. W., 4; *see also* Arctic.
- Northampton.—Thompson, B.
- Northampton Sands.—Buckman, S. S.
- Northumberland.—Goodchild, J. G., 5; Lebour, G. A., 2; Lespineux, G., 2; Woolacott, D.
- Northupite.—Penfield, S. L., 2.
- Norton (Leicester).—Roehling, H. A., 2.
- Norway.—Monckton, H. W.; Nansen, F.; Simmersbach, B., 2; Sjøgren, H., 2 & 3; Reusch, H., 1 & 2.
- Norwich.—Harmer, F. W.
- Nothrotherium*.—Sinclair, W. J., 2.
- Notidanus*.—Bassani, F., 5.
- Notoamphicyon*.—Ameghino, F., 7.
- Nottinghamshire.—Strangways, C. F., 2.
- Noumeite. *See* Garnierite.
- Nova Scotia (Canada).—Bell, R.; Gilpin, E., Jun., 1-3; Woodman, J. E.
- Novi (Croatia).—Waagen, L., 3.
- Novigrad (Dalmatia).—Schubert, R. J., 6.
- Novograd-Volynsk (Volhynia).—Tarasenkov, V.
- Nubian Sandstone, Egypt.—Stromer, E., 4.
- Nucula*.—Loomis, F. B.; Martelli, A.; Stobbs, J. T.; Wilckens, O.
- Nuculana*.—Stobbs, J. T.
- Nummulites*.—Gentile, G.; Lister, J. J., 1 & 2; Prever, P. L., 1 & 2.
- Nurra (Sardinia).—Viola, C., 2.
- Nū Shima I. (Pacific).—Milne, J.
- Nyctophus*.—Bassani, F., 3.
- Nylstroom (Transvaal).—Kynaston, H., 6.
- Nymphaster*.—Spencer, W. K.
- Oaks View (Queensland).—Ball, L. C., 2.
- Oamaru (N.Z.).—Bøhm, J., 5.
- Oamaru Series, New Zealand.—Park, J., 1 & 3.
- Oaxaca (Mex.).—Chance, H. M.
- Oban Hills (S. Nigeria).—Parkinson, J., 2.
- Oberdorf (Soleure).—Rollier, L., 4.
- Obodus*.—Wiman, C., 2.
- Ocean I. (S. Pacific).—Power, F. D.
- Oceanic deposits.—Anon., 30; Klotz, O.; Van't Hoff, J. H., 2-6.
- Oceanic mineral matter.—Salisbury, R. D., 2.
- Oceans, bathymetric map of the.—Margerie, E. de.
- Ochre-deposits, yellow, Georgia.—Watson, T. L., 3.
- Ocotlan (Mexico).—Chance, H. M.
- Octahedrite. *See* Anatase.
- Octomyodon*.—Ameghino, F., 7.
- Oculina*.—Dennant, J.
- Odenwald (Hesse).—Chelius, C., 2.
- Odontaspis*.—Stromer, E., 3.
- Odostomia*.—Clark, W. B.
- Œcoptychius*.—Lissajous, —.
- Œcotraustes*.—Buckman, S. S.; Simionescu, I., 2.
- Øland I. (Baltic).—Atterberg, A., 2; Nilsson, A.
- Ølsnitz (Saxony).—Kliver, —; Seebohm, —.
- Ørebro (Sweden).—Blomberg, A.
- Etz Valley (Tyrol).—Hezner, L.; Ohnesorge, T.
- Offenbach (Hesse).—Schauf, W.; Steuer, A., 2.
- Ogygia*.—Schmidt, F. von.
- Ohio (U.S.A.).—Eno, F. H.; Færste, A. F., 1 & 2; Fuller, M. L., 2-4; Prosser, C. S., 2 & 3.
- Ohm Valley (Hesse).—Muenster, H., 1 & 2.
- Oioceros*.—Schlosser, M.
- Oisans glaciers (Cotlean Alps).—Jacob, C., 3.
- Oise, Dep. (France).—Meunier, S.
- Ojocaliente (Zacatecas).—Lorzano y Castro, M.
- Oklahoma (U.S.A.).—Taff, J. A.
- Olary (S. Austral.).—Woolnough, W. G.
- Old Red Sandstone, Moray Firth.—Traquair, R. H., 4.
- Old Testament, metals & minerals referred to in the.—Jervis, W. P.
- Oldendorf (Westphalia).—Schlunck, J.
- Oldhamina*.—Nøtting, F., 3.
- Olean (N. Y.).—Butts, C.; Clarke, J. M., 4; Glenn, L. C.
- Olenellus*, zone, Scandinavia.—Wiman, C., 2.
- Olenus*.—Persson, E.
- Olifant's River (Transvaal).—Kynaston, H., 6; Mellor, E. T., 3; Rogers, A. W., 2.
- Oliva*.—Clark, W. B.
- Olivine, Montefiascone.—Fantappiè, L.
- Olophrum*.—Mjøberg, E., 2.
- Omnatocarcinus*.—Hall, T. S., 2.
- Oneida Co. (N. Y.).—Fairchild, H. L.; Smyth, C. H., Jun.
- Onondaga Co. (N. Y.).—Hopkins, T. C.
- Ontario (Canada).—Bell, R.; Daly, R. A., 2; Dickson, C. W.; Grant, C. C.; Wilson, A. W., 1 & 2.
- Onychocardium*.—Whitfield, R. P.

- Oolite, Bedfordshire.—Woodward, H. B., 6.
 —, Durdham Downs.—Short, A. R.
 —, Oxfordshire.—Walford, E. A.
 —, Somerset.—Tutcher, J. W.
 Oolitic iron-ore, Lorraine.—Bailly, L.
 — limestone, Congo Free State.—
 Preunont, G. F. J.
 Ooze, Atlantic.—Anon., 30; Bruce, W. S.
 —, Pacific.—Fuchs, T., 4 & 7; Klotz, O.
Ophiopsis.—Gorjanović-Kramberger, K.
 Ophir (Africa).—Braga, E.
 Oplitic rocks, Apennine Cretaceous.—
 Sacco, F., 5.
 —, coarseness of.—Lane, A. C.
 Ophiuridæ, Devonian.—Bather, F. A., 2.
Oppelia.—Collet, L. W.; Simionescu, I., 2.
 Oppeln (Silesia).—Andreæ, A.; Flegel, K., 2.
 Oran (Algeria).—Gentil, L., 2; Levat, D.; Thévenin, A.
 Orange-River Colony (S. A.).—Hatch, F. H., 4; Jorissen, E.; Philipp, E., 4; Watermeyer, F. S.
Orbicella.—Felix, J., 2.
 Orbicular granite. — Bækstrøm, H.; Rimann, E.
 — tuff, Arizona.—Blake, W. P., 4.
Orbiculoidea.—Stobbs, J. T.
 ORBIGNY'S, A. D', 'Moll. Viv. et Foss.', &c., dates of publication.—Sherborn, C. D., 1 & 2.
Orbitoides.—Checchia-Rispoli, G., 2; Grossouvre, A. de; Schlumberger, C.
 — limestone, Isère.—Pâquier, V.
Orbitolina.—Douvillé, H., 5.
 Orbitolinida, Prever, P. L., 3.
 Ordovician, Brittany.—Bigot, A.
 —, Canada & New York.—Raymond, P. E., 2; Ruedemann, R.
 —, Gothland.—Persson, E.
 —, Indiana & Ohio.—Færste, A. F., 1 & 2.
 —, Merioneth.—Fearnside, W. G.
 —, Pembrokehire.—Reed, F. R. C.
 —, Victoria.—Chapman, F.
 Ore-deposits, Comstock Lode.—Reid, J. A.
 —, contact-metamorphism &—
 Ermisch, K., 2; Turner, H. W.; Van Hise, C. R. See also Contact, &c.
 —, Great Britain & Ireland.—
 Home Office, 1-4.
 —, Hungary.—Posewitz, T.
 —, origin of.—Behmer, M.; Gillette, H. P.; Lindgren, W., 2; Prichard, W. A.; Van Hise, C. R.
 —, Peru.—Denegri, M. A.
 —, possible natural transport of.
 —Launay, L. de, 2.
 —, Silesia.—Guerich, G., 2; Michel, R.; Sachs, A., 2.
 —, surface-indications of.—
 Lakes, A., 2.
 —, valuation of.—Park, J., 4.
 Ore, Loch (Fife).—Anon., 29.
 Ore Valley (Western Bothnia).—Hæg-
 bom, A. G., 2.
 Oregon (U.S.A.). — Branner, J. C.;
 Emmons, S. F., 2; Jamieson, G. S.;
 Louderback, G. D.; Russell, I. C., 3.
 O'REILLY, J. P. *Obit.*—See Anon, 8;
 Cole, G. A. J., 2; Seymour, H. J.
 Orel Gov. (Russia).—Tchirvinski, P. N.
 Oriolo (Calabria).—Crema, C.
 Ormara headland (Mekran coast). —
 Woodward, H., 3.
 Ornato, Mte. (Apuan Alps).—Vaglini,
 C.
 Orography, Asia (E.).—Hobbs, W. H.
 —, experimental.—Avebury, Lord.
 —. See also Mountain-structure, &c.
Orometopus.—Wiman, C.
Orophocrinus.—Rowley, R. R.
 Oroville (Cal.).—Knox, N. B.
Orthidium.—Raymond, P. E., 2.
Orthis.—Chapman, F.; Dun, W. S.;
 Raymond, P. E., 2; Reed, F. R. C.
Orthoarthrus.—Ameghino, F., 7.
Orthoceras.—Hind, W., 2; Stobbs, J.
 T.
Orthochætus.—Morgan, J. de, 2.
 Orthoclase.—Gonnard, F.
Orthodesma.—Reed, F. R. C.
Orthodolops.—Ameghino, F., 7.
Orthophlebia.—Bode, A.
Orthophragmina.—Prever, P. L., 1 & 2;
 Schlumberger, C.
 Ortiz Mts. (New Mexico).—Ogilvie, I. H.,
 2.
 Ortler (Tyrol).—Hammer, W., 1 & 3.
 Oruro (Chile).—Avalos, C. G.
 Orvieto (Umbria).—Vinassa de Regny,
 P.
Orycteropus.—Ameghino, F., 6.
 Osamka (Perm).—Duparc, L.
 Oskarshamn (Gothland).—Svedmark, E.,
 2.
 Osmosis, ore-formation &.—Gillette, H.
 P.
Osmunda.—Stanton, T. W.
 Ossegg (Bohemia). — Hibsich, J. E.;
 Hæfer, H., 2.
 Ossiferous cavern, Hoe-Grange Quarry.—
 Arnold-Bemrose, H. H.
 Ossola (Piedmont).—Lincio, G.; Stella,
 A., 2.
 Ostracoda, Devonian.—Jones, T. R., 2;
 Thomas, I.
 —, Ordovician.—Raymond, P. E., 2.
 —, Quaternary.—Sieber, —.
 —, Silurian.—Wiman, C., 2.
 —, Tertiary.—Clark, W. B.; Liene-
 klaus, E.; Sieber, —.
 —, Triassic.—Jones, T. R.; Newton,
 R. B., 2.
Ostrea.—Dacqué, E.; Krumbeck, L.;
 Loriol, P. de; Nordmann, V., 2;
 Richardson, L., 3; Thomas, P.;
 Wilckens, O.
 Otago (N. Z.).—Park, J., 3; Peck, W.;
 Marshall, P., 1 & 2.
Otidophyton.—Smith, G. O.
Otoceras-beds, Himalayas.—Diener, C.

- Otodus*.—Stromer, E., 3.
Otolites, fish-; & *Otolithus*.—Schubert, R. J., 8.
 Ottawa (Canada).—Buchan, J. S.; Cirkel, F., 2; Raymond, P. E., 2.
 Otto (Lisbon).—Delgado, J. F. N., 2.
 Otweil Beds, Rhenish Prussia.—Meunier, F., 2.
 Otuzco (Peru).—Santolalla, F. M., 3.
Oudenodon.—Broom, R.
 Oued-Akarit (Tunis).—Bédé, P., 2.
 Ouennoughia (Algeria).—Ficheur, E., 4.
 Ouriçanga (Brazil).—Krasser, F.
Ovibos moschatus, S. England Quaternary.—Andrews, C. W., 3.
 Ovoca (Wicklow).—Davies, E. H.
Ovula.—Gregorio, A. de.
 Oxford, geology &.—Sollas, W. J.
 Oxfordian, Bernese Jura.—Æberhardt, B.
 Oxfordshire.—Monckton, H. W., 3; Salter, A. E.; Walford, E. A., 1 & 2; Woodward, H. B., 9.
 Oxygen, abstracted by iron from the atmosphere.—Smyth, C. H., Jun., 3.
 —, mineralogy &.—Cooper, J. C.
Oxymoticerias.—Benecke, E. W.
Oxyrhina.—Stromer, E., 3.
- Pachycardium*.—Read, A.
 — beds, Tyrol.—Blaschke, F.
Pachydictya.—Hennig, A.
Pachyerisma.—Krumbeck, L.
Pachygyra.—Koby, F.
Pachylytoceras.—Buckman, S. S., 2.
Pachynasua.—Ameghino, F., 7.
Pachyperna.—Dainelli, G.
Pachypteryx.—Wiman, C., 4.
Pachytragus.—Schlosser, M.
 Paciano (Umbria).—Bortolotti, C.
 Pacific Ocean.—Agassiz, A.; Klotz, O.; Lévy, Aug. M., 2; see also Gambier Is., §c.
 PACKARD, A. S. *Obit.*—See Anon, 9; Woodward, A. S., 4.
 Padirac Cavern (Tarn).—Martel, E. A., 10.
 Pålmaln (Upsala).—Geer, S. de.
Palæacmæa.—Raymond, P. E., 2.
Palæanodonta.—Schmidt, A.
Palæomastodon.—Andrews, C. W., 2.
Palæochæta.—Clarke, J. M., 6.
Palæodietyon.—Capeder, G., 1 & 2; Fuchs, T., 6.
 Palæolithic site in Ipswich.—Layard, N. F.
Palæoneilo.—Bohm, J.
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 —, Argentina.—Ameghino, F., 1-9.
 —, Canada, 1903.—Ami, H. M., 2; Lambe, L. M., 3.
 —, Mexican vertebrate.—Osborn, H. F., 11.
 —, text-book of.—Launay, L. de.
 —. See also International Catalogue of Scientific Literature; Palæontologia Universalis, §c.
- Palæophocæna*.—Abel, O., 4.
Palæophonus.—Lankester, E. R.
Palæorbis.—Reis, O. M.
Palæorhinus.—Williston, S. W.
Palæorhynchus.—Pasquale, M., 2.
Palæoryx.—Schlosser, M.
Palæotherium.—Stehlin, H. G., 1 & 3.
Palæstræa.—Thomson, J.
 Palermo (Sicily).—Meunier, S., 2.
Paleryx.—Stefano, G. de.
 Palestine.—Krumbeck, L.
Palinosphæria.—Reinsch, P. F.
 Palladium.—Headden, W. P., 2; Husak, E.
 Pallasca (Chile).—Lucio, F. de.
 Pallasite.—Brezina, A.
 Palmella (Estremadura).—Choffat, P., 4.
Palmicellaria.—Clark, W. B.
Paludinella.—Howorth, Sir H. H., 3.
 Pampas Formation, Buenos Aires.—Reche, O.
Panopæa.—Locard, A.; Newton, R. B.; Wilckens, O.
 Papakura Series, New Zealand.—Clarke, E.
 Papandajan volcano, W. Java.—Volz, W.
Paradidelplys.—Ameghino, F., 7.
Paradoxides.—Wiman, C., 3.
 Paraffin, Whitehaven.—Dodds, R., 2.
 Paraguay (S. Am.).—Milch, L.
Parahyænodon, *Paramyocastor*, & *Pararctotherium*.—Ameghino, F., 7.
Paraponema.—Fuchs, T., 2.
Parasteironymus & *Paratemnus*.—Ameghino, F., 7.
 Parchim (Mecklenburg).—Gagel, E.; Geinitz, E., 2.
Parelops.—Fritsch, A., 2.
 Pareora Series, New Zealand.—Park, J., 3.
 Paris (France).—Capitan, L.; Geslain, M.; Meunier, S., 3.
 —, minerals in water-supply of.—Cayeux, L., 5.
 Paris Basin.—Cayeux, L., 4 & 5; Dollfus, G. F., 3 & 4; Meunier, S., 5.
 Parisite.—Tacconi, E.
 Parka.—Reid, J.
 Parma (Emilia).—Stefani, C. de, 2.
Paronæa.—Prever, P. L.
Paryphostoma.—Morgan, J. de, 2.
 Pas-de-Calais (France).—Barrois, C., 2; Gosselet, J.; see also Picardy, §c.
 Patagonia (S. Am.).—Crosthwait, H. L.; Gaudry, A., 1 & 2; Martin, H. T.; Scott, W. B., 1-3; Wilckens, O., 1 & 3.
 Pataz (Chile).—Lucio, F. de.
 Paularo (Venetia).—Vinassa de Regny, P., 4.
 Paumotu Is. (Pacific).—Lévy, Aug. M., 2.
 Pavia (Lombardy).—Prever, P. L., 2.
 Peat, Ardennes.—Limburg-Stirum, A. von.
 —, Cumberland.—Lewis, F. J.
 —, Keldinger Moor.—Beyschlag, F.
 —, Kerguelen Land.—Philippi, E., 4.
 —, Lüneburg.—Mueller, G.

- Peat, Monroe Co. (N.Y.).—Sarle, C. J., 2.
 —, origin of.—Hoffmann, J. F.
 —, Scotland.—Smith, W. G.
 —, Stettin.—Potonié, H.
 —, Sweden.—Sundbærg, G.
 —, Sylt (I. of) &c., submarine. —
 Hartz, N.; Stolley, E., 2.
 —, utilization of.—Blake, G. S., 2.
 —. *See also* Bogs.
- Peat-bogs, Holstein.—Wolff, W., 2.
 —, Ireland.—Adams, J.
- Pebble-covered plains, Arizona.—Blake, W. P.
- Pebbles, elongated, running water &—
 Noël, E.
 —, facetted.—Philippi, E., 1-3; *see also* Windworn stones.
 —, rocks &.—Lebour, G. A.
- Pecopteris*.—Leuthardt, F.; Zeiller, R.
 — seeds.—Grand'Eury, F. C.
- Pecten*.—Boehm, J.; Dacqué, E., 2;
 Hutton, F. W., 3; Krumbeck, L.;
 Locard, A.; Loriol, P. de; Martelli,
 A.; Park, J.; Petrascheck, W., 4;
 Wilckens, O.
- Pectinidae, Tertiary.—Bigot, A., 6.
- Pegmatite, Tyrol.—Hammer, W., 2.
- Peissenberg (Bavaria).—Rothpletz, A.
- Pelamycybiium*.—Toula, F.
- Pelé, Mt. (Martinique).—Forel, F. A.;
 Lacroix, A., 1, 3, 5, 6, & 7; Pélagaud,
 E.; Russell, I. C., 5; Verri, A., 2.
- Pelion massif (Greece).—Deprat, J., 2.
- Peloponnesus (Greece).—Deprat, J.
- Pelycosauria, Triassic.—Huene, F. von,
 2.
- Pelycosaurus*.—Broili, F.
- Pembina District (N. Dakota).—Berkey,
 C. P.
- Pembrokeshire.—Elsden, J. V., 2; Jehu,
 T. J.; Reed, F. R. C.; Thomas, H.,
 H., 2.
- Penarth (Glamorgan).—Richardson, L.,
 3.
- Penberry Hill (Pembroke).—Elsden, J.
 V., 2.
- Pendulum-results, Antarctic regions.—
 Milne, J., 2.
- Penepalms.—Passarge, S., 2.
- Penmaenmawr (Caernarvon).—Elsden,
 J. V., 4; Schaub, L.
- Pennine Alps. *See* Alps, &c.
- Pennsylvania (U.S.A.).—Clapp, F. G.;
 Emmons, S. F., 2; Halberstadt, B.;
 Stevenson, J. J.; Williams, H. S.
- 'Pennystone' ironstone, Dudley. —
 Woodward, H., 5.
- Pentaceros*.—Spencer, W. K.
- Pentacrinidea, Chalk.—Jækel, O., 2.
- Pentacrinus*.—Hucke, K.
- Pentagonaster*.—Spencer, W. K.; Wel-
 ler, S., 3.
- Pentaspheera*.—Squinabol, S., 3.
- Penzance (Cornwall).—Latham, F.
- Perak (Malay States).—Dykes, F. J. B.;
 Evans, J. W., 3; Jones, T. R.;
 Newton, R. B., 2; Scrivenor, J. B.,
 1, 2, 4, & 5.
- Peramiho (German East Africa).—Ber-
 werth, F.
- Percé Rock (Gaspé).—Clarke, J. M., 7.
- Pereiraia*.—Sacco, F., 6.
- Perforated astragalus, antiquity of genus
 &c.—Ameghino, F., 1-6.
- crystalline rocks, natural.—Baron,
 R.; Bonney, T. G., 3; Ferrar, H. T.
- Peridotite. *See* Olivine.
- dykes.—Barnett, V. H.; Lacroix,
 A., 12; Matson, G. C.
- Perimys*.—Scott, W. B., 2.
- Perisphinctes*.—Bigot, A., 5; Blake, J.
 F., 2; Dacqué, E., 2; Simionescu, I.,
 2; Vettors, H.
- Perissolav.*—Weaver, C. E.
- Perm Gov. (Russia).—Duparc, L., 1-4;
 Spring, R.
- Pernian, Alpes Maritimes.—Bertrand,
 L., 4.
 —, Bohemia.—Broili, F., 2; Katzer,
 F.
 —, Chorlton-on-Medlock. — Dawkins,
 W. B., 3.
 —, Corsica.—Deprat, J., 6.
 —, Germany (N.), salt-district.—Och-
 senius, K.
 —, Hesse.—Chelius, C.
 —, Himalayas.—Diener, C.
 —, Kansas.—Beede, J. W.; Prosser,
 C. S.
 —, Monmouthshire.—Richardson, L.,
 9.
 —, Montenegro.—Martelli, A.
 —, Prince Edward I.—Case, E. C., 2.
 — Sandstone, Dumfries.—Anon., 25.
 —, Vogelgebirge.—Klemm, G., 6.
 —, Yunnan.—Mansuy, H.
- Permo-Carboniferous, Cape Colony. —
 Rogers, A. W., 4.
 —, Chile.—Schneider, J.
 —, Kashmir.—Seward, A. C., 3.
- Perna*.—Woods, H.
- Peromyscus*.—Sinclair, W. J.
- Perrier (Puy-de-Dôme).—Stehlin, H. G.,
 2.
- Perry (Me.) & Perry Formation. —
 Smith, G. O.
- Persberg (Svealand).—Wilkinson, W. F.
- Persia.—Douvillé, H., 4 & 7; Morgan,
 J. de, 1 & 2; Zeiller, R., 2.
- Perthite.—Suess, F. E., 4.
- Perthshire.—Barrow, G.; Horne, J.
- Peru (S. Am.).—Alvarado, L. U.; Day,
 D. T.; Denegri, M. A.; Dueñas, E. I.;
 Enock, R.; Habich, E. A. V. de;
 Loroza, E.; Masias, M. G., 1 & 2;
 Santolalla, F. M., 1-3.
- Petrified forest between Cairo & Suez.—
 Barron, T.
- Petrographical microscope. — Wein-
 schenk, E.
- Petrography. *See* Petrology.
- Petroleum, Alaska.—Brooks, A. H.,
 1 & 2; Martin, G. C.
 —, Argentina.—Rowbotham, J. McK.
 —, Baku.—Goloobyatnikov, D. V., 2;
 Trevithick, J. H.

- Petroleum, Bavaria.—Fink, W., 1 & 2.
 —, British Columbia.—Ashworth, J., 2.
 —, California.—Prutzman, P. W.
 —, Canada.—Bell, R.
 —, Cape Colony & Transvaal.—Stephan, M. J.
 —, Colorado.—Lakes, A., 3.
 —, Hungary & Moravia.—Ržehák, A., 3.
 —, India.—Evans, J. W.; Holland, T. H., 2; Rudra, S. C.
 —, Indiana.—Blatchley, W. S., 2.
 —, Kansas.—Adams, G. I., 2; Barrow, E., 2.
 —, Mexico.—Barriga, M. D.
 —, New York.—Bishop, I. P.
 —, New Zealand.—Macgowan, J., 1 & 2.
 —, occurrence of.—Monke, A.
 —, origin of.—Coste, E.; Potonié, H., 2.
 —, Parma.—Stefani, C. de, 2.
 —, Peru.—Day, D. T.
 —, Red Sea.—Barrois, C.; Stewart, C. E.
 —, Trinidad.—Dunstan, W. R., 6.
 —, United States production.—Day, D. T.; Emmons, S. F., 2.
 —, volcanic dykes impregnated with.—Lakes, A., 3.
 —, West Indies.—Evans, J. W., 2.
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 —, photography &.—Borne, G. von dem.
 —, text-books of.—Lapparent, A. de, 5; Launay, L. de, 4; Rosenbusch, H.; Wuelfing, E. A.
 PETTEE, W. H. *Obit.*—See Russell, I. C.
 Pfunderer Berg (Tyrol).—Rose, —.
Phacodiscus.—Clark, W. B.
 Phacopidae, classification of the.—Reed, F. R. C.
Phacops.—Bassani, F., 8; Thomas, I.; Woodward, H.
Phacostylus.—Squinabol, S., 3.
Phænopora.—Hennig, A.
 Philadelphia (Pa.).—Bascom, (Miss) F.; Jonas, (Miss) I.
 — Academy Museum, Cretaceous invertebrates in the.—Johnson, C. W.
 PHILIPPI, R. A. *Obit.*—See Bøse, E., 2.
 Philippine Is.—Becker, G. F., 3.
Phillipsastræa.—Thomson, J., 3.
 Phillipsburg (N.J.).—Peck, F. B.
 Phlegrean Fields (Naples).—Lorenzo, G. de, 4 & 9; Manasse, E.; Piutti, A.
Phocæna.—Abel, O., 4.
Pholadomya.—Bøhm, J.; Wilckens, O.
Pholas.—Locard, A.
Pholidophorus.—Gorjanović - Kramberger, K.
 Phonolite, Paraguay.—Milch, L.
Phormocampe.—Squinabol, S., 3.
 Phosphate-deposits of Ocean & Pleasant Is.—Power, F. D.
 Phosphate-of-alumina beds, Mansfield (Vict.).—Howitt, A. M.
 Phosphates, Dauphiné.—Jacob, C., 1 & 2.
 —, dehydration of.—Gaubert, P.
 —, Doubs.—Merle, A.
 —, Tunis.—Pervinquièrre, L.; Thomas, P., 2.
 —, United States.—Day, D. T.
 Phosphatic beds, Cambridge, &c.—Lamplugh, G. W., 3.
 — Chalk.—Cornet, J., 3; White, H. J. O.
 — concretions.—Collet, L. W., 2.
 Photographs, geological. See Geological-Photography, geology &.—English, D. Lewis, G. G.
 —, petrology &.—Borne, G. von dem.
Phragmites.—Kerner, F. von, 2.
Phryganidium.—Bode, A.
Phyllites.—Stanton, T. W.
Phylloceras.—Krumbeck, L.; Prinz, G., 2; Simionescu, I., 2.
 — *Loryi*-beds, Isère.—Lory, P.
Phyllocladus.—Deane, H.
 Phylogenesis, geology &.—White, C. A.
 Physiography, new terms in.—Salisbury, R. D.
 —, SUESS's theories &.—Davis, W. M., 3.
 Picardy (France).—Gosselet, J.
 Pierite, Hesse.—Brauns, R., 5.
 Piedmont (Italy).—Bassani, F., 2; Franchi, S.; Issel, A., 5; Lincio, G., 1-3; Lugeon, M., 3-4; Novarese, V.; Piotti, G.; Sacco, F., 3; Stella, A., 2; Roccati, A.; Tacconi, E., 1 & 2; Zamboni, F., 3.
 Pietersburg (Transvaal).—Kynaston, H., 6.
 Pietpotgietersrust (Transvaal).—Kynaston, H., 6.
 Pieve di Cadore (Venetia).—Mariani, E., 2.
 Pilbara (W. Austral.).—Maitland, A. G., 3.
Pilchenia.—Ameghino, F., 7.
 Pinch-Swamp Creek (Vict.).—Copland, M.
 Pingente (Istria).—Manek, F.
Pinites.—Fliche, P., 3.
Pinna.—Bøhm, J.; Lorient, P. de; Picard, E.; Wilckens, O.; Woods, H.
Pinus.—Fliche, P., 3; Morgan, L.
 Pique Valley (Hautes Pyrénées).—Dop, P.
Pironæa.—Dainelli, G., 2.
 Pisanite.—Schaller, W. T., 3.
 Pish Kuh (Luristan).—Morgan, J. de.
 Pitcairn I. (Pacific).—Lévy, Aug. M., 2.
 Pitch Hill (Surrey).—Herries, R. S.
 Pitch, mineral, Ijebu District (Lagos).—Dunstan, W. R., 7.

- Pitchblende, helium in.—Moss, R. J.; see also Uraninite.
- Pitchstone, Sgurr of Eigg.—Harker, A.
- Pitlochry (Perth).—Barrow, G.
- Placenticas*.—Etheridge, R., *fl.*, 3.
- Placer-gold, Montana.—Douglass, E.
—mining, Alaska.—Purinton, C. W.
- Placocœnia*, *Placogyra* & *Placophyllia*.
—Koby, F.
- Placostegus*.—Rovereto, G., 2.
- Placotrochus*.—Dennant, J.
- Placuna*.—Locard, A.
- Placunopsis*.—Galdieri, A., 2.
- Plasiomys*.—Raymond, P. E., 2.
- Plagioclase. — Cesàro, G., 2; see also Felspars.
- Plagiolophus*.—Stehlin, H. G., 3.
- Plains, Central (U.S.A.).—Darton, N. H.
—, enclosed & other.—Passarge, S., 2;
Tight, W. G., 3.
- Planops*.—Scott, W. B.
- Plant-fertilization.—White, C. H.
- Plants, Carboniferous.—Arber, E. A. N.,
1-4, 6, & 7; Gasparis, A. de, 2; Grand'
Eury, F. C., 1-3; Kidston, R., 2 & 3;
Kœhne, W.; Oliver, F. W.; Smith,
B.; Scott, D. H., 1, 2, & 4; Weiss, F.
E.; White, D.; Zaleski, M. D., 2;
Zeiller, R., 3 & 4.
- , Cretaceous.—Fliche, P.; Stanton,
T. W.; Zeiller, R.
- , Culm.—Arber, E. A. N., 2.
- , Devonian.—Nathorst, A. G.;
Smith, G. O.
- , fossil. See also Wood, §c.
- , geology &.—Sernander, R.
- , interglacial, Elmshorn.—Gagel, C.,
2 & 4.
- , Jurassic.—Benecke, E. W.; Fliche,
P., 3; Lignier, O.; Seward, A. C., 1
& 2; Tornquist, A.; Yokoyama, M.;
Zaleski, M. D.
- , leaf-variations in.—Penhallow, D.
P.
- , Old Red Sandstone.—Reid, J.; see
also Devonian.
- , peat.—Mueller, G.
- , Permo-Carboniferous.—Etheridge,
R., *fl.*, 2; Rogers, A. W., 4; Seward,
A. C., 2 & 3.
- , Permo-Jurassic.—Arber, E. A. N., 7.
- , Quaternary.—Gagel, C., 2 & 4;
Hartz, N., 3; Kerner, F. von, 2; Mjø-
berg, E.
- , reproduction of types (Palæozoic &
Mesozoic).—Potonié, H., 4.
- , Rhatic.—Zeiller, R., 2.
- , soils &.—Fliche, P., 2.
- , Tertiary.—Bonnet, E., 1 & 2;
Clark, W. B.; Deane, H; Engel-
hardt, H.; Hartz, N., 2; Krasser, F.;
Lauby, A., 2; Lemoine, P., 4; Maury,
C. J.; Mogan, L.; Palibin, I. V.
Penhallow, D. P., 2.
- , Triassic.—Gasparis, A. de, 3;
Leuthardt, F.; Lomas, J.
- , See also Algæ, §c.
- Plateau-deposits.—Rutot, A., 4.
- Plateau, Düsseldorf limestone.—Kœnen,
K.
- Platinum, Brazil.—Hussak, E.
- , Perm.—Spring, R.
- , Queensland.—Ball, L. C.
- , Sumatra.—Hundeshagen, L.
- , United States.—Day, D. T.
- Plattkofl massif (Tyrol).—Skeats, E. W.
- Platycus*.—Thomas, I.
- Platymelopus*.—Raymond, P. E.
- Pleasant I. or Nauru (S. Pacific).—
Power, F. D.
- Plecia*.—Meunier, F.
- Plectambonites*.—Reed, F. R. C.
- Pleistocene. See Quaternary, §c.
- Plesiosaurus*.—Benecke, E. W.; Blake,
J. F., 2; Koken, E.
- Plesiospatangus*.—Fourtau, R.
- Plethospira*.—Donald, (Miss) J., 2.
- Pleuonautilus*.—Crick, G. C., 4; Stobbs,
J. T.
- Pleurophorus*.—Bœhm, J.
- Pleurosmilita*.—Angelis d'Ossat, G. de;
Koby, F.
- Pleurostylodon*.—Ameghino, F., 7.
- Pleurotoma*.—Clark, W. B.; Hutton,
F. W., 3.
- Pleurotomaria*.—Blake, J. F., 2; Clerc, M.
- Plexotenus*.—Ameghino, F., 7.
- Plicatula*.—Locard, A.; Loriol, P. de;
Richardson, L., 3.
- Pliocene, Campine.—Dubois, E., 2 & 4;
see also Tertiary, Icenian, §c.
- Pliolampas*.—Airaghi, C.
- Plioplatecarpus*.—Dollo, L.
- Plug, Fernando de Noronha volcanic.
—Wilson-Barker, D.
- , Mt. Pelé volcanic.—Russell, I. C.
- Plumbojarosite.—Hillebrand, W. F., 3.
- Pneumatic foramina, Dinosaurian.—
Seeley, H. G.
- Po Valley (Italy).—Sacco, F., 3; Stefani,
C. de, 3; Taramelli, T., 5.
- Pöchlarn (Lr. Austria).—Sigmund, A., 2.
- Podolia (Russia).—Laskarev, V.
- Poitiers (France).—Fournier, A.
- Polacanthus*.—Nopcsa, F., 3.
- Poland, Russian.—Sobolev, D.
- Polarization-apparatus.—Nakamura, S.
- , crystals &.—Osthoff, A.
- , microscope.—Weinschenk, E.
- , minerals.—Kaemmerer, P.; see
also Minerals.
- , slags &.—Hlawatsch, C.
- Polcenigo (Venetia).—Taramelli, T., 2.
- Polymorphina*.—Jensen, H. I.
- Polyphylloseris*.—Koby, F.
- Polypteride*.—Stromer, E., 3.
- Polyptychus*.—Morgan, J. de, 2.
- Polystomella*.—Jensen, H. I.
- Polytropina*.—Donald, (Miss) J., 2.
- Polzin (Pomerania).—Deecke, W.
- Pomatocerus*.—Rovereto, G., 2.
- Pomerania (Prussia).—Beyschlag, F.;
Deecke, W., 1, 2, & 5; Grenwall, K. A.,
3; Hücke, K.; Kaunhohen, F., 2;
Potonié, H.; Schneider, O.; Schell-
wein, E.

- Pompeii (Campania).—Colomba, L.
 Pont-à-Mousson (Meurthe-et-Moselle).
 —Cavallier, C.; Laur, F., 1 & 2;
 Nicklès, R., 3; Zeiller, R., 3.
 Ponte Nuovo (Tuscany). — Pasquale,
 M., 2.
Pontocypris.—Lienenklaus, E.
Pontoleon.—True, F. W.
 Ponza Is. (Italy).—Mercalli, G.
 POORE, G. *Obit.*—See Anon., 10.
Populus.—Stanton, T. W.
 Porcupine, fossil.—Allen, J. A.
 — placer-district (Alaska).—Wright,
 C. W.
Porella.—Neviani, A., 2.
Porodiscus.—Squinabol, S., 3.
Porosphæra.—Stache, G.
 Porphyrite, Borneo.—Volz, W., 2.
 —, Merioneth.—Fearnside, W. G.
 —, Pembroke-shire.—Elsden, J. V., 2.
 —, Tyrol.—Hammer, W., 2; Pro-
 boscht, H.
 Porphyritic structure, magmas &.—
 Milch, L., 2; see also Magmas.
 Porphyry, Aar massif.—Fischer, O.
 —, Antarctic.—Nordenskjöld, O.
 —, Bavaria.—Glungler, G.
 —, Borneo.—Easton, N. W.
 —, Bosnia.—Katzer, F., 3.
 —, Botzen.—Trener, G. B.
 —, Egypt.—Ugolini, R.
 —, Finland.—Hackman, V.
 —, Hesse.—Chelius, C., 2.
 —, Korea.—Carles, W. R.
 —, Merseburg.—Haase, E.
 —, Moldau Valley.—Klvana, J.
 —, Perthshire.—Barrow, G.
 —, Quebec.—Adams, F. D.
 —, Rhenish Prussia.—Chelius, C., 4.
 —, Sardinia.—Riva, C.
 —, Victoria (Austral.).—Shearsby, A.
 J., 2.
 —, Volhynia.—Tarassenkov, V.
 —, West Indies.—Høegbom, A. G., 4.
 —, Westphalia.—Grosser, P.
Porpita.—Fuchs, T., 2.
 Portage Formation, New York.—Luther,
 D. D.
Portheus.—Osborn, H. F., 6.
 Portland cement, Alabama.—Lea, S.
 H.
 — —, Ohio.—Bleininger, A. V.
 — —, United States production.—
 Day, D. T.; Eckel, E. C.
 — —. See also Cement.
 Portlandian, Boulonnais.—Fliche, P., 3.
 Portugal.—Choffat, P., 1-6; Delgado, J.
 F. N., 1 & 2; Hull, E.; Koby, F.
 Posen (Prussia).—Jentzsch, A.
Posidonia.—Frech, F.; Kœnen, A. von,
 2.
Posidoniella.—Stobbs, J. T.
Posidonomya.—Bettoni, A.
 Postglacial deposits, Cross Fell.—Lewis,
 F. J.
 — —, Iceland.—Thoroddsen, T., 2.
 — —, Schaffhausen.—Meister, J.
Potamotherium.—Matthew, W. D., 4.
 Potassic deposits, Germany.—Kœnen,
 A. von, 3; Ochsenius, K.; Schulz-
 Brisen, B.; Van't Hoff, J. H., 2-6.
 Potchefstroom System (Transvaal).—
 Hatch, F. H., 4.
 Potenza R. (Italy).—Moderni, R.
 Pot-hole, near Thayngen (Schaffhausen).
 —Meister, J.
 POTIER, A. *Obit.*—See Troost, —.
 Pottery Coalfield (Staffs).—Gibson, W.,
 2; Ward, J.
 Potton (Beds).—Lamplugh, G. W., 3.
 Ponza Is. (Italy).—Galdieri, A.; Mer-
 calli, G.
 POWELL, J. W. *Obit.*—See Dall, W.
 H., 2.
 Prague (Bohemia).—Klvana, J.; Peli-
 kan, A.
 Prairie-mounds, California, &c.—Bran-
 ner, J. C.; Hilgard, E. W.; Piper, A.
 C.; Purdue, A. H., 2; Veatch, A. C.;
 see also Mounds, natural.
 Praunheim (Hesse).—Reinach, A. von., 2.
 Pre-Cambrian, New Jersey.—Spencer,
 A. C.
 —, Portugal.—Delgado, J. F. N.
 —, Sweden.—Sundberg, G.
 Precious stones, Ceylon.—Coomára -
 swámy, A. K., 3 & 4.
 — —, radium &c.—Baskerville, C., 3.
 — —, supply of.—Kunz, G. F.
 — —, United States, &c.—Day, D.
 T.
 Predazzite.—Peruzzi, L.
 Pre-Glacial flora, Lüneburg.—Mueller,
 G.
 — valleys, Durham, &c.—Woolcott,
 D.
Preprotheriops.—Ameghino, F., 7.
Preptoceras.—Furlong, E. L.
 Pretoria (Transvaal).—Hall, A. L., 1 &
 4; Kynaston, H., 1-7; Mellor, E. T.,
 8; Tweddill, S. M.
 Pretoria Series, Transvaal.—Hall, A. L.,
 2; Mellor, E. T., 8.
 Prieska (Cape Colony).—Schwarz, E. H.
 L., 5.
Primitia.—Jones, T. R., 2; Raymond,
 P. E., 2.
 Prince Albert goldfield (Cape Colony).—
 Schwarz, E. H. L., 4.
 Prince Edward I. (Canada).—Case, E.
 C., 2; Poole, H. S.
Pristerognathus.—Broom, R., 2.
Pristiophorus & Pristis.—Stromer, E.,
 3.
Proantignonia.—Simionescu, I.
Proarctotherium.—Ameghino, F., 7.
Proboscina.—Canu, F.
Procerithium.—Morgan, J. de, 2.
Procolophon.—Broom, R., 7; Seeley, H.
 G., 2.
Prodamaliscus.—Schlosser, M.
Productus.—Stobbs, J. T.; Vaughan,
 A.
Proctoecion & Progarzonia.—Ame-
 ghino, F., 7.
Prolagostomus.—Scott, W. B., 2.

- Prolagus*.—Major, C. I. F.
Promathildia.—Boehm, J.
 Promina Mt. (Dalmatia).—Schubert, R. J., 6.
Promyrmephagus.—Ameghino, F., 7.
Pronoella.—Benecke, E. W.
Propreoptherium.—Ameghino, F., 7.
Propristis.—Stromer, E., 3.
Propseudopus.—Stefano, G. de, 2.
 Propylite, Tolfa.—Millosevich, F., 2.
 Prospector's pan, use of in geological research.—Parkinson, J.
Prosthennops.—Matthew, W. D., 4.
Protamandua.—Ameghino, F., 7.
Proteophyllum.—Zeiller, R.
Prothylacynus.—Sinclair, W. J., 3.
Protonympha.—Clarke, J. M., 6.
Protoseris.—Koby, F.
Protostega.—Sternberg, C. H.
Protrachyceras.—Martelli, A.
Protragelaphus.—Schlosser, M.
Protula.—Rovereto, G., 2.
 Provence (France).—Guébbard, A., 5 & 7.
 Prussia, potash-salt districts.—Ochsenius, K.
 —, Quaternary.—Madsen, V., 2.
 —. See also Brandenburg, §c.
 — (E.).—Beyschlag, F.; Brueckmann, R.; Jentzsch, A., 1 & 3; Krause, P. G.; Meunier, F.
 — (W.).—Jentzsch, A.
 Przemysł (Galicia).—Wójcik, K.
Psammechinus.—Loriol, P. de, 2.
Psammobia.—Clark, W. B.
Psephodus.—Branson, E. B.
Pseudamusium.—Park, J.; Stobbs, J. T.
Pseudasaphus.—Schmidt, F. von.
Pseudocidaris.—Dacqué, E., 2.
Pseudocrinites.—Schuchert, C.
Pseudocucullea.—Schmidt, F. von, 2.
Pseudodiadema.—Loriol, P. de, 2.
Pseudoheligmus.—Morgan, J. de, 2.
Pseudolabis.—Matthew, W. D., 2.
Pseudomelania.—Bellini, R., 3; Blake, J. F., 2.
 Pseudomorphs.—Bygdén, A.; Meunier, S., 3; Schwantke, A., 2.
Pseudosaccma.—Remeš, M.
Pseudosagaceras.—Nædling, F., 4.
Pseudotragus.—Schlosser, M.
Pseudozaphrentoides.—Stuckenberga, A.
 Pskov Gov. (Russia).—Sodoffski, G.
Psymphyllum.—Seward, A. C., 3.
Pteraspis.—Drevermann, F., 2.
Pteria.—Woods, H.
 Pteridosperms.—Zeiller, R., 5.
Pterinopecten.—Stobbs, J. T.
Pterophyllum.—Seward, A. C., 2.
Pterygotus.—Sarle, C. J.
Ptilodietya.—Hennig, A.
Ptychites.—Martelli, A.
Ptycholepis.—Eastnan, C. R., 2.
Ptychopyge.—Schmidt, F. von.
 Pucherite.—Cesáro, G., 2.
Pugnellus.—Wilckens, O.
 Pukus Semanggal (Perak).—Jones, T. R.; Newton, R. B., 2.
 Pulli, Mte. (Venetia).—Gregorio, A. de.
 Pulo Laut (Borneo).—Volz, W., 2.
 Pumice-sand, Westerwald.—Behlen, H.
 Punjab (India).—Jentzsch, A., 2; Walcott, C. D., 2.
 Puntaloni (Dalmatia).—Waagen, L., 2.
Purpuria.—Blake, J. F., 2.
 Purpurite.—Graton, L. C.
Purpuroidea.—Choffat, P.; Krumbeck, L.
 Put-in-Bay I. (L. Erie).—Kraus, E. H.
 Putley Cockshoot (Hereford).—Moore, H. C., 2.
 Puy-de-Dôme (Auvergne).—Boubée, E.; Stehlin, H. G., 2.
Puzosia.—Wollemann, A.
Pyenodus.—Musy, M.; Stromer, E., 3.
 Pyle (Glamorgan).—Richardson, L., 3.
Pyralophodon.—Ameghino, F., 7.
Pyramidella.—Péron, A.
Pyrazus.—Morgan, J. de, 2.
 Pyrenees (French).—Bertrand, L., 11 & 12; Boule, M.; Carez, L.; Dop, P.; Martel, E. A., 9; Mascart, —; Mengel, O.; Roussel, J., 1-3; Termier, P., 4 & 6.
 Pyrford (Surrey).—Bullen, R. A., 3.
 Pyrites, Bosnia, &c.—Katzer, F., 4.
 —, crystals, &c.—Brauns, R., 4; Dorlodot, L. de; Schaller, W. T., 3; Smyth, C. H., Jun., 2.
 —, Erzgebirge (Saxon).—Baumgärtel, B., 3; Beck, R., 2; Viebig, W.
 —, Grisons.—Königsberger, J., 2.
 —, Hungary.—Lackner, A.; Mauritz, B.
 —, Mt. Lyell (Tasm.).—Gregory, J. W.
 —, natural history of.—Rudler, F. W.
 —, Peru.—Masias, M. G., 2.
 —, Thames goldfield.—Paul, M.
 —, United States production.—Day, D. T.
 —, Venetia.—Piutti, A., 2.
 —, Wisconsin.—Hobbs, W. H., 3.
 Pyrochroite.—Sjægren, H.
 Pyrolusite, Broken Hill.—Walpole, G. S.
 Pyromorphite, radium in.—Danne, J.
Pyropsis.—Wilckens, O.
Pyrotherium, attitude of.—Gaudry, A., 2.
 Pyroxene. See Augite.
 Pyroxenite, Ceylon.—Coomaraswamy, A. K.
 —, Urals.—Duparc, L., 4.
 Pyrrhotite, Ontario.—Dickson, C. W.
 Quarries, Great Britain, &c.—Home Office, 1-4.
 —, Rome.—Stella, A.
 Quartz.—Billows, E., 1 & 2; Goldschmidt, V.; Grebel, A.; Hobbs, W. H., 2; Johansson, H. E.; Martini, J.; Waring, G. A.

- Quartz - bostonite, Rézbánya. — Windhager, F.
 — keratophyre, Wisconsin. — Weidman, S.
 — norite. — Elsdon, J. V., 2 & 4; Schaub, L.
 — pebbles, corrosion of. — Smyth, C. H., Jun., 2.
 — porphyry, Lagorai (Cima di). — Trener, G. B.
 —, pyrites after. — Smyth, C. H., Jun., 2.
 — schist, Norway. — Thelen, P.
 —, solubility of. — Spezia, G.
 — vein-inclusions, Tromsø. — Sjøgren, H., 2.
 — wedges, use of. — Evans, J. W., 11.
 Quartzite, Lochowitz. — Liebus, A.
 —, Perthshire. — Barrow, G.
 —, South Australia. — Woolnough, W. G., 2.
 —, Transvaal. — Kynaston, H., 3 & 4.
 Quaternary, Alpes-Maritimes coast. — Caziot, E.
 —, Apulia. — Bassani, F., 3; Gasparis, A. de, 3.
 —, Baltic. — Howorth, Sir H. H., 2.
 —, Belgium. — Van Ertborn, O., 2.
 —, Buenos Aires. — Reche, O.
 —, Colorado. — Capps, S. R.
 —, Crete. — Bate, (Miss) D. M. A.
 —, Denmark. — Grønwall, K. A., 3; Hartz, N., 3; Hintze, V., 2; Madsen, V., 2; Nordmann, V., 1-3.
 —, East Anglia. — Harmer F. W., 1-3.
 —, Germany (N.). — Beyschlag, F.; Deecke, W., 1 & 3; Grønwall, K. A., 3; Menzel, H.; Raab, O.
 —, Iceland. — Kræbel, W. von, 1 & 2; Pjetursson, H., 2.
 —, Iowa. — Beyer, S. W., 3.
 —, Limburg (Dutch). — Uhenbroek, G. D.
 —, Montreal. — Buchan, J. S.
 —, New York. — Fairchild, H. L., 4; Fuller, M. L.; Sarle, C. J., 2.
 —, Ontario. — Wilson, A. W. G., 1 & 2.
 —, Portugal. — Choffat, P., 3 & 6.
 —, Rhenish Prussia. — Holzapfel, E.
 —, Rhône Valley, Lower. — Collot, L.
 —, Saratov Gov. — Pavlov, A. V.
 —, Scandinavia. — Høegbom, A. G., 1 & 2; Kurck, C.; Munthe, H., 3.
 —, Schleswig-Holstein. — Gagel, C., 2 & 4.
 —, Schaffhausen. — Meister, J., 1 & 2.
 —, Sylt (I. of). — Geinitz, F. E.
 —, Thuringia, &c. — Beyschlag, F.; Wagner, R.
 —, Wiesbaden. — Steuer, A., 3.
 —, Wisconsin. — Berkey, C. P., 2.
 —. See also Drift, &c.
 Quebec (Canada). — Adams, F. D.; Bell, R.; Cirkel, F., 1 & 2; Clarke, J. M., 7.
 Quedlinburg (Germany). — Nehring, A.
 Queensland (Australia). — Ball, L. C., 1 & 2; Cameron, W. E.; Clotten, E.; Dixon, R.; Dunn, E. J.; Dunstan, W. R., 9; Fawns, S., 2; Smith, G.; Syson, R. C.; Williams, C. J. R.
 Queenstown (N.Z.). — Hogg, E. G.
 Quei Chow (China). — Beelich, H.
Quercus. — Maury, C. J.; Palibin, I. V.; Stanton, T. W.
 Quercy (Guienne). — Stefano, G. de.
 Queretaro (Mex.). — Villarelo, J. D., 4.
 Quicksilver, California. — Day, D. T.
 —, China. — Beelich, H.
 —, Hungary. — Illés, W.
 —, Mexico. — Capilla, A.; Villarelo, J. D.
 Rabertshausen (Hesse). — Chelius, C.; Klemm, G., 6.
 Radioactivity, mineral springs &. — Blanc, G. A.; Boltwood, B. B.; Headden, W. P.; Henrich, F.
 —, minerals &. — Boltwood, B. B., 2; Danne, J.; Muñoz del Castillo, J., 1 & 2; Strutt, R. J., 1 & 2; see also Minerals.
 Radiolaria, Cambrian. — Bergt, W., 2.
 —, Cretaceous. — Squinabol, S., 3.
 —, Jurassic. — Lugeon, M.
 —, Tertiary. — Clark, W. B.
Radiolitella. — Douvillé, H., 3.
Radiolites. — Morgan, J. de, 2.
Radiopora. — Péron, A.
 Radium-minerals. — Baskerville, C., 1-3; Landin, G.; Mawson, D.; Rutherford, E.; Sjøgren, H., 3 & 4; Stobbs, J. T.
 Radmer (Styria). — Redlich, K. A.
 Radnorshire. — Herries, R. S., 2; Lapworth, H., 4; Woodward, A. S., 6.
Radula. — Dainelli, G.
 Radzein (Bohemia). — Cornu, F.; Zimmermann, R.
 Raguhn (Anhalt). — Linstow, O. von, 2.
 Raibl (Carinthia). — Lodin, A.
 Rain, Vesuvius &. — Lorenzo, G. de, 6; Semmola, E., 2.
 Rainfall, earthquakes &. — Clements, H.
 —, water-level, N. France &. — Gosselet, J., 3.
 Rain-water percolation, soils &. — Sutherst, W. F.
 Raised beaches, Algeria. — Lamothe, —.
 —, Baltic. — Howorth, Sir H. H., 2.
 —, Bridlington, &c. — Muff, H. B.
 —, Devon. — Hunt, A. R., 5.
 —, Greece, &c. — Négris, P.
 —, Ireland (S.). — Hunt, A. R., 5; Muff, H. B.; Wright, W. B.
 —, Nantucket I. — Gulliver, F. P., 3.
 —, Ontario. — Bell, R.
 —, Portugal. — Choffat, P., 6.
 Raitz (Moravia). — Ržehák, A.
Ramphostomella. — Cauu, F.
 Ramsgate (Kent). — Whitaker, W., 7.
 Rauden (Schaffhausen). — Rollier, L., 5.
 Raniganj (Bengal). — Stonier, G. A., 2.
 Rapakivi granite, Finland. — Hackman, V.

- Rare earths.—Baskerville, C., 1-3 ; Boltwood, B. B., 2.
- Raritan Bay (N.J.).—Weller, S., 1 & 2.
- Raspenua (Bohemia).—Richter, K.
- Raspite.—Hlawatsch, C., 2.
- Rathymotherium*.—Ameghino, F., 7.
- Ražnac (Dalmatia).—Schubert, R. J., 5.
- Reading (Berks).—Bennett, F. J. ; Monckton, H. W., 3.
- Reading Blue Limestone, Kansas.—Smith, A. J.
- Receptaculites*.—Chapman, F., 4.
- RECLUS, E. *Obit.*—See Geddes, P. ; Krapotkin, Prince P.
- Redhill (Surrey).—Young, G. W., 2.
- Redjang-Lebong (Sumatra).—Ivey, J. H.
- Redondite, Martinique.—Lacroix, A., 4.
- Red-Wall Formation, Arizona.—Reagan, A. B., 3 & 4.
- Refractom. index of.—Hotchkiss, W. O.
- Refractometer.—Smith, G. F. H.
- REIBISCH, T. *Obit.*—See Heller, K. M.
- Reichenau (Bohemia).—Hinterlechner, K.
- Reigate (Surrey).—Young, G. W., 2.
- REINACH, A. VON. *Obit.*—See Kinkelin, F.
- Rejstrup (Fyen).—Madsen, V.
- Remopleurides*.—Reed, F. R. C.
- RENAULT, B. *Obit.*—See Scott, D. H., 3.
- Reptilia, Cretaceous.—Dollo, L. ; Fritsch, A., 2 ; Koken, E. ; Merriam, J. C., 4 ; Nopcsa, F., 1 & 3 ; Osborn, H. F., 4 ; Stanton, T. W. ; Sternberg, C. H. ; Williston, S. W., 3 ; Woodward, A. S., 3.
- , extinct.—Lankester, E. R.
- , Jurassic.—Benecke, E. W. ; Blake, J. F., 2 ; Jækel, O., 4 ; Osborn, H. F., 3 & 10 ; Schmidt, W. E. ; Woodward, A. S., 5.
- , marine fossil.—Fraas, E., 2.
- , Permian.—Broili, F., 2 ; Case, E. C., 1-3 ; Hausse, R. ; Schröder, H.
- , Permo-Triassic.—Broili, F. ; Broom, R., 1, 2, 4, 5, & 7 ; Rogers, A. W., 4 ; Seeley, H. G., 1-3.
- , Tertiary.—Andrews, C. W. ; Janensch, W. ; Piaz, G. dal ; Stefano, G. de.
- , Triassic.—Branson, E. B., 2 ; Huene, F. von, 1 & 2 ; Jækel, O., 1 & 6 ; Lomas, J. ; Merriam, J. C., 1 & 2 ; Williston, S. W., 2 ; see also Dinosauria, Permo-Triassic, &c.
- Reptilian footprints, Jura-Trias.—Lull, R. S.
- Reptoflustrina*.—Péron, A.
- Retepora*.—Canu, F. ; Clark, W. B.
- Retinite.—Nørregaard, E. M.
- Retusa*.—Clark, W. B. ; Wilckens, O.
- Reuss Valley (Switzerland).—Muehlberg, F.
- Revelstoke District (B.C.).—Carmichael, H.
- Revigliano I. (Bay of Naples).—Lorenzo, G. de, 3.
- Rex, Mt., Coalfield (Tasm.).—Twelve-trees, W. H., 3.
- Rézabánya (Hungary).—Windhager, F.
- Rezende (Rhodesia).—Woodburn, J. A.
- Rhabdocarpus*.—Grand' Eury, F. C., 2.
- Rhabdocidaris*.—Airaghi, C., 3.
- Rhabdophyllia*.—Koby, F.
- Rhadinichthys*.—Tornquist, A., 4.
- Rhætic, Gloucestershire.—Richardson, L., 1, 3, 4, & 9.
- , Monmouthshire.—Richardson, L., 2.
- , Somerset.—Short, A. R., 2 ; Wickes, W. H.
- , type-specimens.—Allen, H. A.
- , Tyrol.—Fuchs, T., 8.
- Rhaphanocrinus*.—Hudson, G. H.
- Rhayader (Radnorshire).—Lapworth, H., 4 ; Woodward, A. S., 6.
- Rhenish Bavaria.—Kohler, E. ; Regelman, C. ; Reindl, J., 2.
- , Devonian diabase.—Brauns, R., 5.
- Prussia (Germany).—Kœnen, K. ; Meunier, F., 2 ; Mueller, G., 2.
- Rhenoster Kop (Transvaal).—Mellor, E. T., 5 & 7.
- Rheopax*.—Jensen, H. I.
- Rhine Valley (Germany).—Beyschlag, F.
- — knolls, St. Gallen.—Frueh, J.
- Rhine-Hesse (Germany).—Stoltz, K.
- Rhinoceros*.—Osborn, H. F., 5 ; Weber, M.
- Rhinostodes*.—Vigliarolo, G.
- Rhipidogyra*.—Koby, F. ; Missuna, A.
- Rhizomopteris*.—Seward, A. C.
- Rhizophyllum*.—Shearsby, J.
- Rhodesia (S.A.).—Cameron, J. ; Cairncross, W. H. ; Mennell, F. P., 1-4 ; Molyneux, A. J. C., 1 & 2 ; Parsons, C. E. ; Warth, T. ; Woodburn, J. A.
- Rhön Mts. (Germany).—Beyschlag, F.
- Rhône Valley, Lr. (France).—Collot, L. ; Sayn, G.
- Rhopalastrum*.—Squinabol, S., 3.
- Rhopalodictyum*.—Clark, W. B.
- Rhyncholithes* & *Rhynchoteuthis*.—Bortolotti, C., 2.
- Rhynchonella*.—Dacqué, E., 2 ; Krumbeck, L. ; Martelli, A. ; Masias, M. G., 2 ; Rau, K. ; Upton, C.
- Rhynchopteris*.—Behm, J.
- Rhyolite, Arizona.—Guild, F. N.
- , Corsica.—Deprat, J., 6.
- , New Zealand.—Sollas, W. J., 2.
- Rhyphus*.—Meunier, F.
- Rhytina*.—Lorenz von Liburnau, L.
- Rican (Bohemia).—Pelikan, A.
- RICHTER, E. *Obit.*—See Ampferer, O., 3
- RICHTHOFFEN, F., Baron von. *Obit.*—See Anon., 11 ; Geikie, Sir A., 4 ; Willis, B., 2.
- RICKETS, C. *Obit.*—See Marr, J. E.
- Riebeckite.—Murgoci, G. M. ; Souza-Brandão, V. de ; Termier, P., 2.
- Ries, Bavarian.—Ammon, L. von, 2.
- Riesengebirge (Silesia).—Milch, L., 3 ; Rimann, E. ; Vorweg, O.

- Riffelhorn (Zermatt).—Bonney, T. G., 8.
Ringicula.—Morgan, J. de, 2.
 Ripple-mark, origin of.—Ayrton, H.
 ———, Tertiary.—Rothpletz, A.
Rissoa.—Clark, W. B.
 Riszkania (Galicia).—Wójcik, K., 2.
 Rite, Mte. (Cadore).—Airaghi, C., 2.
 River-erosion.—Yachevski, L., 2.
 River-robbing. — Carter, W. L., 2 ;
 Reusch, H.
 Rizzonite, Tyrol.—Proboscht, H.
 Road-metal, Fife.—Elsden, J. V., 3 ;
 Joly, J.
 ———, Switzerland.—Hezner, L.
Robergia.—Wiman, C., 3.
 ROBERTS, I. *Obit.*—See Ball, Sir R. S. ;
 Marr, J. E.
 Rochdale (Lancs).—Baldwin, W.
 Roche-au-Loup Cave, Yonne.—Parat, A.
 Rochefort (Namur).—Martel, E. A., 3 &
 4.
 Rochers rouges (Mentone).—Boule, M.,
 7.
 Rochester (Kent).—Dibley, G. E., 2.
 Rock-classification.—Marr, J. E., 2.
 ———-cleavage.—Leith, C. K.
 ———-joints, simultaneous.—Becker, G.
 F., 2.
 ———-metamorphism.—Van Hise, C. R. ;
 see also Contact-metamorphism, §c.
 ———-salt.—Kohler, E., 2 ; Van't Hoff,
 J. H., 2-6.
 ———-sections.—Launay, L. de, 4.
 ———-temperature, Tauern Tunnel. —
 Becke, F., 1 & 2.
 ———-transportation, Pyrenees. — Ber-
 trand, L., 11.
 ———-weathering.—Warth, H. ; see also
 Rocks, eroded, &c.
 ROCKWELL, A. P. *Obit.*—See Ternier,
 P., 3.
 Rocks, desert blackened.—Blake, W. P.,
 2 ; Lucas, A.
 ———, eroded cavities in.—Baron, R. ;
 Bonney, T. G., 3 ; Ferrar, H. T.
 ———, pebbles &.—Lebour, G. A.
 ———, text-book on.—See Petrology.
 Rocky Mts. (Canada).—Ogilvie, I. H. ;
 Sherzer, W. H.
 ——— (U.S.A.).—Keyes, C. R., 1 &
 2 ; Reagan, A. B., 2.
 Rodents, Quaternary.—Major, C. I. F.
 ———, Tertiary.—Sinclair, W. J.
 Rodeo (Mex.).—Farrington, O. C.
 Románigladna (Hungary).—Schafarzik,
 F.
 Rome (Italy).—Angelis d'Ossat, G. de,
 2 ; Cerulli-Irelli, S. ; Clerici, E., 1-3
 & 6 ; Dainelli, G., 2 ; Meli, R., 1 & 2 ;
 Moderni, P., 2 ; Orzi, D. ; Stella, A. ;
 Verney, L., 1-3 ; Verri, A., 3 & 4 ;
 Zaccagna, D.
 Römer Spring (Bad Ems).—Fresenius,
 H.
 Romsdal (Norway).—Reusch, H.
 Roncà (Venetia).—Gregorio, A. de.
 Rondout (N.Y.).—Ingen, G. V.
 Rorschach (St. Gallen).—Frueh, J.
 Rosebud Indian Reservation (S. Dak.).—
 Reagan, A. B., 5.
 Rosseto (Elba).—Ermisch, K.
 ROSSIGNOL collection.—Stefano, G. de.
 Ross-shire (Scotland).—Murray, Sir J.,
 2 & 3 ; Peach, B. N., 1 & 2.
Rostellaria.—Locard, A.
 Rostock (Mecklenburg).—Grønwall, K.
 A.
Rotalia.—Steuer, A., 2.
 Rothenberge (Silesia).—Sturm, F.
 Roudoule Valley (Alpes Maritimes).—
 Bertrand, L., 2 ; Guébard, A.
Rousselia.—Douvillé, H., 3.
 Rowley Regis (Staffs.).—Warth, H.
 Rozzo (Istria).—Manek, F.
 Rubi R. (Congo Free State).—Preumont,
 G. F. J.
 Ruby.—Brauns, R., 2 ; Holland, T. H.,
 2 ; Kunz, G. F.
 Ruda (Transylvania).—Bauer, J.
 Rüdersdorf (Brandenburg).—Raab, O.
Rudiste, Cretaceous.—Dainelli, G., 1-3
 & 8 ; Douvillé, H., 3 ; Toucas, A., 1 & 2.
 Rudok (Asia).—Rawling, C. G.
 Rügen I. (Baltic).—Grønwall, K. A., 3.
 Ruhr R. (Westphalia).—Krusch, —.
 Rum I. (Hebrides).—Harker, A., 5.
 Rumania.—Aron, — ; Newton, R. B., 5 ;
 Nicolau, T., 1 & 2 ; Sevastos, R. ;
 Simionescu, I., 2.
 Rush (Co. Dublin).—Matley, C. A.
 Russia, Carboniferous Limestone. —
 Stuckenbergh, A.
 ———, Cretaceous divisions in.—Pavlov,
 A. P.
 ———, Geological Survey.—Karpinski, A.
 P.
 ———. See also Crimea, Podolia, §c.
 Rustenburg (Transvaal).—Holmes, G
 G., 2.
 Rutivaara (Norrbotten). — Wilkinson,
 W. F.
 RUTLEY, F. *Obit.*—See Rudler, F. W., 2.
 Ruts, Godesberg trachyte -surface. —
 Fliegel, G.
 Rzeszow (Galicia).—Friedberg, W.
 Saale Valley (Germany).—Wagner, R.
 Saare coalfield, Rhenish Bavaria, &c.—
 Kohler, E.
 Saas Fee (Valais).—Bonney, T. G., 8.
 Sadong (Borneo).—Huxham, B. H. ;
 Scrivener, J. B., 3.
 Sadowara (Japan).—Iki, T.
 Sagron (Venetia).—Ržehák, A., 4.
 Sahara (N. Africa).—Flamand, G. B. M. ;
 Foureau, F., 1 & 2 ; Haug, É., 1-3 ;
 Lapparent, A. de.
 Sahel Mts. (Algeria).—Lamothe, —.
 St. Annaberg (Silesia).—Wysogórski, J.,
 3.
 St. Cassian (Tyrol).—Skeats, E. W.
 St. Croix Dalles region (Wisc. & Me.).—
 Chamberlin, R. T.
 St. David's (Pembroke).—Elsden, J. V.,
 2.

- St. David's gold-mine (Merioneth). — Huddart, L. H. L.
- St. Erth (Cornwall).—Stephens, F. J.
- St. Flour (Cantal).—Lauby, A., 2.
- St. Gallen (Switzerland).—Falkner, C.; Frueh, J.; Schardt, H.
- St. Helen's Colliery (Workington). — Brown, M. W., &c.
- St. Ives (Cornwall).—Stephens, F. J.
- St. Jean - de - Buèges (Hérault). — Nicklès, R., 2.
- St. Jennet (Alpes - Maritimes). — Am-bayrac, —.
- St. Joachim Valley (Bohemia).—Stěp, J.
- St. John (W.I.).—Høgbom, A. G., 4.
- St. Joseph (Mo.).—Owen, (Miss) L. A.
- St. Lawrence R. (N. Am.). — Wilson, A. W. G.
- St. Louis Exhibition, 1904.—Bauerman, H.; Grimsley, G. P., 2.
- St. Martin (Alpes-Maritimes). — Ber-trand, L., 7.
- St. Minver (Cornwall).—Bather, F. A., 2; Crick, G. C., 3; Flett, J. S.; Fox, H., 1 & 2; Ussher, W. A. E., 2; Woodward, H.
- St. Pierre, Côte (Canada). — Preiswerk, H., 2.
- St. Pölten (Moravia).—Suess, F. E., 3.
- St. Roch (Alpes - Maritimes). — Ber-trand, L., 6.
- St. Sauveur (Alpes-Maritimes). — Ber-trand, L., 5.
- St. Thomas (W.I.).—Høgbom, A. G., 4.
- St. Vallier (Alpes-Maritimes). — Gué-bhard, A., 2 & 4.
- St. Véran (Hautes-Alpes). — Ternier, P., 2.
- St. Vincent (W.I.).—Anderson, T., 2.
- Salamanca (N.Y.).—Glenn, L. C., 2.
- Salcombe (Devon).—Ussher, W. A. E.
- Salerno (Campania).—Bassani, F., 4; Galdieri, A., 2; Oglialoro-Todaro, A., 3.
- Salesius Hill (Bohemia).—Hibsch, J. E.; Høfer, H., 2.
- Salford (Lanes).—Dawkins, W. B., 2.
- Salima Valley (Syria).—Krumbeck, L.
- Salinity, Modena artesian water.—Pan-tanelli, D.
- Salisbury Crags (Edinburgh).—Traquair, R. H., 3.
- Salt, Asia Minor.—Simmersbach, B.
- , Bavaria.—Kohler, E., 2.
- , Chile.—Sundt, J.; Yunge, G.
- crystals, Mont-Pelé eruption. — Lacroix, A., 7.
- deposits, origin of.—Miers, H. A.
- , Hanover.—Kœnen, A. von, 3.
- , Ischl.—Aigner, A.
- , Tyrol.—Rose, —.
- , United States.—Day, D. T.; Em-mons, S. F., 2.
- Salt-lakes, Mexico.—Philippi, L.
- , New Mexico.—Darton, N. H., 3.
- , Tomsk Gov.—Friz, W.
- Salt, oceanic deposits &.—Van't Hoff, J. H., 2-6.
- pans, Transvaal.—Kynaston, H., 4 & 6.
- , sea-water.—Chevallier, A.
- , See also Potash, &c.
- Salt Range (Panjab). — Diener, C.; Jentzsch, A., 2; Walcott, C. D., 2.
- Saltpetre, Chile.—Sundt, L.
- Salts, Bilma alkaline.—Courtet, H., 2.
- , German (N.) alkaline.—Ochsenius, K.; Van't Hoff, J. H., 2-6.
- Salzburg (Austria).—Crammer, H., 2; Fugger, E.; Gorjanovič-Kramberger, K.
- Salzgitter (Hanover).—Wunstorf, W.
- Salzkammergut (Austria).—Aigner, A.; Mojsisovics, E. von, 2.
- Samarskite, Ceylon.—Coomáráswamy, A. K., 4.
- Sambre R. (Belgium).—Brien, V., 2.
- Samland (E. Prussia).—Krause, P. G.; Meunier, F.
- coast-shoals (E. Prussia).—Schell-wien, E.
- Samos (Ægean Sea). — Weber, M.; Schlosser, M.
- Sanwel Cave (Cal.).—Furlong, E. L.
- San Francisco (Cal.).—Osmont, V. C.
- San Francisco Mt. (Ariz.). — Atwood, W. W.
- San Juan (Mendoza).—Torquist, A., 4.
- San Julian de Villatorta (Barcelona).—Neviani, A., 2.
- San Luis (Peru).—Dueñas, E. I.
- San Luis Potosi (Mex.).—Capilla, A.; Laird, G. A.
- San Luiz (Estremadura). — Choffat, P., 2 & 4.
- San Marcello Pistoiese (Tuscany). — Billows, E., 1 & 2.
- San Martin, Lake (Patagonia).—Cros-thwait, H. L.
- San Pedro District (Mex.). — Laird, G. A.
- San Polo Matese (Molise).—Fittipaldi, E. U.
- Sandalodus.—Branson, E. B.
- Sand-dunes, Sweden.—Nilsson, A.; see also Dunes, Landes, &c.
- Sands, classification by size.—Atterberg, A., 1 & 2.
- , English Tertiary.—Fisher, O., 2.
- , monazite.—Dunstan, W. R., 9.
- , New Jersey moulding.—Kuemmel, H. B., 3.
- , Oriolo Miocene.—Crema, C.
- , sediments &.—Reade, T. M., 3.
- , Thorium.—Evans, J. W., 8.
- , Tunisian desert.—Flick, —.
- , United States glass.—Day, D. T.
- , Upsala Quaternary.—Gustafsson, J. P.
- Sandstones, Antarctic.—Nordenskjöld, O.; Scott, R. F.
- , architecture &.—Anon., 27.
- , Bohemian Eocene. — Hibsch, J. E.; Høfer, H., 2.

- Sandstones, British.—Goodchild, J. G.; Home Office, 4.
 —, Condroz.—Destinez, P., 2.
 —, Dumfries Permian.—Anon., 25.
 —, flexible. *See* Itacolomite.
 —, Gebel Ahmar.—Barron, T.
 —, Jura.—Bourgeat, —.
 —, New York Devonian.—Dickinson, H. T.
 —, Paraguay.—Milch, L.
 —, South Australia.—Woolnough, W. G., 2.
 —, Sydney columnar.—Morrison, M.
 —, Transvaal.—Kynaston, H., 4; Mellor, E. T., 4.
 —. *See also* Nubian, &c.
 Sandwich Is. *See* Hawaiian Is.
 Santa Cruz Formation, Patagonia.—Martin, H. T.; Scott, W. B., 1-3; Sinclair, W. J., 3.
 Santa Maria volcano (Guatemala).—Ordóñez, E.
 Santa Maria del Pianto (Phlegrean Fields).—Manasse, E.
 Santa Maria Tiberina (Umbria).—Airaghi, C.
 Santander (Spain).—Termier, P., 5.
 Santiago (Cuba).—Souder, H.
 Sauto I. (New Hebrides).—Chapman, F., 3.
 Santorin (Cyclades).—Lacroix, A., 13 & 14.
Sapindus.—Stanton, T. W.
 Sapphires.—Brauns, R., 2; Kunz, G. F.
 Sapropel-rocks, origin of.—Potonié, H., 2 & 3.
 Saratov (Russia).—Pavlov, A. V.; Surgunov, N. E.
 Sarawak (Borneo).—Scrivenor, J. B., 3.
Sarcorhamphus.—Loënnberg, E.
Sarcostrobilus.—Fliche, P.
 Sardinia.—Bassani, F., 6; Dannenberg, A.; Lovisato, D.; Rimatori, C.; Riva, C.; Sacco, F., 6; Tornquist, A., 1, 3, & 5; Vagliarolo, G.; Viola, C., 2.
 Sarsen-stones, Bradenham.—Spicer, E. C.—, Pyrford.—Bullen, R. A., 3.
 Saussurite.—Hezner, L.; Ugolini, R., 3.
Sauvagesia.—Douvillé, H.
 Savoy (France).—Favre, J. N.; Fliche, P., 2; Girardin, P., 1 & 2; Mougin, P.; Whympfer, E.
 Sawatch Range (Colo.).—Capps, S. R.
 Saxony.—Bergt, W., 1 & 2; Bevschlag, F.; Credner, H.; Deninger, K.; Kliver, —; Mann, O.; Petrascheck, W.; Stutzer, O.; Viebig, W.; *see also* Erzgebirge, &c.
Scala.—Clark, W. B.; Morgan, J. de, 2.
Scalaria.—Wilckens, O.
Scaldia.—Stobbs, J. T.
Scalpellum.—Tièche, M.
 Scandinavia, Quaternary deposits.—Høegbom, A. G.; Howorth, Sir H. H., 3.
 —, watershed.—Reusch, H.
 Scania (Sweden).—Nilsson, A.; Kureck, C.; Tørnebohm, E.
Scaphites.—Smith, W. D.
 —-chalk, Brunswick.—Wollemann, A.
 Scapolite, Madras Pres.—Vredenburg, E.
Scatopse.—Meunier, F.
Scelidotheroiops.—Ameghino, F., 7.
Scenella.—Raymond, P. E., 2.
 Schaffhausen (Switzerland).—Meister, J.; Rollier, L., 5.
 Scheelite, British Columbia.—Atkin, A. J. R., 2.
 Schemnitz (Hungary).—Mauritz, B.
 Schists, Bavaria.—Glungler, G.
 —, Britanny.—Brun, P. de.
 —, Bukowina crystalline.—Vetters, H., 2.
 —, conductivities of.—Thelen, P.
 —, Congo Free State.—Preumont, G. F. J.
 —, Devon.—Hunt, A. R., 2.
 —, Greenland.—Emerson, B. K.
 —, Gross-Venediger.—Weinschenk, E., 2.
 —, Korea.—Carles, W. R.
 —, New Mexico.—Keyes, C. R.
 —, Perthshire.—Barrow, G.
 —, Sudan.—Courtet, H.
 —, Transvaal oldest.—Hatch, F. H., 1 & 4.
 —, Western Alps crystalline.—Termier, P.
Schistomys.—Scott, W. B., 2.
Schizambon.—Hudson, G. H.
Schizaster.—Loriol, P. de, 2; Wilckens, O.
Schizodus.—Stobbs, J. T.
Schizoporella.—Clark, W. B.
Schizospondylus.—Fritsch, A., 2.
 Schlangenberg (Altai).—*See* Smezhinogorsk.
 Schlern District (Tyrol).—Skeats, E. W.
 Schleswig-Holstein.—Gagel, C., 2 & 4; Gottsche, C.; Hansen, R.; Stolley, E., 2; Wolff, W., 2.
Schloënbachia.—Choffat, P., 5; Richarz, P. S.
 Schluchter (Baden).—Schnarrenberger, K.
 Schneeberg (Tyrol).—Rose, —.
 Schönberg (Moravia).—Bukowski, G. von, 2 & 4.
 Schwarzen Berge (Salzburg).—Fugger, E.
 Schwarzenberg (Saxony).—Beck, R.
 Schwertz (Merseburg).—Hasse, E.
 Schwyz, Canton (Switzerland).—Arbenz, P.
Sciadiocapsa.—Squinabol, S., 3.
Sciomyx.—Scott, W. B., 2.
 'Scotia' Expedition, Antarctic.—Bruce, W. S.
 Scotland, arctic shell-beds in.—Jamieson, T. F., 2.
 —, coalfields.—Simmersbach, B., 4.
 —, Eastern Highland gneisses.—Callaway, C.
 —, minerals from.—Rudler, F. W., 3.
 —, mines, &c.—Home Office, 1-4.

- Scotland. *See also* Aberdeen, Geological Survey, &c.
 Scottish Antarctic Expedition.—Bruce, W. S.
 — freshwater lochs.—Murray, Sir J., 1-3; Wesenberg-Lund, C.
 Scrvia (Liguria).—Issel, A., 5.
Scylliide.—Stromer, E.; 3.
 Sea-cow, *STELLER*'s.—Abel, O.; Lorenz, von Liburnau, L.
 Sea, distribution of land &.—Arltdt, T.
 —, influence on Flanders freshwater level.—René d'Andrimont, 1, 2, & 4.
 —, regression of the.—*See* Land, changes of level.
 — water, mineral matter in.—Salisbury, R. D., 2; salinity of.—Chevallier, A.
 Seas, geological physics of shallow.—Hunt, A. R., 3.
 Sedbury Cliff (Gloucester).—Richardson, L., 9.
 Sedimentary rocks, classification of.—Marr, J. E., 2.
 — — —, Swiss Alps.—Schmidt, C., 3.
 — — —, Transvaal oldest.—Hatch, F. H., 1 & 4.
 Sediments, sands &.—Reade, T. M., 3.
 Seeds, Carboniferous plant.—Arber, E. A. N., 3; Grand'Eury, F. C., 1-3; Scott, D. H., 2; Zalesski, M. D., 2.
 Seefeld (Tyrol).—Ampferer, O., 2.
 Seelisberg (Uri).—Pannekoek, J. J.
 Segregations, igneous rock.—Park, J., 2.
 Seine Valley, Lr. (France).—Dollfus, G. F., 4.
 Seiser Alp (Tyrol).—Blaschke, F.; Lœhr, — von; Skeats, E. W.
 Seismology, progress of.—Landi, H.; *see also* Earthquakes, &c.
 Selemdzha R. (Siberia).—Khlapomin, A.; Yavorovski, P.
 Selkirk Mts. (Canada).—Sherzer, W. H.
 Sella Mt. (Tyrol).—Skeats, E. W.
Sellula.—Wiman, C., 2.
 Selsey (Sussex).—Elsden, J. V., 2.
 SELWYN, A. R. C. *Obit.*—*See* Ami, H. M.; Whitaker, W.
Seminula-Zone, Weston-super-Mare.—Sibly, T. F.
Semionotus.—Eastman, C. R., 2; Gorjanović-Kramberger, K.
 Senegambia (W. Africa).—Chautard, J.
 Senne Valley (Belgium).—Simöens, G.
 Senonian. *See* Cretaceous.
 Sentinel Rock (Vict.).—Deane, H.
 Sentis district (Switzerland).—Heim, Alb., 2; Schardt, H.
Septa.—Newton, R. B., 5.
 Septarian Clay.—Linstow, O. von; Stoltz, K.
Septifer.—Basedow, H.
 Sequanian, Neuchâtel.—Juillerat, E.
Sequoia.—Fliche, P., 3; Hartz, N., 2; Stanton, T. W.
 Serchio, R. (Tuscany).—Ugolini, R., 2.
 Serpenica (Istria).—Moser, L. K., 3.
 Serpentine, Brittany.—Brun, P. de.
 Serpentine, Canada.—Bell, R.
 — — conglomerate, Gippsland.—Thiele E. O.
 — —, Peloponnesus.—Deprat, J.
 — —, Perthshire.—Barrow, G., &c.
 — —, Philadelphia.—Jonas, (Miss) A. I.
 — —, Piedmont.—Roccati, A.
 — —, pseudo.—Clarke, F. W.
 — —, structure of minerals forming.—Bonney, T. G., 8.
 — —, Wadi-Halfa.—Ugolini, R.
 — —, Yenisei.—Meister, A.
Serpula.—Rovereto, G., 2.
Serpulorbis.—Gregorio, A. de.
 Serro (Minas Geraes).—Hussak, E.
 Servia.—Sevastos, R.; Stevanovič, S.
 Sesia Valley (Piedmont).—Franchi, S.
Sethamphora, *Sethocapsa*, *Sethocytis*, & *Sethopyramis*.—Squinabol, S., 3.
 Settlingstone (Northumberland).—Lespineux, G., 2.
 Seveckenberge (Magdeburg).—Nehring, A.
 Severn Valley (Gloucester).—Ellis, T. S.
 Seymour I., 'Erebus' & 'Terror' Gulf (Antarctic).—Wiman, C., 4.
 Sfax (Tunisia).—Flick, —.
 Sgurr of Eigg (Scotland).—Harker, A.
 Shansi (China).—Shockley, W. H.
 Shantung (China).—Hinde, G. J.; Woodward, H., 2.
 Shari (French Sudan).—Courtet, H.
 Shelburne (Ont.).—Bell, R.
 Shell-conglomerate, Lessö I.—Nordmann, V.
 — — torsion.—Clarke, J. M., 5.
 Shelly boulder-clay, Iceland.—Pjetursson, H.
 Shide (I. of Wight).—Milne, J., 3.
 Shiel, Loch (Scotland).—Murray, Sir J.
 Shin, Loch, & Shin R.-basin (Scotland).—Murray, Sir J., 3; Peach, B. N., 2.
 Shoal-water deposits, Bermuda Banks.—Biglow, H. B.
 Shoals, Nantucket I.—Gulliver, F. P., 3 & 4.
 — —, Pomeranian coast.—Deecke, W., 5.
 Shonkinite, Montana.—Pirsson, L. V., 2.
 Shooter's Hill (Kent).—Salter, A. E., 4.
 SHORE, T. W. *Obit.*—*See* Anon., 12; Marr, J. E.
 Shore-lines, Arctic Ocean.—Spencer, J. W., 2.
 — —, marine.—Issel, A., 2.
 — —, Nantucket I.—Gulliver, F. P., 2.
 — —. *See also* Land, changes of level of; Raised beaches, &c.
 Shotover Hill (Oxon.).—Lamplugh, G. W., 4.
 Shropshire.—Elles, G. L.; Fortey, C.; Herries, R. S., 2.
 Shucknall Hill (Worcester).—Jones, A. G.
Shumardia.—Wiman, C.
 Siagne Valley (Provence).—Guébard, A., 7.

- Siberia (Asia).—Gerasinov, A.; Herz, O. F.; Ijitski, N.; Ivanov, M.; Khlaponin, A.; Maddren, A. G.; Meister, A.; 1 & 2; Palibin, I. V.; Rippas, P.; Schmidt, F. von, 3 & 4; Spring, R., 2; Walsh, G. E.; Yachevski, L., 1 & 2; Yavorovski, P.; *see also* Tomsk, &c.
- Siberian Ry., Central.—Friz, W.
- Sicily.—Checchia-Rispoli, G.; Clerici, E., 4 & 5; Gregorio, A. de, 2 & 3; La Valle, G.; Manzella, E.; Rovereto, G., 3.
- Sideronatriite.—Scharizer, R.
- Sidlaw Hills (Forfar).—Dow, R.
- Sigillaria*.—Köhne, W.
- Sigmomys*.—Ameghino, F., 8.
- Signa (Tuscany).—Ristori, G., 2.
- Sikhota-Alin Mts. (Primorsk).—Palibin, I. V.
- Silesia.—Andrae, A.; Berg, G.; Beyerschlag, F.; Dathe, E.; Flegel, K., 1 & 2; Frech, F., 4-6; Friedrich, E. G.; Geisenheimer, P.; Gueric, G., 1 & 2; Milch, L., 3; Petrascheck, W., 3; Rimann, E.; Sachs, A., 2; Schmidt, A., 2; Sturm, F.; Wysogórski, J., 2 & 3.
- Silica in Carboniferous Limestone.—Knight, N.
- Silicate - analysis, microchemical.—Graber, H. V.
- , iron & soda.—Weyberg, Z., 3.
- Silicates, action of silver-nitrate on.—Steiger, G.
- , dissolution in soils.—Cayeux, L., 6.
- , melting-points of.—Dœlter, C., 1, 2, & 4; Harker, A., 2; Miers, H. A.; Morozovich, I., 2; Vogt, J. H. L., 1 & 2.
- Silsoe (Beds.).—Hopkinson, J.
- Silurian, Bohemia.—Želízko, J. V.
- , Boulogne.—Cornet, J.
- , Bulgaria.—Allachverdjeff, D. G.
- , Hereford.—Moore, H. C.
- , Ludlow.—Elles, G. L.
- , New York.—Grabau, A. W., 2; Hartnagel, C. A., 1 & 2; Hudson, G. H.; Ingen, G. V.; Sarle, C. J.; Shimer, H. W.
- , Normandy.—Bigot, A.
- , Ontario.—Grant, C. C.
- , Pembrokeshire.—Thomas, H. H., 2.
- , Sweden.—Munthe, H., 4; Sundbærg, G.
- , Trondhjem.—Kjær, J.
- Silver, Argentina.—Rowbotham, J. McK.
- , Asia Minor.—Simmersbach, B.
- , Bolivia.—Bradley, D. H., Jun.
- , Brazil.—Hussak, E.
- , British Columbia.—Attwood, G.; Carmichael, H.; Robertson, W. F.
- , Chile.—Avalos, C. G.; Lucio, F. de; Yunge, G.
- , Colorado.—Collins, G. E.; Lindgren, W., 4.
- , Cornwall.—Home Office, 4.
- , Elba.—Ermisch, K.
- , Hungary.—Illés, W.
- Silver, Indian Territory.—Taff, J. A.
- , Mexico.—Chance, H. M.; Laird, G. A.
- , New South Wales.—Pittman, F.
- , Peru.—Dueñas, E. I.; Masias, M. G., 1 & 2; Santolalla, F. M., 1-3.
- , Saxon Erzgebirge.—Beck, R.; Viebig, W.
- , Sweden.—Sundbærg, G.
- , Sumatra.—Ivey, J. H.
- , Tasmania.—Gregory, J. W.; Twelvetrees, W. H., 6-8.
- , Tuscany.—Ermisch, K., 2.
- , Tyrol.—Rose, —.
- , United States production.—Day, D. T.; Emmons, S. F., 2.
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- Silver-Cup Mines (B.C.).—Attwood, G.
- Sibirskites*.—Kœnen, A. von; Pavlov, A. P.
- Simplimus*.—Ameghino, F., 7.
- Simplon massif (Pennine Alps).—Stella, A., 2.
- Simplon Tunnel (Pennine Alps).—Derôme, J.; Fox, F.; Gerrard, J.; Heim, Alb.; Preiswerk, H.; Schardt, H., 3 & 4; Sulzer-Ziegler, E.
- Simulia*.—Meunier, F.
- Sind (India).—Nœtling, F.
- Sinemurian, Portugal.—Choffat, P., 2.
- Sinj (Dalmatia).—Kerner, F. von, 2 & 4.
- Sinopa*.—Matthew, W. D., 3.
- Siphonalia*.—Clark, W. B.
- Siphonotreta*.—Chapman, F.
- Sirenia, Tertiary.—Abel, O.; Lorenz von Liburnau, L.
- Sisenna*.—Bœhm, J.
- Siva Oasis (Egypt).—Hohler, T. B.
- Sivatherium*, Adrianople.—Abel, O., 2.
- Skagersholm (Gothland).—Blomberg, A., 2.
- Skaraborg (Gothland).—Munthe, H., 4.
- Skiodromes, crystal.—Becke, F., 3.
- , *see also* Crystallographic, &c.
- Sköfde (Gothland).—Munthe, H., 2.
- Skye (Hebrides).—Clough, C. T., 1 & 2; Stracey, B.
- SLADE, J., *Obit.*—*see* Woodward, H. B., 2.
- Slags, melting-points of.—Dœlter, C., 1, 2, & 4; Harker, A., 2; Hlawatsch, C.; Miers, H. A.; Morozovich, I., 2; Weyberg, Z., 2; Vogt, J. H. L.; Zambonini, F., 4; *see also* Silicates, &c.
- , Wyoming natural.—Bastin, E. S.
- Slates, cleavage of.—Fisher, O., 5; Harker, A., 3.
- , Manx.—Blake, J. F.
- , Saxony.—Bergt, W.
- , Snowdon.—Dakyns, J. R.
- , Tasmania.—Twelvetrees, W. H.
- ‘Sleekburn’ Valley (Northumberland).—Woolacott, D.
- Smezhinogorsk (Altai).—Spring, R., 2.
- Smilčić (Dalmatia).—Schubert, R. J., 7.
- Smithite.—Solly, R. H.

- Smithsonite.—Hobbs, W. H., 3; Jecker, L.
- Smittia*.—Canu, F.; Neviani, A., 2.
- Snake, Tertiary.—Janensch, W.
- Snowdon (N. Wales).—Dakyns, J. R.
- Snowy R. (Victoria).—Shearsby, A. J., 2.
- 'Soapstone Bed,' Colne.—Bolton, H., 2.
- Soay, I. of.—Clough, C. T.
- Sodalite, syenite with.—Thugutt, St. J.
- Sodertorn (Upsala).—Geer, S. de.
- Sodium, redistribution of.—Van Hise, C. R., 3.
- Soignes (Hainault).—Rutot, A., 3.
- Soils, analysis of.—Cayeux, L., 1 & 7; Crook, T.; Dumont, J.; Kilroe, J. R.
- , classification of.—Atterberg, A., 1 & 2; Guell, W.; Lagatu, H.
- , dissolution of silicates in.—Cayeux, L., 6.
- , Fife & Forfar.—Smith, W. G.
- , France.—Bogloslovski, N. A.
- , Hungary.—Gull, W.; Horusitzky, H.; László, G. von; Liffa, A.; Timkó, E.; Treitz, P.
- , Magdeburg.—Jacob, T.
- , minerals & C.—Cayeux, L., 1, 3, 6, & 7; Delage, A.
- , Morocco.—Meunier, S., 6.
- , Queensland.—Dunstan, B.
- , rain-water percolation.—Sutherst, W. F.
- , Rhodesia.—Cameron, J.
- , Rome.—Orzi, D.
- , Russia.—Bogloslovski, N. A.
- , size-scale grading.—Atterberg, A., 1 & 2.
- , Sweden.—Hægbohm, A. G., 2; Sernander, R.
- , Transvaal.—Cross, A. F.
- Solarium*.—Deninger, K.; Newton, R. B., 6.
- Solea*.—Bassani, F., 3.
- Solecurtus*.—Wilckens, O.
- Solen*.—Weaver, C. E.
- Solenocheilus* & *Solenomya*.—Stobbs, J. T.
- Soleure or Solothurn (Switzerland).—Rollier, L., 1, 4, 6, & 7; Schmidt, C.
- Somaliland (N.E. Africa).—Arsандаux, H., 1-3; Dacqué, E., 1 & 2; Newton, R. B., 6.
- Sommen Lake (Gothland).—Svedmark, E.
- Somerset. — Balch, H. E.; Morgan, C. L.; Oriol, B.; Rudler, F. W., 3; Short, A. R., 1 & 2; Sibly, T. F.; Tutchter, J. W.; Vaughan, A., 3; Wickes, W. H.; Woodward, H. B., 7.
- Souderburg (Schleswig - Holstein). — Gottsche, C.
- Sonminia*.—Buckman, S. S.
- Sonora* (Mex.).—Blake, W. P., 3.
- Sophora*.—Palibin, I. V.
- Sorrel, Mt. (Leicester).—Rastall, R. H., 3.
- Sorrento (Campania).—Baese, E.
- Sorsogón (Luzon).—Becker, G. F., 3.
- Souesite.—Hoffmann, G. C.
- Soufrière, La (Guadeloupe).—Hovey, E. O.
- Soulac (Médoc).—Degrange-Touzain, A.
- South Australia.—Basedow, H.; Brown, H. Y. L.; Dennant, J.; Fawns, S., 2; Gascuel, L.; Gee, L. C. E.; Howchin, W.; Woolnough, W. G., 1 & 2.
- South Orkneys.—Pirie, J. H. H.
- Southampton (Hants).—Whitaker, W., 5.
- Southern Cross (W. Austral.).—Gibson, C. G., 2.
- Spain.—Bullen, R. A., 2; Muñoz del Castello, J., 1 & 2; Nicklès, R.
- , See also Catalonia, &c.
- Spatangolite.—Lindgren, W., 3.
- Spaniolepis*.—Gotjanović-Kramberger, K.
- Spaniomys*.—Scott, W. B., 2.
- Sparnacian, Belgium.—Rutot, A., 2; Van Ertborn, O.; see also Tertiary.
- , Marne.—Leriche, M.
- Sparth - Bottoms Quarry (Lanes). — Baldwin, W.
- Spatangus*.—Fourtan, R.
- Spathic iron-ore, Dauphiné.—Camous, —.
- Species, evolution of.—Raulin, V.
- , formation of a.—Walker, J. F.
- Speeton Cliffs (Yorks).—Hobson, B.
- Speleology.—Martel, E. A., 8.
- Sphaerocystites*.—Schuchert, C.
- Sphærolitic rocks, Kirghiz District.—Jeremina, (Mrs.) E.
- Sphalerite.—Hobbs, W. H., 3.
- Sphenacanthus*.—Traquair, R. H., 2.
- Sphenophyllum*.—Scott, D. H., 4.
- Sphenopteris*.—Grand'Eury, F. C., 3; Kidston, R., 3.
- Sphyrænodus*.—Toula, F.
- Spirangium*.—Sauvage, H. E., 2.
- Spirifer*.—Chapman, F., 5; Dun, W. S.; Loomis, F. B.; Thomas, I.; Vaughan, A.
- Spiriferina*.—Martelli, A.; Rau, K.; Vaughan, A.
- Spirigera*.—Martelli, A.
- Spirillina*.—Hucke, W.
- Spirocyelina*.—Schlumberger, C., 3.
- Spirorbis*.—Barrois, C., 2; Clark, W. B.; Rovereto, G., 2.
- Spirula*.—Clark, W. B.
- Spitsbergen (Arctic).—Bäckström, H.; Stevenson, J. J., 2 & 3.
- Spodumene.—Kunz, G. F.
- Spoletto (Umbria).—Lotti, B.
- Spondylus*.—Newton, R. B., 6.
- Spongasteriscus*.—Clark, W. B.
- Sponges, calcareous.—Weinschenk, E., 3.
- , Jurassic.—Gregorio A. de, 2.
- , Quaternary.—Neviani, A., 3.
- Spongodiscus*, *Spongolonche*, *Spongoprunum*, & *Spongotripus*.—Squinabol, S., 3.
- Sporangium-like organs of *Glossopteris*. —Arber, E. A. N.
- Sportella*.—Clark, W. B.

- Sprechenstein (Tyrol).—Bonney, T. G., 8.
- Springbok Flats (Transvaal).—Kynaston, H., 6; Mellor, E. T., 4 & 6.
- Springs, Sweden.—Hofman-Baug, O.
- Squatina*.—Clark, W. B.
- Squalodontidae.—Piaz, G. dal.
- Svapavaara (Sweden).—Wilkinson, W. F.
- Stade (Hanover).—Beyschlag, F.
- Staffelite.—Schwantke, A., 2.
- Staffordshire.—Gibson, W., 1 & 2; Hind, W.; Kidston, R.; Stobbs, J. T., 1 & 3; Strangways, C. F., 2; Ward, J.; Warth, H.
- Stampian, Sardinia.—Bassani, F., 6.
- Stang Alp (Carinthia & Styria).—Humphrey, W. A.
- Stanner (Radnor).—Herries, R. S., 2.
- Stansted (Essex).—Irving, A., 3.
- Start Point (Devon).—Ussher, W. A. E., 3.
- Stassfurt (Germany).—Ochsenius, K.
- Stau Lake-Basin, old (Silesia).—Friedrich, E. G.
- STAUB, A. *Obit.*—See Koch, A.
- Stauralastrum* & *Staurosphæra*.—Squinabol, S., 3.
- Steatite, Cyprus.—Duke, J. C.
- Steben, Bad (Bavaria).—Hintz, E.
- Stensigmoos (Schleswig-Holstein).—Gottsche, C.
- Stegopelta*.—Williston, S. W., 3.
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- Steinheim (Würtemberg).—Sieber, —.
- Steiromys*.—Scott, W. B., 2.
- Stelzneria*.—Deninger, K.
- Stenothecca*.—Wiman, C., 2.
- Stephanocare*.—Woodward, H., 2.
- Stephanoceras*.—Prinz, G., 2.
- Stephanocœnia*.—Koby, F.
- Stettin (Pomerania).—Deecke, W.; Potonié, H.
- Stevens Co. (Wash.).—Clarke, F. W.
- Stibnite.—Cesaro, G., 2.
- Stichocorys* & *Stichomitra*.—Squinabol, S., 3.
- Stichomys*.—Scott, W. B., 2.
- Stilpnochlorane.—Kretschmer, F.
- Stink-stone.—Harrington, B. J.; Potonié, H., 2 & 3.
- Stockholm (Sweden).—Wiman, C., 2.
- Stomatopora*.—Lang, W. D.
- Stone-age, Congo.—Delisle, F.
- engravings.—Anon., 22.
- Stone-mining, text-book on.—Foster, Sir C. Le N.
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- deposits, Sicily.—Gregorio, A. de, 2.
- Straparollina*.—Hudson, G. H.
- Straschitz (Bohemia).—Želízko, J. V., 2.
- Stratigraphical classifications of S. African rocks.—Corstorphine, G. S.; Hatch, F. H., 4; Rogers, A. W., 4.
- Streptospondylus*.—Nopcsa, F., 3.
- Stretto (Dalmatia).—Schubert, R. J., 9.
- Stromatoporella*.—Guerich, G.
- Stromboli (Lipari Is.).—Anderson, T.; Lacroix, A., 15.
- Strombus*.—Gregorio, A. de.
- Stropheodonta*.—Thomas, I.
- Strophodus*.—Blake, J. F., 2.
- Strophomena*.—Raymond, P. E., 2; Reed, F. R. C.
- Strumble Head (Pembroke).—Elsden, J. V., 2.
- Struthiolariopsis*.—Wilckens, O.
- STUEBEL, A. *Obit.*—See Branco, W., 4; Wagner, P.
- Stylartus*.—Squinabol, S., 3.
- Stylina*.—Angelis d'Ossat, G. de; Koby, F.
- Stylotrochus*.—Squinabol, S., 3.
- Styracoteuthis*.—Crick, G. C., 5.
- Styria (Austria).—Dreger, J.; Hørnes, R., 2; Hofmann, A., 1 & 2; Humphrey, W. A.; Kossmat, F., 2; Mojsisovics, E. von; Redlich, K. A.; Sigmund, A.; Zeleny, V.
- Submarine valleys, N. American Atlantic.—Spencer, J. W., 3 & 5.
- Subulites*.—Hudson, G. H.; Raymond, P. E., 2.
- Sudagh Valley (Crimea).—Missuna, A.
- Sudan (N. Africa).—Courtet, H., 1 & 2; Hubert, H.; Lacroix, A., 11; Laparent, A. de, 1 & 2.
- Sudbury (Ont.).—Daly, R. A., 2; Dickson, C. W.
- Sudbury, glacial lake (Mass.).—Goldthwait, J. W.
- Sudetic Mts. (Silesia & Bohemia).—Petrascheck, W., 5.
- SÜESS, E., *Biogr. of.*—See Geikie, Sir A., 2.
- SÜESS'S theories, physiography &.—Davis, W. M., 3.
- Suffolk.—Harmer, F. W., 1-3; Spiller, J.; Wilson-Barker, D.
- Crag, bone from the.—Fisher, O., 3.
- Suida, Tertiary.—Peterson, O. A.
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- Sulphur-crystals. — Brauns, R., 3; Gaubert, P., 3.
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- Sun, underground temperature & the.—Kueppers, E.
- Sundewitt, see Sonderburg (Schleswig-Holstein).

- Superior, Lake, Region (N. Am.).—Van Hise, C. R., 4.
 ———, copper-district.—Lane, A. C., 2.
 Suran R. (France).—Bourgeat, —.
 Surface-stains, ore-deposits &.—Lakes, A., 2.
 Surrey.—Bullen, R. A., 3; Herries, R. S.; Roberts, N. F., 1-3; Salter, A. E.; Young, G. W., 1 & 2.
 Surveying. *See* Geological Surveying.
 Sussex.—Elsden, J. V.; Palmer, P. H.
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 ———, ore-deposits.—Sundbærg, G. *See also* Iron, &c.
 ———, radium-minerals.—Landin, J.; Sjögren, H., 2, 3, & 4.
 ———, water-analyses.—Hofman-Bang, O.
 ———. *See also* Cambrian, Coal, Glacial, Iron, Silurian, &c.
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 ———, Forest Cantons, nephrite.—Kalkowsky, E.
 ———, Lucerne, Klippen district.—Tobler, A., 2.
 ———, Tertiary mammalian fauna of.—Stehlin, H. G.
 ———. *See also* Alps, Glaciers, &c.
 Sydney (N.S.W.).—Morrison, M.
 Syenite, Bavaria.—Glungler, G.
 ———, Biella.—Zamboni, F., 2.
 ———, felspars.—Thugutt, St. J.
 ———, Guinea.—Lacroix, A., 16.
 ———, New Hampshire.—Pirsson, L. V., 3.
 ———, Quebec.—Adams, F. D.
 ———, Tödi Alps.—Koenigsberger, J.
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Symphysurus.—Wiman, C.
Sympterygia.—Bather, F. A., 2.
 Synchronic crystallization, mineral.—Gaubert, P., 4.
Synsyclonema.—Stobbs, J. T.
Syngnathus.—Simionescu, I.
Syntrophia.—Hudson, G. H.
 Syracuse (Sicily).—Checchia-Rispoli, G.
 Syracuse District (N.Y.).—Fairchild, H. L., 3; Kraus, E., H. 2.
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Syringopora.—Stuckenberg, A.; Vaughan, A.
Syringothyris zone, Weston - super-Mare.—Sibly, T. F.
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 Tahiti (Pacific Ocean).—Lacroix, A., 3.
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 Talc, United States production.—Day, D. T.; Peck, F. B.
 Talemtaga, Mt. (Algeria).—Savornin, J.
 Taman Penin. (S. Russia).—Abel, O., 4.
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Tancredia.—Benecke, E. W.
 Tanga (German East Africa).—Kœrt, W.
 Tangier (Morocco).—Rzeliák, A., 2.
 Tangkoguea (Korea).—Bauer, L.
 Tanneverge, Mt. (Valais).—Collet, L. W.
 Tapanuli (Sumatra).—Wickmann, A., 2.
Tapes-Sand, Steensigmoos.—Gotsche, C.
 Taplow (Bucks).—White, H. J. O.
 Taranto (Apulia).—Bassani, F., 3; Gasparis, A. de, 3.
 Tarawera, Lake (N.Z.).—Rastall, R. H., 2.
 Tarbes (Hautes-Pyrénées).—Carez, L.
 Tarentaise glaciers (Savoy).—Girardin, P.
 Tarn (France).—Lévy, Aug. M., 4; Martel, E. A.
 Tarnowitz (Silesia).—Michel, R.
 Tarns, Ticino.—Garwood, E. J.
 Tasmania.—Fawns, S., 2; Gregory, J. W.; Twelvetrees, W. H., 1-3, 5-8.
 Tass (Hungary).—Gull, W.
 Tatarka R. (Siberia).—Meister, A.
 Tatatila (Mex.).—Capilla, A., 2.
 Tatra Range (Hungary).—Macgregor, (Miss) M.
 Tauern Tunnel (Styria).—Becke, M. F., 1 & 2.
 Taunus Mts. (Hesse).—Beyschlag, F.; Reinach, A. von.
 Taupo Plateau & Lake (N.Z.).—Hill, H., 2; Rastall, R. H., 2.
 Taviche (Mex.).—Chance, H. M.
 Tay Valley (Perth).—Barrow, G.
 Tchad, Lake. *See* Chad.
 Teeth, mammalian.—Lambe, L. M.
 Tégelen (Dutch Limburg).—Dubois, E., 1 & 4; Velge, G., 1 & 2.
 Tegern, Lake (Bavaria).—Ammon, L. von; Fink, W.

- Telè (Moravia).—Maška, K. J.
Teleoceras.—Osborn, H. F., 5.
Teolorhinus.—Osborn, H. F., 4.
Tellina.—Dainelli, G.; Jensen, A. S.;
 Howorth, Sir H. H., 3; Weaver, C. E.
 — gravel, Dumball I.—Bolton, H.
 Tellurite.—Schaller, W. T., 3.
 Tellurium-minerals.—Hillebrand, W. F.
Temnocheilus.—Stobbs, J. T.
 Temperature, underground.—Becke, F.,
 1 & 2; Branco, W., 2; Everett, J. D.;
 Fox, F.; Gilbert, G. K., 3; Kneppers,
 E.; Stremme, H.; *see also* Tunnels,
 &c.
 Tena, Mt. (Congo Free State).—Preu-
 mont, G. F. J.
 Tennessee (U.S.A.).—Fuller, M. L., 2-4.
 Tennessee R., Tertiary history of. —
 Johnson, D. W.
 TENORE, G. *Obit.*—*See* Bassani, F., 7.
Teonoma.—Sinclair, W. J., 2.
 Tepil R. (Pern Gov.).—Duparc, L., 4.
 Tepl (Bohemia).—Wohnig, K.
Terebra.—Clark, W. B.
Terebralia.—Morgan, J. de, 2.
Terebratella.—Bøhm, J., 5; Hutton,
 F. W., 4.
Terebratula.—Bøhm, J., 5; Clerc, M.;
 Gregorio, A. de, 2; Hutton, F. W., 4;
 Krumbeck, L.; Péron, A.; Rau, K.;
 Upton, C.
Terebratulina.—Bøhm, J., 5.
 Ternoise R. (France).—Gosselet, J., 2.
 Terraces, Germany (N.).—Beyschlag,
 F.; Kaunhowen, F., 2.
 —, Inn Valley.—Ampferer, O.
 —, submarine.—Spencer, J. W.
 —, Sweden.—Geer, G. de.
 —, Ural Mts. (N.).—Duparc, L., 2.
 Tertiary, Algeria. — Ficheur, E., 4;
 Savornin, J.
 —, Asia Minor.—Bukowski, G. von, 3.
 —, Baden.—Rollier, L., 5.
 —, Belgium.—Mourlon, M., 3; Re-
 nier, A.; Rutot, A., 1-3; Van Ert-
 born, O.; Velge, G., 1 & 3.
 —, Biarritz.—Boussac, J.
 —, Bohemia.—Hoefel, H., 2; Katzer,
 F.
 —, California.—Weaver, C. E.
 —, Campine.—Dubois, E., 1, 2, & 4.
 —, Chappaquiddick I.—Brown, T. C.
 —, Chemakha.—Andrusov, N. E.
 —, classification of.—Grossouvre, A.
 de, 3.
 —, Dahooney.—Bøhm, J., 4.
 —, Dalmatia.—Dainelli, G.; Kerner,
 F. von, 1, 2, 4, & 5; Schubert, R. J.,
 1, 6, & 7; Stefani, C. de.
 —, Denmark.—Greenwall, K. A., 3;
 Nørregaard, E. M.
 —, Devon.—Lowe, H. J.
 —, Egypt. — Beadnell, H. J. L.;
 Bonnet, E.
 —, France.—Boule, M.; Cayeux, L.,
 4; Collot, L.; Courty, G.; Dollfus,
 G. F., 2; Guébbard, A., 7; Leriche,
 M.; Stefano, G. de.
 Tertiary, Galicia. — Friedberg, W.;
 Wójcik, K., 1 & 2.
 —, Hanover—Beyschlag, F.
 —, Hesse.—Reinach, A. von, 2;
 Steuer, A., 2; Wittich, E.
 —, Hungary.—Tager, H.
 —, Istria.—Manek, F.; Moser, L. K.;
 Schubert, R. J., 5.
 —, Korea.—Carles, W. R.
 —, Limbrug (Dutch). — Uhenbroek,
 G. D.
 —, Magdeburg.—Linstow, O. von.
 —, Mainz Basin.—Lienenklaus, E.;
 Schöendorf, F.
 —, Marches (Italy).—Cassetti, M., 3.
 —, Maryland.—Clark, W. B.
 —, Moravia.—Ržehak, A.
 —, Morocco.—Brives, A.; Gentil, L.,
 3; Ržehák, A., 2.
 —, Naples.—Bellini, R.
 —, New Caledonia.—Deprat, J., 7.
 —, New Jersey.—Ries, H., 6.
 —, New Zealand.—Boehm, J., 5;
 Clarke, E.; Park, J., 3.
 —, Jura (Swiss).—Jenny, F.
 —, Patagonia.—Gaudry, A.; Wilck-
 ens, O., 3.
 —, Persia.—Douvillé, H., 7.
 —, Piedmont.—Bassani, F., 2.
 —, pocket in Jurassic, 'Verrerie de
 Roche', Berne.—Fleury, E., 2.
 —, Pomerania.—Greenwall, K. A., 3.
 —, Sardinia.—Bassani, F., 6; Sacco,
 F., 6.
 —, Senegambia.—Chautard, J.
 —, Sicily.—Checchia-Rispoli, G.
 —, Sind.—Nøtting, F.
 —, South Australia.—Basedow, H.;
 Dennant, J.
 —, Somaliland.—Newton, R. B., 6.
 —, Sylt I.—Stolley, J.
 —, Tennessee R.—Johnson, D. W.
 —, Tunis.—Locard, A.; Thomas, P.
 —, Umbria.—Airaghi, C.
 —, Venetia.—Boussac, J.; Gregorio,
 A. de.
 —, Yuman.—Mansuy, H.
 —. *See also* Miocene, &c.
 Tessala Mts. (Oran).—Gentil, L., 2.
 Tetuan (Morocco).—Gentil, L., 3.
Tetracarcinus.—Weller, S.
Tetracystis.—Schuchert, C.
 Tetradymite.—Hillebrand, W. F.
Tetragonites, *see* *Entogonites*.
 Teulada (Sardinia).—Peruzzi, L.
 Teutoburg Forest (Germany).—Meyer, E.
 Tewkesbury (Gloucester).—Richardson,
 L., 4.
 Texas (U.S.A.).—Broili, F.; Emmons,
 S. F., 2; Hidden, W. E.; Ries, H.,
 5; Veatch, A. C.
Textilaria.—Hucke, W.
 Thalénite.—Hillebrand, W. F., 2.
 Thames goldfield, Auckland (N.Z.).—
 Paul, M.; Sollas, W. J., 2.
 Thames Valley.—Hinton, M. A. C.;
 Irving, A., 4; Leach, A. L.; Salter,
 A. E.; Woodward, H. B., 4.

- Thamnostrea* & *Thamnosseris*.—Koby, F.
 Thauet, I. of.—Whitaker, W., 7.
 Tharandt (Saxony).—Bergt, W., 2.
 Thayngen (Schaffhausen).—Meister, J.
Thecidea.—Rau, K.
Thecocyathus.—Koby, F.
Thecodonta.—Clark, W. B.
Thecosmilia.—Koby, F.; Missuna, A.
Thelodus.—Traquair, R. H., 6.
 Thenardite.—Van't Hoff, J. H., 2.
Theocapsa, *Theoconus*, *Theocorys*, *Theocyrtilis*, *Theodiscus*, & *Theosyringium*.—Squinabol, S., 3.
Theonaa.—Clark, W. B.
Theristea.—Locard, A.
 Thermal chemistry.—Thomsen, J.
 — waters, Arkansas, radioactivity of.—Boltwood, B. B.
 —, Homburg v. d. Höhe.—Fresenius, H., 2.
 —, Iceland.—Thoroddsen, T., 3.
 —, Ischia.—Oglialoro - Todara, A., &c.
 —, origin of.—Launay, L. de, 3.
 —, Phlegraean Fields.—Lorenzo, G. de, 9; Piutti, A.
 —, Wiesbaden.—Henrich, F.
 Thermometry, water - supply &.—Martel, E. A., 2.
 Thianshan Mts. (Asia).—Huntington, E.; Merzbacher, G., 1 & 2.
Thinfieldia.—Seward, A. C.
Thinohyus.—Sinclair, W. J.
Thiollierierinus.—Remeš, M.
Thomomys.—Sinclair, W. J., 2.
 Thonon (Haute-Savoie).—Schenk, A.
 Thorianite, Ceylon.—Coomáraswámy, A. K., 4; Dunstan, W. R., 3.
 Thorencs Valley (Alpes-Maritimes).—Guébbard, A., 3.
 Thorium-minerals.—Crook, T., 2; Dunstan, W. R., 3 & 5; Evans, J. W., 8.
 Thorn-Eberswalde Valley (Prussia).—Keilhack, K., 2; Maas, G.
Thuja.—Stanton, T. W.
 Thuringia (Germany).—Beyschlag, F.; Kretschmer, F.; Walther, K.
 Thrace (Turkey).—Schaffer, F. X.
Thracia.—Loriol, P. de; Weaver, C. E.; Wilckens, O.
 Thrybergh (Yorks).—Middleton, F. E.
Thysanoceras & *Thysanolytoceras*.—Buckman, S. S., 2.
Thysanocerinus.—Talbot, M.
Tiaradendron.—Koby, F.
 Tiber R. (Rome).—Stella, A.
 Tibet (Asia).—Hayden, H. H.; Rawling, C. G.
 Ticino (Switzerland).—Garwood, E. J.; Klemm, G., 5.
 Tierra del Fuego (S. Am.).—Brain, J.
 Tijucal (Brazil).—Hussak, E.
 Tilaí (Urals) & tilaíte.—Duparc, L., 4.
 Tilton (Leicester).—Roehling, H. A., 1 & 3.
 Tin, Alaska.—Brooks, A. H.
 —, assay of.—Collins, J. H.
 Tin, Bolivia.—Bradley, D. H., Jun.; Roberts, M.
 —, Cornwall.—Home Office, 4; Macalister, D. A.
 —, Erzgebirge (Saxony).—Mann, O.
 —, French Laos.—Gascuel, L., 2.
 —, Madagascar.—Blake, G. S.
 —, Malay States.—Dykes, F. J. B.; Fawns, S., 1 & 2; Scrivenor, J. B., 5.
 —, occurrences in the world.—Fawns, S., 2.
 —, Queensland.—Ball, L. C.; Clotten, E.; Fawns, S., 2.
 —, Tasmania.—Fawns, S.; Twelvetrees, W. H., 6-8.
 —, Transvaal.—Fawns, S., 2; Hall, A. L., 1 & 3; Mereusky, H.
 —, United States.—Day, D. T.; Emmons, S. F., 2; Fawns, S. F., 2.
 —, Venetia.—Ržehák, A., 4.
 —, Western Australia.—Maitland, A. G., 1-4.
 Tin-gangue, Erzgebirge.—Viebig, W.
 Tirschenreuth (Bavaria).—Glungler, G.
 Tis R. (Siberia).—Ijitski, N.
 Titaniferous iron - ore, Wyoming.—Kemp, J. F.
 Titanite.—Nicolau, T., 2; Schei, P.
 Titicaca, Lake (S. Am.).—Ochsenius, C., 2.
Tmetoceras.—Buckman, S. S.
 Toarcian, Besançon.—Deprat, J., 3.
 Toba (Japan).—Ogawa, T.
 Tobermorite.—Currie, J.
 Toce Valley (Piedmont).—Tacconi, E., 2.
 Tödi Alps (Switzerland).—Königsberger, J.
 Tolfa (Rome).—Millosevich, F., 2.
 TOLMATSCHOV Arctic Expedition.—Schmidt, F. von, 3 & 4.
 TOMES, R. F. *Obit.*—See Batt, W.; Richardson, L., 5.
Tomistoma.—Andrews, C. W.
 Tomsk Gov. (Siberia).—Brown, L. B.
 Tomsk-Nijni-Udinsk section, Siberian Ry.—Friz, W.
 Tonale, Mt. (Tyrol).—Hammer, W., 1 & 3.
 Topaz.—Goldschmidt, V., 2 & 3; Schaller, W. T., 3; Tchernik, G. P., 2.
 Topography, caverns &.—Russell, I. C., 4.
 Torbrook (Nova Scotia).—Bell, R.
Torlessia.—Bather, F. A.
 Torrenthorn massif (Valais).—Lugeon, M., 2.
 Torriglia (Liguria).—Issel, A.
 Torsion, lamellibranch shell.—Clarke, J. M., 5.
 Tortoise, Cretaceous.—Sternberg, C.
 —, Tertiary.—Hooley, R. W.
 Tortola I. (W.I.).—Hægboom, A. G., 4.
 Tosterup (Scania).—Törnebohm, A. E.
 Tour Saillère (Valais).—Collet, L. W.
 Tourmaline, tin &.—Mann, O.

- Tourmaliniferous mica-schist, Apuan Alps.—Vaglini, C.
 Townsville (Queensl.).—Dunstan, B.
Toxaster.—Loriol, P. de, 2.
Toxochelys.—Wieland, G. R.
Toxotemnus.—Ameghino, F.
Trachyceras.—Böhm, J.
 Trachyte, Black Hill of Earldon.—Goodchild, J. G., 4.
 —, Bohemia.—Wohnig, K.
 —, Caucasus.—Læwinson-Lessing, F., 2.
 —, Godesberg.—Fliegel, G.
 —, Montana.—Pirsson, L. V., 2.
 —, Somaliland, &c.—Arsандаux, H., 2.
 — tuffs, Alberta.—Knight, C. W.
Trachurus.—Bassani, F., 3.
 Tracks, crustacean.—Woodworth, J. B.
 — fossil.—Capeder, G., 3.
 —, Potsdam Sandstone.—Clarke, J. M., 2.
 —. *See also* Footprints.
Tragoceurus & Tragoreas.—Schlosser, M.
 Transvaal (S.A.).—Corstorphine, G. S.; Cross, A. F.; Day, D. T.; Fawns, S., 2; Frames, M. E.; Hall, A. L., 1-4; Hatch, F. H., 1-4; Holmes, G. G., 1 & 2; Horwood, C. B., 1-3; Jennings, H.; Johnson, J. P., 1 & 2; Kynaston, H., 1-7; Jorissen, E.; Luttmann-Johnson, H.; Mellor, E. T., 1-8; Merensky, H., 1 & 2; Molengraaff, G. A. F., 1 & 2; Philippi, E., 4; Rand, R. F.; Simmersbach, B., 3; Stephen, M. J.; Swinburne, U. P., 1-3; Thord-Gray, I.; Tweddill, S. M.; Watermeyer, S. F.; Weldon, H.; Whitehead, J. J.; Wilman, (Miss) M.
 Transvaal Formation, Prieska.—Schwarz, E. H. L., 5.
 Transylvania (Hungary).—Bauer, J.; Nopcsa, F.; Pálffy, M. von; Roth von Telegd, L.
 Transylvanian Alps (Rumania).—Nicolau, T., 2.
 Travertine, Rome.—Stella, A.
 Tre Croci (Tyrol).—Skeats, E. W.
 Treadwell ore-deposits (Alaska).—Spencer, A. C., 2.
 Trebitsch (Moravia).—Suess, F. E., 6.
 Trebnitz (Silesia).—Frech, F., 5.
 Trechmannite.—Solly, R. H.
 Trees, fossil, Kansas.—Shattuck, C. H.
Trematis.—Reed, F. R. C.
 Tremadoc Group, Merioneth.—Fearn-sides, W. G.
 Trent R. (Ontario).—Wilson, A. W.
 Treuchtlinger Ry. (Bavaria).—Ammon, L. von, 2.
Triarthrus.—Wiman, C., 3.
 Trias, Alps (N.E.).—Felix, J.
 —, Asia.—Frech, F., 7.
 —, Basilicata.—Lorenzo, G. de, 1 & 2.
 —, Bear I. (Barents Sea).—Böhm, J., 1 & 3.
 —, Bohemia.—Jahn, J. J., 2; Petrascheck, W., 3.
 Trias, Bulgaria.—Bakalow, P.
 —, Cadore.—Mariani, E., 2.
 —, Campania.—Bassani, F., 4; Galdieri, A., 2; Gasparis, A. de.
 —, Cheshire, Lancashire, Shropshire, &c.—Lomas, J.
 —, classification of the.—Fuchs, T., 8.
 —, Colorado.—Williston, S. W., 2.
 —, Corsica.—Tornquist, A., 3.
 —, Dalmatia.—Kerner, F. von, 3.
 —, distribution of.—Tornquist, A., 3.
 —, Haute-Saône.—Laurent, A.
 —, Hérault.—Nicklès, R., 2.
 —, Hesse.—Lang, O.
 —, Himalayas.—Diener, C.
 —, Montenegro.—Del Campana, D.; Martelli, A.
 —, New Jersey.—Eastman, C. R., 1-2; Ries, H., 6.
 —, New Mexico.—Keyes, C. R., 3.
 —, Perak.—Jones, T. R.; Newton, R. B., 2.
 —, Prussia.—Beyschlag, F.; Raab, O.
 —, Salt Range.—Jeutsch, A., 2.
 —, Salzburg.—Gorjanović-Kramberger, K.
 —, Sardinia.—Tornquist, A., 5.
 —, Silesia.—Guerich, G., 2; Michel, R.; Wysogórski, J., 2 & 3.
 —, Staffordshire.—Gibson, W., 2.
 —, Sumatra.—Wichmann, A., 2.
 —, Tyrol.—Ampferer, O., 2; Blaschke, F.; Fuchs, T., 8; Skeats, E. W.
 —, Vosges.—Benecke, E. W., 2.
 —, Westphalia.—Meyer, E.
 —, Württemberg.—Kranz, W.; Stettner, G.
 —, Wyoming.—Williston, S. W., 1 & 3.
 —, Yunnan.—Mansuy, H.
 —. *See also* Bunter, Keuper.
 Triassic marls, colours of.—Moody, G. T.
Triceratops.—Hatcher, J. B.; Schuchert, C., 3.
Trichites.—Krumbeck, L.
Tricolocampe & Tricolocapsa.—Squib-nabol, S., 3.
 Tridymite, Mont Pelé.—Iacroix, A., 5.
 —. *See also* Melanophlogite.
 Trieste (Austria).—Moser, L. K., 2.
Trigonia.—Benecke, E. W.; Böhm, J.; Etheridge, R., *fil.*, 3; Krumbeck, L.; Loriol, P. de; Velters, H.; Wilckens, O.
Trigonocarpon.—Scott, D. H.
 Trilobite Mt. (N.Y.).—Shimer, H. W.
 Trilobites, Cambrian.—Wiman, C., 3; Woodward, H., 2.
 —, Devonian.—Reed, F. R. C., 2; Thomas, J.; Woodward, H.
 —, Ordovician.—Persson, E.; Raymond, P. E., 2; Reed, F. R. C.
 —, Permo-Carboniferous.—Morgan, J. de, 2.
 —, 'Protaspis'-stage.—Woodward, H., 5.

- Trilobites, Silurian.—Lankester, E. R.; Raymond, P. E.; Reed, F. R. C., 1 & 2; Schmidt, F. von; Wiman, C., 1-3.
- Trimingham (Norfolk).—Bonney, T. G., 7; Howorth, Sir H. H., 2; Woodward, B. B.
- Trinidad (W.I.).—Dunstan, W. R., 6; Guppy, R. J. L.
- Triplicadia*.—Loriol, P. de, 2.
- Tripoli (N. Africa).—Manasse, E., 2.
- Trisphæra*.—Squinabol, S., 3.
- Tristan d'Acunha I. (S. Atlantic).—Schwarz, E. H. L., 6.
- Tritononium*.—Weaver, C. E.
- Tritylodon*.—Broom, R., 6.
- Trochærea*.—Koby, F.
- Trochictis*.—Hofmann, A.
- Trochocyathus*.—Demaunt, J.
- Trochodiscus*.—Squinabol, S., 3.
- Trochonema*.—Raymond, P. E., 2.
- Trochoseris*.—Dainelli, G.
- Trochosmia*.—Peron, A.
- Trochus*.—Blake, J. F., 2; Deninger, K.; Gregorio, G. de; Péron, A.
- Troïtsk (Perm).—Duparc, L.
- Tromsø (Norway).—Sjægren, H., 2.
- Trondhjem (Norway).—Kjær, J.
- Troöds Range (Cyprus).—Duke, J. C.
- TROOST, G. *Obit.*—See Glenn, L. C., 3.
- Trophon*.—Clark, W. B.
- Trou de l'Enfer (Cantal).—Lauby, A., 2.
- Trou-de-Souci (Côte d'Or).—Martel, E. A., 5.
- Trübau (Moravia).—Tietze, E.
- Tsang (Tibet).—Hayden, H. H.
- Tsuga*.—Palibin, I. V.
- Tuamotou Is. (Pacific).—Lévy, Aug. M., 2.
- Tucson Mts. (Ariz.).—Blake, W. P., 4; Guild, F. N., 2.
- Tufa, calcareous.—Kurek, C.
- Tuffs, Alberta.—Knight, C. W.
- , Arizona orbicular.—Blake, W. P., 4.
- , basaltic.—Sigmund, A.
- , California.—Osmont, V. C.
- , Cavan (N.S.W.) fossiliferous.—Shearsby, A. J., 2.
- , Harzburg.—Erdmannsdorffer, O. H.
- , Pompeii.—Colomba, L.
- , rhyolitic, New Zealand.—Rastall, R. H., 2.
- , Rome.—Clerici, E., 3; Stella, A.
- , Savoy.—Fliche, P., 2.
- , Swabian Alps.—Gaiser, E.; Oberdorfer, R.; Schwarz, H.
- Tug-River coalfield (W. Va.).—Payne, H. M.
- Tugurium*.—Newton, R. B., 3.
- Tula Gov. (Russia).—Tchirvinski, P. N.
- Tully (N.Y.).—Clarke, J. M., 10.
- Tunis (N. Africa).—Bédé, 1 & 2; Flick, —; Gauthier, V., 1 & 2; Jecker, L.; Le Mesle, G.; Locard, A.; Macinerny, A. J.; Péron, A.; Pervinquièrre, L.; Thomas, P., 1 & 2.
- Tunnel, Boßrück.—Geyer, G., 2.
- Tunnel, Simplon.—Derôme, J.; Fox, F.; Gerrard, J.; Heim, Alb.; Schardt, H., 3 & 4; Stella, A., 2; Sulzer-Ziegler, E.
- , Tauern (Styria).—Becke, F., 1 & 2.
- , Weissenstein.—Rollier, L., 6; Schmidt, C.
- , See also Adit.
- Turbie, La (Alpes-Maritimes).—Ambayrac, —, 2.
- Turbinella*.—Locard, A.
- Turbo*.—Deninger, K.; Krumbeck, L.; Locard, A.
- Turbonellina*.—Stobbs, J. T.
- Turin (Piedmont).—Bellini, R., 2; Issel, A., 5; Sacco, F., 4.
- Turkestan (Asia).—Huntington, E.; Stein, M. A.
- Turkey.—Abel, O., 2; Douvillé, H., 6; Hoernes, R.; Launay, L. de; Nopcsa, F., 4; Schaffer, F. X.; Zeiller, R.
- Turonian, Bohemia.—Jahn, J. J., 2.
- , Silesia.—Wysogórski, J., 3.
- Turritella*.—Deninger, K.; Locard, A.; Morgan, J. de, 2; Péron, A.; Weaver, C. E.
- Turtles, Cretaceous.—Wieland, G. R., 1 & 2.
- Tuscany (Italy).—Cortese, E.; Ermisch, K., 2; Fucini, A., 1 & 2; Puccioni, N.; Ristori, G., 1 & 2; Rovereto, G.; Stefani, C. de, 4; Taramelli, T., 6; Ugolini, R., 2 & 3; Vaglini, C.; Vinnassa de Regny, P., 3; Zaccagna, D., 2.
- 'Tuul.' See Peat, submarine.
- TUXEN, F. F. A., *Obit.*—See Hintze, V.
- Tychite.—Penfield, S. L., 2.
- Tylostoma*.—Krumbeck, L.
- Tynist (Bohemia).—Hinterlechner, K.
- Types, Museum of Practical Geology.—Allen, H. A.
- , New York State Museum.—Clarke, J. M., 11.
- , Philadelphia Acad. of Nat. Sci.—Johnson, C. W.
- , re-illustration of.—See Palæontologia Universalis; Potonié, H., 4.
- , U.S. National Museum, Washington.—Merrill, G. P.
- Typtotherium*.—Ameghino, F., 4.
- Tyne Valley.—Woolcott, D.
- Tyrol.—Ampferer, O., 1, 2, & 4; Blaschke, F.; Bonney, T. G., 8; Deltzer, C., 3; Fuchs, T., 8; Grossouvre, A. de, 2; Hammer, W., 1-3; Klemm, G., 5; Ohnesorge, T.; Proboscht, H.; Rose, —; Skeats, E. W.; Suess, E.; Trener, G. B.; Weinschenk, E., 2.
- Ü (Tibet).—Hayden, H. H.
- Ubi, Mt. (Queensl.).—Dunstan, B.
- Udenodon*.—Jækel, O.
- Udine (Venetia).—Issel, A., 4.
- Uelle R. (Congo Free State).—Prenumont, G. F. J.
- Ufa Gov. (Russia).—Krasnopolski, A.

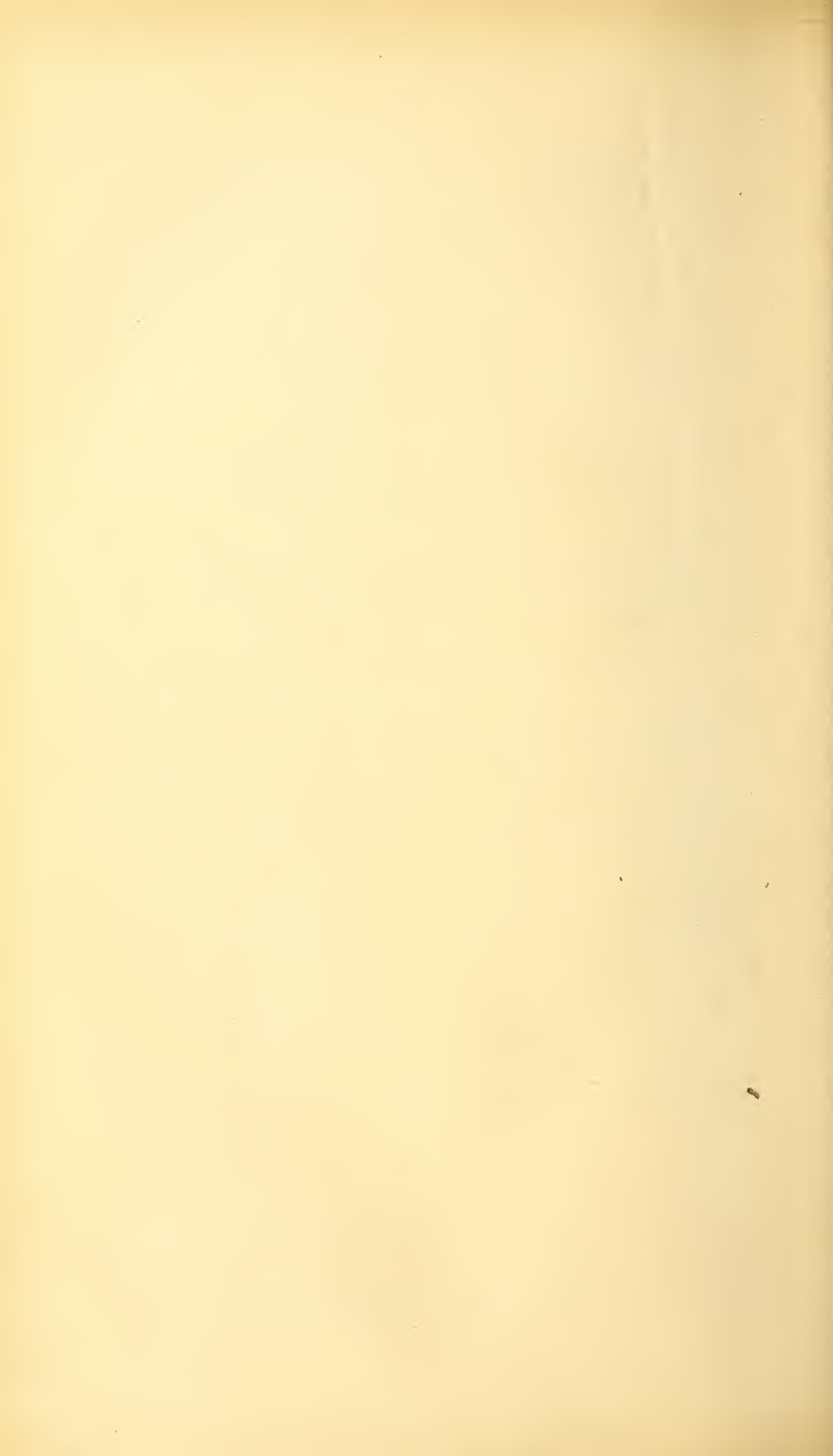
- Uganda (Equatorial Africa).—Delmé-Radcliffe, C.
- Uitenhage Series.—Hatch, F. H., 4.
- Uliveto (Tuscany).—Vinassa de Regny, P., 3.
- Ulm (Württemberg).—Kranz, W.
- Ultrichospira*.—Donald, (Miss) J., 2.
- Ulden Valley (Tyrol).—Hammer, W., 2.
- Umbria (Italy).—Airaghi, C.; Lotti, B.; Verri, A.; Vinassa de Regny, P.
- Umkwelane (Zululand).—Etheridge, R., *fl.*, 3.
- Untamvuna Series.—Hatch, F. H., 4.
- Underground temperature, &c. *See* Temperature, Water, &c.
- Uncinula*.—Hucke, W.
- Undularia*.—Behm, J.
- Unia Riv. (Siberia).—Rippas, P.
- Unicardium*.—Krumbeck, L.
- Unio*.—Stanton, T. W.; White, C. A., 2.
- Union Springs (N.Y.).—Hartnagel, C. A.
- Uniondale (Cape Colony).—Schwarz, E. H. L., 3.
- United States Geological Survey.—Walcott, C. D.
- , mineral resources.—Day, D. T.; Emmons, S. F., 2.
- , Natural History Museums of the.—Merrill, F. J. H., 2.
- , *See also* New York, &c.
- Upemba, Lake (Congo Basin).—Buttgendbach, H., 5; Cornet, J., 4 & 5.
- Upminster (Essex).—Woodward, H. B., 4.
- Uppsala (Sweden).—Geer, S. de; Gustafsson, J. P.; Stolpe, P.; Wiman, C., 2.
- Upware (Cambs).—Lamplugh, G. W., 3.
- Ural Mts. (Russia).—Duparc, L., 2-4; Kovalev, P.
- Uraninite.—Landin, J.; Moss, R. J.; Stép, J.
- Uranite.—Boubée, E.
- Uranium-minerals.—Muñoz del Castillo, J., 1 & 2; Rutherford, E.
- Uri (Switzerland).—Pannekoek, J. J.
- Úrmény (Hungary).—Horusitzky, H.
- Urosyca*.—Weaver, C. E.
- Urotava Mt. (Transylvanian Alps).—Nicolau, T., 2.
- Ursus*.—Arnold-Bemrose, H. H.; Capitan, L., 4.
- Utah (U.S.A.).—Boutwell, J. M.; Emmons, S. F., 2; Jennings, E. P., 2.
- Vaal R. (S.A.).—Coe, F. E.; Molengraaff, G. A. F.
- Vaccari, Grotta (near Palermo).—Gregorio, A. de, 3.
- Vaccinites*.—Dainelli, G., 2; Toucas, A.
- Vaginella*.—Clarke, E.
- Vaginulina*.—Hucke, W.
- Vaglia (Tuscany).—Taramelli, T., 6.
- Vajdahunyad (Hungary).—Halaváts, J.
- Valais (Switzerland).—Bonney, T. G., 8; Collet, L. W.; Lugeon, M., 2; Solly, R. H.
- Valcour I. (Lake Champlain).—Hudson, G. H.
- Valenciennesia*.—Newton, R. B., 5.
- Vallendar (Rh.-Pruss.).—Engelhardt, H. — formation, Africa (S.).—Tottenham, R. G. L.
- Valley-erosion, Belgian Limburg.—Kräntzel, F.
- Valleys, creep-folding in.—Howe, J. A. —, Dauphiné.—Lory, P., 2. —, glacier.—Girardin, P., 2. —, hanging.—Upham, W., 2. —, N. American submarine Atlantic.—Spencer, J. W., 1, 3, & 5. —, origin of.—Martel, E. A. —, pre-Glacial, Durham, &c.—Woolcott, D.
- VALPY, R. H., *Obit.*—*See* Woodward, H. B.
- VAN PANHUYNS, —. *See* Dewalque, G.
- Van Rhy'n's Dorp (Cape Colony).—Rogers, A. W., 2.
- Vanadiferous minerals, Colorado.—Hillebrand, W. F., 4. —, Utah.—Emmons, S. F., 2.
- Vanadinite.—Schaller, W. T., 3.
- Vanoise massif, glaciers (Savoy).—Favre, J. N.; Girardin, P.; Mougín, P.
- Vápnó Mt. (Moravia).—Ržehák, A.
- Var (France).—Bertrand, L., 1 & 3; Martel, E. A., 11.
- Var R. (France).—Bertrand, L., 1-10; Guébbard, A., 5.
- Varanger Fjord (Norway).—Simmersbach, B., 2.
- Variolite, Kirghiz District.—Jeremina, (Mrs.) E.
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- Vaud (Switzerland).—Clerc, M.; Douvillé, H., 8; Renevier, E., 2; Rœssinger, E., 2.
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- Veins, origin of.—Howarth, O. H. Lindgren, W., 2.
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- Veruagt glacier (Tyrol).—Rabot, C.
- Vernon, Mt. (Ky.).—Tassin, W.
- Verona (Venetia).—Nicolis, E.
- 'Verrerie de Roche,' (Bernese Jura).—Fleury, E., 2.

- Vertebrate palæontology, American Museum of Natural History, New York.—Hay, O. P.
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- See also Gold, Goldfields, &c.
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- Vilbel (Hesse).—Wittich, E.
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- Vir (Montenegro).—Martelli, A.
- Vire (Normandy).—Bigot, A., 4.
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- Volcanic ash, Moleret.—Bæggild, O. B.
- , Santa Maria volcano.—Ordóñez, E.
- See also Dust, &c.
- cones, Vesuvius.—Semmola, E., 3.
- crater, Stromboli.—Anderson, T.
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- , Tasmanian, axial lines of.—Twelvetrees, W. H., 5.
- gases, earth &.—Fairchild, H. Le R., 2.
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- pipes, Cape Colony.—Rogers, A. W., 4.
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- rocks, Sahara.—Foureau, F., 1 & 2.
- , Somerset Carboniferous.—Morgan, C. L.
- See also Igneous rocks.
- Volcanoes, Bavarian embryo.—Ammon, L. von, 2.
- , Catalonia.—Sapper, K.
- , craters of.—Anderson, T.
- , earthquakes &.—Lorenzo, G. de.
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- , Hawaii.—Hitchcock, C. H., 2.
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- , sun &.—Kueppers, E.
- Vulcanology, classical authors &.—Eastman, C. R., 3; Lorenzo, G. de, 7.
- See also Volcanoes, &c.
- Vulpes.—Nehring, A.
- Vulsella.—Newton, R. B., 1 & 6.
- Vulsini volcanoes (Rome).—Moderni, P., 2; Orzi, D.
- Vulture, Mte. (Basilicata).—Lorenzo, G. de.
- Wadi-Halfa. See Halfa, Wadi.
- Wagran R. (Ural).—Duparc, L., 3.
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- , igneous-rock areas.—Watts, W. W.

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 Werfenian. *See* Trias
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 West Indies, earthquakes.—Montessus
 de Ballore, F. de.
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 Zechstein. See Permian.
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- Aarb. Bergens Mus.* See *Bergens Mus. Aarb.*
Abh. geol. Karte Elsass-Lothringen. Abhandlungen zur geologischen Specialkarte von Elsass-Lothringen. Strasburg.
Abh. hessisch. geol. Landesanst. Abhandlungen der grossherzoglich hessischen geologischen Landesanstalt. Darmstadt.
Abh. k.-bayer. Akad. Wissensch. Abhandlungen der königlich-bayerischen Akademie der Wissenschaften. Munich.
Abh. k.-k. geol. Reichsanst. Abhandlungen der kaiserlich-königlich geologischen Reichsanstalt. Vienna.
Abh. k.-preuss. geol. Landesanst. Abhandlungen der königlich-preussischen geologischen Landesanstalt. Berlin.
Abh. Mus. Nat. u. Heimatk. Magdeburg. Abhandlungen und Berichte. Museum für Natur- und Heimatkunde. Magdeburg.
Abh. naturh. Gesellsch. Nürnberg. Abhandlungen der naturhistorischen Gesellschaft. Nürnberg.
Abh. schw. paläont. Gesellsch. See *Mém. Soc. paléont. suisse.*
Abh. Senckenb. naturf. Gesellsch. Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.
Abstr. Proc. G. S. Abstracts of the Proceedings of the Geological Society. London.
Actes Soc. helv. Sci. nat. Actes de la Société helvétique des Sciences Naturelles. Berne, &c.
Actes Soc. Linn. Bordeaux. Actes de la Société Linnéenne de Bordeaux. Bordeaux.
Actes Soc. sci. Chili. Actes de la Société scientifique du Chili. Santiago de Chile.
Am. Geol. American Geologist. Minneapolis (Minn.).
Am. Journ. Sci. American Journal of Science. New Haven (Conn.).
An. Mus. La Plata. Anales del Museo de la Plata. La Plata.
An. Mus. Nac. Buenos Aires. Anales del Museo Nacional de Buenos Aires. Buenos Aires.
An. Soc. cient. Argent. Anales de la Sociedad científica Argentina. Buenos Aires.
Ann. Acad. Roy. Belg. Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
Ann. Club alpin franç. Annuaire du Club alpin français. Paris.
Ann. Géol. et Paléont. Palerme. Annales de Géologie et de Paléontologie. Palermo.
Ann. k.-k. naturhist. Hofmus. Wien. Annalen des kaiserlich-königlichen naturhistorischen Hofmuseums. Vienna.
Ann. Mag. Nat. Hist. Annals and Magazine of Natural History. London.
Ann. Mines, Paris. Annales des Mines. Paris.
Ann. N.Y. Acad. Sci. Annals of the New York Academy of Sciences. New York.
Ann. R. Univ. Toscana. Annuario della Reale Università di Toscana. Pisa.
Ann. Rep. Am. Mus. Nat. Hist. N.Y. Annual Report of the American Museum of Natural History. New York.
Ann. Rep. Bristol Public Lib. Annual Report of the Bristol Public Library and Museum. Bristol.

- Ann. Rep. Bur. Mines, B.C.* Annual Report of the Bureau of Mines, British Columbia. Victoria (B.C.).
- Ann. Rep. Dep. Geol. Indiana.* Annual Report of the Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).
- Ann. Rep. Dep. Mines, N.S.W.* Annual Report of the Department of Mines and Agriculture, New South Wales. Sydney.
- Ann. Rep. Dep. Mines, Queensl.* Annual Report of the Under Secretary for Mines, Queensland. Brisbane. See also *Geol. Surv. Queensl., Publ.*
- Ann. Rep. Geol. Surv. Canada.* Annual Report of the Geological Survey of Canada. Ottawa. See also *Summ. Rep.*
- Ann. Rep. Geol. Surv. Gt. Brit.* Annual Report of the Geological Survey of Great Britain. London.
- Ann. Rep. Geol. Surv. Natal.* Annual Report of the Geological Survey of Natal. Pietermaritzburg.
- Ann. Rep. Geol. Surv. New Jersey.* Annual Report of the Geological Survey of New Jersey. Trenton (N.J.).
- Ann. Rep. Geol. Surv. Queensl.* Annual Progress Report of the Geological Survey of Queensland. Brisbane.
- Ann. Rep. Geol. Surv. Transvaal.* Annual Report of the Geological Survey of the Transvaal. Pretoria.
- Ann. Rep. Geol. Surv. W. Austr.* Annual Progress Report of the Geological Survey. Perth (W. Austr.).
- Ann. Rep. Indian Mus. Calcutta.* Annual Report of the Indian Museum. Calcutta.
- Ann. Rep. Mus. Comp. Zool.* Annual Report of the Assistant in Charge of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Ann. Rep. Nat. Hist. Surv. Minn.* Annual Report of the Geological and Natural History Survey of Minnesota. Minneapolis (Minn.).
- Ann. Rep. Phil. Soc., Leeds.* Annual Report of the Philosophical Society. Leeds.
- Ann. Rep. Roy. Cornwall Polyt. Soc.* Annual Report of the Royal Cornwall Polytechnic Society. Falmouth.
- Ann. Rep. Rhodesia Mus.* Annual Report of the Rhodesia Museum. Bulawayo.
- Ann. Rep. Smiths. Inst. Rep. U.S. Nat. Mus.* Annual Report of the Board of Regents of the Smithsonian Institution. Report of the United States National Museum. Washington (D.C.).
- Ann. Rep. U.S. Geol. Surv.* Annual Report of the United States Geological Survey. Washington (D.C.).
- Ann. Rep. Wellington Coll. Nat. Sci. Soc.* Annual Report of the Wellington College Natural Science Society. Wellington College.
- Ann. Rep. Yorks. Phil. Soc.* Annual Report of the Yorkshire Philosophical Society. York.
- Ann. S.A. Mus., Cape Town.* Annals of the South African Museum. Cape Town.
- Ann. sci. Acad. polyt. Porto.* Annaes scientificos da Academia polytechnica do Porto. Coimbra.
- Ann. Sci. nat. (Zool. & Paléont.).* Annales des Sciences naturelles: Zoologie et Paléontologie. Paris.
- Ann. Sci. Univ. Jassy.* Annales scientifiques de l'Université de Jassy. Jassy (Rumania).
- Ann. Soc. géol. Belg., Liège.* Annales de la Société géologique de Belgique. Liège.
- Ann. Soc. géol. Nord.* Annales de la Société géologique du Nord. Lille.
- Ann. Soc. R. zool. & malac. Belg.* Annales de la Société Royale zoologique et malacologique de Belgique. Brussels.
- Ann. Univ. toscane.* Annali delle Università toscane. Pisa.
- Anz. k. Akad. Wissensch. Wien.* Anzeiger der kaiserlichen Akademie der Wissenschaften. Vienna.
- Arch. f. Anthr. & Geol. Schleswig-Holsteins.* Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel.
- Arch. Naturk. Liv- Ehist- u. Kurlands, Dorpat.* Archiv für die Naturkunde Liv- Ehist- und Kurlands. Naturforscher-Gesellschaft. Dorpat.
- Arch. naturw. Landesd. Böhmen.* Archiv der naturwissenschaftlichen Landesdurchforschung von Böhmen. Prague.
- Arch. néerland. Sci.* Archives des Sciences exactes et naturelles, publiées par la Société hollandaise des Sciences à Harlem. The Hague.
- Ark. f. (Bot.; Kemi Min. & Geol.; or Zool.) K. svenska Vet.-Akad.* Arkiv för Botanik (&c.) utgifvet af K. svenska Vetenskaps-Akademien. Stockholm.
- Athenæum.* Athenæum Journal. London.
- Atti R. Acc. Lincei, Rendic.* Atti della Reale Accademia dei Lincei, Rendiconti. Rome.

- Atti R. Acc. Sci. Napoli.* Atti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Atti R. Acc. Sci. Padova.* Atti e Memorie della Reale Accademia di Scienze, Lettere ed Arti in Padova. Padua.
- Atti R. Acc. Sci. Torino.* Atti della Reale Accademia delle Scienze di Torino. Turin.
- Atti R. Univ. Genova.* Atti della Reale Università di Genova. Genoa.
- Atti Soc. tosc. Sci. nat.* Atti della Società toscana di Scienze naturali. Pisa.
- Augustana Library Publ.* Augustana Library Publication. Rock Island (Ill.).
- Beitr. geol. Schweiz.* Beiträge zur Geologie der Schweiz. (Schweizerische geotechnische Kommission.) Berne.
- Beitr. Geophys. Leipzig.* Beiträge zur Geophysik. Leipzig.
- Beitr. naturk. Preussens, K. phys.-ökon. Gesellsch. Königsberg.* Beiträge zur naturkunde Preussens. Königliche physikalisch-ökonomische Gesellschaft. Königsberg.
- Beitr. Paläont. Esterr.-Ung.* Beiträge zur Paläontologie und Geologie (Esterreich-Ungarns und des Orients. Vienna.
- Ber. k.-sächs. Gesellsch. Wissensch. Leipzig.* Bericht der königlich-sächsischen Gesellschaft der Wissenschaften. Leipzig.
- Ber. naturf. Gesellsch., Freiburg i. B.* Berichte der naturforschenden Gesellschaft. Freiburg i. B.
- Ber. oberhess. Gesellsch. Nat.-Heilk.* Bericht der oberhessischen Gesellschaft für Natur- und Heilkunde. Giessen.
- Ber. oberrhein. geol. Ver.* Bericht über die Versammlungen des oberrheinischen geologischen Vereins. Stuttgart.
- Ber. Senckenb. naturf. Gesellsch.* Bericht der Senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.
- Berg- hütt. Jahrb. Wien.* Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Příbram und der königlich-ungarischen Bergakademie zu Schemnitz. Vienna.
- Bergens Mus. Aarb.* Bergens Museums Aarbog (or Aarberetning). Bergen.
- Bihang k. svenska Vet.-Akad. Handl.* Bihang till kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Bol. Acad. Nac. Cordoba.* Boletín de la Academia Nacional de Ciencias en Córdoba. Buenos Aires.
- Bol. Com. Mapa geol. España.* Boletín de la Comisión del Mapa geológico de España. Madrid.
- Bol. Ing. Minas, Perú.* Boletín del Cuerpo de Ingenieros de Minas del Perú. Lima.
- Bol. Inst. geogr. Argent.* Boletín del Instituto geográfico Argentino. Buenos Aires.
- Bol. Inst. geol. México.* Boletín del Instituto geológico de México. Mexico.
- Boll. R. Com. geol. Ital.* Bollettino del Reale Comitato geologico d'Italia. Rome.
- Bol. Soc. geogr. Lima.* Boletín de la Sociedad geográfica de Lima. Lima.
- Bol. Soc. Geogr. Lisboa.* Boletim da Sociedade de Geographia de Lisboa. Lisbon.
- Boll. Soc. geol. ital.* Bollettino della Società geologica italiana. Rome.
- Bol. Soc. Nac. Minería, Santiago.* Boletín de la Sociedad Nacional de Minería. Santiago de Chile.
- Brit. Assoc. Adv. Sci., Circulars Seismolog. Committee.* British Association for the Advancement of Science. Circulars of the Seismological Committee. London.
- Bull. Acad. Imp. Sci. St. Pétersb.* Bulletin de l'Académie Impériale des Sciences. St. Petersburg.
- Bull. Acad. Roy. Belg.* Bulletins de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Bull. Am. Mus. Nat. Hist., N.Y.* Bulletin of the American Museum of Natural History. New York.
- Bull. Assoc. franç. Av. Sci.* Bulletin de l'Association française pour l'Avancement des Sciences. Paris.
- Bull. Bur. Mines, B.C.* Bulletin of the Provincial Bureau of Mines, British Columbia. Victoria (B.C.).
- Bull. Bur. Mines, Canada.* Bulletin of the Bureau of Mines, Canada. Ottawa.
- Bull. Cal. State Mining Bur.* Bulletin of the Californian State Mining Bureau. San Francisco.
- Bull. Chicago Acad. Geol. Surv.* Bulletin of the Chicago Academy of Science, Geological and Natural History Survey. Chicago (Ill.).
- Bull. Com. géol. Russie.* Bulletins du Comité géologique. St. Petersburg.
- Bull. Comm. géol. Finlande.* Bulletin de la Commission géologique de Finlande. Helsingfors.

- Bull. Geol. Inst. Univ. Upsala.* Bulletin of the Geological Institution of the University of Upsala. Upsala.
- Bull. Geol. Soc. Am.* Bulletin of the Geological Society of America. Rochester (N.Y.).
- Bull. Geol. Surv. Alabama.* Bulletin of the Geological Survey of Alabama. University & Montgomery (Ala.).
- Bull. Geol. Surv. Georgia.* Bulletin of the Geological Survey of Georgia. Atlanta (Ga.).
- Bull. Geol. Surv. Ohio.* Bulletin of the Geological Survey of Ohio. Columbus (Ohio).
- Bull. Geol. Surv. Queensl.* Bulletin of the Geological Survey of Queensland (Department of Mines). Brisbane.
- Bull. Geol. Surv. Victoria.* Bulletin of the Geological Survey of Victoria. Melbourne.
- Bull. Geol. Surv. W. Austr.* Bulletin of the Geological Survey of Western Australia. Perth (W. Austr.).
- Bull. Geol. Univ. Cal.* Bulletin of the Department of Geology, University of California. Berkeley (Cal.).
- Bull. Imp. Inst.* Bulletin of the Imperial Institute. London.
- Bull. Intern. Acad. Sci. Cracovie.* Bulletin International de l'Académie des Sciences. Cracow.
- Bull. Mus. Comp. Zool.* Bulletin of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Bull. Mus. Hist. nat. Paris.* Bulletin du Muséum d'Histoire naturelle. Paris.
- Bull. Mysore Geol. Dep.* Bulletin of the Mysore Geological Department. Bangalore.
- Bull. Nat. Hist. Soc. New Brunswick.* Bulletin of the Natural History Society of New Brunswick. St. John (N.B.).
- Bull. N.Z. Geol. Surv.* Bulletin of the New Zealand Geological Survey. Wellington (N.Z.).
- Bull. Phil. Soc. Wash.* Bulletin of the Philosophical Society. Washington (D.C.).
- Bull. Soc. belge Géol., Brux.* Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
- Bull. Soc. franç. Min.* Bulletin de la Société française de Minéralogie. Paris.
- Bull. Soc. géol. France.* Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Norm.* Bulletin de la Société géologique de Normandie. Havre.
- Bull. Soc. Hist. nat. Savoie.* Bulletin de la Société d'Histoire naturelle de Savoie. Chambéry.
- Bull. Soc. Hist. nat. Toulouse.* Bulletin de la Société d'Histoire naturelle de Toulouse. Toulouse.
- Bull. Soc. Imp. Nat. Moscou.* Bulletin de la Société Impériale des Naturalistes de Moscou. Moscow.
- Bull. Soc. Linn. Norm.* Bulletin de la Société Linnéenne de Normandie. Caen.
- Bull. Soc. oural. Sci. nat.* Bulletin de la Société ouralienne d'Amateurs des Sciences naturelles. Ekaterinburg.
- Bull. Soc. R. malac. Belg.* See *Ann. Soc. R. zool. & malac. Belg.*
- Bull. Soc. Sci. et méd. de l'Ouest, Rennes.* Bulletin de la Société scientifique et médicale de l'Ouest. Rennes.
- Bull. Soc. Spéléol. Paris.* See *Spelunca.*
- Bull. Soc. vaud. Sci. nat.* Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
- Bull. U.S. Geol. Surv.* Bulletin of the United States Geological Survey. Washington.
- Bull. Univ. Kansas.* See *Sci. Bull. Univ. Kansas.*
- Bull. Univ. Oregon.* Bulletin of the University of Oregon. Eugen (Or.).
- Bull. Wisc. Geol. & Nat. Hist. Surv.* Bulletin of the Wisconsin Geological and Natural History Survey. Madison (Wis.).
- Canad. Rec. Sci.* Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
- Carnegie Inst. Wash., Publ.* Carnegie Institution, Washington. Publications. Washington (D.C.).
- Centralbl. f. Min.* Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Chem. News.* Chemical News. London.
- Cold Spring Harbor Monogr.* Cold Spring Harbor Monographs. Brooklyn (N.Y.).
- Coll. Guard.* Colliery Guardian. London.

- Colo. Coll. Publ.* Colorado College Publications. Colorado Springs (Colo.).
- Com. Mus. Nac. Buenos Aires.* Comunicaciones del Museo Nacional de Buenos Aires. Buenos Aires.
- Comm. Commiss. Serv. geol. Portugal.* Communicações da Comissão do Serviço geologico de Portugal. Lisbon.
- Comm. geogr. e geol. S. Paulo.* Comissão geographica e geologica de São Paulo. São Paulo.
- C. R. Acad. Sci. Paris.* Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
- C. R. Assoc. franç. Av. Sci.* Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.
- C. R. Congrès géol. internat.* Comptes-rendus du Congrès géologique international. Vienna.
- Dan. geol. Undersög.* Danmarks geologiska Undersögelse. Copenhagen.
- Denkschr. k. Akad. Wissensch. Wien.* Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.
- Eclogæ Geol. Helv.* Eclogæ Geologicae Helvetiæ. Lausanne.
- Econ. Geol.* Economic Geology. Lancaster (Pa.).
- Econ. Papers, U.S. Geol. Surv.* Economic Papers, United States Geological Survey. Washington.
- Econ. Proc. R. Dublin Soc.* Economic Proceedings of the Royal Dublin Society. Dublin.
- Erläut. geol. Karte Baden.* Erläuterungen zur geologischen Spezialkarte des Grossherzogthums Baden. Heidelberg.
- Essex Nat.* Essex Naturalist, being the Journal of the Essex Field-Club. Stratford.
- Fennia.* Fennia. Bulletin de la Société de Géographie de Finlande. Helsingfors.
- Field Columbian Mus.* Field Columbian Museum Publications. Chicago (Ill.).
- Földt. Közl.* Földtani Közlöny. [Geological Magazine.] Budapest.
- Gen. Rep. Geol. Surv. India.* General Report on the Work carried on by the Geological Survey of India. Calcutta.
- Geogn. Jahresh., München.* Geognostische Jahreshefte. Munich.
- Geogr. Journ.* Geographical Journal (Royal Geographical Society). London.
- Geol. & Nat. Hist. Surv. Minn.* Geological and Natural History Survey of Minnesota. St. Paul (Minn.).
- Geol. Fören. Stockh. Förh.* Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.
- Geol. Karte Baden.* Geologische Spezialkarte des Grossherzogthums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
- Geol. Mag.* Geological Magazine. London.
- Geol. Surv. Canada. Contr. Canad. Palæont.* Geological Survey of Canada. Contributions to Canadian Palæontology. Ottawa.
- Geol. Surv. Mich. Rep.* Geological Survey of Michigan. Reports. Lansing (Mich.).
- Geol. Surv. Queensl., Publ.* Geological Survey of Queensland: Publications. Brisbane. See also *Ann. Rep. Dep. Mines, Queensl.*
- Geol. u. Palæont. Abh., Jena.* Geologische und Palæontologische Abhandlungen. Jena.
- Giorn. Geol. prat., Perugia.* Giornale di Geologia pratica. Perugia.
- Great Britain & Ireland. Home Office. Mines & Quarries.* General Report and Statistics. London.
- Hist. Berwicks. Nat. Club.* History of the Berwickshire Naturalists' Club. Alnwick.
- Hull Mus. Publ.* Hull Museum Publications. Hull.
- Indian Engin.* Indian Engineering. Calcutta.
- Internat. Cat. Sci. Lit.* International Catalogue of Scientific Literature. London.
- Iowa Geol. Surv.* Iowa Geological Survey. Des Moines.
- Irish Nat.* Irish Naturalist. Dublin.
- Jaarb. Mijnw. Ned. O.-Ind.* Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Amsterdam.
- Jahrb. f. Berg- u. Hüttenw. Sachsen.* Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiberg.
- Jahrb. k.-k. geol. Reichsanst.* Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Jahrb. k.-preuss. geol. Landesanst.* Jahrbuch der königlich-preussischen geologischen Landesanstalt. Berlin.
- Jahrb. k.-ung. geol. Anst.* Jahrbuch der königlich-ungarischen geologischen Anstalt. Budapest.

- Jahrb. nassauisch. Ver. f. Naturk.* Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden.
- Jahrb. Schw.-Alpenclub.* Jahrbuch des Schweizer-Alpenclub. Bern.
- Jahresb. k.-ung. geol. Anst.* Jahresbericht der königlich-ungarischen geologischen Anstalt. Budapest.
- Jahresb. naturh. Gesellsch. Nürnberg.* Jahresbericht der naturhistorischen Gesellschaft. Nürnberg.
- Jahresb. Ver. Naturw. Braunschweig.* Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Brunswick.
- Jahresb. Ver. Naturk. Württ.* Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
- Journ. Asiat. Soc. Bengal.* Journal and Proceedings of the Asiatic Society of Bengal. Calcutta.
- Journ. Bombay Branch R. Asiat. Soc.* Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
- Journ. Canad. Mining Inst.* Journal of the Canadian Mining Institute. Ottawa.
- Journ. Ceylon Branch R. Asiat. Soc.* Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.
- Journ. Chem. Soc.* Journal of the Chemical Society. London.
- Journ. China Branch R. Asiat. Soc.* Journal of the China Branch of the Royal Asiatic Society. Shanghai.
- Journ. Cinc. Soc. Nat. Hist.* Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).
- Journ. Coll. Sci. Tokyo.* Journal of the College of Science, Imperial University. Tokyo.
- Journ. Conch., Paris.* Journal de Conchyliologie. Paris.
- Journ. East India Assoc.* Journal of the East India Association. London.
- Journ. Geol., Chicago.* Journal of Geology. Chicago (Ill.).
- Journ. Iron & Steel Inst.* Journal of the Iron and Steel Institute. London.
- Journ. Linn. Soc.* Journal of the Linnean Society. London.
- Journ. Northants Nat. Hist. Soc.* Journal of the Northamptonshire Natural History Society and Field-Club. Northampton.
- Journ. R. Agric. Soc.* Journal of the Royal Agricultural Society. London.
- Journ. R. Inst. Cornwall.* Journal of the Royal Institution of Cornwall. Truro.
- Journ. R. Micr. Soc.* Journal of the Royal Microscopical Society. London.
- Journ. Roy. Soc. N.S.W.* Journal and Proceedings of the Royal Society of New South Wales. Sydney.
- Journ. Soc. Arts.* Journal of the Society of Arts. London.
- Journ. Vict. Inst. London.* Journal of the Transactions of the Victoria Institute. London.
- Journ. & Proc. Hamilton Sci. Assoc. (Canada).* Journal and Proceedings of the Hamilton Scientific Association. Hamilton (Canada).
- K. danske Vidensk.-Selsk. Afh.* Kongelige danske Videnskabernes-Selskabs naturvidenskablige og mathematisk Afhandlinger. Copenhagen.
- K. danske Vidensk. Selsk. Skrift.* Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.
- K. svenska Vet.-Akad. Handl.* Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Kansas Univ. Sci. Bull.* See *Sci. Bull. Univ. Kansas.*
- Lond. Edinb. Dubl. Phil. Mag.* London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
- Magy. Kir. Földtani Intézet.* See *Jahrb. k.-ung. geol. Anst.*
- Maryland Geol. Surv.* Maryland Geological Survey. Baltimore (Md.).
- Matér. Carte géol. Suisse.* Matériaux pour la Carte géologique de la Suisse. Commission géologique. Berne.
- Mater. Geol. Russ.* Materialien zur Geologie Russlands. Herausgegeben von der kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Meddel. Upsala Univ. Min.-geol. Inst.* Meddelanden från Upsala Universitets Mineralogisk-geologiska Institut. Stockholm.
- Mém. Acad. Imp. Sci. St. Pétersb.* Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
- Mém. Acad. Sci. Dijon.* Mémoires de l'Académie des Sciences, Arts, et Belles-Lettres de Dijon.
- Mém. Acad. Stanislas.* Mémoires de l'Académie de Stanislas. Nancy.
- Mem. Am. Acad. Arts & Sci.* Memoirs of the American Academy of Arts and Sciences. Cambridge (Mass.).
- Mem. Am. Mus. Nat. Hist., N.Y.* Memoirs of the American Museum of Natural History. New York.

- Mem. Asiat. Soc. Bengal.* Memoirs of the Asiatic Society of Bengal. Calcutta.
- Mem. Carnegie Mus., Pittsb.* Memoirs of the Carnegie Museum. Pittsburg (Pa.).
- Mem. Carta geol. Ital.* Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
- Mém. Com. géol. Russie.* Mémoires du Comité géologique. St. Petersburg.
- Mem. Geol. Surv. England & Wales.* Memoirs of the Geological Survey of England and Wales. London.
- Mem. Geol. Surv. India. Palæont. Indica.* Memoirs of the Geological Survey of India. Palæontographica Indica. Calcutta.
- Mem. Geol. Surv. Ireland.* Memoirs of the Geological Survey of Ireland. Dublin.
- Mem. Geol. Surv. N.S.W.* Memoirs of the Geological Survey of New South Wales. Sydney.
- Mem. Geol. Surv. N.Y.* Memoirs of the Geological Survey of the State of New York. State Museum. University of the State of New York. Albany (N.Y.).
- Mem. Geol. Surv. Scotland.* Memoirs of the Geological Survey of Scotland. Edinburgh.
- Mem. Geol. Surv. Transvaal.* Memoirs of the Geological Survey of the Transvaal. Pretoria.
- Mem. Geol. Surv. U.K.* Memoirs of the Geological Survey of the United Kingdom. London, &c.
- Mem. Geol. Surv. Victoria.* Memoirs of the Geological Survey of Victoria. Melbourne.
- Mem. Manch. Lit. Phil. Soc.* Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.
- Mem. Mus. Comp. Zool.* Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Mem. Mysore Geol. Dep.* Memoirs of the Mysore Geological Department. Bangalore.
- Mem. Nat. Mus., Melbourne.* Memoirs of the National Museum. Melbourne.
- Mem. N.Y. Acad. Sci.* Memoirs of the New York Academy of Sciences. New York.
- Mem. R. Acad. Cienc., Madrid.* Memorias de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Mem. R. Acc. Lincei.* Memorie della Reale Accademia dei Lincei. Rome.
- Mem. R. Acc. Sci. Torino.* Memorie della Reale Accademia delle Scienze. Turin.
- Mem. R. Ist. lomb.* Memorie del Reale Istituto lombardo di Scienze e Lettere. Milan.
- Mem. R. Soc. S. Austr.* Memoirs of the Royal Society of South Australia. Adelaide.
- Mem. Soc. cient. 'Ant. Alzate.'* Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.
- Mém. Soc. géol. France (Paléont.).* Mémoires de la Société géologique de France. Paléontologie. Paris.
- Mém. Soc. Linn. Norm.* Mémoires de la Société Linnéenne de Normandie. Caen.
- Mém. Soc. Nat. Kiev.* Mémoires de la Société des Naturalistes. Kiev.
- Mém. Soc. paléont. suisse.* Mémoires de la Société paléontologique suisse. Geneva, &c.
- Mém. Soc. Phys. & Hist. nat. Genève.* Mémoires de la Société de Physique et d'Histoire naturelle de Genève. Geneva.
- Mém. Soc. R. malac. Belg.* See *Ann. Soc. R. zool. & malac. Belg.*
- Mém. Soc. Roy. Sci. Liège.* Mémoires de la Société Royale des Sciences. Liège.
- Mém. Soc. Spéleol., Paris.* See *Spelunca.*
- Min. Mag.* The Mineralogical Magazine and Journal of the Mineralogical Society. London.
- Min. petr. Mitth.* Mineralogische und petrographische Mittheilungen. Vienna.
- Mines & Minerals, Scranton.* Mines and Minerals. Scranton (Pa.).
- Mining Journ.* Mining Journal. Railway and Commercial Gazette. London.
- Minutes of Proc. Inst. C.E.* Minutes of Proceedings of the Institution of Civil Engineers. London.
- Missouri Bur. Geol. & Mines.* Missouri Bureau of Geology and Mines. Jefferson City (Mo.).
- Mitth. badisch. geol. Landesanst.* Mittheilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.
- Mitth. Erdbeben-Komm. k. Akad. Wissensch., Wien.* Mittheilungen der Erdbeben-Kommission der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Mitth. geol. Landesanst. Elsass-Lothr.* Mittheilungen der geologischen Landesanstalt von Elsass-Lothringen. Strassburg.

- Mitth. Jahrb. k.-ung. geol. Anst.* Mittheilungen aus dem Jahrbuche der königlich-ungarischen geologischen Anstalt. Budapest.
- Mitth. Min. Inst. Kiel.* Mittheilungen aus dem Mineralogischen Institut der Universität. Kiel.
- Mitth. naturf. Gesellsch. Bern.* Mittheilungen der naturforschenden Gesellschaft. Berne.
- Mitth. nat. Ver. Steiermark.* Mittheilungen des naturwissenschaftlichen Vereines für Steiermark. Graz.
- Mitth. Ver. Erdk. Dresden.* Mittheilungen des Vereins für Erdkunde. Dresden.
- Monogr. Palæont. Soc.* Monographs of the Palæontographical Society. London.
- Monogr. U.S. Geol. Surv.* Monographs of the United States Geological Survey. Washington (D.C.).
- Naturalist, Leeds.* The Naturalist. Leeds & London.
- Nature.* Nature. London.
- Nat. Verh. Holland. Maat. Wet. Haarlem.* Naturkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen. Haarlem.
- N. J. f. Min.* Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
- N.S.W. Dep. Mines, Min. Resources.* New South Wales Department of Mines. Mineral Resources. Sydney.
- Norsk geol. Tidsskr.* Norsk geologisk Tidsskrift, udgivet af Norsk geologisk Forening. Christiania.
- Notice expl. Carte géol. Suisse.* Notice explicative de la Carte géologique de la Suisse. Berne.
- Notizbl. Ver. f. Erdk. Darmstadt.* Notizblatt des Vereins für Erdkunde und der grossherzoglichen hessischen geologischen Landesanstalt. Darmstadt.
- Nouv. Arch. Mus. Hist. nat. Paris.* Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
- Nyt Magazin.* Nyt Magazin for Naturvidenskaberne. Christiania.
- Occ. Papers Boston Nat. Hist. Soc.* Occasional Papers of the Boston Natural History Society. Boston.
- Öfvers. K. Vet.-Akad. Förh.* Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar. Stockholm.
- Ottawa Nat.* Ottawa Naturalist. Ottawa.
- Overs. K. danske Vidensk.-Selsk. Forh.* Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandling. Copenhagen.
- Paläont. Abh. Jena.* Paläontologische Abhandlungen. Jena.
- Palæontographica.* Palæontographica. Stuttgart.
- Palæontographica italica.* Palæontographica italica. Pisa.
- Papers & Proc. Roy. Soc. Tasm.* Papers and Proceedings of the Royal Society of Tasmania. Hobart.
- Papers & Rep. Min. & Mining, N.Z.* Papers and Reports relating to Minerals and Mining, N.Z. Wellington (N.Z.).
- Parerg. Inst. geol. Mex.* Parergones del Instituto geológico de México. Mexico.
- Perak Gov. Gaz.* Perak Government Gazette. Taiping.
- Peterm. Mitth.* Petermann's Mittheilungen. Gotha.
- Phil. Trans. Roy. Soc.* Philosophical Transactions of the Royal Society. London.
- Photogr. Journ.* Photographic Journal. (Royal Photographic Society.) London.
- Princeton Univ. Rep.* Princeton University. Reports of Expeditions. Princeton (N.J.).
- Proc. Acad. Nat. Sci. Philad.* Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).
- Proc. Am. Acad. Arts & Sci.* Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).
- Proc. Am. Phil. Soc.* Proceedings of the American Philosophical Society. Philadelphia (Pa.).
- Proc. Asiatic Soc. Bengal.* Proceedings of the Asiatic Society of Bengal. Calcutta.
- Proc. Austr. Inst. M. E.* Proceedings of the Australasian Institute of Mining Engineers. Melbourne (Vict.).
- Proc. Bath Nat. Hist. F. C.* Proceedings of the Bath Natural History and Antiquarian Field-Club. Bath.
- Proc. Belfast Nat. F. C.* Proceedings of the Belfast Naturalists' Field-Club. Belfast.
- Proc. Biol. Soc. Washington.* Proceedings of the Biological Society of Washington. Washington (D.C.).
- Proc. Boston Soc. Nat. Hist.* Proceedings of the Boston Society of Natural History. Boston (Mass.).

- Proc. Bristol Nat. Soc.* Proceedings of the Bristol Naturalists' Society. Bristol.
- Proc. Cambridge Phil. Soc.* Proceedings of the Cambridge Philosophical Society. Cambridge.
- Proc. Canad. Inst.* Proceedings of the Canadian Institute. Toronto.
- Proc. Chem. Soc.* Proceedings of the Chemical Society. London.
- Proc. Colo. Sci. Soc.* Proceedings of the Colorado Scientific Society. Denver (Colo.).
- Proc. Cotteswold Nat. F. C.* Proceedings of the Cotteswold Naturalists' Field-Club. Gloucester.
- Proc. Davenport Acad. Nat. Sci.* Proceedings of the Davenport Academy of Natural Science. Davenport (Iowa).
- Proc. Dorset Nat. Hist. F. C.* Proceedings of the Dorset Natural History and Antiquarian Field-Club. Dorchester.
- Proc. Geol. Assoc.* Proceedings of the Geologists' Association. London.
- Proc. Geol. Soc. S.A.* Proceedings of the Geological Society of South Africa. Johannesburg.
- Proc. Indiana Acad. Sci.* Proceedings of the Indiana Academy of Sciences. Indianapolis.
- Proc. Linn. Soc.* Proceedings of the Linnean Society. London.
- Proc. Linn. Soc. N.S.W.* Proceedings of the Linnean Society of New South Wales. Sydney.
- Proc. Lit. Phil. Soc. Liverp.* Proceedings of the Literary and Philosophical Society of Liverpool. Liverpool.
- Proc. Liverp. Geol. Soc.* Proceedings of the Liverpool Geological Society. Liverpool.
- Proc. Malacol. Soc.* Proceedings of the Malacological Society. London.
- Proc. Midland Inst. M. E.* Proceedings of the Midland Institute of Mining, Civil, and Mechanical Engineers. Newcastle-upon-Tyne.
- Proc. Rhodesia Sci. Assoc.* Proceedings of the Rhodesia Scientific Association. Bulawayo.
- Proc. Roy. Inst. Gt. B.* Proceedings of the Royal Institution of Great Britain. London.
- Proc. Roy. Irish Acad.* Proceedings of the Royal Irish Academy. Dublin.
- Proc. R. Phys. Soc. Edinb.* Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc.* Proceedings of the Royal Society. London.
- Proc. Roy. Soc. Edinb.* Proceedings of the Royal Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc. Tasm.* Proceedings of the Royal Society of Tasmania. Hobart. See *Papers & Proc.*
- Proc. Roy. Soc. Victoria.* Proceedings of the Royal Society of Victoria. Melbourne.
- Proc. Soc. Bibl. Arch.* Proceedings of the Society of Biblical Archæology. London.
- Proc. S. Wales Inst. Engin.* Proceedings of the South Wales Institute of Engineers. Cardiff.
- Proc. U.S. Nat. Mus.* Proceedings of the United States National Museum. Washington (D.C.).
- Proc. Univ. Durham Phil. Soc.* Proceedings of the University of Durham Philosophical Society. Newcastle-upon-Tyne.
- Proc.-verb. Soc. R. malac. Belg.* Procès-verbaux des Séances de la Société Royale malacologique de Belgique. Brussels.
- Proc. Wash. Acad. Sci.* Proceedings of the Washington Academy of Sciences. Washington (D.C.).
- Proc. Yorks. Geol. Soc.* Proceedings of the Yorkshire Geological Society. Halifax.
- Proc. Zool. Soc. London.* Proceedings of the Zoological Society. London.
- Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.* Proceedings and Transactions of the Croydon Microscopical and Natural History Society. Croydon.
- Proc. & Trans. N.S. Inst. Sci.* Proceedings and Transactions of the Nova Scotia Institute of Science. Halifax (N.S.).
- Proc. & Trans. Roy. Soc. Canada.* Proceedings and Transactions of the Royal Society of Canada. Ottawa.
- Prof. Papers, U.S. Geol. Surv.* Professional Papers, United States Geological Survey. Washington.
- Publ. Carnegie Mus.* Publications of the Carnegie Museum. Pittsburg (Pa.).
- Publ. Earthq. Comm. Tokyo.* Publications of the Earthquake Investigations Committee in Foreign Languages. Tokyo.
- Q. J. G. S.* Quarterly Journal of the Geological Society. London.
- Q. J. R. Met. Soc.* Quarterly Journal of the Royal Meteorological Society. London.

- Quarry.* The Quarry. London.
- Rec. Geol. Surv. India.* Records of the Geological Survey of India. Calcutta.
- Rec. Geol. Surv. N.S.W.* Records of the Geological Survey of New South Wales. Sydney.
- Rec. Geol. Surv. Victoria.* Records of the Geological Survey of Victoria. Melbourne.
- Rec. London & W. Country Chamber of Mines.* Record of the London and West-Country Chamber of Mines. London.
- Rec. Mysore Geol. Dep.* Records of the Mysore Geological Department. Bangalore.
- Rendic. e Mem. R. Acc. Sci. Acireale.* Rendiconti e Memorie della Reale Accademia di Scienze, Lettere ed Arti. Acireale.
- Rendic. R. Acc. Sci. Napoli.* Rendiconti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Rendic. R. Ist. lomb.* Reale Istituto lombardo di Scienze e Lettere. Rendiconti. Milan.
- Rep. Austral. Assoc. Adv. Sci.* Report of the Australasian Association for the Advancement of Science. Sydney.
- Rep. Brit. Assoc.* Report of the British Association for the Advancement of Science. London.
- Rep. Brit. S. Africa Co.* Report of the British South Africa Company. London.
- Rep. Bur. Mines. Canad.* Report of the Bureau of Mines, Canada. Ottawa.
- Rep. Croydon Microsc. Club.* See *Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.*
- Rep. Dep. Mines N.S.* Report of the Department of Mines, Nova Scotia. Halifax (N.S.).
- Rep. Dep. Mines, Tasm.* Report of the Secretary of the Department of Mines. Hobart.
- Rep. Dep. Mines Transvaal.* See *Transvaal Mines Dep.*
- Rep. Dep. Mines, W. Austr.* Report of the Department of Mines, Western Australia. Perth (W. Austr.).
- Rep. Geol. Surv. Louisiana.* Report of the Geological Survey of Louisiana. Baton Rouge (La.).
- Rep. Geol. Surv. Newfoundland.* Report of the Geological Survey of Newfoundland. St. John's (N.F.).
- Rep. Geol. Surv. Transvaal.* See *Transvaal Mines Dep., Rep. Geol. Surv.*
- Rep. Geol. Surv. U.K. & Mus. of Pract. Geol.* Report of the Geological Survey of the United Kingdom and of the Museum of Practical Geology. London.
- Rep. Inst. Mines & Forests Brit. Guiana.* Report of the Council of the Institute of Mines and Forests on the Gold and Forest-Industries of British Guiana. Georgetown (Demerara).
- Rep. Leicester Mus.* Report of the Committee to the Town Council, Leicester Corporation Museum and Art Gallery. Leicester.
- Rep. Mich. Acad. Sci.* Report of the Michigan Academy of Science. Lansing (Mich.).
- Rep. Rugby School Nat. Hist. Soc.* Report of the Rugby School Natural History Society. Rugby.
- Rep. S.A. Assoc. Adv. Sci.* Report of the South African Association for the Advancement of Science. Cape Town.
- Rep. S.E. Union Sci. Soc.* See *Trans. S.E. Union Sci. Soc.*
- Rep. Surv. Dep. Egypt.* Report on the Work of the Survey Department. Cairo.
- Rep. U.S. Dep. Agric.* Report of the United States Department of Agriculture. Washington (D.C.).
- Rep. Univ. Geol. Surv. Kansas.* Reports of the University Geological Survey of Kansas. Topeka (Kan.).
- Rep. & Proc. Belfast Nat. Hist. Soc.* Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.
- Rep. & Trans. Devon. Assoc. Adv. Sci.* See *Trans. Devon. Assoc.*
- Rev. Cienc., Lima.* Revista de Ciencias. Lima.
- Rev. critique de Paléozoöl.* Revue critique de Paléozoologie. Paris.
- Rev. Inst. geogr. & hist. Bahia.* Revista trimestral do Instituto geographico e historico da Bahia. Bahia.
- Rev. Minas, Santiago.* Revista de Minas. Santiago de Chile.
- Rev. R. Acad. Cienc. Madrid.* Revista de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Rev. Sci. Paris.* Revue Scientifique. Paris.
- Rev. Soc. sci. São Paulo.* Revista da Sociedade scientifica de São Paulo. São Paulo.

- Rhodesia Mus.* Rhodesia Museum. Bulawayo.
- Riv. ital. Paleont., Perugia.* Rivista italiana di Paleontologia, Perugia (*late* Bologna, Parma).
- Riv. Min. e Crist. ital. Padova.* Rivista di Mineralogia e Cristallografia italiana. Padua.
- Rochester Nat.* Rochester Naturalist. Rochester.
- Rozpr. Akad. Umiej. Krakow.* Rozprawy Wydziału matematyczno-przyrodniczego Akademii Umiejętności. Cracow.
- Samml. geol. R.-Mus. Leiden.* Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
- Schr. Gesellsch. Naturw. Marburg.* Schriften der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg. Marburg.
- Schr. Naturf.-Gesellsch. Univ. Dorpat.* Schriften herausgegeben von der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
- Schr. physik.-ökonom. Gesellsch. Königsb.* Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.
- Sci. Bull. Mus. Brooklyn Inst. Arts & Sci.* Science Bulletin of the Museum of the Brooklyn Institute of Arts and Sciences. Brooklyn (N.Y.).
- Sci. Bull. Univ. Kansas.* Science Bulletin of the University of Kansas. Lawrence (Kan.).
- Sci. Proc. R. Dublin Soc.* Scientific Proceedings of the Royal Dublin Society. Dublin.
- Sci. Trans. R. Dublin Soc.* Scientific Transactions of the Royal Dublin Society. Dublin.
- Science.* Science. New York.
- Scot. Geogr. Mag.* Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.
- Sitz. Gesellsch. naturf. Freunde, Berlin.* Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.
- Sitz. k. Akad. Wissensch. Wien.* Sitzungsberichte der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Sitz. k.-bayr. Akad.* Sitzungsberichte der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. Munich.
- Sitz. k.-preuss. Akad. Wissensch. Berlin.* Sitzungsberichte der königlich-preussischen Akademie der Wissenschaften. Berlin.
- Sitz. Naturf.-Gesellsch. Dorpat.* Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
- Sitz. niederrhein. Gesellsch. Nat. &c., Bonn.* Sitzungsberichte der nieder-rheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. See *Verh. naturh. Ver. preuss. Rheinl.*
- Sitz. u. Abh. Gesellsch. 'Isis.'* Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. Dresden.
- Smiths. Miscell. Coll.* Smithsonian Miscellaneous Collections. Washington (D.C.).
- Soc. 'Ger. Guidoni,' Spezia.* Società 'Gerolamo Guidoni' per la Diffusione e l'Incremento degli Studi naturali. Spezia.
- Spelunca.* 'Spelunca.' Bulletin et Mémoires de la Société de Spéléologie. Paris.
- Summ. Progr. Geol. Surv. U.K.* Summary of Progress of the Geological Survey of the United Kingdom. London.
- Summ. Rep. Geol. Surv. Canada.* Summary Report of the Geological Survey of Canada. Ottawa.
- Sver. geol. Undersökn., Afh.* Sveriges geologiska Undersökning, Afhandlingar. Stockholm.
- Tasm. Dep. Mines.* Tasmania. Department of Mines. Hobart.
- Trans. Am. Inst. M. E.* Transactions of the American Institute of Mining Engineers. New York.
- Trans. Am. Phil. Soc.* Transactions of the American Philosophical Society. Philadelphia (Pa.).
- Trans. Austr. Inst. M. E.* Transactions of the Australasian Institute of Mining Engineers. Melbourne & Sydney.
- Trans. Brit. Assoc. Waterw. Eng.* Transactions of the British Association of Waterworks Engineers. London.
- Trans. Cambridge Phil. Soc.* Transactions of the Cambridge Philosophical Society. Cambridge.
- Trans. Canad. Inst.* Transactions of the Canadian Institute. Toronto.
- Trans. Connect. Acad.* Transactions of the Connecticut Academy of Arts and Sciences. New Haven (Conn.).
- Trans. Croydon Nat. Hist. Soc.* See *Proc. & Trans.*

- Trans. Cumberland Assoc.* Transactions of the Cumberland Association. Carlisle.
- Trans. Devon. Assoc.* Transactions of the Devonshire Association for the Advancement of Science. Plymouth.
- Trans. Edinb. Geol. Soc.* Transactions of the Edinburgh Geological Society. Edinburgh.
- Trans. Geol. Soc. Glasgow.* Transactions of the Geological Society of Glasgow. Glasgow.
- Trans. Geol. Soc. S.A.* Transactions of the Geological Society of South Africa. Johannesburg.
- Trans. Herts Nat. Hist. Soc.* Transactions of the Hertfordshire Natural History Society and Field-Club. Hertford.
- Trans. Hist. & Sci. Soc. Manitoba.* Transactions of the Historical and Scientific Society of Manitoba. Winnipeg.
- Trans. Hull Geol. Soc.* Transactions of the Hull Geological Society. Hull.
- Trans. Hull Sci. & F. Nat. Club.* Transactions of the Hull Scientific and Field-Naturalists' Club. Hull.
- Trans. Inst. Mining & Metall.* Transactions of the Institution of Mining and Metallurgy. London.
- Trans. Inst. M. E.* Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
- Trans. Kansas Acad. Sci.* Transactions of the Kansas Academy of Science. Topeka (Kan.).
- Trans. Leeds Geol. Assoc.* Transactions of the Leeds Geological Association. Leeds.
- Trans. Leicester Lit. & Phil. Soc.* Transactions of the Leicester Literary and Philosophical Society. Leicester.
- Trans. Linn. Soc.* Transactions of the Linnean Society. London.
- Trans. Manch. Geol. Soc.* Transactions of the Manchester Geological and Mining Society. Manchester.
- Trans. N. Engl. Inst. Min. & Mech. Eng.* Transactions of the North of England Institute of Mining and Mechanical Engineers. Newcastle-upon-Tyne.
- Trans. N.Z. Inst.* Transactions and Proceedings of the New Zealand Institute. Wellington (N.Z.).
- Trans. N.Z. Inst. M. E.* Transactions of the New Zealand Institute of Mining Engineers. Auckland (N.Z.).
- Trans. Perth. Soc. Nat. Sci.* Transactions and Proceedings of the Perthshire Society of Natural Science. Perth.
- Trans. R. Geol. Soc. Cornwall.* Transactions of the Royal Geological Society of Cornwall. Penzance.
- Trans. Roy. Irish Acad.* Transactions of the Royal Irish Academy. Dublin.
- Trans. Roy. Soc. Canada.* See *Proc. & Trans. Roy. Soc. Canada.*
- Trans. Roy. Soc. Edinb.* Transactions of the Royal Society of Edinburgh. Edinburgh.
- Trans. Roy. Soc. S. Austr.* Transactions of the Royal Society of South Australia. Adelaide.
- Trans. S.A. Phil. Soc.* Transactions of the South African Philosophical Society. Cape Town.
- Trans. S.E. Union Sci. Soc.* Transactions of the South-Eastern Union of Scientific Societies. London.
- Trans. Woolhope Nat. F. C.* Transactions of the Woolhope Naturalists' Field-Club. Hereford.
- Trans. Zool. Soc. Lond.* Transactions of the Zoological Society. London.
- Transvaal Mines Dep., Rep. Geol. Surv.* Transvaal Mines Department. Report of the Geological Survey. Pretoria.
- Trav. Soc. Imp. Nat. St. Pétersb.* Travaux de la Société Impériale des Naturalistes. St. Petersburg.
- Tufts Coll. Studies.* Tufts College Studies. Tufts College (Mass.).
- Verh. deutsch. wissensch. Ver. Santiago.* Verhandlungen des deutschen wissenschaftlichen Vereins zu Santiago de Chile. Valparaiso.
- Verh. k.-k. geol. Reichsanst.* Verhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Verh. k.-k. zool.-bot. Gesellsch. Wien.* Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien. Vienna.
- Verh. naturf. Gesellsch. Basel.* Verhandlungen der naturforschenden Gesellschaft. Basel.
- Verh. naturh. Ver. preuss. Rheinl.* Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande, Westfalens und des Regierungs-Bezirks Osnabrück. Bonn.

- Verh. russ.-k. min. Gesellsch.* Verhandlungen der russisch-kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Verh. schweiz. naturf. Gesellsch.* Verhandlungen der schweizerischen naturforschenden Gesellschaft. Berne, &c.
- Verh. siebenbürg. Ver. Naturw. Hermannstadt.* Verhandlungen und Mittheilungen des siebenbürgischen Vereins für Naturwissenschaften. Hermannstadt.
- Victorian Nat., Melbourne.* Victorian Naturalist. Melbourne.
- Vidensk. Meddel. naturh. Foren. Kjöbenhavn.* Videnskabelige Meddelelser fra den naturhistoriske Forening i Kjöbenhavn. Copenhagen.
- Water.* Water. London.
- Water-Supply Papers, U.S. Geol. Surv.* Water-Supply Papers, United States Geological Survey. Washington.
- Zapisk. srpsk. geol. Drūsh.* Zapisnitzi srpskog geoloskog Drūštva. (Sitzungsberichte der serbisch-geologischen Gesellschaft.) Belgrade.
- Zeitschr. deutsch. geol. Gesellsch.* Zeitschrift der deutschen geologischen Gesellschaft. Berlin.
- Zeitschr. f. Berg-, Hütt.- u. Salinenw.* Zeitschrift für das Berg-, Hütten- und Salinenwesen im preussischen Staate. Berlin.
- Zeitschr. f. Kryst.* Zeitschrift für Krystallographie und Mineralogie. Leipzig.
- Zeitschr. f. Naturw. Sachsen.* Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen. Stuttgart.
- Zeitschr. f. prakt. Geol.* Zeitschrift für praktische Geologie. Berlin.
- Zool. Rec.* Zoological Record. Record of Zoological Literature. London.
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- ABBE, C., JUN. See BROOKS, A. H., 3.
- ABBOTT, G. On Band-and-Ball Structure in the Magnesian Limestone. *Abs. Proc. G. S.* 1905-1906, p. 115; & *Q. J. G. S.* lxii. p. cxxxv. 1906.
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- ADAMS, F. D. Geological Survey of Canada. *Nature*, lxxv. p. 149. 1906.
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SUBJECT-INDEX.*

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Aar Massif (Switzerland).—Baltzer, A.; Sauer, A., 3.
Aar R. (Switzerland).—Martin, Rud.
Aargau (Switzerland).—Martin, Rud.; Muehlberg, F., 2.
Aarwangen (Bern).—Martin, Rud.
Abai R.—*See* Blue Nile.
Abakaliki (S. Nigeria).—Parkinson, J., 8.
Abauj-Torna Co. (Hungary).—Zimányi, K.
Abderites.—Sinclair, W. J.
Abokuta (S. Nigeria).—Parkinson, J., 7.
Aberdeenshire.—Craig, E. H. C.; Jamieson, T. F., 1-3.
Aberfoyle (Perthshire).—Du Toit, A. L.
Aberlady (Haddingtonshire).—Cramp-ton, C. B.
Abruzzo (Italy).—Casselli, M.; Vinassa de Regny, P., 2.
Abu Roash (Egypt).—Gregory, J. W., 3.
Abyssinia (N.E. Africa).—Arsandaux, H.; Blundell, H. W.; Knox, A.
Acanthechinopsis.—Gregory, J. W., 4.
Acanthodes.—Woodward, A. S.
Acera.—Oppenheim, P.
Acidaspis.—Reed, F. R. C., 4.
Acireale (Sicily).—Platania, G.
ACKROYD, W., *Obit.*—*See* Carter, W. L., 3.
Acmæoblatta.—Handlirsch, A., 3.
Acropeltis.—Gentil, L., 3.
Acrophyltum.—Vaughan, A.
Actæon.—Harbort, E.
Actæonina.—Ascher, E.; Cragin, F. W.
Actinacis.—Felix, J.
Actinocamax.—Stille, H., 3.
Actinometra.—Pellat, E.
Actinomylacris.—Handlirsch, A., 3.
Actinopteria.—Clarke, J. M., 5.
Adapis.—Neumayer, L.
Adelboden (Valais).—Sarasin, C., 2.
Adeorbis.—Cossmann, M., 3.
Adiaphtharsia.—Handlirsch, A., 3.
Admete.—Cossmann, M., 3.
Admiralty Sound (Antarctic).—Anderson, J. G.
Adour Basin (France).—Douvillé, H.
Ænigmatite.—Søllner, J.
Ænigmatodes.—Handlirsch, A., 3.
Ætna (Sicily).—Platania, G.
Afghanistan (Asia).—McMahon, Sir H.
Africa, former connection with S. America.—Schwarz, E. H. L., 5.
—, geology of the continent of.—Knox, A.
—, fundamental gneiss.—Voit, F. W., 1 & 2.
—, *See also* Cape Colony, German, Karroo, Transvaal, &c.
Africa (S.).—Archæan and ore-deposits.—Heneage, E. F.
—, geology, 1905-06.—Sawyer, A. R.
Agathis.—Seward, A. C., 2.
Agglomerate, Charwood-Forest fel-sitic.—Bennett, F. W., 3; Stracey, B.
Agnostus.—Lake, P., 2; Lorenz, T., 2.
Agronomic geology.—*See* Soils, &c.
Ahenet (Sahara).—Haug, E., 2.
Aija (Peru).—Pfluecker, L., 2.
Ain (France).—Lee, G. W.
Air (Sudan).—Foureaux, F.
Airedale glacier, ancient.—Muff, H. B.
Aisne (France).—Briet, L.; Rabelle, —.
Aix-la-Chapelle (Germany).—Dorlodot, H. de, 3.
Akarabisi Creek (British Guiana).—Harrison, J. B., 2.
Alabama (U.S.A.).—Abel, O., 3; Bowron, W. M.; Smith, E. A., 2.
Alabamornis.—Abel, O., 3.
Åland Is. (Baltic).—Wahl, W.
Alaska (N. Am.).—Brooks, A. H., 1-3; Grant, U. S.; Griffith, W.; Lakes, A., 3; Mendenhall, W. C.; Moffit, F. H.; Obalski, T., 1 & 2; Prindle, L. M.; Purington, C. W.; Renz, C., 2; Spencer, A. C., 2 & 3; Stanton, T. W., 2; Tarr, R. S., 4; Ward, L. F.
Albania (Turkey).—Nopcsa, F., Baron (*fil.*), 3; Renz, C.; Vettors, H.; Vinassa de Regny, P., 1 & 3.
Albany (Cape Colony).—Schwarz, E. H. L., 7 & 8.
Alberta (Canada).—Bell, R., 2 & 3.
Albertosaurus.—Osborn, H. F.
Albi (Languedoc).—Laromiguière, J.; *see also* FRANCE, Serv. Carte géol.

* All fossil-names are those of genera which are figured, or occur in the titles of papers.

Authors' names without a number refer to the first or to the only title.

References to countries in small capitals in this Index refer to the first part in place of names of Authors.

- Albian, Alpes-Maritimes.—Hitzel, E.
 —, Dauphiné.—Jacob, C.
 —, Madagascar.—Thévenin, A., 4.
 Albite.—Aloisi, F., 2; Benedicks, C., 2;
 Lindgren, W., 2; *see also* Felspars.
 Albulia Pass (Grisons).—Zœppritz, K.
 Albury (Surrey).—Herries, R. S., 2.
Alectryonia.—Krumbeck, L.
Alethopteris.—Vinassa de Regny, P., 6.
 Alfeld (Hanover).—Menzel, H.
 Alföld (Hungary).—Horusitzky, H., 3.
 Algæ, calcareous limestones &.—Chapman, F., 6.
 — in biotite-gneiss, Seja R.—Ahnert, E. von.
 —, Permian-Carboniferous.—Arber, E. A. N.
 —, Tertiary.—Salle, E.
 Algeria (Africa).—Blayac, J.; Fleury, —; Knox, A.; Savornin, J., 1 & 2; Schaffer, F. X.; Termier, P., 4.
 Alghero (Sardinia).—Taramelli, T., 2.
 Alwal North (Cape Colony).—Broom, R., 4.
 Alkali-deposits, Chile.—Herrmann, A.
 —, Germany.—Bruhns, W.; Currie, J., 2.
 —. *See also* Potash & Salt.
 Alkmaar (Transvaal).—Hall, A. L., 2.
 Allanite, Jersey.—Gaubert, P., 3.
 Alleppy (Travancore).—Neilson, R. G.
 Allier (France).—Aron, A.; Couyat, J., 3.
 Alluvial fans, Tolmezzo.—Gortani, M., 4.
 Alluvium, Alaska.—Obalski, T.
 —, Thames Valley.—Kennard, A. S.
 Almaden (Spain).—Zimanyi, K., 2.
 Almeria (Spain).—Fircks, F.
Alokiotocare.—Lorenz, T., 2.
 Alpes-Maritimes (France).—Cossmann, M.; Depéret, C., 2; Goby, P.; Guéhard, A., 1, 3, 4, 6, & 7; Hitzel, E.; Janet, A.; Jeancard, P.; Kilian, W., 2 & 8; Lambert, J., 2; Maury, E., Négris, P.; Replin, J.; Roccati, A., 2 & 5.
 Alpine lakes, Switzerland.—Bourcart, F. E.
 Alps, Apuan (Italy).—Aloisi, P.
 —, Austrian.—Becke, F., 3; Muellner, A.; Steinmann, G., 5; Trauth, F.; Suess, F. E.
 —, Bavarian.—Broili, F.; Kœhne, W.; Weinschenk, E.
 —, Bernese (Switzerland).—Trœsch, A.
 —, Carnic.—Anon., 23; Gortani, M., 2; Krause, G.; Scupin, H.; Taramelli, T.; Vinassa de Regny, P., 4-7.
 —, Cottian. — Decourvière, E.; Franchi, S., 3-5; Novarese, V.; Termier, P.
 —, Dauphiné, &c.—Kilian, W.; Lory, P.
 —, Dinaric.—Salmon, W.
 —, formation of the.—Simoons, G., 2.
 Alps, glaciation of the.—Penck, A., 2.
 —, gneissic schists.—Sacco, F.
 —, Graian.—Stella, A.; Zaccagna, D.
 —, Julian.—Kossmat, F., 3; Muellner, A.
 —, Lepontine.—Mariani, E., 3.
 —, origin of the.—Van der Weile, C., 1 & 3.
 —, Pennine.—Stefani, C. de, 2; Stella, A.
 —, Rhætian.—Rothpletz, A., 2; Seidlitz, W. von.
 —, Salzburg.—Ohnesorge, T., 2.
 —, structure of Eastern & Western.—Frech, F., 4.
 —, Swabian.—Fraas, O.; Koken, E., 3; Kranz, W.; Pompeckj, J. F., 3.
 —, Swiss.—Ficker, H. von; Forel, F. A.; Heim, A., 1-5; Jaccard, F.; Lugeon, M.; Steinmann, G., 1 & 5.
 —, Tyrol.—Ampferer, O.; Gordon, M. M. O.; Termier, P., 2.
 Alsace-Lorraine. — Benecke, E. W., 1 & 2; Færster, B.; Ungemach, —; Walther, J.
 Alsódabas & Alsósajó. — *See* Dabas, Lower, & Sajó, Lower.
 Alta (Utah).—Palmer, L. A.
 Altai (Asia).—Ahnert, E. von.
 Altoona (Pa.).—Butts, C.; Kindle, E. M., 2.
 Alum, India.—Holland, T. H.
 Alváca (Transylvania). — Papps, K. von.
Alveolina.—Checchia-Rispoli, G.
Amaltheus.—Oppenheimer, J., 2.
 Amber, Baltic.—Meunier, F.; Zang, R., 1 & 2.
 —, India.—Holland, T. H., 2.
Amberleya.—Cossmann, M.
Amblyacrum.—Cossmann, M., 3.
 Amblygonite, Kashmir.—Mallet, F. R.
 Ambon I. (D.E.I.).—Verbeek, R. D. M.
 America (Central), soils.—Sapper, K.
 — (North), Archæan & ore-deposits.—Heneage, E. F.
 — (S.), former connexion with Africa.—Schwarz, E. H. L., 5.
 American geology, &c.—Merrill, G. P., 2; Weeks, F. B.; *see also* Permian-Carboniferous, &c.
 Amethyst.—Spencer, G. F. H.
 —, synthesis of.—Berthelot, A.
 Amgun R. (Siberia).—Maier, E.
 Amianthus.—*See* Chrysolite.
 Ammonites, Cretaceous.—Baumberger, E.; Crick, G. C.; Jacob, C.; Kilian, W., 5; Kossmat, F., 4; Nætling, F.; Pethœ, J.; Sintzov, J.; Stolley, E., 6 & 7.
 —, Jurassic. — Buckman, S. S., 3; Bigot, A., 2; Kilian, W., 8; Lee, G. W.; Prinz, G., 2-4; Salfeld, H.; Schmidt, M.; Schrœder, H.; Stolley, E., 3.
 —, Triassic.—Frech, F., 6.
Ammonites Parkinsoni-zone, N. Germany.—Schrœder, H.

- Ammonoidea, Cretaceous.—Fucini, A., 2; Leriche, M., 6; Macovei, G.; Uhlig, V., 2.
 —, Jurassic.—Cragin, F. W.; Gentil, L., 3; Oppenheimer, J., 2.
 —, Triassic.—Diener, C., 6 & 7.
 —. See also *Phylloceratidæ*, &c.
Ammosaurus.—Huene, F. von, 3.
 Amphibia, Bohemian fossil.—Bayer, F.
 —, Carboniferous.—Thévenin, A.
 —, Triassic.—Spitz, W.
 Amphibolite, Cevadaes.—Hlawatsch, C.
 —, classification of.—Murgoci, G. M., 3.
 —, Liguria.—Rosati, A., 1 & 2.
 —, Perm Gov.—Læwinson-Lessing, F., 4.
 —, Piedmont.—Mattirolo, E.
 —, Tian-Shan Mts.—Keidel, H., 2.
 —, Vermont.—Marsters, V. F.
 —, W. Australia.—Lindgren, W., 3.
 Amphichelydia.—Hay, O. P., 2.
Amphiprovierra.—Sinclair, W. J.
Amphoton.—Lorenz, T., 2.
Amplexi-Zaphrentis.—Matley, C. A.
Ampullina.—Jukovski, E., 2.
Ampullospira.—Cossmann, M., 3.
Ampyx.—Reed, F. R. C., 4.
 Analalava (Madagascar).—Colcanap, —; Lemoine, P., 2.
 Analcime.—Pelikan, A.
 Analcite-diabase, Gullane Hill.—Young, B. R.
 Analyses, Hungarian rocks & soils.—Emszt, K., 2.
 —, New Jersey crystalline limestone.—Kuemmel, H. B., 3.
 —, Russian water.—Sintzov, I., 2.
 Analysis, (method of) mineral.—Chesneau, G.
 —, (—) soil.—Cayeux, L., 2.
 —, (—) water.—Leighton, M. O.
Anaptomorphus.—Loomis, F. B.
 Anatase, Binn Valley.—Harre, R. W.
Anatina.—Cossmann, M., 2; Cragin, F. W.; Pethø, I.
 Ancachs (Peru).—Adams, G. I., 3.
Anchilophus.—Stehlin, H. G., 2.
Anchisaurus.—Huene, F. von, 3; Thyng, F. W.
Ancilla.—Oppenheim, P.
Ancodon.—Andrews, C. W.
Ancyloceras.—Brown, H. Y. L.; Sintzov, I.; Wegner, T.
 Andes (S. Am.).—Evans, J. W., 2; Høek, H., 3.
 Andesite, Ambon.—Verbeek, R. D. M.
 —, Argentina.—Bodenbender, G.; Taunhäuser, F.
 —, Caermarthenshire.—Cantrill, T. C., 2.
 —, Corsica.—Deprat, J., 2.
 —, Graham's Land.—Gourdon, E.
 —, Mexico.—Guild, F. N.; Warwick, A. W.
 —, Nevada.—Spurr, J. E., 2.
 —, New Zealand.—Marshall, P., 3; Sollas, W. J., 3.
 —, Queensland.—Jensen, H. I., 2.
 Andesitic basalt, Argyllshire.—Hill, J. B., 2.
 Andorre (Pyrenees).—Chevalier, M.
 Andreievski Mine (Urals).—Katterfeld, G. S.
 Angara R. (Perm).—Læwinson-Lessing, F., 4.
 Anglesey (N. Wales).—Edwards, W.; Greenly, E.
Anguilla.—Eastman, C. R.
 Anhalt (Germany).—Cornu, F., 2; Linstow, O. von.
 Ankarsrum (Gothland).—See SWEDEN, Geol. Undersökn.
 Annelid, Mount Torlesse.—Bather, F. A., 2.
Anomacare.—Lorenz, T., 2.
Anomalocaris.—Whiteaves, J. F., 3.
Anomia.—Sokolov, N.
Anomocarella.—Walcott, C. D., 3.
Anomomylaeris.—Handlirsch, A., 3.
 Antarctic Expedition, Belgian.—See 'Belgica.'
 — —, German.—Drygalski, E. von, 2.
 — —, Swedish.—Andersson, J. G., 1 & 3; Kilian, W., 5.
 Antarctic Regions.—Benham, W. B.; Ferrar, H. T., 1 & 2; Gaudry, A.; Gourdon, E.; Milne, J.; Richthofen, Baron F. von; Wilkens, O.
Anthonya.—Woods, H.
 Anthracite, Colorado.—Lakes, A.
 —, formation of.—Campbell, M. R.
 —, Savoy.—Badoureau, —.
 —, Virginia.—Tiffany, J. E.
Anthracoblattina.—Agnus, A. N.
 Anthracolithic fauna, Assam.—Diener, C.
Anthracomartus.—Baldwin, W.
Anthracomya.—Watson, D. M. S.
 Antimony, Alsace.—Ungemach, —.
 —, Nova Scotia.—Gilpin, E., Jun.
 —, Shan States (Northern).—Fermor, L. L., 5.
 —. See also UNITED STATES, Min. Resources.
Antinomia.—Buckman, S. S.
 Antola, Mte. (Liguria).—Issel, A., 2.
 Antrim, Co. (Ireland).—Straclan, J.
Antropornis.—Abel, O., 3.
 Antwerp docks (Belgium).—Simoens, G., 4; Van Bogaert, C.
 Aosta Valley (Piedmont).—Millosevich, F.
 Apennines (Italy).—Casselli, M.; Fucini, A.; Parona, C. F.; Prever, P. L.; Sacco, F., 6; Toldo, G.; Vinassa de Regny, P., 2.
 Apex, law of the.—Purington, C. W., 3.
Aphelomylaeris & *Aphthoblattina*.—Handlirsch, A., 3.
 Aplite, New Hampshire.—Pirsson, L. V., 2.
Aplosmia.—Angelis d'Ossat, G. de.
 Apophyllite.—Cornu, F., 3; Flink, G.; Manasse, E., 3.
Aporrhais.—Replin, J.

- Appalachian folds, America (N.).—Keith, A.
- Apterodon*.—Andrews, C. W.
- Aptian, Dauphiné.—Jacob, C.
- , Gard.—Pellat, E., 1 & 2.
- , Paris Basin.—Peron, A., 2.
- , *See also* Cretaceous.
- Aptycholathyrus*.—Cossmann, M., 3.
- Apuan Alps (Tuscany).—Aloisi, P.
- Apulia (Italy).—Stefano, G. di.
- Apyllostylus*.—Whiteaves, J. F.
- Arad Megye (Transylvania).—Papp, K. von, 2.
- Aragon (Spain).—Depéret, C., 4.
- Aragonite.—Nicolau, T., 3.
- Aragotite.—Hanks, H. G.
- Aralo-Caspian deposits, Lr. Volga.—Palibin, I. V.
- Araucaria*.—Seward, A. C., 2.
- Arawak Matope (British Guiana).—Harrison, J. B., 2.
- Arbe, I. of (Dalmatia).—Waagen, L.
- Arca*.—Borisjak, A., 3; Cragin, F. W.; Newton, R. B.; Pethæ, J.; Sokolov, N.
- Arcestes*.—Hyatt, A.
- Archadinsk District (S.E. Russia).—Pavlov, A. V., 2.
- Archæan, Africa (S.), & America (N.).—Heneage, E. F.
- , Canada.—Miller, W. G., 1-3.
- , earth's crust &.—Jourdy, E., 2.
- , Finland.—Jakovlev, S. A.
- , Rhodesia.—Mennell, F. P., 2.
- Archæocidaris*.—Vinassa de Regny, P., 6.
- Archæolemur*.—Grandidier, G.
- Archæolepas*.—Harbort, E.
- Archæologus*.—Handlirsch, A., 3.
- Archæophis*.—Janensch, W.
- Archæopteryx*.—Kemna, A.
- Archangel Gov. (Russia).—Ivanov, A. P.; Ramsay, W., 2 & 5.
- Archimastax*.—Handlirsch, A., 3.
- Archinacella*.—Reed, F. R. C., 3.
- Arcidæ, Jurassic.—Borisjak, A., 3.
- Arcopagia*.—Cossmann, M., 3.
- Arctic expedition, Swedish.—Hamberg, A., 4.
- , Regions.—Belowski, M.; Borg, W.
- , Russia.—Ramsay, W., 2 & 5.
- Ardèche (France).—Haug, É., 4; Mazaucric, F., 2; Raymond, P.
- Ardennes.—Cayeux, L., 3 & 6; Gosselet, J., 9; Prinz, W.
- Ardisson, Grotte d' (Alpes-Maritimes).—Goby, P.
- Ardmurchish (Argyll).—Bailey, E. B.
- Ardrihaig Group, Argyll.—Hill, J. B., 2.
- Arenig, Caernarthen.—Evans, D. C.
- Areuse R. (Neuchâtel).—Schardt, H.
- Argentario, Cape (Tuscany).—Lotti, B.
- Argentiferous lead, Savoy.—Badoureaux, —.
- Argentina (S. Am.).—Bodenbender, G.; Bravard, A.; Hauthal, R.; Sourdeaux, A.; Taunhäuser, F.
- Argillæcia*.—Cappelli, G. B.
- Argolis (Greece).—Renz, C., 4.
- Argon, mineral waters with.—Moureu, C.
- Argyll (Scotland).—Bailey, E. B.; Hill, J. B., 2; Peach, B. N., 2.
- Ariège (France).—Azéma, —; Bertrand, L.; Pâquier, V.
- Arizona (U.S.A.).—Atwood, W. W.; Barringer, D. M.; Blake, W. P.; Campbell, M. R., 2; Crosby, W. O.; Farrington, O. C.; Fletcher, L.; Lee, W. T.; Lindgren, W., 4; Mallet, J.; Merrill, F. J. H., 2; Reid, J. A.; Tilghman, B. C.; Ward, L. F.
- Arkansas (U.S.A.).—Schuchert, C.
- Arkansas Valley (Kan.).—Slichter, C. S., 2.
- Arkona beaches (Mich.).—Taylor, F. B., 1 & 2.
- Armenia (Asia Minor).—Oswald, T.
- Arnioceras*.—Fucini, A., 4.
- Arona-Santhia Ry. (Piedmont).—Sacco, F., 2.
- Arosa (Grisons).—Hæk, H.
- Arpadites*.—Hyatt, A.
- Arsenides, Ontario.—Campbell, W., 3.
- Arsinoitherium*.—Andrews, C. W.
- Artesian water, Auxonne.—Collot, L.
- , Argentina.—Sourdeaux, A.
- , Brussels.—Forir, H., 2.
- , Baden.—Steinmann, G., 4.
- , Karroo District.—Young, A.
- , Lincoln.—Hull, E.
- , Lombardy.—Toldo, G., 3.
- , Montreal I.—Adams, F. D., 4.
- , Nyitra Com. (Hungary).—Horusitzky, H.
- , Queensland.—Henderson, J. B.
- Arthrodira, Devonian.—Eastman, C. R., 2; Hussakof, L., 1 & 2.
- Arthropoda, Carboniferous.—Handlirsch, A.
- Artiodactyl, Tertiary.—Barbour, E. H.
- Artois (France).—Briet, L.; Gosselet, J., 4.
- Arves Valley (Savoy).—Révil, J., 3.
- Asabe (Nigeria).—Parkinson, J.
- Asaphus*.—Lamanski, V. V.; Lorenz, T., 2; Reed, F. R. C., 4.
- Asbestiform serpentine, veins in.—Merrill, G. P.
- Asbestos, India.—Holland, T. H., 2; Sambasiva-Iyer, V. S.
- , Vermont.—Marsters, V. F.
- , *See also* UNITED STATES, Min. Resources.
- Asemoblatta*.—Handlirsch, A., 3.
- Ashes, Vesuvius.—Johnsen, A.; Lacroix, A., 4; Llord y Gamboa, R.; Ohnesorge, T.; Quensel, P. D.
- Ashtead (Surrey).—Young, G. W.
- Asia Minor.—Bukowski, G. von; Freise, F.; Oswald, T.; Plieninger, F.; Schmeisser, C., 2.
- Aspenites*.—Hyatt, A.
- Asphalt, East Indies.—Dueñas, E. I.; John, C. von, 2; Kossmat, F., 4.

- Asphalt, Rhein-Hessen.—Steuer, A.
 —. See also UNITED STATES, Min. Resources.
 — veins, formation of.—Eldridge, G. H.
 Asphaltic coal, Indian Terr.—Crane, W. R.
Aspidites.—Hyatt, A.
Aspidoceras.—Cragin, F. W.
Asplenium.—Krasser, F., 2.
 Assam (India).—Diener, C.
 Assiniboia (Canada).—Bell, R., 3; Dowling, D. B., 2; Lambé, L. M., 2 & 3.
Astacus.—Harbort, E.
Astarte.—Cossmann, M.; Cragin, F. W.; Newton, R. B.; Pethœ, J.; Vinassa de Regny, P., 6; Wollemann, A., 3; Woods, H.
 Asti (Piedmont).—Sacco, F., 9.
Astrœpora.—Felix, J.
Astraliunum.—Pethœ, J.
Astrapotherium.—Tournouër, A.
Astroecenia.—Cragin, F. W.; Felix, J.; Koby, F.
Astrocystites.—Whiteaves, J. F., 3.
 Atacama (Chile).—Stutzer, O.
Atactoblatta.—Handlirsch, A., 3.
 Atherfield (I. of Wight).—Hooley, R. W.
 Atholl (Perthshire).—Coates, H.
Athyris.—Lorenz, T., 2; Vaughan, A.
Atimoblatta.—Handlirsch, A., 3.
 Atlas Mts. (N. Africa).—Brives, A., 2; Gentil, L., 2; Van de Weile, C., 1 & 3.
 Atmosphere, chemical and geological history of the.—Stevenson, J.
Atractites.—Hyatt, A.
 Auriferous conglomerates, Rhodesia.—Gregory, J. W., 5-7; see also Banket, Gold, &c.
 — gravels, Peru.—Pfluecker, L.
 Aurillac (Cantal).—Verworn, M.
 Australasia.—David, T. W. E., 1-4.
 —, earthquakes.—Baracchi, P.
 Australia, economic geography of.—Gregory, J. W., 2.
 —, glaciation of.—David, T. W. A., 2.
 —, water-supply of Central.—Basedow, H.
 — (S.).—See South Australia, &c.
 — (W.).—See Western Australia.
 Australian and Northern Hemisphere formations, correlation of.—Hall, T. S.
 Austria.—See also Tyrol, Vienna Basin, &c.
 — (Upper).—Abel, O., 2.
 Auteuil (Paris Basin).—Combes, P. (fil.).
 Authie R. (Picardy).—Briquet, A., 5.
 Autun (Burgundy).—Aron, A.
 Auvergne (France).—Glangeaud, P., 1-4; Lacroix, A., 4; see also Puy-de-Dôme, &c.
 Auxonne (Burgundy).—Collot, L.
 Avala (Servia).—Fischer, H.
 Avellino (Naples).—Baratta, M.; Parona, C. F.
 Avesnes (Nord).—Carpentier, A., 1 & 4; Leriche, M., 1 & 2.
 Aveyron (France).—Marty, P.
 Avich, Loch (Argyll).—Hill, J. B., 2.
Avicula.—Fucini, A.; Gortani, M., 5; Harbort, E.
Aviculopecten.—Etheridge, R. (fil.); Gortani, M., 5; Hind, W., 2; Scupin, H.; Vinassa de Regny, P., 6.
 Avigliana (Piedmont).—Piolto, G.
 Avon Gorge.—Vaughan, A.
 Avonian, Co. Dublin.—Matley, C. A.
 — (Somerset).—Sibly, T. F.
 Awa, Loch (Argyll).—Hill, J. B., 2.
 Axes, crystalline.—Evans, J. W., 1 & 5.
Axiologus.—Handlirsch, A., 3.
 Axminster (Devon).—Richardson, L., 7.
Axosmia.—Angelis d'Ossat, G. de.
 Ayers Range (N. Terr., S. Australia).—Basedow, H., 2.
 Ayot Green (Herts).—Monckton, H. W., 2.
 Ayrshire (Scotland).—Reed, F. R. C., 4.
 Azdjer (Sudan).—Foureau, F.
 Aznalcollar (Sevilla).—Preiswerk, H., 2.
 Azuero (Panama).—Jukovski, E.
 Azurite.—Achiardi, G. d'.
 Babadag (Rumania).—Macovei, G.
 Baddow, Gt. & Little (Essex).—Salter, A. E., 2.
 Bacchus Marsh (Victoria).—Chapman, F., 4.
 Bacteriology, geology of underground water &.—Jæger, H.
 Baden (Germany).—Becker, E., 1 & 2; Beierle, K.; Freudenberg, W.; Grepin, E.; Haid, M.; Huber, A.; Muehlberg, F.; Neumann, R.; Paulcke, W.; Rosenbusch, H.; Sauer, A.; Schalch, F.; Schmidt, M., 2; Spitz, W.; Steinmann, G., 2 & 4; Walther, J.; see also Maps, Baden.
Baëna.—Hay, O. P., 2; Lambe, L. M.
 Bagnoles (Normandy).—Launay, L. de.
 Bagolino (Lombardy).—Mariani, E., 2.
 Bahia (Brazil).—Bounet, C., 2; Derby, O. A.; Hussak, E.
Baiera.—Krasser, F., 2.
Bairdia.—Cappelli, G. B.; Ulrich, E. O.
 Baksan (Caucasus).—Pjatnizki, P.
 Bala-Caradoc, Caermarthen.—Evans, D. C.
Balatonites.—Hyatt, A.
 Balearic Is.—Hørnes, R., 2.
 Balkan Peninsula.—Cvijijić, J.; Oppenheim, P., 2; Toula, F.
 Balkar Mts. (Caucasus).—Lœwinson-Lessing, F., 3.
 Ball & band structures, Magnesian Limestone.—Abbott, G.
 Ballarat (Victoria).—Gregory, J. W., 8.
 Ballinluig (Perthshire).—Coates, H.
 Balmaha (Perth).—Du Toit, A. L.
 Balme, Grotte de la (Isère).—Martel, E. A., 2.
 Baltic amber.—Meunier, F.; Zang, R., 1 & 2.
 — Provinces (Russia).—Lamanski, V. V.
 Baltistan (Himalayas).—Worknan, F. B.

- Baluchistan (India).—Diener, C., 4.
 Bamnanag Cliff (Himalayas).—Diener, C., 3.
 Banket, Rhodesia.—Gregory, J. W., 5-7; *see also* Gold, &c.
 Baoussé-Roussé Cave (Mentone).—Boule, M.; Carzot, E.
 Bara Bay (Buru I.).—John, C. von, 2.
 Barberton (Transvaal).—Kynaston, H., 8.
 Barcelona (Spain).—Hørnes, R.
 Barisal guns.—Ržehák, A., 3.
 Barite.—*See* Barytes.
 Barkerville (B.C.).—Atkin, A. J. B.
Barrandeocerus.—Whiteaves, J. F., 2.
 BARROIS, C., *Biogr.*—*See* Anon., 18.
 BARRON, T., *Obit.*—*See* Anon., 1; Marr, J. E.
 Barton limestone - quarry (Yorks).—Teasdale, T.
 Barytes.—Achiardi, G. d'; Blum, L.; Colomba, L., 2; Couyat, J., 3; Hornung, F.; Manasse, E.; Schaller, W. T.; Wuestner, H.; *see also* UNITED STATES, Min. Resources.
 —, Nitrate of.—*See* Nitrobarite.
 Barysilite.—Sjögren, H., 2.
 Basalt, Antarctic.—Andersson, J. G.; Drygalski, E. von, 2; Gourdon, E.
 —, Argyll.—Bailey, E. B.; Hill, J. B., 2.
 —, Aveyron.—Marty, P.
 —, Baden.—Becker, E., 1 & 2.
 —, Batoka Gorge.—Lamplugh, G. W., 2.
 —, Bavaria.—Kœhne, W., 2.
 —, Cape Verd.—Chautard, J., 2.
 —, Eigg (Sgùrr of).—Harker, A., 3.
 —, Erythraea.—Manasse, E., 3.
 —, Gough I.—Campbell, R.
 —, Greenland.—Belowski, M.
 —, Hesse.—Lang, O.
 —, Iceland.—Pjetursson, H.
 —, Madagascar.—Colcanap, —, 2.
 —, Mediterranean (Western).—Washington, H. S.
 —, Mexico.—Guild, F. N.
 —, Nevada.—Spurr, J. E., 2.
 —, New Hebrides.—Mawson, D.
 —, New Zealand.—Marshall, P., 3; Sollas, W. J., 3.
 —, Queensland.—Jensen, H. I., 2.
 Basel (Switzerland).—Benecke, E. W., 3; Greppin, E.; Gutzwiller, A.; Leuthardt, F.
Basilemys.—Riggs, E. S.
 Basque Provinces.—Launay, L. de; Oppenheim, P., 3.
 Basses-Pyrénées (France).—Carez, L.
 Basutoland (S.A.).—Dornan, S. S.
 Batan I. (Philippines).—Wigmore, H. L.
 Batangas Prov. (Philippines).—Smith, W. D., 2.
 Batavia (D.E.I.).—Rudolph, E., 2.
 Bath (Somerset).—Thompson, W., 2.
 — Museum, Triassic fossils.—Lomas, J.
 Bath Furnace (Ky.).—Ward, H. A., 2.
 Bathgate (Linlithgow).—Falconer, J. D.
 Batholite, Cascade Mts.—Daly, R. A., 2.
 Bathonian, Alpes-Maritimes.—Cossmann, M.; Kilian, W., 8.
 —, Indre.—Garde, G.; Launay, H. de.
Bathytaptus.—Handlirsch, A., 3.
Bathyriscus.—Lorenz, T., 2; Pack, F. J.
 Batoka Gorge (Zambezi R.).—Lamplugh, G. W., 2.
 Battle (Sussex).—Whitaker, W.
 Baudour (Hainault).—Cornet, J., 6.
 Bauges, Les (Savoie).—Deslarmes, J.
 Baume-les-Messieurs, Grotte de (French Jura).—Renauld, E.; Viré, A.
 Bavai (Nord).—Landrière, J., 2.
 Bavaria.—Bergt, W.; Bleeck, W. G.; Kœhne, W., 1 & 2; Luczizky, W.; Maas, O.; Neumeister, P.; Reindl, J.; Sauer, A.; Schmidt, A.; Stuchlik, H.; Walther, J.; Wanderer, K.; *see also* Rhenish Bavaria & Swabia.
 Bavarian Exhibition, Nürnberg, 1906.—Friz, O.
 Bavarian's Kloof (Cape Colony).—Schwarz, E. H. L., 2.
 Beaches.—*See* Raised beaches.
 Bears, Quaternary.—Reynolds, S. H., 2.
 Beauce, La (Paris Basin).—Dollfus, G. F., 3.
 Beaulieu Basin (Inverness).—Murray, Sir J., 3; Peach, B. N., 4.
 Beaver, fossil.—Collot, L., 2.
 Bechuanaland (S.A.).—Du Toit, A., 3.
 Becraft Mt. (N.Y.).—Clarke, J. M., 5.
 Bedous (Basses Pyrénées).—Carez, L.
 BEECHER, C. E., *Obit.*—*See* Schuchert, C.
 Bega (Transylvania).—Kadič, O.
 Beggar Hill (Essex).—Salter, A. E.
 Bela.—Cossmann, M., 3.
Belemnites.—Danford, C. G.; Stille, H., 3; Wollemann, A., 3.
 — *ultimus*-beds, Schleswig-Holstein.—Gagel, C., 7.
 Bélesta (Ariège).—Pâquier, V.
 Belgian Antarctic Expedition.—*See* 'Belgica.'
 — black granite.—Anon., 33.
 Belgium, geological map, $\frac{1}{100,000}$.—Greindl, Baron L., 2.
 —, Pleistocene.—Lorié, J., 3.
 —, seismological stations in.—Lagrange, E.
 —. *See also* Brussels, Coalfields, Earthquakes, Tertiary, &c.
Belinurus.—Baldwin, W., 2.
 Belknap Mts. (New Hampshire).—Pirsson, L. V., 2.
 Bellary District (S. India).—Maclaren, J. M., 3.
 Bellegarde Valley (Savoie).—Douxami, H., 4.

- Bellerophon*.—Clarke, J. M., 7; Frech, F.; Gortani, M., 5; Reed, F. R. C., 3.
—beds, Italy.—Caneva, G.; Gortani, M., 5.
- Belluno (Venetia).—Piaz, G. dal; Toniolo, R. A., 1 & 2.
- Belosepiella*.—Alessandri, G. de.
- Belvidere Mt. (Vt.).—Marsters, V. F.
- Ben Nevis (Scotland).—Gatty, V. H.
- Bendigo (Victoria).—Lindgren, W., 2.
- Bendock (Vict.).—Mingaye, J. C. H.
- Benevento (Campania).—Baratta, M.
- Bengal Pres. (India).—Fermor, L. L., 5; Molony, E.; Vredenburg, E., 2 & 3.
- Beni R. (Brazil).—Evans, J. W., 2.
- Bennettites*.—Lignier, O.
- Bentley (Suffolk).—Ridley, E. P.
- Benton Co. (Iowa).—Savage, T. E.
- Berane (Bosnia).—Martelli, A., 2.
- Berlice R. (British Guiana).—Harrison, J. B., 4.
- Bereg (Hungary).—Posewitz, T., 2.
- BERENDT amber-collection.—Zang, R., 2.
- Berenicea*.—Cragin, F. W.
- Berkshire.—Kennard, A. S.; Monckton, H. W.; Shrubsole, O. A.; White, H. J. O., 1 & 3.
- Berlin (Germany).—Linstow, O. von, 2; Menzel, H., 2.
—University collection of meteorites.—Klein, C.
- Berne (Switzerland).—Antenen, F.; Baumberger, E.; Martin, Rud.; Träsch, A.
- Bernese Oberland.—Baltzer, A., 2.
- Berriasiian.—See Purbeckian.
- BERTRAND'S (M.) theory.—Jaccard, F.
- Beryl.—Ford, W. E.
- Bessarabia (Russia).—Andrussov, N.
- Bethany (N.Y.).—Slocum, A. W.
- Betlér (Hungary).—Reguly, E., 1 & 2.
- Beucha (Saxony).—Hess von Wichdorff, H.
- Benguies (Nord).—Carpentier, A.
- Beyrichia* & *Beyrichiella*.—Ulrich, E. O.
- Bhután (India).—Pilgrim, G. E., 3 & 4.
- BIAGI, G., *Obit.*—See Neviani, A.
- Biarritz (Basses-Pyrénées).—Liebus, A.; Oppenheim, P., 3; Prever, P. L., 2.
- Biban Mts. (Algeria).—Savornin, J., 1 & 2.
- Bidi (Sarawak).—Scrutton, T. C.
- BIEN, J., *Obit.*—See Anon., 2.
- Bighorn Mts. (Wy.).—Mansfield, G. R.
- Bihar (Transylvania).—Papp, K. von, 2; Szadeczky, J. von; Szontagh, T. von.
—Mts. (Transylvania).—Rozloznsnik, P.
- Billingen Mt. (Gothland).—Munthe, H.
- Biloculina*.—Bullen, R. A.
- Bingham (Utah).—Boutwell, J. M.
- Binn Valley (Valais).—Harre, R. W.; Solly, R. H.
- Biology, geological time &.—Lobley, J. L.
—, palæontology &.—Woodward, A. S., 2.
- Biot (Alpes-Maritimes).—Depéret, C., 2.
- Biotite-gneiss, algæ in.—Alhert, E. von.
- Birch Creek (Alaska).—Prindle, L. M.
- Birds, fossil.—Abel, O., 3; Ameghino, F.; Bayer, F.; Hutton, F. W., 3; Loomis, F. B., 2; Stirling, E. C.; Ussher, R. J.
- Birdsville Limestone, Kentucky.—Ulrich, E. O., 2.
- Birikulski mine (Mariinsk).—Korotkov, —.
- Bischofite.—Muegge, O., 3.
- Bismarck Archipelago (Pacific).—Schmeisser, C.
- Bismuth, Colorado.—Schwarz, T. E.
—, New South Wales.—Andrews, E. C.
- Bituminous deposits, eruptive rocks &. —Lakes, A.
—schists, France.—Aron, A.
- Black coating on rocks.—Evans, J. W., 2.
- Black Forest (Germany).—Huber, A.; Neumann, R.; Rosenbusch, H.; Sauer, A., 1 & 2; Schmidt, M., 2.
- Black Hills (Dak.).—Mansfield, G. R.
- Black-Reef Series, Kromdraai.—Hall, A. L., 4.
- Blackwood (Vict.).—Ferguson, W. H.
- Blairmore (Alberta).—Bell, R., 3.
- BLAKE, J. F., *Obit.*—See Anon., 3.
- BLANFORD, W. T., *Obit.*—See Alcock, A. W.; Holland, T. H.; Marr, J. E.
- Blastoidea, Carboniferous.—Taylor, T. G.; Ulrich, E. O., 2.
—, Silurian.—Whiteaves, J. F., 3.
- Blaton (Hainault).—Cornet, J.
- Blattidæ, Cretaceous.—Handlirsch, A., 2.
— & Blattoidæ, Palæozoic.—Handlirsch, A., 3.
- Blea Wyke (Yorks).—Herries, R. S., 1 & 3.
- Blende, Sardinia.—Rimatori, C.
- Blocks, erratic, Himalayas.—Griesbach, C. L.; see also Erratic.
- Blue-John Mine (Derby).—Barnes, J.
- Blue Nile (Abyssinia).—Blundell, H. W.
- Blue veins of glaciers.—Reid, H. F.
- Blümlis Alp (Bern).—Träsch, A.
- Bodenwöhr R. (Bavaria).—Wanderer, K.
- Boekal River, B'wood (Celebes).—Koperberg, M.
- Bog-ores, origin of.—Vogt, J. H. L., 2.
- 'Boghead', France.—Aron, A.
- Bognor (Sussex).—Reid, C.
- Bogs, origin of.—Post, L. von.
—, Scotland.—Geikie, J.; Lewis, F. J., 1 & 2.
—, See also Peat.
- Bohemia.—Bergt, W., 1 & 2; Cornu, F., 6; Grænzer, J.; Jaln, J. J., 2; Pabst, W.; Petrascheck, W., 2; Seemann, F.; Suess, F. E., 2; Želižko, J. V.
- Böhlet (Sweden).—Sjögren, H., 5.
- Bohuslän (Gothland).—Munthe, H.
- Bokkeveld Beds, South Africa.—Reed, F. R. C., 2; Schwarz, E. H. L., 8.

- Bolca Mte. (Venetia).—Eastman, C. R.; Janensch, W.
- Bolderian.—Dewalque, G. J. G., 2.
- Boleite.—Friedel, G.
- Bolivia (S. Am.).—Hæk, H., 3; Lake, P.; Steinmann, G.; Wood, E. M. R., 2.
- Bolsena, Lago di (Central Italy).—Orzi, D.; Sabatini, V.
- Bombs, volcanic.—Bassani, F., 1 & 2.
- Bon-Vouloir (Hainault).—Munck, E. de.
- Bonn (Rh. Pruss.).—Pohlig, H.
- BONPLAND, A. J. A.—See Hamy, E. T., 2.
- Borax, Chile.—Herrmann, A.
- , India.—Holland, T. H., 2.
- , origin of.—Van't Hoff, J. H., 4.
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- Borgie R. (Scotland).—Murray, Sir J., 2.
- Borhyæna*.—Sinclair, W. J.
- Borings, Aargau.—Muehlberg, F., 2.
- , Alsace.—Forster, B.
- , Ardennes.—Gosselet, J., 9.
- , Argentina.—Sourdeaux, A.
- , Artois.—Gosselet, J., 4.
- , Auxonne.—Collot, L.
- , Baden.—Steinmann, G., 4.
- , Brunswick.—Harbort, E., 2; Stolley, E., 4.
- , Brussels.—Forir, H., 2.
- , Callao.—Sutton, C. W.
- , Campine.—Lohest, M., 4.
- , Gloucestershire.—Richardson, L., 5.
- , Great Baddow.—Salter, A. E., 2.
- , Hainault.—Cornet, J., 2.
- , Hesse.—Schottler, W.
- , Humber Valley (Newfoundland).—Howley, J. P.
- , Ingatstone.—Salter, A. E.
- , Kent.—Burr, M.
- , Lincolnshire.—Anon., 38; Hull, E.
- , Lorraine.—Cavallier, C.
- , New South Wales. See NEW SOUTH WALES, Depart. Mines.
- , Nord.—Carpentier, A., 2; Gosselet, J., 1 & 2; Pagnier, —; Videlaïne, —.
- , Nyitra Com. (Hungary).—Horwitzky, H.
- , Orissa District (India).—Bose, P. N., 2.
- , Philippine Is.—Wigmore, H. L.
- , Picardy.—Dollfus, G. F.; Gosselet, J., 4, 8-10; Hermery, J., 2.
- , Russia.—Sintzov, I., 2.
- , Senne Valley.—Halet, F.
- , Suffolk.—Whitaker, W., 2.
- , United States.—Darton, N. H., 3.
- , Yorkshire.—Strangways, C. F.
- , See also Water, Wells, &c.
- Bormida, La (Cottian Alps).—Franchi, S., 3.
- Borneo (E. I.).—Dieseldorf, A.; Douvillé, H., 3; Geikie, J. S.; Hamilton, W.; Icke, H.; Scrutton, T. C.
- Borolanite, Sutherland.—Shand, J.
- Borough Green (Kent).—Bennett, F. J., 5.
- Borrowdale (Lake District).—Marr, J. E., 2.
- Borstal Heath (Kent).—Leach, A. L.
- Bort, Brazil.—Derby, O. A.
- Boryslaw (Galicia).—Angermann, E.; Holobek, J.
- Bos, Magdeburg.—Mertens, —.
- Bosnia.—Katzner, F., 1 & 3; Martelli, A., 2; Mauritz, B.
- Boston (Mass.).—Mansfield, G. R., 2.
- Bothriolepis*.—Traquair, R. H., 2.
- Bothrodendron*.—Schwarz, E. H. L., 8.
- Botryocrinus*.—Bather, F. A., 3.
- Boulder, Low Spen 'wash-out.'—Lebour, G. A.
- Boulder, pyrites in Molteno quartzite.—Schwarz, E. H. L., 7.
- Boulder City (Colo.).—Fenneman, N. M., 2.
- Boulder-Clay & Chalk, Royston.—Bonney, T. G.
- Boulders, Yorkshire.—Sheppard, T., 4.
- Boultham (Lincoln).—Anon., 38.
- Boulzicourt (Ardennes).—Gosselet, J., 9.
- Bourges (Cher).—Dollfus, G. F., 4.
- Bourne Valley (Dauphiné).—Decombaz, O., 2.
- Bournemouth (Hants).—Cripps, F. S.
- Bournonite.—Millosevich, F., 2.
- Boxford (Berks).—White, H. J. O., 1 & 3.
- Bozel (Savoy).—Carez, L., 2.
- Brabant (Belgium).—Velge, G.
- Brachiopoda, Cambrian.—Etheridge, R. (*fl.*); Pack, F. J.; Walcott, C. D., 2.
- , Carboniferous.—Foureaux, F.; Frech, F., 7; Hind, W.; Keidel, H.; Matley, C. A.; Vaughan, A.; Vinassa de Regny, P., 6.
- , Cretaceous.—Ascher, E.; Krumbeck, L.
- , development of.—Buckman, S. S.
- , Devonian.—Breger, C. L.; Clarke, J. M., 5; Kindle, E. M.; Newton, E. T.; Reed, F. R. C., 2; Schmidt, W. E.; Schwarz, E. H. L., 8; Scupin, H.
- , Jurassic.—Buckman, S. S., 1, 2, & 4; Gentil, L., 3; Martelli, A., 3; Schmidt, M.
- , nomenclature of fossil.—Buckman, S. S., 4.
- , Permian.—Koken, E., 3.
- , Permo-Triassic.—Gortani, M., 4.
- , Silurian.—Clarke, J. M., 7; Foureaux, F.; Lamanski, V. V.; Whitcaves, J. F.
- , systematic species-determination of fossil.—Dacqué, E.
- , Tertiary.—Cossmann, M., 3; Fuchs, T.
- Brachylepas*.—Behm, J.; Woodward, H., 6.
- Brachymylacris*.—Handlirsch, A., 3.
- Brachyphylum*.—Krasser, F., 2.
- Brachyprion*.—Clarke, J. M., 5.
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 Bramerton (Norfolk).—Hinton, M. A. C.
 Brandenburg (Prussia).—Gagel, C., 2;
 Linstow, O. von, 2; Solger, F., 2;
 Schröder, H., 4.
 Brandon (Vt.).—Perkins, G. H.
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 Brattleboro (Vt.).—Fisher, E. F.
 Braunsrode (W. Prussia).—Jentzsch, A., 5.
 Bray, Pays de (France).—Dubus, A.
 Brazil (S. Am.).—Bonnet, E., 2; Branner, J. C.; Clarke, J. M., 4; Derby, O. A., 1 & 2; Evans, J. W., 2; Hussak, E., 1, 2, & 4-7; Katzer, F., 4; Osborn, H. F., 3; Pearson, H.; Westergård, A. H., 2.
 Brea, La (Trinidad).—Craig, E. H. C., 5.
 Breccias, Alpes-Maritimes.—Guébard, A., 5.
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 —, Glen Lui igneous.—Craig, E. H. C.
 —, Ormots crystalline.—Renevier, E.
 —, Tyrol interglacial.—Hammer, W., 2.
 Bregenz (Tyrol).—Blaas, J.
 Breggia Valley (Lombardy).—Heim, A., 3.
 Brenner Pass (Tyrol).—Termier, P., 2.
 Breslau (Silesia).—Kemna, A., 4.
 Breunnerite.—Pioti, G.
 Breusch Valley (Vosges).—Mueller, F. T.
 Brewster Co. (Texas).—Phillips, W. B.
 Bribir (Dalmatia).—Dainelli, G.
 Bridge, Gokteik Gorge natural.—La Touche, T. D., 2.
 Bridger Beds, Wyoming.—Hay, O. P.
 Brill (Bucks).—Davies, A. M.
Brissoides.—Lambert, J., 2.
 Bristol.—Hind, W., 4; Vaughan, A.
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 British North Borneo (E.I.).—Dieseldorf, A.
 Brocan Hill (Piedmont).—Roccati, A., 4.
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 Brocken massif (Harz Mts.).—Erdmannsdorffer, O. H.
Brontosaurus.—Osborn, H. F., 2.
 Brookite.—Palache, C.
 Brosso (Piedmont).—Colomba, L., 1-3.
 Brown coal, Austria.—Michael, R.
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 Bruay (Pas-de-Calais).—Barrois, C., 2; Malaquine, A.
 Bruchsal (Baden).—Beierle, K.
 Brucite.—Julien, A. A., 2.
 Brünn (Moravia).—Suess, F. E., 2 & 3.
 Brunswick (Germany).—Grupe, O., 2; Harbort, E., 2; Stolley, E., 4-10; Wollennann, A., 2.
 Brussels (Belgium).—Forix, H., 2; Mourlon, M., 1 & 3.
 Bruxellian, Brussels.—Mourlon, M.
Bryograptus.—Ruedemann, R.
 Bryozoa, Carboniferous.—Stuckenbergh, A.; Ulrich, E. O., 2.
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Buccinum.—Welch, R.
 Bucegi Massiv (Rumania).—Popovičić-Hartzeg, V.
Buchiola.—Reed, F. R. C., 2.
 Buck-Hill Grit, Charnwood.—Bennett, F. W., 4.
 Bückeberg (Prussia).—Harbort, E.
 Buckinghamshire.—White, H. J. O., 2.
 Budigsdorf (Moravia).—Wilschowitz, H.
 Buffaure (Val di Fassa).—Taconi, E.
Bugulopsis.—Bullen, R. A.
 Building-stones, effect of fire on.—Baldwin-Wiseman, W. R., 3.
 —, Germany.—Bruhns, W.
 —, India.—Holland, T. H., 2.
 —, Iowa.—Beyer, S. W.
 —, Victoria.—Kitson, A. E.
 Bulandshöfdi (Iceland).—Kuipovich, N.
 Bulawayo (Rhodesia).—Johnson, J. P., 3; Menell, F. P., 2.
 Bulgaria.—Cvijić, J.; Lauuay, L. de, 2; Scorpil, H.
Bulla.—Oppenheim, P.
 Bülten, Gr. (Brunswick).—Stolley, E., 6.
 Bulze (Pennsylvania).—Kadić, O., 2.
 Bundelkand (Bengal).—Silberrad, C. A.; Vredenburg, E., 2 & 3.
 Burdigalian, Alpes-Maritimes.—Lambert, J., 2.
 Bure zone, Liège Devonian.—Dewalque, G. J. G., 3.
 Büren (Westphalia).—Stille, H., 2.
 Burgundy (France).—Constant, A.; Gaubert, P., 4; *see also* Côte-d'Or, &c.

- Burma.—Bauer, M.; La Touche, T. D., 3; Pilgrim, G. E., 2.
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- , Rhenish Prussia, &c.—Dorlodot, H. de, 3.
- Burntness Combe (Cumberland).—Rastall, R. H.
- Buru I. (Molucca Is.).—John, C. von, 2; Kossnat, F., 4.
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- Buttermere (Cumberland).—Rastall, R. H., 1 & 2.
- Bwool (Celebes).—Koperberg, M.
- Byans Pass (Himalayas).—Diener, C., 2 & 5.
- Cabrerite.—See Sachs, A.
- Cadagno Lake (Ticino).—Garwood, E. J.
- Cadlino upland (St. Gothard massif).—Mariani, E., 3.
- Cadmium-mineral, new.—Schneider, O.
- Caen (Normandy).—Bigot, A., 2.
- Caernarthenshire (Wales).—Cantrill, T. C., 2; Evans, D. C.
- Caffaro Valley (Lombardy).—Mariani, E., 2.
- Cahaba coalfield (Ala.).—Smith, E. A., 2.
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- Cajamarca, Prov. of (Peru).—Santollalla, F. M.
- Calabar River (S. Nigeria).—Parkinson, J., 2.
- Calabria (Italy).—Jervis, W. P.; Lugeon, M., 4; Neviani, A., 3; Prever, P. L.
- Calafuria Massif (Tuscany).—Manasse, E.
- Calais-Dover Tunnel.—Dollfus, G., 6.
- Calamophyllia*.—Koby, F.
- Calcareous rocks, Griqualand West.—Young, R. B.
- schist, Furgan Valley.—Stella, A.
- , Liguria.—Franchi, S., 5.
- , Piedmont.—Novarese, V.
- tufa, Alfeld.—Menzel, H.
- , Gothland.—Halle, T. G.
- Calciferous Sandstone, Scotland.—Crampton, C. B.
- Calcite.—Achiardi, G. d'; Buttgenbach, H., 2 & 3; Fedorov, E. von, 3; Manasse, E., 2; Repossi, E.; Zimányi, K.
- , alterations of.—Cornu, F., 4.
- , phosphorescent.—Headden, W. P.
- Caledon (Cape Colony).—Hahn, P. D.
- Caledonian folds, Belgium.—Simoens, G., 7.
- Calicut (Travancore).—Neilson, R. G.
- California (U.S.A.).—Anon., 29 & 35; Arnold, R., 1 & 2; Bagg, R. M. (*fl.*); Branner, J. C., 3; Davidson, G., 1 & 2; Davison, C., 6; Furlong, E. L.; Gidley, J. W., 2; Gilbert, G. K., 2, 4, & 5; Gill, H. V.; Gunther, C. G., 2; Hanks, H. G.; Hershey, O. H.; Knopf, A., 1 & 2; Lapparent, A. de; Mendenhall, W. C., 2-5; Murgoci, G. M., 3; Omori, F.; Schuchert, C., 2; Taber, S.; Tarr, R. S., 4; Ward, L. F.; Waring, G. A.; see also San Francisco, Earthquakes, &c.
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- Californites*.—Hyatt, A.
- Callabonna, Lake (S. Austral.).—Stirling, E. C.
- Callao (Peru).—Sutton, C. W.
- Calleycancha (Peru).—Pfluecker, L., 2.
- Calliostoma*.—Bullen, R. A.; Cossmann, M., 3.
- Callipteridium*.—Vinassa de Regny, P., 6.
- Callipteris*.—Grand'Eury, F. C., 2.
- Callocardia*.—Jukovski, E., 2.
- Callomenus*.—Sinclair, W. J.
- Callovian, Saratov Gov.—Pavlov, A. V.
- Calyculina*.—Gutzwiller, A.
- Calymene*.—Reed, F. R. C., 4.
- Camarophoria*.—Vinassa de Regny, P., 6.
- Camarotechia*.—Vaughan, A.; Whiteaves, J. F.
- Cambotte, La (Savoie).—Clemençot, —.
- Cambrian, British Columbia.—Whiteaves, J. F., 3.
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- Campbell-Rand Series, Cape Colony.—Rogers, A. W., 2.
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- Campteronaura*.—Handlirsch, A., 3.
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Candona.—Cappelli, G. B.
Caninia.—Vaughan, A.
 Cannon Chase (Staffs). — Cockin, G. M.
 Canonbie (Dumfries).—Kidston, R., 2; Peach, B. N., 6.
 Cañon Range (Utah).—Davis, W. M.
 Cantal (France).—Verworn, M.
 Cape Colony (S.A.).—Beck, R., 2; Blake, G. S.; Broom, R., 1-6; Du Toit, L., 2 & 4; Hahn, P. D.; Harger, H. S.; Hatch, F. H., 1-4; Knox, A.; Reed, F. R. C.; Rogers, A. W., 1 & 2; Ronaldson, J. H.; Sandberg, C. G. S.; Schunke-Hollway, H. C.; Schwarz, E. H. L., 1-9; Sjögren, H., 4; Young, R. B., 1 & 2.
Caprina.—Pâquier, V., 2.
Captosoma.—Gregory, J. W., 4.
Capulus.—Cossmann, M., 3.
 Caradocian, Westmorland. — Marr, J. E., 3.
 Carbonado.—See Bort.
 Carbonic - acid gas, natural.—Delkeskamp, R.
 Carboniferous, Archadinsk District.—Pavlov, A. V., 2.
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 —, Cornwall & Devon.—Arber, E. A. N., 3.
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 —, Hungary.—Frech, F., 7.
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 —, Sahara.—Fourreau, F.; Peron, A., 3.
 —, St. Etienne.—Termier, P., 5.
 —, Staffordshire. — Cockin, G. M.; Ward, J., 1 & 2.
 —, Tian-Shan.—Keidel, H.
 —, Ural Mts. — Læwinson-Lessing, F., 7.
 —, Victoria.—Woodward, A. S., 5.
 —, Vladimir Gov.—Stuckenborg, A.
 Carboniferous, Yorkshire. — Dwerryhouse, A. R.; Johns, C., 2.
 —. See also Permo-Carboniferous.
 — Limestone, Aberlady, Dunbar, & St. Monans.—Crampton, C. B.
 — —, Belgium.—Anon., 33; Brien, V.; Lohest, M.; Maillieux, E.
 — —, Bristol. — Hind, W., 4; Vaughan, A.
 — —, Derbyshire, Flintshire, & Shropshire.—Hind, W., 4.
 — —, Yorkshire.—Teasdale, T.
 — zones.—Hind, W., 3; Stobbs, J. T.
Carcharodon.—Jukovski, E., 2.
Carcinophyllum.—Vaughan, A.
 Cardiff (Glamorgan).—Richardson, L., 3.
 Cardiganshire (Wales).—Jones, O. T.
Cardita. — Chautard, J.; Krumbeck, L.; Woods, H.
Cardium.—Cossmann, M., 2; Pethœ, J.
 Carinthia (Austria).—Granigg, B.
 Carmaux (Languedoc).—Laromiguière, J.
 Carnica (Venetia).—Gortani, M., 1-5.
 Carnic Alps.—See Alps.
 Carniola (Austria).—Kossmat, F., 1 & 3; Krause, G.; Muellner, A., 1 & 2.
 Carnivora, Quaternary.—Reynolds, S. H., 2.
 —, Tertiary.—Reichenau, W. von.
 Carnmoney Hill (Co. Antrim). — Strachan, J.
 Carno (Montgomery).—Wood, E. M. R.
 Carnotite, Colorado.—Ohly, J.
 Carpathian Mts.—Beck, H.; Martonne, E. de; Mrazec, L.; Romer, E.; Uhlig, V.
 Carpolite, Anhalt.—Cornu, F., 2.
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 Carrubare (Calabria).—Neviani, A., 2.
 Cascade Mts. (U.S.A.).—Daly, R. A., 2.
 Caserta (Campania).—Flores, E.
Cassianella.—Gortani, M., 5; Mariani, E.
Cassis.—Oppenheim, P.
 Cassiterite. — Buttgenbach, H., 4; Coomáráswamy, A. K., 2; Fermor, L. L., 5; Headden, W. P., 2.
 Castelluccio (Abruzzo). — Vinassa de Regny, P., 2.
 Castle Peak (Washington, U.S.A.).—Daly, R. A., 2.
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Castor.—Collot, L., 2.
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 Catskill Mts. (N.Y.).—Rich, J. L.
 Cattanisetta (Sicily). — Stefano, G. di, 2.

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- , Picardy.—Hamy, E. T.
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- , Torquay.—Fletcher, J. H.
- , water-erosion &.—Schardt, H., 3.
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- Ceara (Brazil).—Katzner, F., 4.
- Cedros (Trinidad).—Craig, E. H. C., 6.
- Cefni R. (Anglesey).—Greenly, E.
- Celebes (D.E.I.).—Koperberg, M., 1 & 2.
- Celendin, Prov. of (Peru).—Santolalla, F. M., 2.
- Celestial Mts. (China).—*See* Tian-Shan Mts.
- Celestite.—Hornung, F. ; Kraus, E. H., 3.
- Cement-materials.—Blount, B. ; Eckel, E. C.
- Cenis, Mt. (Cottian Alps).—Decourvière, E.
- Cenomanian, Algeria.—Blayac, J.
- , Germany (N.).—Stille, H., 3.
- , Hainault.—Cornet, J.
- , *See also* Cretaceous.
- Cephalopoda, Cambrian.—Lorenz, T., 2.
- , Carboniferous.—Ward, J.
- , Cretaceous.—Brown, H. Y. L. ; Kilian, W., 2 ; Krumbek, L. ; Pethœ, J. ; Stille, H., 3 ; Till, A. ; Wegner, T. ; Wollemann, A., 1 & 3.
- , Devonian.—Schwarz, E. H. L., 8.
- , fossil-shells in the body-chamber of fossil.—Kœnen, A. von, 4.
- , Jurassic.—Bigot, A., 2 ; Cragin, F. W. ; Fucini, A., 4 ; Gussmann, — ; Popović-Hartzeg, V. ; Renz, C. ; Schmidt, M.
- , Permo-Triassic.—Gortani, M., 5.
- , Tertiary.—Alessandri, E. de ; Oppenheim, P.
- , Triassic.—Diener, C., 3 & 4 ; Hyatt, A. ; Janensch, W., 2.
- , Silurian.—Clarke, J. M., 7 ; Whiteaves, J. F., 1-3.
- Ceratites*.—Diener, C., 7 ; Hyatt, A.
- Ceratocœnia*.—Koby, F.
- Ceratodus*.—Foureaux, F. ; Woodward, A. S.
- Ceratomya*.—Cossmann, M., 2.
- Ceratophyre*, Namur.—Mathieu, E.
- Ceratops*.—Lull, R. S.
- Ceratopyge-zone*, Dalecarlia.—Wiman, C., 2.
- , Gothland.—Post, L. von, 2.
- Cerithium*.—Ascher, E. ; Choffat, P. ; Cragin, F. W. ; Dainelli, G. ; Friedburg, W. S. von ; Harbort, E. ; Oppenheim, P. ; Pethœ, J. ; Schmidt, M.
- Cernavoda (Dobrudsha).—Simionescu, J.
- Ceromya*.—Fucini, A.
- Ceropalites*.—Cockerell, T. D. A.
- Ceruus*.—Lœnnberg, E.
- Cestona (Basque Provinces).—Launay, L. de.
- Cetacea, Tertiary.—Abel, O., 3 ; Fucini, A., 3 ; Piaz, G. dal.
- , Quaternary.—Eastman, C. R., 3.
- Cetina (Dalmatia).—Kerner, F. von, 4.
- Cetona, Mt. (Tuscany).—Fucini, A., 4.
- Cevadaes (Portugal).—Hlawatsch, C.
- Čevljanović (Bosnia).—Katzner, F., 3.
- Ceylon.—Coomáráswamy, A. K., 1 & 2 ; Brauns, R., 3 ; Dunstan, W. R., 5.
- Chabasite.—Manasse, E., 3.
- Chablais (Savoy).—Révil, J., 7.
- Chad, Lake (Sudan).—Chudeau, R., 2
- , Foureaux, F. ; Lacroix, A., 11.
- Chalcedony, Carnmoney Hill.—Strachan, J.
- Chalepomylacris*.—Handlirsch, A., 3.
- Chalk, Berkshire.—White, H. J. O., 1 & 3.
- , Boulder-Clay &, Royston.—Bonney, T. G.
- , Cambridgeshire.—Jukes-Browne, A. J., 3.
- , cliffs, Cape la Hève.—Lemesnil, H.
- , flints.—Stanley, W. F.

- Chalk, Germany (N.).—Döecke, W.; Gagel, C., 3 & 7; Jentsch, A., 5; Stolley, E., 7 & 10; Wollemann, A., 2 & 3.
- , London Basin.—Treacher, Ll.
- , Möen.—Hill, E.
- , Nord.—Gosselet, J., 2 & 3; Leriche, M., 4 & 6.
- , Norfolk.—Bonney, T. G., 2; Brydone, R. M., 1 & 2; Hudleston, W. H.; Jukes-Browne, A. J., 2; Woodward, H., 6.
- , Paris Basin.—Couppey de la Forest, M. le.
- , Poland.—Siemiradzki, J. von, 3.
- , Rügen I.—Döecke, W., 6.
- , Surrey.—Herries, R. S., 2; Jukes-Browne, A. J., 4.
- , Sussex.—Dibley, G. C.
- , Westphalia.—Brandes, G.; Wegner, T.
- , white, Echinoids.—Sherborn, C. D.
- , Wight, Isle of.—Leriche, M., 3.
- , zone of the.—Bosworth, T. O.
- Chalk-marl, German New Guinea Tertiary.—Haupt, O.
- , Hainault.—Cornet, J.
- Chalmersite*.—Hussak, E., 3.
- Chalybite.—Manasse, E., 2.
- Chama*.—Pethæ, J.
- Chambéry (Savoy).—Badoureau, —; Hollande, D.; Vivien, J., 1 & 3.
- Chañarcillo (Chile).—Echegarai, N.
- Channel-Tunnel.—Dollfus, G. F.
- Chanoïdes*.—Eastman, C. E.
- Chapel-Bethesda (Caermarthen).—Cantrill, T. C., 2.
- Characeæ, Carboniferous.—Karpinski, A., 2.
- Charleroi (Hainault).—Lohest, M., 2.
- Charlotte Waters (N. Terr., S. Austral.).—Brown, H. Y. L.
- Charlton Bay (Devon).—Richardson, L., 7.
- Charnwood Forest (Leicester).—Bennett, F. W., 3 & 4; Stracey, B.
- Chartreuse (Dauphiné).—Révil, J., 6.
- Chartreuse de St. Hugon (Savoy).—Davin, L.
- Chat, Mont du (Savoy).—Poitevin, —; Révil, J., 4.
- Chaux-lez-Port Cave (Hte. Saône).—Drioton, C., 2.
- Cheadle Coalfield (Staffs).—Ward, J., 1 & 2.
- Cheirurus*.—Reed, F. R. C., 4; Törnquist, S. L.
- Chellaston (Derby).—Cole, G. A. J.
- Chelmsford (Essex).—Salter, A. E., 2.
- Chelonia, Cretaceous.—Bell, R., 2; Hay, O. P., 2 & 3; Lambe, L. M.; Riggs, E. S.; Stache, G.
- , limbs of fossil.—Osburn, R. C.
- , Tertiary.—Andrews, C. W.; Hay, O. P.
- Cheltenham (Gloucester).—Buckman, S. S.; Richardson, L., 4.
- Chemical classification of igneous rocks.—Warth, H.
- geology.—Clarke, F. W.
- Chemnitzia*.—Ascher, E.; Sedlitz, W. von.
- Cher (France).—Dollfus, G. F., 4.
- Chernoistochinsk (Urals).—Krasnopolski, A.
- Cherry Creek (Ariz.).—Reid, J. A.
- Cherso, I. of (Austria).—Waagen, L.
- Chert, Derbyshire, Flintshire, and Yorkshire.—Terry, H. L.
- Cheshire.—Pocock, T. I.
- Chhindwára District (India).—Datta, P. N.; Fermor, L. L., 1 & 3.
- Chiana Valley (Umbria).—Ugolini, R.
- Chiapas (Mex.).—Bæse, E.; Halse, E.; Sapper, K., 3.
- Chiavriè (Piedmont).—Zambonini, F., 5.
- Chihuahua (Mexico).—Hovey, E. O., 4; Warwick, A. W.
- Chile (S. Am.).—Bigourdan, G.; Cortes, A. O.; Echegarai, N.; Engelhardt, H.; Herrmann, A.; Muro, J.; Obrecht, A.; Schneider, J.; Stutzer, O., 5; Ward, H. A., 3.
- China.—Kingsmill, T. W.; Lorenz, T., 1 & 2; Ramakers, L.; Schmeisser, C.; Walcott, C. D., 3 & 4.
- China-clay, Queensland.—Blake, G. S., 3.
- Chione*.—Pritchard, G. B., 5.
- Chitaldrug (Mysore).—Wetherell, E. W., 2.
- Chloritoid.—Manasse, E., 2.
- Chloromanganokalite.—Johnston-Lavis, H. J., 2; Lacroix, A., 5.
- Chondrite, Minas Geraes.—Hussak, E.
- Chondro-arsenite.—Sjögren, H., 7.
- Chondroparia*.—Lorenz, T., 2.
- Chonetes*.—Breger, C. L.; Clarke, J. M., 5; Vinassa de Regny, P., 6.
- Christmas I. (Indian Ocean).—Chapman, F., 6.
- Chromite, India.—Holland, T. H., 2.
- Chrysocolla.—Manasse, E., 2.
- Chrysolite.—Evans, J. W., 3.
- Chumies Poort (Transvaal).—Sawyer, A. R., 2.
- Cimino, Mte. (Italy).—Sabatini, V.
- Cimoliosaurus*.—Williston, S. W., 2.
- Cinnabar.—Zimányi, K., 2.
- Cinnamomum*.—Perkins, G. H.
- Cinulia*.—Harbort, E.
- Cirripedia, Cretaceous.—Woodward, H., 6.
- Citlaltépetl (Mex.).—Angermann, E., 2.
- Cladochonus*.—Maillicux, E.
- Cladocora*.—Angelis d'Ossat, G. de.
- Cladopora*.—Clarke, J. M., 5.
- Cladosictis*.—Sinclair, W. J.
- Clansayes (Drôme).—Jacob, C.
- Clare, Co. (Ireland).—Scharff, R. F., 1 & 3; Ussher, R. J.
- Clarendon phosphate, Dunedin (N.Z.).—Andrew, A. R., 1 & 2.
- Clathropteris*.—Nathorst, A. G., 4.

- Clay, landslips &.—Van de Wiele, C., 2.
- Clay-pit, Skitt's Hill.—Reader, F. W.
- Clay-with-Flints.—Jukes-Browne, A. J.
- Clays, bibliography of.—Brauner, J. C., 4.
- , Brandenburg, &c.—Gagel, C., 2 & 5.
- , Bundelkhand.—Silberrad, C. A.
- , Catanian post - Pliocene.—Scalia, S., 2.
- , Ceylon.—Coomáraswámy, A. K.
- , Iowa.—Beyer, S. W.; Eckel, E. C.
- , I. of Man.—Reade, T. M., 4.
- , nature of.—Lucas, R.
- , Normandy.—Rutot, A., 7.
- , Paris Basin, false.—Fritel, P. H., 2.
- , precipitation of.—Reade, T. M., 3.
- , sieve for washing.—Range, P.
- , uses of.—Cushman, A. S.
- Clear Creek, Lr. (Colo.).—Underhill, J.
- Cleavage, Couvin schists.—Fourmarier, P., 2.
- Cleistopora*.—Vaughan, A.
- Cleveland Hills (Yorks).—Kendall, P. F.
- Cliff-erosion.—Fenneman, N. M.; Lemesnil, H.; *see also* Coast-erosion.
- Cliffwood Clays, New Jersey.—Berry, E. W., 2.
- Clifton (Ariz.).—Lindgren, W., 4.
- Climacograptus*.—Elles, G. L., 2; Foureaux, F.
- Climates, Alaskan ancient.—Lakes, A., 2.
- , changes of.—Sutcliffe, G.
- , geological.—Chamberlin, T. C., 2.
- , Quaternary.—Penck, A.
- Clinocllore.—Manasse, E., 2.
- Clinzoisite.—Westergård, A. H., 3.
- Clinton Co. (Iowa).—Udden, J. A., 2.
- Clinton Red-Ore, Alabama.—Bowron, W. M.
- Clionites & Clypites*.—Hyatt, A.
- Clisiophyllum*.—Matley, C. A.
- Cnoc-na-Sroine massif (Sutherland).—Shand, J.
- Coal, Alaska.—Brooks, A. H., 2; Griffith, W.; Lakes, A., 2.
- , Alberta.—Bell, R., 3.
- , analyses of.—Wright, A. M.
- , Asia Minor.—Schmeisser, C., 2.
- , Assiniboia.—Dowling, D. B., 2.
- , balls, Yaira Valley.—Chapman, F.
- , Yorkshire.—Douvillé, H.
- , Bavaria.—Stuchlik, H.
- , Belgium.—Lohest, M., 4; Simoens, G., 4.
- , Bhután.—Pilgrim, G. E., 4.
- , British Columbia.—*See* British Columbia, Dep. Mines.
- , chemistry of.—Raspillaire, E.
- , Chile.—Schneider, J.
- , China.—Schmeisser, C.
- , classification of.—Blake, G. S., 2; Campbell, M. R., 3.
- Coal, Dalmatian Triassic.—Schubert, R. J., 5.
- , formation of.—Barrois, C.; Campbell, M. R.; Lane, A. C.; Plotts, W.; Smith, W. D.; Renier, A.; Stainier, X.
- , gases enclosed in.—Bedson, P. P.
- , Germany.—Bruhns, W.
- , India.—Dunstan, W. R., 3; Holland, T. H., 2; La Touche, T. D., 3; Simpson, R. R., 2; *see also* INDIA, Dep. Mines.
- , Indian Territory.—Crane, W. R.
- , Iowa.—Beyer, S. W.
- , Ireland.—Brenan, G.
- , Jammu State.—Wright, C. M. P.
- , Kansas.—Beede, J. W.
- , Kent.—Burr, M.; Dawkins, W. B.
- , Lorraine.—Bergeron, J.
- , Maryland.—Clark, W. B.
- , Natal.—Gray, C. J., 1 & 2.
- , Newfoundland.—Howley, J. P.
- , New South Wales.—Hall, W. H.; *see also* NEW SOUTH WALES, Dep. Mines.
- , Nova Scotia.—Bell, R., 2; Gilpin, E. (*fil.*).
- , Peru.—Dueñas, E. I.; Santolalla, F. M., 2.
- , Philippine Is.—Wigmore, H. L.
- , Picardy.—Hernary, J., 1 & 2.
- , resources, British.—Rowley, W.
- , Savoy.—Badoureau, —.
- , Siberia.—Thiess, F.
- , Tasmania.—*See* Tasmania, Dep. Mines, 1-5.
- , Transvaal.—Mellor, E. T., 2-4.
- , Utah.—Lakes, A., 5.
- , Vescagne Triassic.—Jeancard, P.
- , 'wash-outs,' Durham, Transvaal, &c.—*See* 'Wash-outs.'
- , West Virginia.—Payne, H. M.
- , *See also* UNITED STATES, Min. Resources.
- Coalfields, Alabama.—Smith, E. A., 2.
- , Belgium.—Fourmarier, P.; O'Connor, W.; Renier, A.
- , Canonbie.—Peach, B. N., 6.
- , Cape Colony.—Blake, G. S.
- , Cheadle.—Ward, J., 1 & 2.
- , Cheshire.—Pocock, T. I.
- , China.—Ramakers, L.
- , Deer Creek (Ariz.).—Campbell, M. R., 2.
- , Derbyshire.—Johns, C., 3.
- , Durham.—Wood, G. C.
- , Kentucky.—Ashley, G. H.
- , Lancashire.—Dickinson, J., 2.
- , Lorraine.—Anon., 24; Cavalier, C.
- , Musselburgh.—Martin, Rob.
- , Nord.—Carpentier, A., 3.
- , Northumberland.—Lebour, G. A. L., 3; Wood, G. C.
- , Nottinghamshire.—Johns, C., 3.
- , Pas-de-Calais.—Barrois, C.; Kuess, —.

- Coalfields, Rhenish - Westphalian. — Krisch, P.
 —, Rocky Mts.—Rilter, E. A.
 —, Saarbrück extension into French Lorraine.—Laur, F.
 —, Saxony.—Hartung, H.
 —, Scotland.—Bailey, E. B., 2; *see also* Musselburgh, &c.
 —, Shan States.—La Touche, T. D., 4; Simpson, R. R.
 —, Staffordshire.—Cockin, G. M.; Gibson, W.
 —, Tarn.—Laromiguière, J.
 —, Transvaal.—Kynaston, H., 1 & 3; Mellor, E. T., 4.
 —, Virginia.—Tiffany, J. E.
 —, Whitehaven.—Shanks, J.
 —, Yorkshire.—Johns, C., 3; Kendall, P. F., 3; Wood, G. C.
 Coal-Measures.—*See* Carboniferous.
 Coal-stuff, Tanfield Lea.—Smythe, J. A., 2.
 Coal-supplies, Great Britain.—Greenwell, A.
 Coast-erosion. — Fenneman, N. M.; Haupt, L. M.; Issel, A.; Lemesnil, H.; Martin, E. A.; Mathews, E. R.; Reid, C., 3; Sheppard, T., 2.
 Coast-ledges, Cape Colony.—Schwarz, E. H. L., 6.
 Cobalt (Ont.).—Frank, F. J.
 Cobalt-ores, Alsace.—Ungemach, —.
 —, Chile.—Stutzer, O., 5.
 —, chloride of.—Muegge, O., 3.
 —, Germany.—Bruhns, W.; Miller, W. G., 3.
 —, Ontario.—Campbell, W., 3; Lury, J. S. de; Miller, W. G., 2 & 3.
 Cobaltiferous mispickel, Norway. — Fletcher, M.
 Cobaltite, Ontario.—Lury, J. S. de.
 Coblenz (Aargau).—*See* Koblenz.
 Cocoliths, tests of.—Stromer, E.
Coccothraustes.—Ussher, R. J.
 Cochinchina (Asia).—Petiton, A.
 Cockeysville (Ind.).—Mathews, E. B., 2.
 Codai Canal (Madras).—Berwerth, F., 2.
 Celestine.—*See* Celestite.
Cæloceras.—Fucini, A., 4.
Cælodus.—Simionescu, I.
Cælogaster.—Eastman, C. E.
Cælophysis.—Huene, F. von, 3.
Cæloria.—Angelis d'Ossat, G. de.
Cælosuchus.—Williston, S. W., 3.
Cænites.—Hennig, A.
 Cold-water-belt, N. American Pacific coast.—Holway, R. S.
 Coleoptera.—Zang, R., 1 & 2.
 Collahuasi (Chile).—Muro, J.
 Collyweston (Northants).—Anon., 34; Thompson, B., 3.
 Colombia (S. Am.).—Anon., 26; Stuebel, A.
 Colorado (U.S.A.).—Ball, S. H.; Cross, W., 1 & 2; Darton, N. H., 2; Davis, W. M., 1 & 2; Fenneman, N. M., 2; Gunther, C. G.; Headen, W. P.; Lakes, A.; Ohly, J.; Purington, C. W., 2; Schuchert, C., 2; Schwarz, T. E.; Stanton, T. W.; Underhill, J.
 Colorado Cañon (Ariz.).—Ward, L. F.
 Cols, Valais.—Sarasin, C., 2.
 Columbia, District of (U.S.A.).—Ward, L. F.
Columbites.—Hyatt, A.
 Colville, Cape (N.Z.).—Sollas, W. J., 3.
 Comanche Series, United States.—Stanton, T. W.
 Comeragh Mts. (Ireland).—Reed, F. R. C.
 Commentry (Allier).—Thévenin, A.
 Como, Lake of (Lombardy).—Reposi, E.
Compsemys.—Hay, O. P., 2.
Conchidium.—Whiteaves, J. F.
Conchorhynchus.—Till, A.
 Concretions, calcite-, barite-, & limonite-sand.—Nichols, H. W.
 —, glauconitic marine.—Collet, L. W.
 —, Göttingen Triassic.—Kænen, A. von, 2.
 —, metalliferous veins with.—Halse, E., 2.
 —, New Jersey iron-sand.—Willcox, O. W.
 —, origin of.—Blake, W. P., 2.
 —, phosphatic.—Collet, L. W.; Leder, J.
 —, Yarra Valley.—Chapman, F.
 —. *See also* Coal-balls, &c.
 Condove (Piedmont).—Zambonini, F., 5.
 Condò (Sicily).—Cocco, L.
 Condroz massif (Namur).—Simoens, G., 7.
 Cones, Sphenophyllaceous.—Scott, D. H., 2.
Conetes.—Vaughan, A.
Congeria & *Congeria*-beds, Crimea.—Seninski, K., 1 & 2.
 —, Panama.—Jukovski, E.
 —, Vienna Basin.—Toula, F., 3.
 —. *See also* Tertiary.
 Congleton (Cheshire).—Pocock, T. I.
 Conglomerates, Alpes - Maritimes. — Guébbard, A., 5.
 —, Deer Creek, fractured boulders in.—Campbell, M. R., 2.
 —, Devon.—Hunt, A. R., 2.
 —, Finland Archæan.—Deecke, W., 3.
 —, Greece, Tertiary.—Négris, R., 5.
 —, Liège Devonian.—Dewalque, G. J. G., 3.
 —, metalliferous veins with.—Halse, E., 2.
 —, Schleswig-Holstein gravel &.—Gagel, C.
 —. *See also* Auriferous, Banket, Volcanic, &c.
 Congo Basin (Africa).—Foureau, F.; Buttgenbach, H.; Knox, A.
 Congo Free State (Africa).—Buttgenbach, H., 1, 4, & 5; Cornet, J., 4.
 Congress.—*See* Geological Congress.
 Connecticut Cortlandtite.—Hobbs, W. H., 3.

- Conocardium*.—Scupin, H.; Vinassa de Regny, P., 6.
- Conocephalina* & *Conocephalites*.—Lorenz, T., 2.
- Conocoryphe*.—Miquel, J.
- Constance, Lake.—Blaas, J.; Paulcke, W.; Schalch, F.
- Constantine (Algeria).—Termier, P., 4.
- Contact - metamorphism, Bohemia. — Gränzer, J.
- , Mull, I. of.—Smythe, J. A.
- , ore-deposits &.—Waller, G. A.
- , Rhenish Bavaria. — Burckhardt, K.; Duell, E.; Reis, O. M., 3.
- , Silesia.—Rosiwal, A.
- , See also Ore-deposits, Metamorphism, &c.
- Continental deposits.—Barrell, J.
- Continents of Africa & S. America, former connexion.—Schwarz, E. H. L., 5.
- Contumaza, Prov. of (Peru).—Santolalla, F. M., 3.
- Conularia*, Ordovician.—Želízko, J. V.
- Conus*.—Dautzenberg, P.; Oppenheim, P.
- Conveastră*.—Angelis d'Ossat, G. de; Koby, F.
- Cook Inlet (Alaska).—Stanton, T. W., 2.
- Coon Butte (Ariz.).—Barrington, D. M.; Farrington, O. C.; Fletcher, L.; Tilghman, B. C.
- Coon Mountain (Ariz.).—See Coon Butte.
- Copiapite.—Böckh, H., 3; Weinschenk, E., 2.
- Copper, Alaska.—Grant, U. S.; Mendenhall, W. C.
- , Alsace.—Ungemach, —.
- , Argentina.—Bodenbender, G.
- , Arizona.—Lindgren, W., 4; Reid, J. A.
- , Asia Minor.—Freise, F.
- , Bolivia.—Steinmann, G., 3.
- , Celebes (D.E.I.).—Koperberg, M.
- , Chile.—Herrmann, A.; Muro, J.; San Roman, F. J.
- , German Empire. — Bruhns, W.; see also Harz, Nassau, &c.
- , Harz Mts.—Hornung, F.
- , Huelva.—Wetzig, B.
- , Mexico.—Kemp, J. F., 5; Warwick, A. W.
- , Missouri.—Bain, H. F., 3.
- , Namaqualand.—Ronaldson, J. H.
- , Nassau.—Einecke, G.
- , Nevada.—Knopf, A.; Lawson, A. C.
- , New Jersey.—Kuemmel, H. B., 2.
- , New South Wales.—Hall, W. H.; see also NEW SOUTH WALES, Dep. Mines.
- , Ontario.—Barlow, A. E., 1 & 2; Browne, D. H.
- , Peru.—Dueñas, E. I.; Fuchs, F. G.
- , precipitation by natural silicates. — Sullivan, E. C.
- , Predazzo eruptives with native.—Block, J.
- Copper, Quebec. — Bell, R., 3 & 4; Dresser, J. A., 2.
- , Rhodesia.—Brackenbury, C.
- , Salzburg Alps.—Bleek, W. G.
- , São Paulo.—Hussak, E., 4.
- , Shan States (Northern).—Fermor, L. L., 5.
- , South Australia.—Hancock, L. G.
- , Transylvania.—Papp, K. von.
- , Utah.—Boutwell, J. M.
- , Virginia.—Weed, W. H.; see also UNITED STATES, Min. Resources.
- , See also Ores, secondary enrichment of.
- Copper River (Alaska).—Mendenhall, W. C.
- Coral-islands (Indian Ocean).—Gardiner, J. S.
- (Pacific Ocean).—Mawson, D., 1 & 2.
- Coral-reefs, origin of.—Mawson, D., 1 & 2; Suess, E., 2; Voeltzkov, A.
- Corallian, Buckinghamshire.—Davies, A. M.
- Corals, Cambrian.—Lorenz, T., 2.
- , Carboniferous.—Carruthers, R. G.; Duerden, J. E.; Frech, F., 7; Hind, W.; Matley, C. A.; Stuckenberg, A.; Ulrich, E. O., 2; Vaughan, A.
- , classification of the Fungidae.—Vaughan, T. W.
- , Cretaceous.—Angelis d'Ossat, G. de; Felix, J.; Krumbeck, L.
- , Devonian.—Duerden, J. E.; Gordon, C. E.; Maillieux, E.; Schwarz, E. H. L., 8.
- , Jurassic.—Cragin, F. W.; Dehinger, K.; Koby, F.
- , mineral replacement on fossilization.—Hartzell, J. C.
- , Silurian. — Carruthers, R. G.; Clarke, J. M., 7; Gordon, C. E.; Shearsby, A. J.; Whiteaves, J. F.
- , Tertiary.—Gregory, J. W., 3; Oppenheim, P., 3; Vaughan, T. W., 1 & 2.
- Corbières (Languedoc).—Grossouvre, A. de; Toucas, A.
- Corbis*.—Krumbeck, L.; Seidlitz, W. von.
- Corbula*.—Cragin, F. W.; Icke, H.; Jukovski, E., 2; Oppenheim, P.
- Cordania*.—Clarke, J. M., 5.
- Cordierite, Lake District.—Harker, A., 2.
- Cordillerites*.—Hyatt, A.
- Cordova, Sierra de (Argentina).—Bodenbender, G.
- Corea.—Yabe, H.
- Cork, Co. (Ireland).—Scharff, R. F.; Ussher, R. J., 2.
- Cornfield (Mo.).—Siebenthal, C. E.
- Cornwall.—Arber, E. A. N., 3; Collins, J. H.; Elsdon, J. V.; Fox, H.; Green, U.; Hill, J. B.; Pearce, R.; Whitley, D. G.; Williams, R. H.
- Cornwall (Pa.).—Travis, C.
- Corocoro (Bolivia).—Steinmann, G., 3.

- Coroniceras*.—Buckman, S. S., 3.
 Corries (Co. Waterford).—Reed, F. R. C.
 Corsica.—Deprat, J., 2-4; Rovereto, G.
 Corsiehill (Perth).—Bates, G. F.
 Corsuet (Savoy).—Poitevin, —, 3.
 Cortlandt Series, Connecticut.—Hobbs,
 W. H., 3.
 Cortlandtite, New England.—Bastin, E.
 S.; Hobbs, W. H., 3.
 Corundum, occurrence of.—Crook, T.
 —, Ontario.—Kerr, D. G.
 —, United States.—Pratt, J. H.
 —. *See also* Sapphire.
Corynexochus.—Miquel, J.
 Cosenza (Calabria).—Prever, P. L.
 Cosina-Beds, Herzegovina.—Katzner, F.,
 5.
Cosmonautilus.—Hyatt, A.
 Costa Rica (C. Am.).—Sapper, K.
 Côte-d'Or (France).—Drioton, C.; Peti-
 ton, A.
 Cotentin (Normandy).—Cossmann, M., 3.
 Cottbus (Brandenburg).—Schroeder, H.,
 4.
 Cottés, Grotte des (Poitou).—Breuil, H.
 Cotteswold Hills.—Buckman, S. S., 2.
 Cottian Alps.—*See* Alps.
Couradella.—Reed, F. R. C., 3.
 Courmes (Alpes-Maritimes).—Coss-
 mann, M.
 Couvin (Namur).—Fourmarier, P., 2;
 Maillieux, E.
 Crabs, Tertiary.—Manek, F.
 Crag, East Anglia.—Harmer, F. W., 2;
 Ridley, E. P.
 —, Iceland.—Pjetursson, H.
 Cranfield (Co. Down).—Welch, R.
Crania.—Krumbeck, L.
Crassatella.—Krumbeck, L.; Pethæ, J.
Crassatellites.—Woods, H.; Wright,
 A. M., 2.
 Crater Mt. (Ariz.).—*See* Coon Butte.
 Creation, law of.—Silva, E.
 Creodontia, Mesozoic.—Tomes, C. S.
 Cretaceous, Alpes-Maritimes.—Hitzel,
 E.; Maury, E.
 —, Albania.—Nopcsa, F., Baron (*fl.*),
 3.
 —, Algeria.—Blayac, J.; Ficheur, E.,
 2.
 —, Antarctica.—Kilian, W., 5.
 —, Archadinsk District.—Pavlov, A.
 V., 2.
 —, Berkshire.—White, H. J. O., 1 &
 3.
 —, Bohemia.—Jahn, J. J., 2.
 —, Borneo.—Icke, H.
 —, Catalonia.—Angelis d'Ossat, G. de.
 —, Crimea.—Borisov, A.
 —, Dalmatia.—Katzner, F., 6; Schu-
 bert, R. J., 3.
 —, Dauphiné.—Jacob, C.
 —, Donetz Basin.—Borisov, A., 2.
 —, Egypt.—Gregory, J. W., 4.
 —, Galicia.—Felix, J.
 —, Germany (N.).—Deecke, W.; Har-
 bort, E., 2; Richter, P. B.; Stille, H., 3;
 Wollemann, A., 2 & 3.
 Cretaceous, Glatz.—Flegel, R.
 —, Greece.—Négris, P., 3 & 5; Renz,
 C., 5.
 —, Haine Valley.—Cornet, J., 5.
 —, Herzegovina.—Katzner, F., 5.
 —, Hungary.—Pethæ, J.
 —, Italy (S.).—Parona, C. F.
 —, Languedoc & Provence.—Gross-
 ouvre, A. de; Toucas, A.
 —, Madagascar.—Colcanap, —, 2;
 Thévenin, A., 2-4.
 —, Moravia.—Wilschowitz, H.
 —, Morocco.—Brives, A.; Kilian, W.,
 7.
 —, New Caledonia.—Kilian, W., 9.
 —, New Jersey.—Berry, E. W., 2.
 —, New Mexico.—Keyes, C. R., 3.
 —, Nigeria.—Parkinson, J., 7.
 —, Norfolk.—Bonney, T. G.; Brydone,
 R. M.; Hudleston, W. H.
 —, Oxfordshire.—Dawkins, C. G. E.
 —, Persia.—Morgan, J. de.
 —, Poland.—Siemiradzki, J. von, 3.
 —, Provence.—Kilian, W., 2; Replin,
 J.
 —, Prussia (W.).—Jentzsch, A., 5.
 —, Pyrenees.—Carez, L.; Pâquier, V.
 —, Rumania.—Macovei, G.; Simio-
 nescü, J.
 —, Sahara.—Foureau, F.
 —, Schaumburg-Lippe.—Harbort, E.
 —, Senegambia.—Peron, A.
 —, South Australia (N. Terr.).—
 Brown, H. Y. L.
 —, Surrey.—Herries, R. S., 2.
 —, Swiss Jura.—Baumberger, E.
 —, Tripoli.—Krumbeck, L.; Parona,
 C. F., 2.
 —, Tyrol.—Ascher, E.
 —, Volhynia.—Laskarev, V.
 —, Westphalia.—Stille, H., 1-3; Weg-
 ner, T.
 —, Wight, Isle of.—Leriche, M., 3.
 —. *See also* Chalk, Neocomian,
 Plants, &c.
 Crete.—Bullen, R. A.; Cayeux, L.;
 Freise, F.
 Crewe (Cheshire).—Pocock, T. I.
Cribrilina.—Brydone, R. M.
 Crimea (Russia).—Andrussov, N.; Bo-
 risov, A.; Palibin, J. V., 2; Seninski,
 K.
 Crinoidea, Carboniferous.—Foureau, F.;
 Matley, C. A.; Schuchert, C., 3; Ulrich,
 E. O., 2.
 —, Cretaceous.—Pellat, E.
 —, Devonian.—Bather, F. A., 3;
 Clarke, J. M., 5 & 6; Schmidt, W. E.;
 Springer, F., 2; Whitfield, R. P.
 —, Jurassic.—Gentil, L., 3.
 —, Silurian.—Springer, F.
Crioceras.—Sintzov, J.
Crisia.—Bullen, R. A.
 Croatia.—Gorjanović-Kramberger, K.
 Crocodiles, Cretaceous.—Williston, S.
 W., 3.
Crocodylus.—Andrews, C. W.; Thyng,
 F. W.

- Cromer (Norfolk).—Harmer, F. W.; Lorié, J., 2; Reid, C., 2.
- Cromerian, Belgium, &c.—Dubois, E.
- Cross Fell (Westmorland).—Marr, J. E., 3.
- Croydon (Queensl.).—Dunstan, B.
- Cruce Village (Rumania).—Nicolau, T., 2.
- Crustacea, Cambrian.—Whiteaves, J. F., 3.
- , Carboniferous.—Baldwin, W., 2; Peach, B. N.
- , Cretaceous.—Borisyak, A.; Harbort, E., 1 & 2; Woodward, H., 6.
- , Jurassic.—Jackson, R. T.
- , Silurian.—Seemann, F.
- , Tertiary.—Bohm, J., 1 & 2.
- , *See also* Ostracoda, Trilobites, &c.
- Cryptocœnia*.—Koby, F.
- Cryptonella*.—Clarke, J. M., 5; Newton, E. T.
- Crystalline breccia, Savoy.—Renevier, E.
- limestone, Ceylon. — Coomáraswámy, A. K., 2.
- , pebbles, Sylt I.—Petersen, J.
- rocks, Grisons.—Hœck, H.; Zœppritz, K.
- , metallic ores in.—Trener, G. B.
- , Nigeria.—Parkinson, J., 5 & 7.
- , St. Gariel Mts.—Arnold, R., 2.
- schists, relation of igneous rocks to.—Mennell, F. P., 5.
- , structure of.—Becke, F.; Grubenmann, U., 2; Weinschenk, E.
- , *See also* Schists.
- Crystallization in magmas.—Vogt, J. H. L.
- , schistosity &.—Wright, F. E., 2.
- Crystallographic projections.—Evans, J. W., 4; Fedorov, E. von; Penfield, S. L.
- Crystallography.—Duparc, L., 3; *see also* INTERNAT. CAT. SCI. LIT., Min.
- Crystals, composite-metal slag.—Mœnkemeyer, H.
- , deformation of, by pressure.—Lœwinson-Lessing, F.
- , etched figures &. — Muegge, O., 2.
- , gold.—Samóilov, I., 2.
- , interference-figures &. — Joachim, H.
- , measuring microscopic. — Hamberg, A., 5.
- , optic axial angle of biaxial.—Evans, J. W., 1 & 5.
- , optical refraction of.—Pearce, F.
- , refractive indices of.—Wright, F. E.
- , symmetry of.—Sommerfeldt, E., 1 & 2.
- , twinning of.—Weyberg, Z.
- Csallókoz I. (Hungary).—Tinkó, E.
- Csermosnya Valley (Hungary).—Acker, V.; Gesell, A., 2.
- Csóra (Hungary).—Halaváts, J.
- Ctenodonta*.—Scupin, H.
- Cucullæa*.—Cragin, F. W.; Borisyak, A., 3; Newton, R. B.; Pethœ, J.
- Cudowa-Reinerz Ry. (Glatz).—Flegel, K.
- Cuesmes (Hainault).—Cornet, J., 2.
- Cullinan diamond.—Molengraaff, G. A. F., 3.
- Culm, Carnic Alps.—Krause, G.; Vinassa de Regny, P., 5.
- , Thuringia.—Lehder, J.
- Culverhole (Devon).—Richardson, L., 7.
- Cumberland.—Kidston, R., 2; Marr, J. E., 2; Postlethwaite, J.; Rastall, R. H., 1 & 2; Shanks, J.
- Cumberland Gap (Ky.).—Ashley, G. H.
- CUNNINGTON, W., *Obit.*—*See* Anon., 4.
- Curienne (Savoy). — Hollande, D., 2; Vivien, J., 4.
- Curticia*.—Walcott, C. D., 2.
- Cuspidaria*.—Cossmann, M., 2.
- Cusworth (Yorks).—Culpin, H.
- Cuyuni R. (British Guiana).—Harrison, J. B., 1-4.
- Cyathaxonia* & *Cyathaxonia*-beds, Rush.—Matley, C. A.
- Cyathocrinus*.—Whitfield, R. P.
- Cyathophyllum*.—Carruthers, R. G.; Frech, F., 7; Vaughan, A.
- Cybele*.—Reed, F. R. C., 4.
- Cycadeoidea*.—Ward, L. F.; Wieland, G. R.
- Cycads, recent & fossil.—Seward, A. C.
- Cycloclypeus*.—Schubert, R. J.
- Cyclopytis*.—Krasser, F., 2.
- Cyclopteris*.—Vinassa de Regny, P., 6.
- Cyclopyge*.—Reed, F. R. C.
- Cylindrites*.—Seidlitz, W. von.
- Cyphosoma*.—Gregory, J. W., 4.
- Cypræa*.—Cossmann, M., 3; Krumbeck, L.; Oppenheim, P.
- Cypricardella* & *Cypricardinia*. — Scupin, H.
- Cypridea*.—Chapman, F., 2.
- Cypridina*.—Jones, T. R.; Neviani, A., 2; Ulrich, E. O.
- Cyprimeria*.—Pethœ, J.
- Cyprina*.—Cragin, F. W.; Pethœ, J.
- Cypris Hills (Assiniboia).—Lambe, L. M., 2 & 3.
- Cyprus.—Bate, D. M. A.; Dunstan, W. R., 4; Freise, F.
- Cyrena*.—Ascher, E.
- Cyrtina*.—Clarke, J. M., 5.
- Cyrtoceras*.—Whiteaves, J. F., 1 & 3.
- & *Cyrtorhizoceras*.—Clarke, J. M., 7.
- Cyrtodelphis*.—Piaz, G. dal.
- Cystoidea, Cambrian.—Pack, F. J.
- Cythere*.—Cappelli, G. B.; Neviani, A., 2; Ulrich, E. O.
- Cytherea*.—Pethœ, J.
- Cytherella*, *Cytheridea*, & *Cytheropteron*.—Cappelli, G. B.

- Cytherura & Cythrideis*.—Neviani, A., 2.
Czekanowskia.—Krasser, F., 2.
 Czella (Transylvania).—Kadić, O.
 Czelná (Transylvania).—Roth von Telegd, L.
- Dabas, Lower (Hungary).—Guell, W.
Dadoxylon.—Arber, E. A. N.
Daimonelix-beds, Nebraska.—Barbour, E. H.
 Dakota (U.S.A.).—Darton, N. H., 2; Mansfield, G. R.
 —, South (U.S.A.).—Matthew, W. D.
 — Formation, United States.—Keyes, C. R., 3; Stanton, T. W.
 Dalecarlia (Sweden).—Wiman, C., 2.
 Dalhousie Springs (N. Terr., S. Austral.).—Brown, H. Y. L.
 Dalles, St. Croix.—Upham, W.
Dalmanites.—Clarke, J. M., 5.
 Dalmatia.—Dainelli, G.; Katzer, F., 6; Kerner, F. von, 1-4; Schubert, R. J., 3 & 5; Waagen, L.
 Dalradian Grit, Argyllshire.—Hill, J. B., 2.
Damesella.—Walcott, C. D., 3.
 Danbury (Essex).—Salter, A. E., 2.
 Dandli (Kashmir).—Wright, C. M. P.
 Danmemora (Svealand).—Sjögren, H., 6.
 Danube R.—Fraas, E., 2; Guell, W., 2.
 —, Little (Hungary).—Horusitzky, H., 2.
Danubites.—Hyatt, A.
Daonella.—Renz, C., 2.
 Darcey Valley (Côte-d'Or).—Contant, A.
 Dargilan (Lozère).—Carrière, G.
 Darial Mt. (Caucasus).—Læwinson-Lessing, F., 3.
 Datolite.—Kraus, E. H., 2; Tacconi, E.
 Dauphiné (France).—Badoureaux, —; Decombaz, O., 2; Gonnard, F., 3; Haug, E.; Jacob, C., 1 & 2; Kilian, W.; Lamothe, R. de, 2; Lévy, Aug. M.; Lory, P.; Révil, J., 6; Termier, P.
Daviesiella.—Vaughan, A.
 Dawson (Durham).—Brown, M. W.
 Dawe's Heath (Essex).—Salter, A. E., 3.
 DE RANCE, C. E., *Obit.*—See Anon., 5.
 Dearne Valley (Yorks).—Carter, W. L., 2.
Decastis.—Sinclair, W. J.
 Deccan Trap, Nagpur.—Datta, P. N.
 Deep-sea deposits.—Flint, J. M.; Thoulet, J.
 Deer Creek (Ariz.).—Campbell, M. R., 2.
 DEFRA NCE Collection, Caen.—Bigot, A., 2.
Deiphon.—Reed, F. R. C., 4.
 Delavan (Mich.).—Alden, W. C.
Delphinula.—Cragin, F. W.
 Delta, Mississippi R.—MacBeth, W. A., 2.
Deltopecten.—Etheridge, R. (*fil.*).
 Denbigh (N. Wales).—Anon., 37.
Dendrograptus.—Ruedemann, R.
- Denmark.—Gagel, C., 8; Hill, E.; Ravn, J. P. J.
 Denny Hill (Gloucester).—Paris, E. T.
 Dent-Blanche massif (Savoy).—Argand, E.
Dentalina.—Bullen, R. A.
Dentalium.—Cossmann, M., 3; Oppenheim, P.; Richardson, L.
 Dentaliidae, Liassic.—Richardson, L.
 Denudation, subaërial.—Andersson, J. G., 2.
 —, Yorkshire.—Macturk, G. W. B.
 —. See also Coast-erosion, Solifluction, Weathering, &c.
Derbya.—Vaughan, A.
Derbyia.—Vinassa de Regny, P., 6.
 Derbyshire.—Arnold-Bemrose, H. H.; Barnes, J.; Cole, G. A. J.; Hind, W., 4; Johns, C., 3; Terry, H. L.
Dermoseris.—Koby, F.
 Dernö (Hungary).—Gesell, A., 2.
 Derwentwater (Lake District).—Marr, J. E., 2.
 Desert-deposits.—Barrell, J.
 — Plateau (Savoy).—Douxami, H., 10.
 —, Sahara.—Foureaux, F.
 Deserts, weathering in.—Hilgard, E. W.
Desertella.—Foureaux, F.
Desmatophoca.—Condon, T.
Desmoceras.—Jacob, C.
 Deux-Sèvres (France).—Welsch, J., 1-4.
 Déva (Transylvania).—Halaváts, J.; Nopcsa, F., Baron (*fil.*).
 Devero Valley (Piedmont).—Stefani, C. de, 2.
 Devil's Kantoor (Transvaal).—Hall, A. L., 2.
 Devon.—Arber, E. A., 3; Fletcher, J. H.; Hobson, B.; Hunt, A. R., 2; Jukes-Browne, A. J., 5; Lomas, J.; Richardson, L., 7; Salter, Mary, 1 & 2; Ussher, W. A. E.; Woodward, H. B., 3 & 4; Young, T.
 Devonian, Ardennes.—Cayeux, L., 3.
 —, Brazil.—Clarke, J. M., 4.
 —, Condros massif.—Simoens, G., 7.
 —, Cape Colony.—Schwarz, E. H. L.
 —, Carnic Alps.—Scupin, H.; Vinassa de Regny, P., 7.
 —, Cornwall.—Fox, H.
 —, Devon.—Jukes-Browne, A. J., 5.
 —, Falkland Is.—Newton, E. T.
 —, Harz.—Bode, G., 2.
 —, Hesse.—Einecke, G.
 —, Liège.—Dewalque, G. J. G., 3; Fourmarier, P., 3.
 —, Luxemburg.—Dorlodot, H. de, 2.
 —, New York.—Clarke, J. M., 5 & 6; Slocum, A. W.; Williams, H. S., 2.
 —, Nord.—Landrière, J., 2.
 — pebble-bed, Belgian Luxemburg.—Duvigneaud, —.
 —, Pennsylvania.—Butts, C.; Kindle, E. M., 2.
 —, Podolia.—Siemiradzki, J. von, 1 & 2.

- Devonian, Rhenish Prussia.—Dorlodot, H. de, 3.
 —, Sahara.—Foureaux, F.; Haug, É., 2.
 — schists, Couvin.—Fourmarier, P., 2.
 —, Tyrol.—Ohnesorge, T. 2.
 —, Westphalia.—Schmidt, W. E.
 DEWALQUE, G. J. G., *Obit.*—See Aichino, G.; Woodward, H., 3.
 Dharwar District (S. India).—Maclaren, J. M., 3.
 Diabase, Ambon.—Verbeek, R. D. M.
 —, Apuan Alps.—Aloisi, P.
 —, Bohemia.—Grænzer, J.
 —, Caermarthenshire.—Cantrill, T. C., 2.
 —, Dalmatia.—Kerner, F. von.
 —, Finland.—Ramsay, W., 4; Wahl, W.
 —, Gullane Hill.—Young, B. R.
 —, Harz.—Bode, G., 2; Koch, M.
 —, Jeschken Mts.—Grænzer, J.
 —, Macquarrie I.—Marshall, P., 2.
 —, Massachusetts.—Emerson, B. K.
 —, Nassau.—Brauns, R.
 —, São Paulo.—Hussak, E., 2 & 4.
 —, Tasmania.—Stephens, T.
 Diablo Cañon (Ariz.).—Barringer, D. M.; Mallet, J.
 Diamantina (Minas Geraes).—Derby, O. A., 2; Hussak, E.
 Diamond-bearing sand, minerals, Brazil.
 —Hussak, E., 1 & 5.
 — pipes & fissures, S. Africa.—Harger, H. S.
 Diamonds, Brazil.—Derby, O. A.; Hussak, E., 7.
 —, India.—Holland, T. H., 2; La Touche, T. D., 3; Vredenburg, E., 3.
 —, New South Wales.—See NEW SOUTH WALES, Dep. Mines.
 —, Ontario.—Anon., 25.
 —, Rhodesia.—Flett, J. S.; Gregory, J. W., 6; Mennell, F. P., 3.
 —, Transvaal.—Molengraaff, G. A. F., 3.
Diaphorostoma.—Clarke, J. M., 5.
Diatinostoma.—Cossmann, M.
Dibumophyllum.—Vaughan, A.
Dibumophyllum-zone, Rush.—Matley, C. A.
Diceratops.—Gilmore, C. W., 2.
Dicksonia.—Krasser, F., 2.
Dicranodonta.—Borisjak, A., 3.
Dictyoconus.—Schlumberger, C., 2.
Dictyonema.—Ruedemann, R.
Dictyophyllum.—Nathorst, A., 5.
Dicynodon.—Jækel, O., 2.
Didacna.—Seninski, K., 2.
Didymograptus.—Ruedemann, R.
Didymophyllum.—Schwarz, E. H. L., 8.
Dieceoneurites.—Handlirsch, A., 3.
 Diego-Suarez (Madagascar).—Lemoine, P., 3.
 Diélette (Manche).—Cayeux, L., 5.
Dienia.—Hyatt, A.
 Digor Mt. (Caucasus).—Læwinson-Lessing, F., 3.
Dihelice.—Schmidt, W. E.
Dimetrodon.—Jækel, O., 3.
Dimorphastræa.—Angelis d'Ossat, G. de.
Dimyodon.—Grænwall, K. A.
 Dinant (Namur).—Dorlodot, H. de, 3.
 Dinaric Alps.—Salomon, W.
Dinarites.—Hyatt, A.
Dindymene.—Reed, F. R. C., 4.
Dinichthys.—Hussakof, L., 1 & 2.
 Dinosauria, Cretaceous.—Dollo, L.; Lull, R. S.; Osborn, H. F.
 —, Jurassic.—Dollo, L.; Woodward, A. S.; Woodward, H., 5.
 —, Triassic.—Broom, R., 6; Huene, F. von, 1 & 3; Nopcsa, F. Baron (*fl.*), 2.
 Diopside, Finland.—Wahl, W.
 Diorite, Argentina.—Bodenbender, G.; Taunhäuser, F.
 —, Hesse.—Chelius, C.
 —, New Hampshire.—Pirsson, L. V., 2.
 —, New Zealand.—Marshall, P., 3.
 —, Piedmont.—Franchi, S.; Novaresse, V., 2.
 —, Transylvania.—Papp, K. von.
 —, Urals.—Læwinson-Lessing, F., 4.
Diotis.—Fucini, A.
Diphyphyllum.—Vaughan, A.
Diplodocus.—Holland, W. J.
Diplodonta.—Pritchard, G. B., 5.
 Diplograptidæ, Silurian.—Elles, G. L., 2.
Diplograptus.—Ruedemann, R.
Discocenia.—Koby, F.
Discohelix.—Oppenheim, P.
Discoidea.—Krumbeck, L.
Discorbina.—Bullen, R. A.
Discostrobus.—Krasser, F., 2.
Discotropites.—Hyatt, A.
 Dithmarsch district (Schleswig-Holstein).—Gagel, C., 7.
 Dobno (Volhynia).—Laskarev, V.
 Dobrudsha (Rumania).—Launay, L. de, 2; Macovei, G.; Simionescu, I.
 Dobsina (Hungary).—Frech, F., 7.
 DOKUCHAËV, V. V., *Obit.*—See Bogoslovski, N. A.
 Dolerite, Eigg (Sgurr of).—Harker, A., 3.
 —, Macquarrie I.—Marshall, P., 2.
 —, Mull (I. of).—Smythe, J. A.
 —, Perthshire.—Bates, G. F.
 —. See also Trachydolerite.
 Dolgadfan (Montgomery).—Wood, E. M. R.
 Dolichopodidæ, Tertiary.—Meunier, F.
 Dolomite, alterations of.—Cornu, F., 4.
 —, Calafuria Massiv.—Manasse, E.
 —, Carrara.—Achiardi, G.
 —, Engadin.—Schiller, W.; Zœppritsch, K.
 —, Greenland.—Belowski, M.
 —, Grisons.—Hæk, H.
 —, Hungary.—Emszt, K.
 —, Transvaal.—Hall, A. L., 5; Molengraaff, G. A. F.
 — water-supply, Orange R. Colony & Transvaal.—Wessels, J. W.

- Dominica, I. of (W.I.).—Hovey, E. O., 4.
- Don Cossacks, Prov. of the (Russia).—Pavlov, A. V., 2.
- Don Valley (Yorks).—Carter, W. L., 1 & 2.
- Doncaster (Yorks).—Davison, C., 7.
- Doneraile (Co. Cork).—Ussher, R. J., 2.
- Dorset.—Chapman, F., 2; Richardson, L., 7; Strahan, A.; Woodward, A. S., 8; Woodward, H. B., 3 & 5.
- Doryblatta*.—Handlirsch, A., 3.
- Dorypygella*.—Walcott, C. D., 3.
- Douai (Nord).—Gosselet, J., 1 & 2; Simoens, G.
- Douvilleceras*.—Jacob, C.
- Doux (Neuchâtel).—Schardt, H.
- Dover-Calais Tunnel.—Dollfus, G. F., 6.
- Down, Co. (Ireland).—Welch, R.
- Dragonnière R. (Ardèche).—Raymond, P.
- Drainage, New York.—Tarr, R. S., 2.
- Drauburg, Lr. (Tyrol).—Dreger, J.
- Dreissensia*.—Jukovski, E., 2; Seminski, K., 2.
- Dresden (Saxony).—Stappenbeck, R.
- Drift, British Isles.—Lamplugh, G. W., 3; *see also* Kent, Lincolnshire, &c.
- , Iowa.—Eckel, E. C.; Macbride, T. H.; Sauvage, T. E., 1 & 2; Udden, J. A., 1 & 2; Williams, I. A.
- , Kent.—Bennett, F. J., 5.
- , Lauenburg district.—Gagel, C., 9.
- , Lincolnshire.—Stather, J. W.
- , Michigan.—Russell, I. C., 3.
- , Möen.—Hill, E.
- , Schleswig-Holstein.—Gagel, C.; Stolley, E., 1 & 2.
- , Wisconsin.—Alden, W. C.
- , Yorkshire.—Hawkesworth, E.
- Drillia*.—Cossmann, M., 3.
- Drumlins, Michigan.—Russell, I. C., 3.
- , Wisconsin.—Alden, W. C., 2.
- , *See also* Moraines, &c.
- Drupa*.—Perkins, G. H.
- Druse-minerals, Saxon granitic porphyry.—Hess von Wichdorff, H.
- Dubb, Loch (Argyll).—Hill, J. B.
- Dublin, Co. (Ireland).—Matley, C. A.; Pethybridge, G. H.
- DUCHESNE-FOURNET Mission.—Arsandaux, H.
- Duddon Valley (Lake District).—Marr, J. E., 2.
- Dufton Shales.—Marr, J. E., 3.
- Dumbartonshire (Scotland).—Sjögren, H., 5.
- Dumfriesshire (Scotland).—Kidston, R., 2; Peach, B. N., 6.
- Dumortiera*.—Prinz, G., 4.
- Dunbar (Haddington).—Crampton, C. B.
- Dundas district (W. Austral.).—Campbell, W. D.
- Dundasite, N. Wales.—Prior, G. T.
- Dunedin (N.Z.).—Andrew, A. R., 1 & 2; Marshall, P., 1 & 3.
- Dunes, Belgium.—Andrimont, R. d', 1 & 2.
- Dunes, German (N.).—Lehmann, F. W. P.; Solger, F., 2.
- , Lancashire.—Cope, T. H.
- , Massachusetts.—Sears, J. H.
- , Peru.—Pompeckj, J. F., 2.
- , Sahara.—Foureaux, F.
- , Seistan.—McMahon, Sir H.
- Dunnail Raise (Lake District).—Marr, J. E., 2.
- Durlston Bay (Dorset).—Chapman, F., 2.
- Dust, volcanic.—Meunier, S., 3.
- Dust-fall, Pern Gov.—Abels, H. F.
- , North Atlantic, 1906.—Krebs, W.
- Dutch East Indies.—Boehm, G., 4; Reuz, C., 2; Verbeek, R. D. M.; *see also* Java, Molucca Is., &c.
- DWIGHT, W. B., *Obit.*—*See* Anon., 6.
- Dwyka Conglomerate, Cape Colony.—Sandberg, C. G. S.; Sjögren, H., 4.
- Dykes, Ardmuichish basalt.—Bailey, E. B., 1.
- , Purcell Mts.—Daly, R. A.
- Dynamosaurus*.—Osborn, H. F.
- Earth, axes of the.—Péroche, J.
- , cliffs, Godrevy.—Whitley, D. G.
- , crust of the.—Daly, R. A.; Fisher, O.; Jourdy, E., 2; Reiss, W.
- , dilational stability of the.—Rayleigh, Lord.
- , evolution of the.—Hutton, F. W.
- , interior of the.—Oldham, R. D.
- , magnetism.—Deecke, W., 5; Littlehales, G. W.
- , moon &.—Simoens, G., 3.
- , movements, Carboniferous.—Johns, C., 13.
- , sounds from.—Rzehák, A., 3.
- , orogenic scheme of the.—Sacco, F., 10.
- , origin of the.—Darwin, G. H.
- , radium & internal heat of the.—Eve, A. S., 2; Fisher, O., 2; Palmer, B. J.; Reade, T. M., 1 & 2; Strutt, R. J.
- , surface of the.—Arltdt, T.
- , underground temperature.—Koenigsberger, J., 4; Jaczewski, L.; Jenkins, H. C., 2; Marriott, H. F.; Strutt, R. J.
- Earth-pillars.—Guenther, S.; Hall, A. L., 2.
- Earthquakes, annual registration of.—Milne, J., &c., 5.
- , 1903.—Rudolph, E.
- , 1904.—Milne, J., 4.
- , Ambon.—Verbeek, R. D. M.
- , Asiatic, Eastern.—Rudolph, E., 2.
- , Australasia.—Baracchi, P.
- , Bavaria.—Reindl, J.
- , Belgium.—Munck, E. de; Simoens, G., 5.
- , Calabria.—Jervis, W. P.
- , California.—*See* San Francisco district.
- , Campania.—Baratta, M.

- Earthquakes, Chile.—Bigourdan, G.; Obrecht, A.
 —, Colombia.—Anon., 25.
 —, distribution of.—Montessus de Ballore, F. de.
 —, Doncaster.—Davison, C., 7.
 —, earth's interior &.—Oldham, R. D.
 —, Finland.—Rosberg, J. E.
 —, Galicia.—Láska, W.
 —, Greece.—Eginitis, D.
 —, Hungary.—Halecsinszky, A. von, 2.
 —, Japan.—Kusakabe, S., 1-4.
 —, Kangra Valley.—Anon., 26; Davison, C.; Middlemiss, C. S.; Oldham, R. D., 2.
 —, Lancashire.—Davison, C., 4.
 —, New Zealand.—Baracchi, P.; Hogben, G., 2-4.
 —, Nicaragua.—Sapper, K., 4.
 —, Northamptonshire & Yorkshire.—Markham, C. A.
 —, Norway.—Kolderup, C. F.
 —, origin of.—Benndorf, H.; Gilbert, G. K., 4; Oldham, R. D., 3; Piéron, H.
 —, Peru.—Polo, J. T.
 —, recording of.—Agamennone, G., 1 & 2; Davison, C., 3.
 —, San Francisco district.—Anon., 29 & 35; Branner, J. C., 3; Davidson, G., 1 & 2; Davison, C., 6; Gilbert, G. K., 5; Gill, H. V.; Hogben, G., 3; Lapparent, A. de; Oldham, R. D., 2; Omori, F.; See, T. J. J.; Taber, S.; Tarr, R. S., 4.
 —, Switzerland, 1880-1904.—Frueh, J.
 —, Triest.—Mazelle, E.
 —, underground water &.—Frech, F., 3.
 —, volcanic eruptions &.—Heilprin, A., 2.
 —, Wales (S.).—Davison, C., 5.
 —, waves.—Davison, C., 2; Hogben, G.
 —. See also Seismology, &c.
 Earthworms, continents &.—Benham, W. B.
 Eastbourne (Sussex).—Ussher, W. A. E., 2.
 East Indies.—Boehm, G., 4.
 Easter I. (Pacific).—Agassiz, A.
 Ebro Valley (Spain).—Depéret, C., 4.
 Ecce Series, Cape Colony.—Sandberg, C. G. S.
 Echinoidea, Cambrian.—Pack, F. J.
 —, Carboniferous.—Taylor, T. G.
 —, Cretaceous.—Gregory, J. W., 4; Krumbeck, L.; Savin, L. H.; Seguin, —; Sherborn, C. D.
 —, Jurassic.—Lambert, J.; Schmidt, M.
 —, Tertiary.—Chautard, J.; Lambert, J., 2.
 Echinolampas.—Chautard, J.; Gregory, J. W., 4.
 Eck, Loch (Argyll).—Hill, J. B.
 Eclogite, Puy-de-Dôme.—Capitan, L.
 Ecsedi (Hungary).—Guell, W., 3.
 Edenite.—See Hornblende.
 Edentata, Tertiary.—Ameghino, F., 2.
 Edible earth, New Guinea.—Meigen, W.
 Edintonite, Scotland & Sweden.—Sjægren, H., 5.
 Edriocrinus.—Clarke, J. M., 5.
 Education, geology &.—Branner, J. C., 2; Johnson, D. W.; see also Geology, practical, &c.
 Egypt.—Andrews, C. W.; Gregory, J. W., 3 & 4; Hume, W. F., 1 & 2; Knox, A.; Lyons, H. G., 1 & 2; Oppenheim, P.; Rutot, A., 3.
 Eigg, Sgurr of (Hebrides).—Harker, A., 3.
 Ekaterinoslav (Russia).—Sokolov, N.
 Ekwan River (Canada).—Dowling, D. B.
 Elands R. (Transvaal).—Gau, W. J.
 Elasmosaurus.—Williston, S. W., 2.
 Elba, I. of (Italy).—Aloisi, P., 3.
 Elbingerode (Harz).—Schleifenbaum, W.
 Elder's Ridge (Pa.).—Stone, R. W.
 Eleidæ, Cretaceous.—Lang, W. D.
 Elephas.—Mourlon, M., 4; Pfizenmayer, E.; Pilgrim, G. E.; Schroeder, H., 4; Tolmatschov, I. P.; Udden, J. A.
 Elk, Irish.—Loennberg, E.
 Ellero (Cottian Alps).—Franchi, S., 3.
 Ellipsoidina.—Schubert, R. J., 2.
 Elonichthys.—Traquair, R. H.; Woodward, A. S., 5.
 Elsburg Series, Klerksdorp.—Jorissen, E.
 EMARY, P., *Obit.*—See Anon., 7.
 Emeus.—Hutton, F. W., 3.
 Emilia (Italy).—Bassoli, G. G.; Sangiorgi, D., 1 & 2; Toldo, G.
 Emilius, Mt. (Graian Alps).—Stella, A.
 Emmet Co. (U.S.A.).—Macbride, T. H.
 Emporia (Kan.).—Smith, A. J.
 Ems R. (Prussia).—Wollenmann, A.
 Encrinurus.—Reed, F. R. C., 4.
 'Encyclopédie méthodique,' dates of publication of the.—Sherborn, C. D., 4.
 Endoiasmus.—Handlirsch, A., 3.
 Engadin (Grisons).—Schiller, W.; Zeppritz, K.
 Engineers, practical geology &.—Branner, J. C., 2; Irving, J. D.; Merrill, G. P., 3.
 England, mines & quarries.—See Great Britain, 1-3.
 — (S.E.) water supply.—Shenton, H. C. H.
 English Channel-water.—Schlössing, T.
 Enim R. (Sumatra).—Tobler, A.
 Eningen (Württemberg).—Gussmann, —.
 Ennerdale (Cumberland).—Rastall, R. H.
 Ennetières-en-Weppe (Nord).—Briquet, A., 4.

- Entalis*.—Vinassa de Regny, P., 6.
Entalophora.—Lang, W. D., 2.
Enteleles.—Keidel, H.
Entolium.—Etheridge, R. (*fil.*).
 Entomostraca, Devonian.—Clarke, J. M., 6.
 —, Quaternary.—Bullen, R. A.
 —, Tertiary.—Cappelli, G. B.
 Eocene, Algeria.—Savorniu, J.
 —, Cotentin.—Cossmann, M., 3.
 —, Dalmatia.—Dainelli, G.
 —, Greece.—Renz, C., 5.
 —, Holstein.—Gagel, C., 12.
 —, Istria.—Manek, F.
 —, Moonee Ponds.—Pritchard, G. B.
 —, Paris Basin.—Dollfus, G. F., 2;
 Leriche, M., 8.
 —, Salentine peninsula (Italy). —
 Stefano, G. di.
 —, Senegambia.—Chautard, J.
 —, Sicily.—Checchia-Rispoli, G., 2.
 —, Switzerland.—Stehlin, H. G., 2.
 —, Vence.—Guébiard, A., 3.
 —. See also Tertiary, &c.
Eocystites.—Pack, F. J.
Eodevonaria.—Breger, C. L.
 Eoliths, Belgium & France.—Dubois, A.;
 Rutot, A., 4.
 —, Magdeburg.—Blanckenhorn, M.,
 1 & 3; Wieggers, F., 1-3 & 4.
 —, origin of.—Halne, H.; Rutot, A.,
 2; Warren, S. H., 1 & 2.
 —, pseudo.—Rutot, A., 6 & 9.
Eomyrus.—Eastman, C. R.
Eosiren.—Andrews, C. W.
Eotomaria.—Clarke, J. M., 7; Reed, F.
 R. C., 3.
Epidaurus (Greece).—Frech, F., 6.
Epidote.—Azéma, —; Repossi, E.;
 Zambonini, F., 5.
Epismilia.—Angelis d'Ossat, G. de.
Erató.—Cossmann, M., 3.
 'Erebus' & 'Terror' Gulf (Antarctic).—
 Andersson, J. G.
 Eribut boring (Hainault).—Cornet, J.,
 2.
 Eriz (Berne).—Antenen, F.
 Erlangen (Bavaria).—Neumeister, P.
 Erosion, glacial.—Brunhes, J., 1 & 2.
 —, subterranean water.—Martel, E.
 A., 10; Rovereto, G., 3; Schardt, H.,
 3.
 —, surface.—Guenther, S.
 —, terraces, river.—Capedar, G.
 —. See also Earth-pillars, Karst
 phenomena, Coast-erosion, &c.
 Erratic boulders, Ireland (N.E.). —
 Christen, R.
 —, Wienerwald.—Götzing, G.
 —. See also Blocks & boulders.
 Eruptive rocks, bituminous deposits &
 —Lakes, A.
 —. See also Igneous rocks.
Eryilia.—Friedberg, W. S. von.
Eryma.—Harbort, E.
Erythraea (N.E. Africa).—Manasse, E.,
 3.
Erythrosuchus.—Broom, R.
 Erzgebirge (Saxony).—Baumgärtel, B.;
 Sauer, A.
 — (Transylvania).—Palfy, M. von,
 2; Papp, K. von, 3; Roth von Telegd,
 L., 1 & 2.
 Esch-sur-l'Alzette (Luxemburg). —
 Blum, L.
Eschara.—Brydone, R. M.
 Escragnoles (Var).—Hitzel, E.; Kilian,
 W., 2.
 Eskdale (Lake District).—Marr, J. E.,
 2.
 Eskers, Indiana.—MacBeth, W. A.
 —. See also Moraines, &c.
 Esmeralda Co. (Nev.).—Spurr, J. E.,
 4.
 Espinhaço, Serra do (Brazil).—Derby,
 O. A., 2.
 Essenrode (Brunswick).—Stolley, E.,
 9.
 Essequibo R. (British Guiana).—Harri-
 son, J. B., 1-4.
 Essex.—Dymond, T. S.; Reader, F. W.;
 Salter, A. E., 1-3.
 Essex Co. (Mass.).—Sears, J. H.
 Essexite, New Hampshire.—Pirsson, L.
 V., 2.
 Esthonia (Russia).—Lamanski, V. V.
 Estuarine deposits, Humber.—Petch,
 T.
 — — —, precipitation of.—Reade, T.
 M., 3.
 Etching, iron, &c.—Preston, H. L.
 —. See also Crystals.
Ethra.—Pâquier, V., 2.
Etoblattina.—Agnus, A. N.
Eubleptus & *Eucænus*.—Handlirsch,
 A., 3.
Eucythere.—Cappelli, G. B.
 Euganean Hills (Italy).—Billows, E.;
 Cornu, F.; Gianni, A.; Stark, M.
Eugyra.—Angelis d'Ossat, G. de.
Eumetria.—Vaughan, A.
Euomphalus.—Clarke, J. M., 7; Vinassa
 de Regny, P., 6.
Euphemus.—Frech, F., 7.
 Euphotide, Apuan Alps.—Aloisi, P.
 Europe, drift of Northern.—Lamplugh,
 G. W.
Eurypterus.—Seemann, F.
Eurytæxia & *Eurythmopteryx*.—Hand-
 lirsch, A., 3.
Euskelosaurus.—Huene, F. von, 3.
Eutritonium.—Cossmann, M., 3.
Eutypomys.—Matthew, W. D.
 Evercreech (Somerset).—Richardson, L.,
 2.
 Évise (Corsica).—Deprat, J., 3.
 Evolution, earth's.—Hutton, F. W.
 —, geology &.—Lobley, J. L.
 —, palæontology &. — Abei, O.;
 Kenna, A.
 —, plant (fossil).—Krašan, F.
Exelissa.—Cossmann, M.
 Exhibition, Nürnberg, 1906.—Friz, O.
Exochomylaeris.—Handlirsch, A., 3.
Exogyra.—Dawkins, C. G. E.; Krum-
 beck, L.

- Facetted pebbles, Netherlands Quaternary.—Dubois, E., 2.
- Fachingen a. d. Lahn (Hesse).—Hatzfeld, C.
- Facset (Transylvania).—Kadić, O.
- Fadalto (Venetia).—Toniola, R. A., 2.
- Færøe Is.—Currie, J., 1 & 3.
- Fahlore.—See Tetrahedrite.
- Fairbanks (Alaska).—Prindle, L. M.
- Fairhaven (Alaska).—Moffit, F. H.
- Falaise (Normandy).—Bigot, A.
- Falbygden (Gothland).—Post, L. von, 2.
- Falkland Islands (S. Atlantic).—Nathorst, A. G.; Newton, E. T.
- Falköping (Gothland).—See SWEDEN, Geol. Surv.
- Famennian, Liège.—Fourmarier, P., 3.
- Farley Down (Hants).—Jukes-Browne, A. J.
- Farnesina (Rome).—Cappelli, G. B.; Napoli, F.; Verri, A.
- Farrar Basin (Inverness).—Peach, B. N., 4.
- Fasciolaria*.—Whitfield, R. P., 3.
- Fassa Valley (Tyrol).—Tacconi, E.
- Faucille, La (Burgundy).—Lee, G. W.
- Fault, Cusworth post-Permian.—Culpin, H.
- , fissure, Ingleborough.—Broderick, H.
- Faults, Australasian.—David, T. W. E., 4.
- , Charleroi Basin.—Lohest, M., 2.
- , Glarus.—Heim, A., 1 & 4.
- , Poitou.—Welsch, J., 2.
- , strength of rocks &.—Anderson, E. M.
- , Uri.—Abrenz, P.
- , Westphalia.—Stille, H., 5.
- Favus*.—Icke, H.
- Favia*.—Gregory, J. W., 3.
- Fayette Co. (Iowa).—Savage, T. E., 2.
- Fayûm (Egypt).—Andrews, C. W.
- Fehmarn I. (Baltic).—Gagel, C., 11.
- Felis*.—Scharff, R. F., 2.
- Felsögåld, &c.—See Gáld, Upper, &c.
- Felspar-crystals, Cornish granite.—Elsden, J. V.
- Felspars, determination of.—Becke, F., 5; Wright, F. E.
- , German E. Africa.—Spencer, G. F. H.
- , reactions of.—Cornu, F., 5.
- , schists, &.—Becke, F., 3.
- , sericite with.—Benedicks, C., 2.
- , See also Albite, &c.
- Felsite, Sgùrr of Eigg.—Harker, A., 13.
- Felsitic agglomerate, Charnwood Forest.—Bennett, F. W., 3; Stracey, B.
- Fenestella*.—Hennig, A.
- Ferentillo (Umbria).—Lotti, B., 2.
- Ferns, history of.—Arber, E. A. N., 2.
- Fez (Morocco).—Brives, A., 3.
- Fichtelgebirge (Bavaria).—Luczizky, W.; Sauer, A.; Schmidt, A.
- Ficula*.—Oppenheim, P.
- Fier, Val de (Savoy).—Deslarmes, J.
- Fife (Scotland).—Crampton, C. B.
- Fiji Is. (Pacific).—Brown, G.; Chapman, F., 6.
- Finchley (Middlesex).—Young, A. C.
- Finger-Lake Region (N.Y.).—Tarr, R. S., 3.
- Finland.—Borg, W.; Deecke, W., 3; Frosterus, B.; Jakovlev, S. A.; Ramsay, W., 1-5; Rosberg, J. E.; Sederholm, J. J.; Sundell, I. G.; Wahl, W.
- Fire, building-stones &.—Baldwin-Wiseman, W. R., 3.
- FIRKET, A., *Obit.*—See Forir, H.
- Fish-bed, Cheadle Coalfield.—Ward, J., 2.
- Fisher's I. (N.Y.).—Fuller, M. L.
- Fishes, Bohemian fossil.—Bayer, F.
- , Carboniferous.—Hind, W.; Traquair, R. H.; Ward, J., 2; Wellburn, E. D.; Woodward, A. S., 3 & 5.
- , classification of fossil.—Dollo, J., 2.
- , Cretaceous.—Fourreau, F.; Hennig, E.; Simionescu, I.
- , Devonian.—Eastman, C. R., 2; Hussakof, L., 1 & 2; Traquair, R. H., 2.
- , fossil and S. African recent.—Boulenger, G. A.
- , Jurassic.—Hennig, E.; Jäkel, O., 2; Woodward, A. S., 1 & 8.
- , otolites of.—Bassoli, G. G.
- , Permian.—Jäkel, O., 2.
- , Silurian.—Chapman, F., 3.
- , study of fossil.—Woodward, A. S., 6.
- , Tertiary.—Delheid, E.; Eastman, C. R.; Hennig, E.; Schubert, O., 4; Stolley, E., 11.
- , Triassic.—Abel, O., 4.
- Fissure-veins.—See Veins.
- Fissurella*.—Cossinann, M., 3; Oppenheim, P.
- Fjords, New Zealand.—Andrews, E. C., 2 & 3.
- Flanders.—Andrimont, R. d', 1 & 2; Moulon, M., 4; Simoens, G., 4.
- Flemingites*.—Hyatt, A.
- Flinders (Victoria).—Pritchard, G. B., 3 & 4.
- Flint-flakes.—Stanley, W. F.
- , formation of.—Williams, T. R.
- , implements.—See Implements.
- , zones, Alpes-Maritimes.—Guéhard, A., 4.
- Flintshire.—Hind, W., 4; Terry, H. L.; Traquair, R. H.
- Florence.—Hussak, E., 5.
- Florissant (Colo.).—Cockerell, T. D. A.
- Flow, folds &.—Sollas, W. J.
- Fluorspar.—Buttgenbach, H., 3; Fermor, L. L., 2; Krahmann, M.; Morse, H. W.; Ulrich, E. O., 2.
- Flying fishes, Triassic.—Abel, O., 4.
- Flysch, Switzerland.—Høck, H., 2; Jaccard, F.; Petrascheck, W., 3.
- Föglö (Finland).—Wahl, W.

- Foinica (Bosnia).—Mauritz, B.
 Folding of strata by frozen streams.—Sardeson, F. W.
 Folds, Algeria & Tunis.—Termier, P., 4.
 —, Alpes-Maritimes.—Guébbard, A., 7.
 —, Alpine.—Simoens, G., 2; Steinmann, G., 5.
 —, Appalachian.—Keith, A.
 —, Australasian.—David, T. W. E., 4.
 —, Calabria.—Lugeon, M., 4.
 —, Dauphiné.—Kilian, W.
 —, Greece.—Négris, P., 2 & 3.
 —, Poitou.—Welch, J., 2.
 —, Pyrenees.—Bertrand, L.
 —, recumbent, produced as the result of flow.—Sollas, W. J.
 —, St. Étienne.—Termier, P., 5.
 —, Sicily.—Lugeon, M., 2-4.
 —, Switzerland.—Ficker, H. von; Heim, A., 4; Jaccard, H. von; Lugeon, M.
 —, Tygerberg reverse.—Sandberg, C. G. S.
 —, Ubaye.—Haug, E.
 —. See also Mountains, §c.
 Folkestone Beds, Surrey.—Herries, R. S., 2.
 Footprints, Permian.—Hickling, G.; Pabst, W.
 —, Triassic.—Lomas, J.
 Foramina of the reptilian lower jaw.—Huene, F. von, 2.
 Foraminifera, Carboniferous.—Karpinski, A., 2.
 —, Cretaceous.—Krumbeck, L.
 —, Permo-Carboniferous.—Chapman, F., 5.
 —, Quaternary.—Bullen, R. A.; Reade, T. M., 4.
 —, Tertiary.—Bagg, R. M., Jun.; Checchia-Rispoli, G., 1, 3, & 4; Depprat, J.; Douvillé, H., 3 & 4; Fornasini, C.; Kemna, A., 2; Kilian, W., 3; Lemoine, P., 4; Liebus, A.; Manek, F.; Napoli, F.; Oswald, T.; Prever, P. L., 1 & 2; Sacco, F., 4; Schubert, R. J., 1 & 2; Schlumberger, C., 1 & 2; Silvestri, A., 1 & 2; Vredenburg, E., 4.
 —, tests of.—Stromer, E.
 —, Triassic.—Cole, G. A. J.
 Forasest (Transylvania).—Schafarzik, F.
 Forcett limestone-quarry (Yorks).—Teasdale, T.
 Forest-Bed, Belgium.—Dubois, E.
 —, Cromer.—Harmer, F. W.; Lorié, J., 2; Reid, C., 2.
 —, Tegelen.—Dubois, E.; Harmer, F. W.; Lorié, J., 2.
 Forest, petrified.—Ward, L. F.
 Formations, correlation of Australian & Northern Hemisphere.—Hall, T. S.
 Fort Bridger (Wy.).—Veatch, A. C.
 — Collins (Colo.).—Headden, W. P.
 Fortuna (Spain).—Osann, A.
 Fortunite, Spain.—Osann, A.
 Fortymile District (Alaska).—Prindle, L. M.
 Fossil-shells preserved in the interior of larger ones.—Kœnen, A. von, 4.
 Fossilization, conditions of.—Hartzell, J. C.
 Fouqué, F., *Obit.*—See Barrois, C., 5.
 Foyaiterocks, Tasmanian.—Paul, F. P.
 Frameries (Hainault).—Lagrange, E.
 Framont (Vosges).—Mueller, F. T.
 France, central plateau, dislocations.—Haug, E.
 —, Kimmeridgian.—Lemoine, P., 5.
 —, tectonic faults, &c.—Jourdy, E.
 —, Tertiary Edentata.—Ameghino, F., 2.
 —. See also Languedoc, Picardy, §c.
 Franché-Comté (France).—Drioton, C., 2; Girardot, A., 1 & 2.
 Franconia (Germany).—Kœhne, W., 1 & 2.
 Frank (Alberta).—Bell, R., 3.
 Franklin Co. (Pa.).—Stose, G. W.
 Frasnian, Namur.—Maillieux, E.
Frechiella.—Prinz, G., 3.
 Freiburg i. Br. (Baden).—Steinmann, G., 2.
 Freistadt (Moravia).—Oppenheimer, J., 2.
 Freiwaldau (Silesia).—Rosiwal, A.
 French Antarctic Expedition.—Gourdon, E.
 French Guinea (W. Africa).—Hébert, A.
 Freuden Valley (Silesia).—Jahn, J. J.
 Friedeberg (Silesia).—Rosiwal, A.
 Frisian Is. (North Sea).—Geinitz, E.
 Friuli district (Venetia).—Gortani, M., 3; Lorenzi, A.; Taranelli, T.
 Fruska Gora (Hungary).—Pethoe, J.
Fulguraria.—Cossmann, M., 3.
 Fulwell Hill (Durham).—Abbott, G.
 Fumaroles, Vesuvius.—Lacroix, A., 9; Zambonini, F.
Fungia.—Vaughan, T. W., 2.
 Fungidæ, classification of.—Vaughan, T. W.
 Furgun Valley (Pennine Alps).—Stella, A.
Fusulina.—Douvillé, H., 4.
Fusus.—Ascher, E.; Cossmann, M., 3; Krumbeck, L.; Oppenheim, P.
 Fyne, Loch (Argyll).—Hill, J. B., 2.
 Gabbro, Ambon.—Verbeek, R. D. M.
 —, Bavaria.—Bergt, W., 2.
 —, Bohemia.—Bergt, W., 1 & 2.
 —, British Columbia.—Daly, R. A.
 —, Hesse.—Chelius, C.
 —, Lapland.—Borg, W.
 —, Transylvania.—Papp, K. von.
 —, Urals.—Krasnopolski, A.
 —, Washington (U.S.A.).—Daly, R. A., 2.
 Gade Valley (Herts).—Lones, T. E.
 Gadolinite, Sweden.—Chernik, G. P.
 Gaisberg (Salzburg).—Fugger, E., 4.

- Galapagos Is. (Pacific).—Agassiz, A.; Ameghino, F.
- Gáld, Upper (Transylvania).—Roth von Telegd, L.
- Galena, Alsace.—Ungemach, —.
- , Argentina.—Bodenbender, G.
- , crystals of.—Buttgenbach, H., 3.
- , Nevada.—Spurr, J. E., 2.
- , New South Wales.—Larcombe, C. O. G.
- , St. Gothard massif.—Mariani, E., 3.
- , Vesuvius.—Zambonini, F., 1 & 6.
- Galicia (Austria).—Angermann, E.; Felix, J.; Friedberg, W. S. von, 1 & 2; Holobek, J.; Láska, W.; Michael, R.; Siemiradzki, J. von, 2.
- Galla Country (Abyssinia).—Blundell, H. W.
- Gallberg von Salzgitter (Hanover).—Prinz, G.
- Galle (Ceylon).—Dunstan, W. R., 5.
- Gallico Tunnel, Piedmont.—Sacco, F., 2.
- Gallinuloides*.—Loomis, F. B., 2.
- Gällo (Gothland).—See SWEDEN, Geol. Undersökn.
- Gander R. (Newfoundland).—Millais, J. G.
- Gangamopteris*.—Chapman, F.
- Gangetic plain, Bengal.—Molony, E.
- Gap (Dauphiné).—Lévy, Aug. M.; see also FRANCE, Serv. géol.
- Gard (France).—Mazauric, F., 2 & 3; Pellat, E., 1 & 2.
- Gardelegen (Magdeburg).—Wiegiers, F., 4.
- Garçon, (Languedoc).—Masauric, F.
- Garéoult (Provence).—Kilian, W., 6.
- Gargano, Penin. (Italy).—Fucini, A., 2.
- Gari*.—Pethö, J.
- Garnet, yttrioniferous.—Benedicks, C.
- Garzonia*.—Sinclair, W. J.
- Gas (natural), Cape Colony.—Young, A.
- (—), carbonic acid.—Delkeskamp, R.
- (—), Queensland artesian water with.—Henderson, J. B.; see also UNITED STATES, Min. Resources.
- Gas-holes, Ætna lavas.—Platania, G.
- Gascony (France).—Douvillé, H.; Liebus, A.
- Gases, enclosed in coal.—Bedson, P. P.
- , mineral water.—Moureu, C.
- , Rumanian rock-salt & mud-volcanoes.—Costachesü, N.
- Gassino (Piedmont).—Prever, P. L., 2.
- Gasteropoda, Cambrian.—Lorenz, T., 2.
- , Carboniferous.—Frech, F., 7; Hind, W.; Malaquin, A.
- , Cretaceous.—Äscher, E.; Choffat, P.; Harbort, E.; Icke, H.; Krumbeck, L.; Pethö, J.; Replin, J.
- , Devonian.—Clarke, J. M., 5 & 6; Schmidt, W. E.
- , Jurassic.—Cossmann, M.; Cragin, F. W.; Schmidt, M.; Seidlitz, W. von.
- Gasteropoda, Ordovician.—Reed, F. R. C., 3.
- , Permo-Triassic.—Gortani, M., 5.
- , Quaternary.—Bullen, R. A.; Dautzenberg, P.; Korinos, T.
- , Silurian.—Clarke, J. M., 7; Donald, J.; Whiteaves, J. F.
- , systematic determination of fossil.—Dacqué, E.
- , Tertiary.—Andrussov, N.; Chauntard, J.; Cossmann, M., 3; Dainelli, G.; Friedberg, W. S. von; Gutzwiller, A.; Jukovski, E., 2; Leriche, M., 2; Newton, R. B., 2; Oppenheim, P., 1 & 2; Pritchard, G. B., 5; Seninski, K., 2; Whitfield, R. P., 3.
- Gasteropoda - marls, Ingramsdorf.—Guerich, G.
- Gastrochæna*.—Cossmann, M., 3.
- Gâtine massif (Poitou).—Welsch, J., 1-4.
- Gault, Algeria.—Blayac, J.
- , Brunswick.—Stolley, E., 8; Wollemann, A., 2.
- , Gard.—Pellat, E., 1 & 2.
- , See also Cretaceous.
- Gauss Berg (Kaiser Wilhelm II. Land).—Drygalski, E. von, 2.
- Gazella*.—Hinton, M. A. C.
- Gedinnian, Namur.—Fourmarier, P., 2.
- Geikielite.—Crook, T., 2.
- Geisingen (Baden).—Becker, E., 2.
- Gellivaare (Sweden).—Stutzer, O., 3.
- Gems.—See Precious stones, Minerals, &c.
- Genesis, geology &.—Irving, A., 2.
- Geniohyus*.—Andrews, C. W.
- Genoa (Liguria).—Figari, L.; Rovereto, G., 2; Sacco, F., 3.
- Genyornis*.—Stirling, E. C.
- Geodes, Simplan tunnel.—Brillouin, M.
- Geographical cycle, complications of the.—Davis, W. M., 4.
- Geography, geology &.—Davis, W. M., 8.
- , origin of Scottish.—Geikie, Sir A., 3.
- , physical.—Douxami, H., 2 & 8.
- , seismological.—Montessus de Ballore, F. de.
- , See also INTERNAT. CAT. SCI. LIT.
- Geological Congress, Mexico.—Anon., 31.
- formations, nomenclature, Ohio.—Prosser, C. S.
- hints for travellers.—Meunier, S., 5.
- maps.—Brunton, D. W.
- Museum, Cairo.—Hume, W. F., 2.
- sketching.—Lakes, A., 6.
- Society, medals, &c.—Marr, J. E.
- , France, Italian excursion.—Franchi, S., 2; Sacco, F., 3.
- , Servia.—Stevanović, S.
- Societies, aims of local.—Forsyth, D.
- Survey, Alsace-Lorraine.—Benecke, E. W., 1 & 2.

- Geological Survey, Austria.—Tietze, E. E. A., 2.
 —, Belgium.—Greindl, Baron L.; Mourlon, M., 2.
 —, Canada.—Adams, F. D.; Bell, R., 1-4.
 —, Cape Colony.—See CAPE OF GOOD HOPE.
 —, cost of European & American.—Jentsch, A., 7.
 —, Egypt.—Lyons, H. G.
 —, England & Wales.—See also GREAT BRITAIN, &c.; Barrow, G.; Gibson, W.; Pocock, T. I.; Reid, C.; Strahan, A.; Ussher, W. A. E., 2; Woodward, H. B., 1, 3, & 4.
 —, Germany & Saxony.—Walther, J.
 —, Great Britain. See GREAT BRITAIN.
 —, Hesse.—Lepsius, R., 2.
 —, Hungary.—Acker, V.; Beckh, J., 1 & 2; Gesell, A.; Guell, W.; Halavats, J.; Horusitzky, H.; Kadić, O.; Kalecsinsky, A. von; László, G. von; Liffa, A.; Pálffy, M. von; Papp, K. von; Posewitz, T.; Reguly, E.; Roth von Telegd, L.; Schafarzik, F.; Szadeczyk, J. von; Szontagh, T.; Timkó, E., 2; Treitz, P., 1, 3, & 4.
 —, —, chemical laboratory analyses.—Emszt, K., 1 & 2.
 —, —. See also Soils, &c.
 —, India.—Holland, T. H., 3.
 —, Iowa.—Beyer, S. W.; Eckel, E. C.; Macbride, T. H.; Savage, T. E., 1 & 2; Udden, J. A.; Wilder, F. A.; Williams, I. A.
 —, Missouri.—Buckley, E. R.; Van Horn, F. B.
 —, Mysore.—Sambasiva Iyer, V. S.; Slater, H. K.; Smeeth, W. F.; Wetherell, E. W.
 —, New Jersey.—Kuemmel, H. B.
 —, New South Wales.—See NEW SOUTH WALES, Dep. Mines.
 —, Transvaal.—Kynaston, H., 2, 4, & 5.
 —, United Kingdom.—See GREAT BRITAIN.
 —, United States.—Walcott, C. D.
 —, Victoria.—See VICTORIA, Dep. Mines.
 —, Western Australia.—Maitland, A. G.; see also W. AUSTRALIA, Dep. Mines, 1 & 2.
 —, surveying.—Kemp, J. F.; Lakes, A., 3.
 —, text-books.—Chamberlin, T. C., 3; Cole, G. A. J., 3; Frech, F.; Spurr, J. E.; Suess, E., 2; Walther, J.
 —, time, biology &.—Lobley, J. L.
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 —, Canadian, 1904.—Ami, H. M.
 —, chemical.—Clarke, F. W.
 —, copyright in.—Kœnen, A. von, 3.
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 —, experimental.—Lohest, M., 2.
 —, founders of.—Geikie, Sir A.
 —, Genesis &.—Irving, A., 2.
 —, geography &.—Davis, W. M., 8.
 —, Ireland, 1903-1905.—Seymour, H. J.
 —, isostasy &.—Haid, M.; Hayford, J. F.; see also Gravity.
 —, military uses of.—Poitevin, —, 2.
 —, mining &.—Spurr, J. E.
 —, New Zealand.—David, T. W. E.
 —, palæontology & chronological.—Ami, H. M., 2.
 —, practical.—Branner, J. C., 2; Glen, L. C.; Irving, J. D.; Johnson, D. W.; Merrill, G. P., 3; Ransom, F. L.
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 —, radium &.—Fisher, O., 2 & 3; Joly, J.; Palmer, B. J.; Reade, T. M., 2; Strutt, R. J.
 —, Switzerland, 1904.—Sarasin, C.
 —, text-books of.—See Geological.
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 Georgetown (Colo.).—Ball, S. H.
 Georgia (U.S.A.).—McCallie, S. W.
Geotiphia.—Cockerell, T. D. A.
Gerapompus, *Geraroides*, & *Gerarus*.—Handlirsch, A., 3.
 German Antarctic Expedition, 1901-3.—Drygalski, E. von, 2.
 —, East Africa.—Hecker, O.; Lacroix, A., 10; Schmeisser, C.; Spencer, G. F. H.
 —, New Guinea (Pacific).—Haupt, O.; Meigen, W.
 —, West & South-West Africa.—Schmeisser, C.; Schneider, O.
 Germany, colonies of.—Schmeisser, C.
 — (N.), inland dunes.—Lehmann, F. W. P.
 — (N.W.).—Stolley, E.; see also Hanover, &c.
 — (S.W.), structure of.—Regelmann, C.
 —, Tertiary Edentata.—Ameghino, F., 2.
 —, useful minerals.—Bruhus, W.
 —. See also Gravels, Moraines, Potash, Prussia, Quaternary, &c.
 Gerringong (N.S.W.).—Harper, L. F.
Gervillia.—Choffat, P.; Cragin, F. W.; Gortani, M., 5; Newton, R. B.; Pethe, J.

- Gesso Valley (Piedmont).—Roccali, A., 2.
 Geysers, New Zealand.—Bell, J. M., sources of waters of.—Maclaren, J. M.
 Ghazipur (Bengal).—Molony, E.
 Ghlin (Hainault).—Cornet, J., 3.
 'Giant's Kettles,' Gothland, &c.—Hamberger, A., 2.
 Giardinello (Sicily).—Stefano, G. di, 2.
Gigantophis.—Andrews, C. W.
Gigantopterus.—Abel, O., 4.
Ginkgo.—Krasser, F., 2.
 Girvan (Ayrshire).—Reed, F. R. C., 4.
 Glacial aspect of Ben Nevis (recent).—Gatty, V. H.
 — deposits, Anglesey. — Edwards, W.
 — —, Belgium.—Rutot, A., 5.
 — —, East Anglia. — Hamner, F. W., 3.
 — —, Gothland.—Holst, N. O.
 — —, Grisons.—Høek, H.
 — —, Hanover. — Bode, A.; Martin, J.; Schucht, F.
 — —, Lancashire.—Cope, T. H.
 — —, Massachusetts.—Sears, J. H.
 — —, Mecklenburg.—Gagel, C., 6; Siegert, L.
 — —, Prussia. — Deecke, W., 2; Gagel, C., 4 & 6; Jentzsch, A., 2 & 6; Linstow, O. von, 2.
 — —, Schleswig-Holstein. — Gagel, C., 4; Wolf, W., 2.
 — —, Scotland. — Geikie, J.; Jamieson, T. F., 2 & 3.
 — —, Thuringia. — Picard, E.; Wuest, E.
 — —, Yorkshire.—Sewell, J. T.
 — erosion.—Brunhes, J., 2; Fairchild, H. L.
 — ice-caps.—See Ice.
 — lake, Pangong.—Huntington, E.
 — lakes, Cleveland Hills.—Kendall, P. F.
 — periods, man and the.—Reinhardt, L.; Sollas, W. J., 2.
 — —, origin of. — Jækel, O., 4; Penck, A.; Pohlig, H.; Schellwien, E.; Schwarz, E. H. L., 3; Sutcliffe, G.
 — —, Scottish peat-bogs &. — Lewis, F. J., 1 & 2.
 — —, thickness of ice &.—Lamplugh, G. W.
 — —. See also Drift, &c.
 Glaciated surfaces.—Gilbert, G. K.
 Glaciation, Aberdeenshire.—Jamieson, T. F., 3.
 — —, Abruzzo.—Vinassa de Regny, P., 2.
 — —, Alps.—Penck, A., 2.
 — —, Argyll.—Hill, J. B., 2.
 — —, Arizona.—Merrill, F. J. H., 2.
 — —, Australasian Permo-Carboniferous.—David, T. W. E., 3.
 — —, Baden.—Huber, A.
 — —, Belluno district.—Toniolo, R. A., 2.
 — —, Glaciation, Berne.—Antenen, F.
 — —, Canadian Rocky Mts.—Sherzer, W. H.
 — —, Cape Colony, Permo-Carboniferous.—Sjögren, O., 4; Young, R. B.
 — —, Carpathians.—Martonne, E. de; Romer, E.
 — —, Colorado.—Davis, W. M., 1 & 2.
 — —, earth's surface.—Gugenhan, M.
 — —, Iceland.—Ferguson, H. G.; Knebel, W. von; Thoroddsen, Th.
 — —, Ireland (N.E.).—Christen, R.
 — —, Lebanon District.—Wright, G. F.
 — —, Massachusetts.—Clapp, F. G.
 — —, Mexico.—McGee, W. J.; Merrill, F. J. H., 2.
 — —, mountain.—Davis, W. M., 7.
 — —, New England.—Fuller, M. L., 2.
 — —, New York.—Rich, J. L.; Tarr, R. S., 3.
 — —, New Zealand.—Andrews, E. C., 2 & 3.
 — —, Norrbotten.—Gavelin, A.
 — —, Prussia.—Linstow, O. von, 2.
 — —, Quebec.—Wilson, A. W. G.
 — —, Scania.—Bobeck, O.; Douxami, H.
 — —, Styria.—Aigner, A.
 — —, Tasmania.—David, T. W. E., 3.
 — —, Transvaal, Permo-Carboniferous.—Mellor, E. T.
 — —, Wisconsin.—Alden, W. C., 1 & 2.
 — —, Würtemberg.—Gugenhan, M., 2.
 — —, Yorkshire.—Carter, W. L., 2.
 Glacier-erosion.—Brunhes, J.
 Glaciers, Alaska.—Brooks, A. H., 3.
 — —, Baltistan.—Workman, F. B.
 — —, Dauphiné.—Jacob, C., 2; Lory, P.
 — —, Himalayas.—Estreich, K.
 — —, Norway.—Eyen, P. A.; Rekstad, J., 2.
 — —, origin of.—Hamberger, A.
 — —, Switzerland.—Penck, A., 2.
 — —, variations of.—Belloc, E.; Forel, F. A.; Reid, H. F., 1-3.
 Glamorgan.—Richardson, L., 3.
 Glan R. (Rh.-Bavaria).—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
Glaphyrophlebia.—Handlirsch, A., 3.
 Glarus (Switzerland).—Heim, A., 1, 2, & 4.
 — — Alps.—See Alps.
 Glatz (Silesia).—Flegel, K.
 Glauconite & glauconitic deposits.—Collet, L. W., 3.
 — —, iron &.—Cayeux, L., 6.
 Glauconitic oceanic concretions.—Collet, L. W.
 Glauconite.—Termier, P., 3.
 — — schists, California.—Murgoci, G. M., 3.
 — — —, Switzerland.—Grubenmann, U.
 Glencroe, Pass of (Argyll).—Hill, J. B., 2.
 Glendonite, pseudo.—David, T. W. E., 2.
 Glensluhan Schists, Argyll.—Hill, J. B., 2.
 Glindow-Lake peat (Brandenburg).—Gagel, C., 2.
Globigerina.—Bullen, R. A.
 — — ooze, Pacific.—Flint, J. M.

- Glokova (Greece).—Négris, P., 5.
Glossocarpellites.—Perkins, G. H.
Glossograptus.—Ruedemann, R.
Glossopteris.—Arber, E. A. N.
 Gloucestershire.—Buckman, S. S., 2 & 5;
 Paris, E. T.; Richardson, L., 4-6;
 Upton, C.; Vaughan, A.; Winwood,
 H. H., 2.
 Glurns (Tyrol).—Hammer, W.
 Gmelinite, Russia.—Fersmann, A.
 Gneiss, Aar massif.—Sauer, A., 3.
 —, algæ in.—Ahnert, E. von.
 —, Baden.—Rosenbusch, H.
 —, Brazil.—Evans, J. W., 2.
 —, Bundelkhand decomposed.—Sil-
 berrad, C. A.
 —, classification of.—Harker, A., 4.
 —, Engadin.—Schiller, W.; Zœp-
 pritz, K.
 —, European fundamental.—Sauer, A.
 —, Finland.—Frosterus, B.; Ramsay,
 W., 4.
 —, Graian Alps.—Stella, A.
 —, Greenland.—Belowski, M.
 —, inclusions in granite.—Roccati, A.,
 4.
 —, Lapland.—Borg, W.
 —, Liguria.—Rosati, A.
 —, Limpopo R.—Henderson, J. McC.;
 Sandberg, C. G. S., 2; Voit, F. W.,
 1 & 2.
 —, Maryland.—Mathews, E. B.
 —, Moravia.—Suess, F. E., 3.
 —, Mysore.—Slater, H. K.; Wetherell,
 E. W., 2.
 —, Ortler Alp.—Hammer, W.
 —, Piedmont.—Novarese, V., 2;
 Preiswerk, H.
 —, Rhaetian Alps.—Seidlitz, W. von.
 —, structure of.—Weinschenk, E.
 —, Ticino, so-called.—Klemm, G., 2.
 Gneissic schists, crumpling of Alpine.—
 Sacco, F.
Gobæus.—Cossmann, M., 3.
 Godavari R. (India).—Pilgrim, G. E.
 Godrevy (Cornwall).—Whitley, D. G.
 Goenong Nona (Ambon I.).—Verbeek,
 R. D. M.
 Gokteik Gorge, natural bridge (Shan
 States).—La Touche, T. D., 2.
 Gold, Abyssinia.—Blundell, H. W.
 —, Alaska.—Mendenhall, W. C.;
 Moffit, F. H.; Prindle, L. M.; Puring-
 ton, C. W.; Spencer, A. C., 2 & 3.
 —, Argentina.—Bodenbender, G.
 —, Arizona.—Reid, J. A.
 —, Asia Minor.—Freise, F.
 —, Borneo.—Geike, J. S.; Hamilton,
 W.; Scrutton, T. C.
 —, British Columbia.—Atkin, A. J.
 B.; *see also* BRITISH COLUMBIA.
 —, Brazil.—Pearson, H.
 —, California.—Gunther, C. G., 2.
 —, Ceylon.—Coomáráswamy, A. K., 2.
 —, Chile.—Cortes, A. O.; Herrmann,
 A.; San Roman, F. J.
 —, Colorado.—Gunther, C. G.;
 Purington, C. W., 2.
 Gold, Congo Free State.—Buttgenbach,
 H., 5.
 —, Germany.—Bruhns, W.
 —, Hungary.—Papp, K. von, 3.
 —, India.—Holland, T. H., 2; La
 Touche, T. D., 3; Maclaren, J. M., 3.
 —, Japan.—Weigall, A. R.
 —, Klondyke.—Tyrrell, J. B.
 —, Queensland.—Dunstan, B.
 —, Madagascar.—Degoutin, —; Gas-
 cuel, L.
 —, Manicaland.—Cuyat, J., 2.
 —, Mashonaland.—Beck, R., 4.
 —, Meurthe-et-Moselle.—Laur, F., 2.
 —, Mexico.—Warwick, A. W.
 —, Mysore.—Sambasiva Iyer, V. S.
 —, Natal.—Gray, C. J., 2.
 —, Nevada.—Collins, E. A.; Spurr, J.
 E., 2 & 5.
 —, New South Wales.—Andrews, E.
 C.; Hall, W. H.; Jaquet, J. B.;
 Macdonald, W. F.; *see also* NEW
 SOUTH WALES, Dep. Mines.
 —, Nova Scotia.—Bell, R., 3 & 4;
 Gilpin, E. (*fil.*)
 —, origin of placer and vein.—Love-
 well, J. T.
 —, Otago.—Boult, C. N.
 —, Perak.—*See* PERAK STATE, Mines
 Dep.
 —, Peru.—Pfluecker, L.
 —, Rhodesia.—Gregory, J. W., 5 & 6.
 —, Siberia.—Korotkov, —; Maier, E.;
 Samoïlov, J., 2; Thiess, F.
 —, Silesia.—Rosiwal, A.
 —, Tasmania.—Twelvetrees, W. H.,
 6; *see also* TASMANIA, Dep. Mines,
 1-5.
 —, Tierra del Fuego.—Brain, J., 1
 & 2.
 —, United States.—*See* UNITED
 STATES, Min. Resources.
 —, Victoria (Austral.).—Ferguson,
 W. H.; Jenkins, H. C.; Kitson, A.
 E.; Gregory, J. W., 8; *see also* VIC-
 TORIA, Dep. Mines.
 —, Western Australia.—Campbell, W.
 D.; Gibson, C. G.; Jackson, C. F. V.;
 Lindgren, W., 3; Maitland, A. G.,
 1-4; Woodward, H. P.; *see also*
 W. AUSTRALIA, Dep. Mines, 1 & 2.
 —, Zululand.—Gray, C. J.
 Gold-crystals, Aosta Valley.—Millo-
 seovich, F.
 Goldfield (Nev.).—Collins, E. A.
 Gömör Co. (Hungary).—Acker, V.
 Zimányi, K.
Goniatites.—Carpentier, A., 3.
Goniograptus.—Ruedemann, R.
Goniomya.—Newton, R. B.
Goniomyglaris.—Handlirsch, A., 3.
Goniopholis.—Hooley, R. W.
Goniopteris.—Vinassa de Regny, P., 6.
 Goodchild, J. G., *Obit.*—*See* ANON., 8.
 Goodmandale (Yorks).—Stather, J. W.,
 2.
 Goose Bank (N.F.).—Howley, J. P.
 Goring Gap.—Harmer, F. W., 4.

- Goritz (Austria).—Stach, G.
 Gosau (Tyrol).—Petrascheck, W., 3.
 Göteborg (Gothland).—Munthe, H., 1 & 2.
 Gotha (Germany).—Amthor, R.
 Gothland (Sweden).—Anon., 32; Halle, T. G.; Hamberg, A., 2; Hennig, A.; Holst, N. O.; Munthe, H., 1, 2, & 4; Post, L. von, 2; Tørnebohm, A. E., 2; Tørnquist, S. L.; Witte, H.; *see also* SWEDEN, Geol. Surv., 1 & 2.
 Göttingen (Hanover).—Köenen, A. von, 2.
 Gough I. (S. Atlantic).—Campbell, R.; Pirie, J. H. H.
 Gourbesville (Normandy).—Dollfus, G. F., 5.
 Graham Land (Antarctic).—Andersson, J. G.; Gourdon, E.
 Grahamstown Museum (Cape Colony).—*See* ALBANY (Cape Colony).
 Granada (Spain).—Hørnes, R.
 Granby (Mo.).—Buckley, E. R.
 Grand-Manil (Namur).—Mathieu, É.
 Grängesberg (Svealand).—Sjøgren, O., 6.
 Granite, Ambon.—Verbeek, R. D. M.
 —, Apuan Alps.—Aloisi, P.
 —, Argentina.—Bodenbender, G.
 —, Bavaria.—Luczizky, W.
 —, Brocken massif.—Erdmannsdorffer, O. H.
 —, Brazil.—Evans, J. W., 2.
 —, Cascade Mts.—Daly, R. A., 2.
 —, Cornwall.—Elsden, J. V.
 —, dome-margins.—Cole, G. A. J., 1 & 2.
 —, Finland.—Frosterus, B.
 —, Gothland black.—Anon., 32.
 —, graphic, composition of.—Bygdén, A.
 —, Greenland.—Belowski, M.
 —, inclusions in.—Gilbert, G. K., 3; Roccati, A., 4.
 —, Lapland.—Borg, W.
 —, Lombardy.—Reposi, E.
 —, New South Wales.—Andrews, E. C.
 —, Perm.—Löwinson-Lessing, F., 4.
 —, plasticity of.—Adams, F. D., 2 & 3.
 —, Purcell Mts.—Daly, R. A.
 —, Rhenish Bavaria.—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
 —, Riesengebirge.—Milch, L.
 —, Scilly Is.—Barrow, G.
 —, Swedish.—Holmquist, P. J.
 —, Valais.—Duparc, L.
 —, W. Australia.—Lindgren, W., 3.
 Granitic laccolites, Aar massif.—Baltzer, A.
 — margin, Buttermere laccolite.—Rastall, R. H.
 — porphyry, Brazil.—Evans, J. W., 2.
 —, druse-minerals, Saxony.—Hess von Wichdorff, H.
 — rocks, Corsica.—Deprat, J., 3.
 Granitization of Huronian schists.—Bell, J. M., 2.
 Granodiorite, Cascade Mts.—Daly, R. A., 2.
 Granophyre, Cumberland.—Rastall, R. H.
 —, Mull (I. of).—Smythe, J. A.
 Granulite, Bengal.—Fermor, L. L., 5.
 —, Brazil.—Evans, J. W., 2.
 Graphic granite, composition of.—Bygdén, A.
 — iron, meteorite with.—Tassin, W., 2.
 — schists, Brittany.—Pussenot, —.
 Graphite, Ceylon.—Coomaraswamy, A. K., 2; *see also* UNITED STATES, Min. Resources.
 — crystals.—Königsberger, J., 3.
 — schists, Argyll.—Hill, J. B., 2.
 Graptolites, Silurian.—Barrois, C., 3; Elles, G. L., 2; Foureau, F.; Ruedemann, R.; Tørnquist, S. L.; Wood, E. M. R., 2.
 —, zoological system &.—Schepotieff, A.
 Graptolitic zones, Caermarthenshire.—Evans, D. C.
 —, Tarannon.—Wood, E. M. R.
 Graslitz (Bohemia).—Baumgartel, B.
 Grass Creek (Utah).—Lakes, A., 5.
 Grasse (Alpes-Maritimes).—Goby, P.
 Gratz (Styria).—Fabian, F.; Heritsch, F.; Vacek, M.
 Gravels, Alaska.—Purington, C. W.
 —, Alpes-Maritimes.—Guébbard, A., 5.
 —, Anhalt.—Cornu, F., 2.
 —, Berkshire.—Monckton, H. W.
 —, Bighorn Mts. & Black Hills (U.S.A.).—Mansfield, G. R.
 —, Essex.—Salter, A. E., 2 & 3.
 —, Finland Archæan.—Deecke, W., 3.
 —, Hainault & Picardy.—Rutot, A.
 —, Hanover.—Stappenbeck, R., 2.
 —, Magdeburg.—Blanchenhorn, M., 1 & 3; Wieggers, F., 1-3.
 —, Mitcham.—Hogg, A. J., 2.
 —, Prussia.—Philippi, E., 2.
 —, Reading Beds with quartzose.—White, H. J. O., 2.
 —, Schleswig-Holstein.—Gagel, C.; Stolley, E., 1 & 2.
 —, Sylt I.—Petersen, J.
 Graveley (Huntingdon).—Fisher, O., 3.
 Gravity, Baden.—Haid, M.
 —, geological problems &.—Hayford, J. F.
 —, Johannesburg.—Lehfeldt, R. A.
 —. *See also* Isostasy.
 Great Britain, coal-supplies.—Greenwell, A.; *see also* GREAT BRITAIN, Geol. Surv. & Home Office.
 Greece.—Eginitis, D.; Frech, F., 6 & 8; Négris, P., 2-5; Philippson, A.; Renz, C., 1, 2, & 4-6.
 Green Mts. (Vt.).—Dale, T. N.
 Greenland.—Belowski, M.; Bøggild, O. B.; Jensen, A. S.; *see also* GREENLAND, Komm. for Ledelsen, &c.

- Greensand, Lower, Drôme.—Jacob, C.
 —, —, Oxford.—Dawkins, C. G. E.
 —, —, Paris Basin.—Peron, A., 2.
 —, —. *See also* Aptian, Cretaceous,
&c.
 Grenzach (Basel).—Greppin, E.
 Gresten Beds, Austria.—Trauth, F.
Grewia.—Gutzwiller, A.
Griffithides.—Frech, F., 7.
 Griqua Town & Griqua-Town Series,
 Cape Colony.—Rogers, A. W., 2.
 Griqualand, West (Cape Colony). —
 Rogers, A. W., 2; Young, R. B.
 Grisons (Switzerland). — Høek, H. ;
 Schiller, W. ; Zøppritz, K.
 Gröden sandstone, Tyrol.—Ascher, E.
 Groete Creek (British Guiana).—Harris-
 son, J. B.
 Grorudite.—Karpinski, A.
 Grosnii (Archangel).—Ivanov, A. P.
 Grotto di Castro (Lago di Bolsena).—
 Orzi, D.
Gryphæa.—Pethce, J.
 Guanajuato (Mex.).—Bromly, A. H.
 Guapo (Trinidad).—Craig, E. H. C., 5.
 Guayaguayare (Trinidad).—Craig, E. H.
 C., 4.
 Guaynopita (Mex.).—Hovey, E. O., 4.
 Gubelinski Mt. (Ural). — Læwinson-
 Lessing, F., 7.
 Gudow (Prussia).—Gagel, C., 9.
Guebhardia.—Cossmann, M.
 Guelph Formation, New York.—Clarke,
 J. M., 7.
 — — —, Ontario.—Whiteaves, J. F.,
 4.
 Guinea, French.—*See* French Guinea.
 Guipuzcoa (Spain).—Launay, L. de.
 Gullane Hill (Haddington).—Young,
 B. R.
Gulo.—Hamy, E. T.
 Güntenstall (St. Gall).—Schmidt, C.,
 2.
Gymnotropites.—Hyatt, A.
 Gypsum, Essex soils.—Dymond, T. S.
 —, Hainault.—Mathieu, E., 2.
 —, India.—Fermor, L. L., 5; Holland,
 T. H., 2.
 —, Sussex.—Whitaker, W.
 —, Vesuvian dust.—Brauns, R., 4.
 —. *See also* UNITED STATES, Min.
 Resources.
Gyracanthides.—Woodward, A. S., 5.
Gyroceras.—Clarke, J. M., 7.
Gyrodus.—Heunig, E.
 Gyrolite.—Cornu, F., 3; Hussak, E.,
 2.
Gyrophlebia.—Handlirsch, A., 3.
Gyroleura.—Pâquier, V., 2.
 Gyulafahérvár (Transylvania).—Nopcsa,
 F., Baron (*fil.*); Roth von Telegd, L.,
 2.
 Haddingtonshire (Scotland).—Bailey, E.
 B., 2; Crampton, C. B.; Young, B.
 R.; *see also* Lothians.
Hadentomum.—Handlirsch, A., 3.
 Hadleigh (Essex).—Salter, A. E., 3.
 Hæmatite, Binn Valley.—Harre, R. W.
 —, crystals of. — Baumhauer, H. ;
 Nicolau, T., 2.
 —, Hesse.—Hatzfeld, C.
 Hainault (Belgium).—Anon., 32; Cornet,
 J., 1-3, 5, & 6; Douxami, H., 6;
 Greindl, Baron L.; Lohest, M.;
 Munck, E. de; Rutot, A., 4; Simoens,
 G.
 Haine R. (Belgium).—Cornet, J., 5.
Halimeda-deposits, New Hebrides, &c.
 —Chapman, F., 6.
 Halle (Merseburg).—Siegert, L.
Halmariphus.—Sinclair, W. J.
Halobia.—Renz, C., 2.
Halorites.—Hyatt, A.
 — — —, limestone, Himalayas.—Diener, C.,
 3.
 Hamburg (Germany).—Menzel, H., 2.
 Hameln (Hanover).—Grupe, O.
 Hamilton (Ont.).—Grant, C. C.
 — — — Group, Indiana.—Whitfield, R. P.,
 2.
Hamites.—Gussmann, —.
 Hamlimite, Minas Geraes.—Hussak, E.
 Hammam-R'hira (Algeria).—*See* R'hira
 Desert.
 Hampshire. — Cripps, F. S.; Jukes-
 Browne, A. J.
 Hanging valleys, Lake District.—Marr,
 J. E., 2; Russell, I. C.
 — — —, New Zealand.—Andrews, E.
 C., 2.
 — — —, Ticino.—Garwood, E. J.
 Hanover (Germany).—Bode, A.; Gagel,
 C., 3; Grupe, O., 2; Kœnen, A. von,
 1 & 2; Martin, J.; Menzel, H.;
 Prinz, G.; Schucht, F.; Stappenbeck,
 R., 2; Stille, H., 6; Wollemann, A.,
 3 & 4.
 Hanság (Hungary).—László, G. von, 2.
Haploptera.—Handlirsch, A., 3.
Haploparia.—Borisjak, A.
Haplophragmium.—Chapman, F., 5.
 Harbour Cone (Otago).—Boult, C. N.
 Harlton (Cambridge).—Bullen, R. A., 2.
 HARRIS, G. F., *Obit.*—*See* Anon., 9.
 Harz Mts. (Germany).—Bode, A., 1 & 2;
 Erdmannsdorffer, O. H.; Henkel, L.;
 Hornung, F.; Kaiser, E., 2; Koch,
 M.; Ochsenius, K.; Schleifenbaum,
 W.
 Hastings (Sussex).—Palmer, P. H.
 HATCHER, J. B., *Obit.*—*See* SCOTT, W.
 B.
 Hatfield (Herts).—Monckton, H. W.,
 2.
Hauericeras.—Wegner, T.
Hauerites.—Hyatt, A.
 'Haughland,' origin of a.—Coates, H.
Hausmannia.—Richter, P. B.
 Haute-Garonne (France).—Bertrand, L.
 Haute-Saône (France).—Drioton, C., 2.
 Hauterivian, Provence.—Kilian, W., 2.
 Haverfordwest (Pembroke).—Reed, F.
 R. C., 3.
 Havré District (Hainault).—Munck, E.
 de.

- Havre (Normandy). — Babeau, L. ; Dubois, A., 2.
- Hawfinch, fossil.—Ussher, R. J.
- Hawkesbury (Gloucester). — Winwood, H. H., 2.
- Hay District (Cape Colony).—Rogers, A. W., 2.
- Haystacks Mt. (Cumberland).—Rastall, R. H., 2.
- Hazaribagh (Bengal Pres.).—Fermor, L. L., 5.
- Headley (Surrey).—Young, G. W.
- Hebrides, Inner (Scotland).—Harker, A., 1, 3, & 4.
- Hecticoceras*.—Lee, G. W. ; Popovici-Hatzeg, V.
- Hedenstrœmia*.—Hyatt, A.
- Hederella*.—Clarke, J. M., 5.
- Heggin (Westphalia).—Schroeder, H., 2.
- Heiligenstadt (Bavaria).—Kœhne, W., 2.
- Heligmotoma*.—Oppenheim, P.
- Helium, mineral waters with.—Moureu, C.
- Helix*.—Bullen, R. A.
- Hellandite, Norway.—Brœgger, W. C.
- Helopora*.—Hennig, A.
- Hemicidaris* & *Hemipygus*.—Seguin, —.
- Hemimylæris* & *Heolus*.—Handlirsch, A., 3.
- Hérault (France). — Barrois, C., 3 ; Ferrasse, E. ; Martel, E. A., 8 ; Mazauric, F., 2 ; Miquel, J. ; Viré, A., 3.
- Herborn (Nassau).—Brauns, R.
- Hercynian folds, Belgium.—Simoens, G., 7.
- Hereford (England).—Thompson, W.
- Herrestad (Gothland).—Anon., 31.
- Herschelite.—Gonnard, F., 2.
- Hertfordshire.—Bonney, T. G. ; Lones, T. E. ; Monckton, H. W., 2.
- Herzegovina.—Katzner, F., 1 & 5.
- Hesse (Germany).—Chelius, C. ; Einecke, G. ; Freudenberg, W., 2 ; Hatzfeld, C. ; Klemm, G. ; Lang, O. ; Lepsius, R., 2 ; Steuer, A. ; Schopp, H. ; Schottler, W. ; Schroeder, H. ; Walther, J.
- Hessle (Yorks).—Crofts, W. H.
- Heterillina*.—Sci. lumburger, C.
- Heteroclypeus*.—Schubert, R. J.
- Heterodiadema*.—Gregory, J. W., 4.
- Heterofilicites*.—Bery, E. W., 2.
- Heteromeryx*.—Matthew, W. D.
- Heterostegina*.—Schubert, R. J.
- Hève, Cape la (Normandy).—Lemesnil, H. ; Noury, A., 2.
- Hexagonocarpus*.—Vinassa de Regny, P., 6.
- Hicoria* & *Hicoroides*.—Perkins, G. H.
- Hildoceras*.—Fucini, A., 4.
- Himalayas (Asia).—Diener, C., 3 & 5 ; Griesbach, C. L. ; Oestreich, K. ; Pilgrim, G. E., 3 & 4 ; Workman, F. B.
- Hindia*.—Whitfield, R. P., 2.
- Hipparion*-bed, Aurillac. — Verworn, M.
- Hipparion*-bed, Mt. Perrier. — Boule, M., 2 ; Stehlin, H. G.
- Hippopotamus*, pigmy.—Bate, D. M. A. ; Grandidier, G.
- Hippurites*.—Pethœ, J.
- Hitterœ (Norway).—Kitchin, S.
- Hjo (Gothland).—See SWEDEN, Geol. Surv.
- Hœrnesia*.—Gortani, M., 5.
- Hoh-Lumba glacier (Baltistan).—Workman, F. B.
- Hohenzollern (Germany).—Schuetze, E., 2.
- Hokitika (N.Z.).—Bell, J. M., 3.
- Holcostephanus*.—Kilian, W., 2.
- Holderness (Yorks).—Mathews, E. R. ; Reid, C., 3 ; Sheppard, T., 2.
- Holland.—See Netherlands.
- Holocephalina*.—Miquel, J.
- Hologlyptus*.—Lambert, J.
- Holstein (Prussia).—Gagel, C., 12 ; Wolff, W., 2 ; see also Schleswig-Holstein.
- Holstia*.—Hagstrœm, O. ; Holst, N. O.
- Holyoke (Mass.).—Emerson, B. K.
- Holzappel (Hesse).—Einecke, G.
- Holzminden (Brunswick).—Grupe, O.
- Homalonotus*.—Schwarz, E. H. L., 8.
- Homoioptera*.—Woodward, H., 2.
- Honduras (C. Am.).—Sapper, K.
- Honister Valley (Lake District).—Marr, J. E.
- Hope, Loch (Scotland).—Murray, Sir J., 2 ; Peach, B. N., 3.
- Hopeite.—Buttgenbach, H., 3.
- Hoplisidia*.—Cockerell, T. D. A.
- Hoplites*.—Baumberger, E. ; Kilian, W., 2 ; Uhlig, V., 2.
- Hoplopria*.—Harbort, E.
- Hör (Scania).—Jackson, R. T.
- Horiopleura*.—Pâquier, V., 2.
- Hormotoma*.—Clarke, J. M., 7.
- Hornblende, Alpes-Maritimes.—Roccati, A., 5.
- Hörnli (Baden).—Greppin, E.
- Hornsea (Yorks).—Sheppard, T.
- Horse, evolution of the.—Kenna, A. —, Tertiary.—Lambe, L. M., 2 & 3.
- Horsham (Sussex).—Anon., 33.
- Horst (Brunswick).—Harbort, E., 2.
- Hortalotarsus*.—Broom, R., 6.
- Hot springs, Wyoming.—Darton, N. H. ; see also Thermal waters.
- House Range (Utah).—Davis, W. M., 3.
- Howesia*.—Broom, R., 4.
- Huancayo (Peru).—Dueñas, E. I.
- Huaro-chiri, Lakes (Peru).—Stiles, A. I.
- Huebnerite.—Headden, W. P., 2.
- Huelva (Spain).—Wetzig, B.
- HUGHES, T. McK.—See Woodward, H.
- Humber District, reclaimed land. — Petch, T.
- Estuary. — Butterfield, A. E. ; Sheppard, T., 1-5.
- Valley (N.F.).—Howley, J. P.

- HUMBOLDT, F. H. A. VON.—See Hamy, E. T., 2.
 Hundes (Asia).—Oestreich, K.
 Hundesheim (L. Austria).—Toula, F., 2.
 Hundisburg (Magdeburg).—Wieggers, F. *Hungarites*.—Hyatt, A.
 Hungary.—Bœckh, J., 1 & 2; Drevermann, F.; Emszt, K., 2; Frech, F., 7; Gesell, A.; Kalecsinszky, A. von, 1 & 2; Kapolna, V. P. von; Pethœ, J.; Posewitz, T., 1 & 2; Prinz, G., 4; Reguly, E., 1 & 2; Siegmeth, C.; Timkó, E.; see also Geological Survey, Peat, Soils, Transylvania, &c.
 Huntingdonshire.—Fisher, O., 3.
 Hunton Bridge (Herts).—Lones, T. E.
 Hunyad Com. (Transylvania).—Papp, K. von.
 Huronian schists, Lake Superior.—Bell, J. M., 2.
 HUTTON, F. W., *Obit.*—See Anon., 10; Marr, J. E.
Hyæna.—Ussher, R. J., 2.
Hydnophyllia.—Felix, J.
 Hydrography, Swedish Arctic Expedition.—Hamberg, A., 4.
 Hydrozoa, Jurassic.—Deninger, K.
 Hymenoptera, Tertiary.—Cockerell, T. D. A.
Hypermegethes.—Handlirsch, A., 3.
Hypsocrius.—Springer, F., 2.
Hyracodon.—Lambe, L. M., 3.
 Hysteresis, rock-rigidity &.—Kusakabe, S.
 Iaen, Afon (Montgomery).—Wood, E. M. R.
 Iberg (St. Gall).—Hœk, H., 2.
 Ica, Prov. of (Peru).—Adams, G. I., 2; Fuchs, F. G.
 Ice, action of.—Hull, E., 3.
 —age, Scotland.—Geikie, J.; see also Glacial period.
 —cap, Antarctic.—Ferrari, H. T., 2.
 —caps, thickness of.—Gugenhan, M.; Lamplugh, G. W.; Schwarz, E. H. L., 3 & 4.
 —flood hypothesis, New Zealand.—Andrews, E. C., 3.
 —, lake-shores &.—Braun, G., 3.
 Iceland.—Braun, G., 2; Ferguson, H. G.; Knebel, W. von, 1 & 2; Knipovich, N.; Pjetursson, H., 1 & 2; Thoroddsen, Th.
 Icenian, East Anglia.—Harmer, F. W., 2.
Ichnium footprints, Permian.—Pařst, W.
Ichthyosarcolithes.—Pâquier, V., 2.
Ichthyosaurus.—Osburn, R. C.; Stolley, E., 9; Thyng, F. W.; Woodward, A. S., 4.
Idalina.—Schlumberger, C.
Idiomylacris.—Handlirsch, A., 3.
 Idria (Carniola).—Kossmat, F., 3; Mueller, A., 2.
 Ightham (Kent).—Bennett, F. J., 5.
 Iglófüred (Hungary).—Posewitz, T.
 Igneous breccia, Aberdeen.—Craig, E. H. C.
 —injection, mountain-building &.—Daly, R. A.
 —rocks, Alpes-Maritimes.—Gübbhard, A.
 —, Antarctic.—Andersson, J. G.
 —Drygalski, E. von, 2.
 —, Argentina.—Taubhäuser, F.
 —, Argyll.—Hill, J. B., 2.
 —, Armenia.—Oswald, F.
 —, classification of.—Lœwison-Lessing, F., 6.
 —, crystalline schists &.—Mennell, F. P., 1 & 5; Warth, H.
 —, Dutch East Indies.—Verbeek, R. D. M.
 —, Greenland.—Belowski, M.
 —, Hebrides.—Harker, A., 3 & 4.
 —, Hungary.—Emszt, K., 2.
 —, Linlithgow Hills.—Falconer, J. D.
 —, Manhattan I.—Julien, A. A.
 —, Massachusetts.—Sears, J. H.
 —, Mendips.—Reynolds, S. H.
 —, mineral crystallization in.—Vogt, J. H. L.
 —, New Zealand.—Bell, J. M., 3; Marshall, P., 3; Sollas, W. J., 3.
 —, origin of.—Ricciardi, L.
 —, Pennsylvania.—Bascom, F.
 —, Perthshire.—Bates, G. F.
 —, plasticity of.—Adams, F. D., 2 & 3.
 —, Queensland.—Jensen, H. I., 2.
 —, Rhenish Bavaria.—Burckhardt, K.; Duell, E.; Reis, O. M.
 —, silica of.—Johns, C.
 —, Somaliland.—Arsandanx, H.
 —, Spain.—Osann, A.
 —, Tasmania.—Twelvetrees, W. H., 1-3 & 7.
 —, Tian-Shan Mts.—Keidel, H., 2.
 —, Tyrol.—Block, J.
 —, Venetia.—Billows, E., 1 & 2; Giani, A.; Stark, M.
 —, See also Andesite, Basalt, Magmas, &c.
 Ijlotitic rocks, Kilimanjaro.—Lacroix, A., 9.
Iliona.—Whiteaves, J. F.
Illænus.—Reed, F. R. C., 4.
 Illinois (U.S.A.).—Anderson, N. C.; Udden, J. A.
 Ilmenite.—Solly, R. H.
 Imola (Emilia).—Sangiorgi, D., 1 & 2.
 Implements, flint & stone.—Blanchenhorn, M., 1 & 3; Dubois, A., 1 & 2; Foureau, F.; Hogg, A. J., 2; Johnson, J. P., 1-5 & 7; Outes, F. F.; Rutot, A., 1-4; Smith, V. A.; Steinmann, G., 2; Weinberg, R.; Wieggers, F., 1-3; Young, T.
 —, in *Hipparion*-beds, Cantal.—Verworm, M.

- Implements, machine-made.—Bennett, F. J.; Warren, S. H., 1 & 2.
 Inclusions, granitic.—Gilbert, G. K., 3; Roccati, A., 4.
 Index Generum et Specierum Animalium.—Bather, F. A.
 India, Geological Survey.—Holland, T. H., 3.
 —, mineral-production.—Holland, T. H., 2.
 —, river-gradients in.—Vredenburg, E.
 — (Central Provinces).—Datta, P. N.; Fermor, L. L.
 — (South).—Maclaren, J. M., 3.
 —. *See also* Coal, Earthquakes, Gold, Madras, Mines, &c.
 Indian Ocean.—Gardiner, J. S.
 — Terr. (U.S.A.).—Crane, W. R.
 Indiana (U.S.A.).—MacBeth, W. A.; Whitfield, R. P., 2.
 Indo-China (Asia).—*See* Cochin China, &c.
Indoceras.—Nætling, F.
 Indre (France).—Garde, G.; Launay, H. de.
 Indus Valley (India).—(Estreich, K.
 Ingatestone (Essex).—Salter, A. E.
 Ingleborough (Yorks).—Broderick, H.; Howarth, J. H.; Hughes, T. McK.
 Ingleton (Yorks).—Johns, C., 2.
 Ingramsdorf (Silesia).—Guerich, G.
 Inn Valley (Tyrol).—Suess, E.
Inoceramus.—Issel, A., 2; Petrascheck, W., 3; Wegner, T.
 — *labiatus*-beds, Schleswig-Holstein.—Gagel, C., 7.
 Insect-borings, Anhalt brown-coal.—Linstow, O. von.
 Insects, Baltic amber.—Zang, R., 1 & 2.
 —, Carboniferous.—Agnus, A. N.; Baldwin, W.; Handlirsch, A., 1 & 3; Woodward, H., 2.
 —, Cretaceous.—Handlirsch, A., 2.
 —, Permian.—Sellards, E. H.
 —, Tertiary.—Cockerell, T. D. A.; Meunier, F.
 Interference-figures, crystals &. — Joachim, H.
 Interglacial deposits, Scotland.—Geikie, J.; Jamieson, T. F.
 — —, Tyrol.—Hammer, W., 2.
 —, Germany (N.).—Gagel, C., 4 & 6; Jentzsch, A., 2 & 6; Menzel, H., 2.
 — problem.—Lamplugh, G. W., 3.
 Inveraray (Argyll).—Hill, J. B., 2; Peach, B. N., 2.
 Inverness-shire (Scotland). — Murray, Sir J., 3 & 4; Peach, B. N., 4.
Inyoites.—Hyatt, A.
 Iowa (U.S.A.).—Anderson, N. C.; Beyer, S. W.; Calvin, S.; Eckel, E. C.; Macbride, T. H.; Savage, T. E., 1 & 2; Schuchert, C., 2; Udden, J. A., 1 & 2; Wilder, F. A.; Williams, I. A.
Iphidella.—Walcott, C. D., 2.
 Ireland, African Wild Cat in.—Scharff, R. F., 2.
 —, drifts.—Lamplugh, G. W.
 —, geological papers on, 1903-1905.—Seymour, H. J.
 —, mines & quarries.—*See also* GREAT BRITAIN, Home Office, 1-3.
 — (N.E.).—Anon., 36; Christen, R.
 Irish Elk.—Lœnnberg, E.
 Iron, Alabama.—Bowron, W. M.
 —, Almeria.—Fircks, F.
 —, Argentina.—Bodeubender, G.
 —, Asia Minor.—Schmeisser, C., 2.
 — bog-ores.—Vogt, J. H. L., 2.
 —, Carniola.—Muellner, A., 1 & 2.
 —, Chile.—Herrmann, A.
 —, crystallography of.—Osmond, F.
 —, distribution of.—Leith, C. K., 2.
 —, Germany.—Bruhns, W.
 —, glauconite &.—Cayeux, L., 6.
 —, Hesse.—Hatzfeld, C.
 —, history of use of.—Brough, B. H.
 —, Hungary.—Treitz, P., 2.
 —, India.—Bose, P. N.; Holland, T. H., 2.
 —, Lake Superior.—Leith, C. K., 1 & 3.
 —, Liège.—Libert, J.
 —, magnetic.—Cayeux, L., 5.
 —, meteoric.—Berwerth, F., 2; Dewalque, G. J. G.; Mingaye, J. C. H.; Tassin, W., 2.
 —, Ontario.—Coleman, A. P.
 —, oolitic.—Brauns, R., 2; Cayeux, L., 6; Fourmarier, P., 3; Leuthardt, F.; Meunier, S., 4.
 —, Nassau.—Brauns, R.
 —, New Jersey.—Kuemmel, H. B., 2.
 —, New South Wales.—Hull, W. H.
 —, Nijni-Tagilsk.—Yakovlev, N.
 —, Norway.—Henriksen, G.
 —, Nova Scotia.—Gilpin, E., Jun.
 —, Peru.—Pfluecker, L., 2.
 —, Savoy.—Badoureaux, —.
 —, Seville.—Preiswerk, H., 2.
 —, Sweden.—Sjögren, O., 6; Stutzer, O., 1-4.
 —, Transylvania.—Papp, K. von, 2; Schafarzik, F.
 —, Urals.—Lœwinson-Lessing, F., 5.
 —, Vosges.—Mueller, F. T.
 —, Westphalia.—Brauns, R., 2.
 —. *See also* UNITED STATES, Min. Resources, &c.
 Iron-ore deposits, origin of.—Stutzer, O.
 Iron-shale, Coon Butte.—Farrington, O. C.
 Irondequoit Bay (N.Y.).—Fairchild, H. L., 2.
 Irrawaddy Series, Rangoon.—Pilgrim, G. E., 2.
 Irrigation, Orange R. Colony & Transvaal.—Wessels, J. W.
 Isenoumi Bay (Japan).—Kusakabe, S., 4.
 Iseo, Lake (Lombardy).—Cacciamali, G. B.
 Isère (Dauphiné).—Martel, E. A., 2.

- Iserlohn (Westphalia).—Schmidt, W. E.
 Islands of the Humber.—Butterfield, A. E.
 Isoletta (Campania).—Flores, E.
 Isostasy, geology &.—Haid, M.; Hayford, J. F.
 Issy-l'Évêque (Saône-et-Loire).—Gaubert, P.
 Isteiner Klotz (Baden).—Steinmann, G., 4.
 Istria (Austria).—Manek, F.; Marinitsch, J.
 Italy, land-slips in.—Almagià, R.
 —, volcanoes of Central.—Sabatini, V., 1 & 2.
 —, *See also* Permo-Trias, Piedmont, &c.
 Ithaca (N.Y.).—Williams, H. S., 2.
 Ithome, Mt. (Greece).—Négris, P., 4.
 Ivanić-Kloštar (Croatia).—Gorjanović-Kramberger, K.
 Ivrea (Piedmont).—Franchi, S.; Novarese, V., 1 & 2.
 Izium (Kharkov).—Borisyak, A., 2.
- Jade, Burma.—Bauer, M.
 —, India.—Holland, T. H., 2; La Touche, T. D., 3.
 JAMES, U. P., type-specimens.—Bassler, R. S.
 James Bay (Canada).—Dowling, D. B.
 Jamesonite.—Headen, W. P., 2.
 Jammu State (Kashmir).—Wright, C. M. P.
 Janosite.—Böckh, H., 3; Weinschenk, E., 2.
 Japan.—Kusakabe, S., 1-4; Rudolph, E., 2; Stigand, I. A., 2; Weigall, A. R.
 Jasper Co. (Iowa).—Williams, I. A.
 Jauja (Peru).—Dueñas, E. I.
 Java (D.E.I.).—Gaubert, P., 2; Stigand, I. A.
 Javenhalli schist-belt (Mysore).—Wetherell, E. W., 2.
 Jersey.—Gaubert, P., 3.
 Jerusalem (Palestine).—Blanckenhorn, M., 2.
 Jeschken Mts. (Bohemia).—Grænzer, J.
 Jet, origin of.—Spielmann, P. E.
 Jever (Hanover).—Martin, J.; Schucht, F.
 Joannites.—Hyatt, A.
 Johannesburg (Transvaal).—Lehfeldt, R. A.
 John-Day R. (Or.).—McClung, C. E.
 Joigny, Mt. (Savoy).—Moural, —.
 Joplin District (Mo.).—Bain, H. F.; Headen, W. P.; Siebenthal, C. E.
 Jordan River (Utah).—Richardson, G. B.
 Jornada del Muerto (New Mexico).—Keyes, C. R.
 Joste Valley (Norway).—Eyen, P. A.
 JOTTRAND, G., *Obit.*—*See* Kemna, A., 3.
- Joufia.—Snethlage, E.
 Jtam, Minjak (Sumatra).—Tobler, A.
 Jubulpore (India).—Fermor, L. L., 2.
 Juglans.—Perkins, G. H.
 Junction-beds, Northants Lias & Oolite.—Thompson, B., 2.
 Jura, French.—Fournier, E., 2, 3, 5, & 6; Lee, G. W.; Viré, A.
 —, Franconian.—Köhne, W., 1 & 2.
 —, Swiss.—Bakalov, P.; Baumberger, E.; Gutzwiller, A.; Leuthardt, F.; Schardt, H.; Schmidt, C., 3.
 Jurassic, Ain.—Lee, G. W.
 —, Alaska.—Stanton, T. W., 2.
 —, Albania.—Renz, C.
 —, Alpes-Maritimes.—Cossmann, M.; Kilian, W., 8; Koby, F.; Guébbard, A., 4; Maury, E.
 —, Alsace.—Förster, B.
 —, Archadinsk District.—Pavlov, A. V., 2.
 —, Austrian Alps.—Trauth, F.
 —, Baden.—Neumann, R.
 —, Bavaria.—Maas, O.; Wanderer, K.
 —, Berne.—Trösch, A.
 —, Bhután.—Pilgrim, G. E., 3 & 4.
 —, Buckinghamshire.—Davies, A. M.
 —, Cape Colony.—Du Toit, A. L., 4.
 —, Corea.—Yabe, H.
 —, Donetz Basin.—Borisyak, A., 2 & 3.
 —, Franche-Comté.—Girardot, A., 1 & 2.
 —, Germany (N.).—Schmidt, M.; Schröder, H.; Stille, H., 6; Stolley, E., 5.
 —, Gloucester.—Richardson, L., 6.
 —, Greece.—Renz, C., 6.
 —, Indre.—Garde, G.; Launay, H. de.
 — limestone with Triassic pebbles.—Stille, H.
 —, Madagascar.—Colcanap, —, 2; Lemoine, P., 2; Thévenin, A., 2 & 3.
 —, Malay States.—Newton, R. B.
 —, Montenegro.—Martelli, A., 3.
 —, Moravia.—Oppenheimer, J., 1 & 2.
 —, Morocco.—Gentil, L., 3.
 —, Moscow.—Borisyak, A., 3.
 —, Northants.—Thompson, B., 1-3.
 —, Oregon.—Ward, L. F.
 —, Oxfordshire.—Walford, E. A.
 —, Poitou.—Welsch, J., 3.
 —, Pyrenees.—Carez, L.
 —, Rhaetian Alps.—Seidlitz, W. von.
 —, Rumania.—Popovići-Hatzeg, V.
 —, Saratov.—Pavlov, A. V.
 —, Savoy.—Révil, J., 8.
 —, Somerset.—Richardson, L., 2.
 —, Texas.—Cragin, F. W.
 —, Tunis.—Lambert, J., 5; Pervin-quièrre, L., 2.
 —, Tuscany.—Fucini, A., 4.
 —, Umbria.—Mercial, G.; Parona, C. F., 3.

- Jurassic, Westphalia.—Stille, H.
 —, Wyoming.—Veatch, A. C.
 —, Yorkshire.—Herries, R. S., 1 & 3.
 —. *See also* Plants, Lias, &c.
 Jurica (Mex.).—Villasenor, F. F.
 JUSTEN, F., *Obit.*—*See* Woodward, H., 7.
 Jütland (Denmark).—Ravn, J. P. J.
Juvavites.—Hyatt, A.
 Kachkanar, Mt. (Perm).—Cherdantzev, A. A.
 Kačna-Jama (Istria).—Marinitich, J.
 Kadur (Mysore).—Slater, H. K.
 Kaiser-Wilhelm II. Land (Antarctic).—Drygalski, E. von, 2.
 Kaiser-Wilhelm Land (New Guinea).—Haupt, O.; Schmeisser, C.
 Kaiwekite, New Zealand.—Marshall, P., 3.
 Kakanui (Otago).—Thomson, J. A.
 Kalahari Desert (S.A.).—Wilson, W.
 Kalgoorlie (W. Austral.).—Lindgren, W., 3.
 Kalix Valley (Norrbotten).—Sjægren, O.
 Källsholm (Finland).—Wahl, W.
 Kalmar (Gothland).—*See* SWEDEN, Geol. Undersökn.
 Kaltbrunn (St. Gall).—Schmidt, C.
 Kampong Minjak (Sumatra).—Tobler, A.
 Kangra Valley (Himalayas).—Anon., 27; Hartley, W. N.; Middlemiss, C. S.; Oldham, R. D., 2.
 Kanhan R. (Central Provinces, India).—Datta, P. N.
 Kanin Peninsula (Archangel).—Ramsay, W., 2 & 5.
 Kansas (U.S.A.).—Beede, J. W.; Merrill, G. P., 4; Schuchert, C., 2; Slichter, C. S., 2; Smith, A. J.; Sternberg, C. H.; Wooster, L. C.
 Kaolin.—Cornu, F., 5; Spencer, G. F. H.
 Kärda (Gothland).—Anon., 32.
 Karelia (Finland).—Ramsay, W., 3.
 Karroo coal wash-outs, Transvaal.—Mellor, E. T., 2.
 — District (Cape Colony).—Young, A.
 — System, Africa (S.).—Broom, R., 3 & 5; Hatch, F. H., 1, 2, & 4; Mellor, E. T., 3; *see also* Permian, Trias, Reptilia, &c.
 Karst phenomena.—Berg, G.; Gnenther, S.; Katzer, F., 2.
 Karwendel Mts. (Tyrol).—Ampferer, O.
 Karystian stone.—*See* Chrysolite.
 Kashmir (India).—Koken, E., 3; Mallet, F. R.; Æstreich, K.; Wright, C. M. P.
 Kasli (Perm).—Snschinski, P. P.
 Katanga (Congo Free State).—Buttgensbach, H., 4 & 5; Cornet, J., 4.
 Katapleite, Gothland.—Tørnebohm, A. E., 2.
 Kazanad (Transylvania).—Papp, K. von.
 Keewatin (Canada).—Bell, R., 2 & 3; Dowling, D. B.; Whiteaves, J. F.
 Keisley (Westmorland).—Marr, J. E., 3.
 — Limestone.—Edwards, E. J.; Marr, J. E., 3.
 Kelheim (Bavaria).—Maas, O.
 Kelly (N. Mex.).—Brinsmade, R. B.
 Kent.—Bennett, F. J., 2 & 5; Burr, M.; Dawkins, W. B.; Leach, A. L.; Shenton, H. C. H.
 Kent's Cavern, Torquay.—Fletcher, J. H.
 Kentmere (Lake District).—Marr, J. E., 2.
 Kentucky (U.S.A.).—Ashley, G. H.; Ulrich, E. O., 2.
 Kenyite, Kilimanjaro.—Lacroix, A., 9.
 Kerch (Crimea).—Andrussov, N.; Senninski, K.
 Kerchenite.—Popoff, S.
 Kerosene.—*See* Petroleum.
 Kesselloch cave (Schaffhausen).—Nüesch, J.
 Kettleless (Yorks).—Herries, R. S., 1 & 3.
 Ketton (Rutland).—Thompson, B., 3.
 Keuper, Devon & Dorset.—Richardson, L., 7; *see also* Trias.
 Keweenaw Point (Mich.).—Lane, A. C., 4.
 Khar'kov Gov. (Russia).—Boris'yak, A., 2.
 Kharoumes Bay (Crete).—Bullen, R. A.
 Kiauchao (China).—Schmeisser, C.
 Kiirunavaara (Sweden).—Stutzer, O., 2 & 4.
 Kilimanjaro (E. Africa).—Finckh, L.; Lacroix, A., 9.
 Kilkenny (Ireland).—Brenan, G.
 Kilpatrick (Dumbarton).—Sjægren, O., 5.
 Kimberley (Cape Colony).—Beck, R., 2.
 Kimeridge Clay, Bucks.—Davies, A. M.
 —, Yorks.—Danford, C. G.
 Kimeridgian, France.—Lemoine, P., 5; *see also* Jurassic.
 Kingena.—Cossmann, M., 3.
 Kinloch (Scotland).—Murray, Sir J., 2.
 Kinzigite, Baden.—Rosenbusch, H.
 —, Piedmont.—Novarese, V., 2.
 Királyerdő (Transylvania).—Szontagh, T. von.
 Kirchberg (Moravia).—Wilschowitz, H.
 Kirchheim (Württemberg).—Pompeckj, J. F., 3.
 Kir'kbya.—Ulrich, E. O.
 Kirmington (Lincoln).—Stather, J. W.
 Kiskuhals (Hungary).—Treitz, P., 3.
 Kistelek (Hungary).—Treitz, P.
 Kitchen-middens, Co. Down.—Welch, R.
 Kitzbühl Alps (Tyrol).—Ohnesorge, T., 2.
 Klamath Mts. (Cal.).—Hershey, O. H.
 Kleinite.—Sachs, A., 2.
 Klepzig (Anhalt).—Linstow, O. von.
 Klerksdorp (Transvaal).—Jorissen, E.
 Klinge (Brandenburg).—Schroeder, H., 4.
 Klingenthal (Saxon Erzgebirge).—Baumgärtel, B.
 'Klippen,' Carpathian Mts.—Uhlig, V.
 —, Lncerne District.—Tobler, A., 2.
 —, St. Gall.—Hæk, H., 2.
 —, Vorarlberg.—Seidlitz, W. von.

- Klondike District (Nev.).—Spurr, J. E., 4.
- Klondyke (N.W. Canada).—Osgood, W. H.; Tyrrell, J. B.
- Klotz (Baden).—Steinmann, G., 4.
- Knin (Dalmatia).—Schubert, R. J., 5.
- Koblentz (Aargau).—Muehlberg, F., 2.
- Kodru Mts. (Transylvania).—Bæck, H.
- Kola Pen. (Russia).—Ivanov, A. P.
- Komati Poort (Transvaal).—Kynaston, H., 1, 3, & 6.
- Königsberg (Rh. - Bavaria). — Burekhardt, K.; Duell, E.; Reis, O. M., 3.
- Königsgnad (Hungary). — Drevermann, F.
- Koninekophyllum*.—Vaughan, A.
- КОНИСКА, K. von, *Obit.*—See Laube, G. C.
- Körös R. (Transylvania).—Pálffy, M. von; Papp, K. von; Rozlozsnik, P.
- Korye Valley (Transylvania).—Schafarzik, F.
- Kos I. (Asia Minor).—Plieninger, F.
- Kössein (Bavaria).—Luczizky, W.
- Kostej (Transylvania).—Kadić, O.
- Krassó (Transylvania).—Bættger, O.
- Krassó-Szörény (Transylvania).—Schafarzik, F.
- Kromdraai (Transvaal).—Hall, A. L., 4.
- Krugerdsorp (Transvaal).—Johnson, J. P., 2.
- Krušná-Hora beds (Bohemia).—Želižko, J. V.
- Kudsir (Hungary).—Halaváts, J.
- Kukur - Tagh or Kukurtuk Valley (Asia).—Keidel, H.
- Kukuruku Hills (S. Nigeria).—Parkinson, J., 5.
- Kulcsod (Hungary).—Timkó, E.
- Kunszentmiklós (Hungary).—Guell, W.
- Kuolajärvi (Finland).—Sundell, I. G.
- Kurtya (Transylvania).—Kadić, O.
- Kutorgina*.—Pack, F. J.
- Kvarnhalsmyren (Gothland). — Witte, H.
- Kvikkjøkk (Norrbotten).—Gavelin, A.
- Kyshtim (Perm).—Suschinski, P. P.
- Laaser Group (Ortler).—Hammer, W.
- Labradorite. —Cornu, F., 5; Depéret, C., 2; Gourdon, E.
- Laccolites, Aar massif. —Baltzer, A.
- , Piatigorsk. —Derwies, V. de.
- Laceno, Mte. (S. Italy). —Parona, C. F.
- Laevna*. —Cossmann, M., 3; Schmidt, M.
- Lad, Piz (Grisons). —Schiller, W.
- Ladoga, Lake (Russia). —Ramsay, W., 4.
- Lagoons, N. Prussia. —Jentzsch, A.
- Lahn R. (Hesse). —Einecke, G.
- Laibach (Carniola). —Kossmat, F., 1 & 3.
- Lake, boiling, Dominica. —Hovey, E. O., 4.
- ‘Lake Oxford.’ —Harmer, F. W., 4.
- Lake, Portuguese Pleistocene. —Hull, E., 2.
- Lake, ‘The Great’ (Tasmania). —Legge, W. V.
- Lake-basins, origin of. —Brunhes, J.
- Lake-District, English. —Edward, E. J.; Harker, A., 2; Marr, J. E., 2 & 3; Postlethwaite, J.; Rastall, R. H.
- Lake-ores, origin of. —Vogt, J. H. L., 2.
- Lake-shores, ice &. —Braun, G., 3.
- Lakes, Cleveland-Hills glacier. —Kendall, P. F.
- , formation of. —Collet, L. W., 2.
- , Prussia (N.). —Jentzsch, A., 1 & 3.
- , Scania. —Bobeck, O.
- , Swiss Alpine. —Bourcart, F. E.
- , Tibet. —Huntington, E.
- , Ticino. —Garwood, E. J.
- , See also Corries, Lochs, Tarns, &c.
- LAMARCK & PLAYFAIR, 1802. —Geikie, Sir A., 2.
- Lambayeque (Peru). —Adams, G. I.
- Lamellibranchiata, Carboniferous. —Etheridge, R. (*fil.*); Frech, F., 2 & 7; Hmd, W., 1 & 2; Michael, R., 2; Vinassa de Regny, P., 6; Ward, J.; Watson, D. M. S.
- , Cretaceous. —Ascher, E.; Bœhm, G., 2 & 3; Choffat, P.; Dawkins, C. G. E.; Frech, F., 5; Harbort, E., 1 & 2; Krumbeck, L.; Leriche, M., 5; Pâquier, V., 2; Pethœ, J.; Reis, O. M., 1 & 2; Sneathlage, E.; Wegner, T.; Woods, H.
- , Devonian. —Clarke, J. M., 5 & 6; Foureau, F.; Reed, F. R. C., 2; Schmidt, W. E.; Scupin, H.; Whitfield, R. P.
- , Jurassic. —Borisovak, A., 3; Cossmann, M., 2; Cragin, F. W.; Fucini, A.; Grenwall, K. A.; Newton, R. B.; Petrascheck, W., 3; Schmidt, M.
- , Permo-Triassic. —Gortani, M., 5.
- , Quaternary. —Arnold, R.; Jensen, A. S.
- , Silurian. —Whiteaves, J. F.
- , systematic species - determination of fossil. —Dacqué, E.
- , Tertiary. —Arnold, R.; Chautard, J.; Cossmann, M., 3; Depéret, C., 3; Diener, C., 4; Jukovski, E., 2; Oppenheim, P.; Pritchard, G. B.; Seninski, K., 2; Sokolov, N.; Wollemann, A., 3; Wright, A. M., 2.
- , Triassic. —Mariani, H.; Renz, C., 1 & 2; Schuetze, E.
- Lametas deposits, Nagpur. —Datta, P. N.
- Lamone (Emilia). —Toldo, G.
- Lamprophyre, Colorado syenitic. —Cross, W.
- Lancashire. —Baldwin, W., 1 & 2; Cope, T. H.; Davison, C., 4; Dickinson, J., 2; Marr, J. E., 2; Watson, D. M. S., 2.
- Lanceolites*. —Hyatt, A.

- Land, changes of level of.—Fisher, O.; Tarr, R. S., 4.
- Land-ice, thickness of.—Lamplugh, G. W.; Schwarz, E. H. L., 3 & 4.
- , *See also* Glacial Periods, Ice-caps, &c.
- Land-surfaces, Nord, &c., pre-Quaternary.—Simoens, G.
- Landelies (Hainault).—Lohest, M.
- Landenian, the term.—Leriche, M., 7.
- Landslips, Bavaria.—Reindl, J.
- , Savoy.—Carez, L., 2.
- , buildings &.—Van de Wiele, C., 2.
- , Italy.—Almagià, R.
- , La Hève.—Noury, A., 2.
- , Rhydney Valley.—Galloway, W.
- Lane End (Bucks).—White, H. J. O., 2.
- Languedoc (France).—Grossouvre, A. de; Haug, E., 4; Laromiguière, J.; Mazauric, F.; Miquel, J.; Toucas, A.; Viré, A., 3; *see also* Ardèche, Caverns, &c.
- Lansing (Kan.).—Williston, S. W.
- Lanza (Carnic Alps).—Vinassa de Regny, P., 6.
- Lanzarote (Canary Is.).—Sapper, K., 2.
- Lanzo Valley (Piedmont).—Mattirolo, E.; Roccati, A., 3.
- La Plata basin (S. America), sedimentary deposits.—Bravard, A.
- Lapland.—Borg, W.; *see also* Finland, &c.
- Laprugne (Allier).—Cuyat, J., 3.
- Lashio (Shan States).—La Touche, T. D., 4.
- Laterite, Mysore.—Slater, H. K.; Wetherell, E. W., 1 & 2.
- , origin of.—Maclaren, J. M., 2.
- Latium (Italy).—Orzi, D.
- Latrunculus*.—Oppenheim, P.
- Lauenburg District (Prussia).—Bertling, R.; Gagel, C., 4, 5, & 9.
- Lauumontite.—Reposi, E.
- Lauter R. (Rh.-Bavaria).—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
- Lava, Ætna.—Platania, G.
- , Antarctic.—Drygalski, E. von, 2.
- , Canary Is.—Sapper, K., 2.
- , Lake District cordierite.—Harker, A., 2.
- , Iceland.—Knebel, W. von, 2.
- , Vesuvius.—Brauns, R., 4; Lacroix, A., 7; Llord y Gamboa, R.; Quensel, P. D.
- Laval St. Roman (Gard).—Pellat, E.
- Lavernock (Glamorgan).—Richardson, L.
- Lavie torrent (Venetia).—Lorenzi, A.
- Lawsonite.—Termier, P., 3.
- Lavispira*.—Pethe, J.
- Laziali, Colli (Rome).—Moderni, P.
- Lazio (Rome).—Silvestri, A., 1 & 2.
- Lazulite.—*See* Azurite.
- Lead, Alsace.—Ungemach, —.
- , Asia Minor.—Freise, F.
- , Chile.—Herrmann, A.; San Roman, F. J.
- Lead, Colorado.—Purington, C. W., 2.
- , Germany.—Bruhns, W.; Einecke, G.; Hornung, F.
- , Kentucky.—Ulrich, E. O., 2.
- , Missouri.—Siebenthal, C. E.
- , New Mexico.—Brinsmade, R. B.
- , New South Wales.—Larcombe, C. O. G.; *see also* NEW SOUTH WALES, Dep. Mines.
- , Nigeria (S.).—Parkinson, J., 8.
- , nitrate of.—Gaubert, P., 5.
- , Savoy.—Badoureaux, —; Mariani, E., 3.
- , Shan States (N.).—Fermor, L. L., 5.
- , Tasmania.—*See* TASMANIA, Dep. Mines, 1-8.
- , Tennessee & Virginia.—Watson, T. L., 2.
- , Tyrol.—Krahmann, M.
- , Utah.—Boutwell, J. M.
- , Victoria.—Kitson, A. E.
- , Wisconsin.—Grant, U. S., 2; Purdue, A. H.
- , *See also* UNITED STATES, Min. Resources; & Galena, Silver, &c.
- Lebanon District (Syria).—Wright, G. F.
- Lecanites*.—Hyatt, A.
- Leckhampton Hill (Gloucester).—Richardson, L., 4.
- Leconteia*.—Hyatt, A.
- Leda*.—Ascher, E.; Cragin, F. W.; Harbort, E.
- Leeds (Yorks).—Hawkesworth, E.
- Leiacanthus*.—Stolley, E., 11.
- Leicestershire.—Bennett, F. W., 3 & 4; Hodson, G.; Stracey, B.
- LEIGHTON, T., *Obit.*—*See* Anon., 11.
- Leine Valley (Hanover).—Kænen, A. von.
- Leipzig (Saxony).—Hess von Wichdorff, H.
- Leitimor Peninsula (Ambon I.).—Verbeek, R. D. M.
- Lellingite, Tomsk.—Korotkov, —.
- Lemberg (Galicia).—Láska, W.
- Lemurs, Madagascar Quaternary.—Grandidier, G.
- Lena R. district (Siberia).—Samoilov, J., 2.
- Lenk (Valais).—Sarasin, C., 2.
- Lenne Slates, Westphalia.—Schmidt, W. E.
- LENNIER, G., *Obit.*—*See* Noury, A.
- Leoben (Styria).—Redlich, K. A.
- Leopoldia*.—Baumberger, E.
- Lepidocyclina*.—Cecchia-Rispoli, G., 3 & 4; Sacco, F., 4.
- Lepidodendron*.—Arber, E. A. N.; Foureaux, F.; Schwarz, E. H. L., 8.
- Lepidophyllum*.—Vinassa de Regny, P., 6.
- Leptastræa*.—Gregory, J. W., 3.
- Leptocalia*.—Newton, E. T.
- Lepton*.—Cossmann, M., 3.
- Leptophoca*.—True, F. W.
- Leptostrophia*.—Clarke, J. M., 5.

- Leptothyra*.—Oppenheim, P.
LESLEY, J. P., *Obit.*—See Chance, H. M.
 Lessebo (Gothland).—See SWEDEN, Geol. Undersökn., 2.
 Letmathe (Westphalia).—Schmidt, W. E.
 Leucite, pseudo.—Knight, C. W.
 Leucotephrites, Mte. Somma.—Lacroix, A.
 Leval-Trahegnies (Hainault).—Mathieu, E., 2.
 Levantian, S. Russia.—Andrussov, N., 2.
 Levyne, Færøe Is. & Skye.—Currie, J.
 Lewes (Sussex).—Dibley, G. E.
 Leydsdorp (Transvaal).—Tweddill, S. M.
 Leyse Valley (Savoy).—Kilian, W., 4.
 Lez-Fontaines (Nord).—Carpentier, A.
 Lherzolute, Piedmont.—Mattirolo, E.
 Lias, Apennines (Central).—Fucini, A.
 —, Austrian Alps.—Trauth, F.
 —, Brunswick.—Stolley, E., 3.
 —, Devon & Dorset.—Richardson, L., 7.
 —, Gloucestershire.—Richardson, L., 5 & 6; Upton, C.
 —, Greece.—Renz, C.
 —, Hanover.—Prinz, G.
 —, Luxembourg.—Blum, L.
 —, Moravia.—Oppenheimer, J., 2.
 —, Northants.—Thompson, B., 2.
 —, Somerset.—Richardson, L.
 —, Tuscany.—Fucini, A., 4.
 —, Umbria.—Merical, G.
 —, Yorkshire.—Herries, R. S., 1 & 3.
 —. See also Jurassic.
Libellulapis.—Cockerell, T. D. A.
 Libertad (Peru).—Adams, G. I., 3.
 Lich (Hesse).—Schottler, W.
Lichapyge & *Lichas*.—Reed, F. R. C., 4.
Liebea.—Gortani, M., 5.
 Liège (Belgium).—Destinez, P.; Dewalque, G. J. G., 3; Dorlodot, L. de; Fourmarier, P., 1 & 3; Greindl, Baron L., 3; Libert, J.; Lohest, M., 3; O'Connor, W.; Renier, A., 2.
 Liègne R. (Liège).—Libert, J.
 Life, origin of fossil.—Dickinson, J.
 Lignite, formation of.—Campbell, M. R.
 —, Nigeria.—Parkinson, J., 1 & 7.
 —, Panama.—Jukovski, E.
 —, Rocky Mts.—Ritter, E. A.
 —, Savoy.—Badoureaux, —; Douxami, H., 3; Vivien, J., 3.
 —, Vermont.—Perkins, G. H.
 Ligugé (Poitou).—Welsch, J., 3.
 Liguria (Italy).—Figari, L.; Franchi, S., 5; Issel, A., 2; Rosati, A., 1 & 2; Rovereto, G., 2; Sacco, F., 3 & 8.
 Lille (Nord).—Gosselet, J., 3; Laddrière, J., 1 & 2; Pagniez, —; Videlaine, —.
 Lima.—Cragin, F. W.; Fucini, A.; Pethæ, J.; Vinassa de Regny, P., 6.
 Lima (Peru).—Adams, G. I., 2; Stiles, A. I.
 Limber, Great (Lincoln).—Stather, J. W.
 Limburg (Belgian & Dutch).—Harmer, F. W.; Lohest, M., 4; Loric, J., 2.
 Lime, Essex soils.—Dymond, T. S.
 Limestone, Aberlady, Dunbar, & St. Monan's.—Crampton, C. B.
 —, algæ &.—Chapman, F., 6.
 —, Carboniferous lower series, Cannonock Chase.—Cockin, G. M.
 —, Carnic Alps, Devonian.—Scupin, H.
 —, crystalline, Ceylon. — Coomaraswamy, A. K., 2.
 —, granite-contact &, Arizona. — Crosby, W. O.
 —, Iowa.—Eckel, E. C.
 —, Lummaton Hill, Devonian. — Jukes-Browne, A. J., 5.
 —, New Jersey, white crystalline.—Kuemmel, H. B., 3.
 —, New South Wales, Permo-Carboniferous.—Chapman, F., 5.
 —, Purbeck ostracodal. — Chapman, F., 2.
 —, quartz-crystals in Carboniferous.—Mailieux, E.
 —, water from.—Martel, E. M., 9; Van den Brœck, E.
 —, Zebri Valley.—Ferro, A. A.
 Limmat thermal spring (Aargau). — Muehlberg, F.
Limnocardium.—Seninski, K., 2.
 Limonite, Arizona.—Reid, J. A.
Limopsis.—Pethæ, J.
 Limousin (France).—Glangeaud, P., 3; Welsch, J., 1-4.
Limulus Decheni.—Bœhm, J., 2.
 —, Jurassic.—Jackson, R. T.
 Lincolnshire.—Anon., 38; Hull, E.; Sheppard, T., 5; Stather, J. W.; Thompson, B., 3.
 Lindi (German East Africa).—Hecker, O.
Lingulella.—Pack, F. J.
 Linkvikskollen (Norway).—Brœgger, W. C.
 Linlithgow Hills (Scotland).—Falconer, J. D.
Linopteris. — Vinassa de Regny, P., 6.
Lioparia.—Lorenz, T., 2.
Liops.—Gidley, J. W.
Liostracus.—Lorenz, T., 2; Miquel, J.
Liotia.—Oppenheim, P.
 Lipari Is.—Wegner, T., 3.
 Liparite, Ambon.—Verbeek, R. D. M.
Liriodendron.—Berry, E. W., 2.
 Lisbon (Portugal).—Hull, E., 2.
 Litchfield (Conn.).—Hobbs, W. H., 3.
Lithandrena.—Cockerell, T. D. A.
Litharæa.—Felix, J.
Lithiotis.—Bœhm, G., 2 & 3; Frech, F., 5; Reis, O. M., 1 & 2.
Lithiotis-beds, Dalmatia.—Katzer, F., 6; Schubert, R. J., 3.

- Lithographic stone, Bavaria.—Maas, O.
 ———, Germany.—Bruhns, W.
 Lithomantidæ.—Handlirsch, A., 3.
Lithomantis.—Woodward, H., 2.
Lithostrotion.—Matley, C. A.; Stucken-
 berg, A.; Vaughan, A.
 Littoral deposits.—Barrell, J.
Littorina.—Ascher, E.
 ——— deposits, Sweden.—Adlerz, G.
 ——— sea, shore-lines in Gothland. —
 Munthe, H., 4.
Lituoala.—Chapman, F., 5.
Lituonella.—Schlumberger, C., 2.
 Livigno Valley (Lombardy). — Zœp-
 pritz, K.
 Livonia (Russia).—Weinberg, R.
 Llanbrynmair (Montgomery).—Wood,
 E. M. R.
 Llandovery & Llandeilo Beds.—Evans,
 D. C.
 Llangynog (Caermarthen).—Cantrill, T.
 C., 2.
 Llanvirn Beds, Caermarthen.—Evans,
 D. C.
 Lobo Mts. (Philippines).—Smith, W.
 D., 2.
 Lochs, Scottish freshwater.—Murray,
 Sir J., 1-4; Peach, B. N., 3-5.
 Lochy, Loch (Inverness).—Murray, Sir
 J., 4.
 Lodi (Lombardy).—Toldo, G., 3.
 Loire (France).—Gonnard, F.; Termier,
 P., 5.
 Lombardy (Italy).—Cacciamali, G. B.;
 Ferro, A. A.; Heim, A., 3; Mariani,
 E., 1 & 2; Reossi, E.; Termier, P.,
 2; Toldo, G., 3; Zœppritz, K.
 London Basin.—Treacher, Ll.
 ——— District, soils. — Woodward, H.
 B.
 Long I. (N.Y.).—Veatch, A. C., 2.
 Long, Loch (Argyll).—Hill, J. B., 2.
Longobardites.—Hyatt, A.
 Lons-le-Saunier (Jura).—Renauld, E.
Lonsdalia.—Vaughan, A.
 Looe (Cornwall).—Green, U.
 Lookout Mt. (Ala.).—Bowron, W. M.
 Loose Valley (Kent).—Bennett, F. J.,
 2.
Lophiotherium.—Stehlin, H. G., 2.
Lophophyllum.—Lorenz, T., 2.
Lophospira.—Donald, J.; Reed, F. R.
 C., 3.
 Lorraine, French, extension of Saar-
 brücken coalfield into.—Anon., 24;
 Bergeron, J.; Cavallier, C.; Laur, F.
 ———. See also Alsace-Lorraine.
 Los Is. (W. Africa).—Lacroix, A., 2.
 Lot (France).—Martel, E. A., 4, 7, &
 12; Viré, A., 3.
 Lot-et-Garonne (France).—Malbec, E.
 Lothian, East (Scotland).—Bailey, E.
 B., 2.
 ———, Mid. (Scotland).—Crampton, C.
 B.; Martin, Rob.; Young, B. R.
 Loughborough (Leicester). — Hodson,
 G.
 Loup Fork (Kan.).—Sternberg, C. H.
 Louvain (Belgium).—Leriche, M., 9;
 Velge, G.
 Louveigné (Liège).—Fourmarier, P., 3.
 Low Spen (Durham).—Lebour, G. A.
 Löwentin, Lake (E. Pruss.).—Braun, G.,
 3.
Loxococoncha.—Bullen, R. A.; Cappelli,
 G. B.
Loxonema.—Gortani, M., 5; Vinassa de
 Regny, P., 6.
 Lozère (France).—Carrière, G.
 Lucendro, Lake (Ticino).—Garwood, E.
 J.
 Lucerne, Lake (Switzerland).—Abrenz,
 P.; Tobler, A., 2.
Lucina.—Ascher, E.; Cragin, F. W.;
 Krumbeck, L.; Pethœ, J.
 Lucska (Hungary).—Gesell, A., 2.
 Ludlow (Salop).—Elles, G. L.
 Ludlowian, Cornwall.—Green, U.
 Lngano (Ticino).—Blumer, S.; Schmidt,
 C., 3.
 Luhatschowitz (Moravia). — John, C.
 von.
 Lui, Glen (Aberdeen).—Craig, E. H.
 C.
 Lummaton Hill (Devon). — Jukes-
 Browne, A. J., 5.
 Lüneburg (Hanover).—Gagel, C., 3;
 Wollemann, A., 1 & 4.
 Lunkány (Transylvania).—Schafarzik,
 F.
 Lunkaspri (Hungary).—Szontagh, T.
 von, 2.
 Luossavaara (Sweden).—Stutzer, O., 2.
 Luppiko (Finland).—Zemiachenski, P.
 Lussin, I. (Austria).—Waagen, L.
 Lutetian, Belgium & Paris Basin.—
 Leriche, M., 8 & 9; see also Ter-
 tiary.
 Luxembourg (Belgium).—Dorlodot, L.
 de, 2.
 Luxembourg, Duchy of.—Blum, L.;
 Dubois, E.; Duvigneaud, —.
 Luz (Hautes-Pyrenees).—See FRANCE,
 Serv. Carte géol.
 Lydenburg (Transvaal).—Hall, A. L.,
 2.
Lyginodendron.—Kidston, R.
 Lyne Regis (Dorset).—Richardson, L.,
 7; Woodward, A. S., 8; Woodward,
 H. B., 3 & 5.
 Lyonnais (France).—Lamothe, R. de,
 2.
 Lys R. (Picardy).—Gosset, J., 5.
Lytoceras.—Popovići-Hatzeg, V.
 McCALLEY, H., *Obit.*—See Smith, E.
 A.
 Macclesfield (Cheshire).—Pocock, T. I.
 Machadodorp (Transvaal).—Kynaston,
 H., 8.
Machomya.—Cossmann, M., 2.
Maclurea.—Lorenz, T., 2.
 Macquarrie I. (S. Pacific).—Marshall,
 P., 2.
Macrocypris.—Cappelli, G. B.
Macrodon.—Borisysak, A., 3.

- Macrotovus*.—Lorenz, T., 2.
 Macskamező (Hungary).—Kossmat, F., 2.
Mactra.—Andrussov, N.
 Madagascar.—Colcanap, —, 1 & 2;
 Couyat, J.; Degoutin, —; Fliche, P.; Gascuel, L.; Lemoine, P., 2 & 3;
 Thévenin, A., 2-4.
 Madeira R. (Brazil).—Evans, J. W., 2.
 Madras Pres. (India).—Berwerth, F., 2;
 Fermor, L. L., 4 & 5.
 Madre Sierra (Mex.).—Warwick, A. W.
 Madreporaria, Palæozoic.—Duerden, J. E.; see also Corals.
 Mæotic deposits, Russia (S.).—Andrussov, N.
 Maestrichtian, Haine Valley.—Cornet, J., 5.
 Maevatanana (Madagascar).—Colcanap, —, 2.
 Magdeburg (Prussia).—Blanckenhorn, M., 1 & 3; Linstow, O. von; Merteus, —; Richter, P. B.; Rinne, F.; Wieggers, F., 1-4.
 Magellau, Strait of (S. Am.).—Brain, J., 2.
 Magmas, granitic.—Milch, L.
 —, gravitative adjustment in.—Daly, R. A., 3.
 —, igneous (rock).—Calderón, S.; Coleman, A. P., 2; Daly, R. A., 3; Day, A. L., 2; Fleischer, A.; Read, T. T.
 —, minerals &.—Dœlter, C., 4; see also Minerals.
 Magmatic crystallization, order of.—Vogt, J. H. L.
 — segregation.—Coleman, A. P., 2; Hastings, J. B.
 — water & veins.—Spencer, A. C., 2; see also Veins.
 Magnesian Limestone, Durham.—Abbott, G.
 —, Yorkshire.—Dwerryhouse, A. R.
 —, —. See also Carboniferous.
 Magnesite, India.—Holland, T. H., 2.
 —. See also UNITED STATES, Min. Resources.
 Magnetic pyrites.—See Pyrrhotite.
 — sand, Ponza Is.—Galdieri, A.
 Magnetite, crystals of.—Weiss, P.
 —, Diélette.—Cayeux, L., 5.
 —, Sweden.—Stutzer, O., 2.
 —, Ural Mts.—Lœwinson-Lessing, F., 5.
 Main Reef, E. extension, Transvaal.—Henderson, J. McC., 2.
 Maine (U.S.A.).—Bastin, E. S.; Clapp, F. G.; Frazer, P.
 Maisemore (Gloucester).—Richardson, L., 6.
 Malachite, Tuscany.—Achiardi, G.
 Malacone.—Kitchin, S.
 Malay States (Asia).—Dunstan, W. R., 2; Newton, R. B.; Scrivenor, J. B.; see also PERAK, Mines Dep.
 Malbe, Mte. (Umbria).—Mercial, G.
 Malchite, Piedmont.—Preiswerk, H.
 Malone Mt. (Texas).—Cragin, F. W.
 Mamma (Shau States).—Simpson, R. R.
 Mammalia, Alaskan frozen.—Obalski, T.
 —, Bohemian fossil.—Bayer, F.
 —, Cretaceous.—Gilmore, C. W., 2.
 —, evolution of Tertiary.—Depéret, C.
 —, limb-modifications of aquatic.—Osborn, R. C.
 —, Permo-Triassic origin of.—Broom, R., 5.
 —, Quaternary.—Anderson, N. C.; Gidley, J. W., 1 & 2; Hamy, E. T.; Kendall, P. F., 2; Loenberg, E.; Mertens, —; Muorlon, M., 4; Munthe, H.; Redlich, K. A.; Reynolds, S. H., 2; Sacco, F.; Schröder, H., 2 & 4; Toula, F., 2; Obalski, T., 1 & 2; Udden, J. A.
 —, Tertiary.—Abel, O., 5; Ameghino, F., 2; Andrews, C. W.; Barbour, E. H.; Berry, E. W., 3; Coudon, T.; Flores, E.; Gilmore, C. W., 2; Lambe, L. M., 2 & 3; Loomis, F. B.; Matthew, W. D., 1 & 2; Neumayer, L.; Osgood, W. H.; Rautenberg, M.; Redlich, K. A.; Sinclair, W. J.; Stehlin, H. G., 1 & 2; Tournouër, A.
 —. See also Carnivora, Cetacea, &c.
 Mammalian deposits, Mt. Perrier.—Boule, M., 2; Stehlin, H. G.
 — teeth, Mesozoic.—Gidley, J. W., 3.
Mammia.—Handlirsch, A., 3.
 Mamoré R. (Brazil).—Evans, J. W., 2.
 Mammoth, Illinois & Iowa.—Anderson, N. C.; Udden, J. A.
 —, morphology of the.—Pfizenmayer, E.
 Mammoth Cave (Co. Cork).—Ussher, R. J., 2.
 Man, Berkshire prehistoric.—Shrubsole, O. A.
 —, Glacial Period &.—Sollas, W. J., 2.
 —, Lansing.—Williston, S. W.
 —, Quaternary.—Dastre, A.; Hogg, A. J.; Luehe, —; Reinhardt, L.; Rzehak, A.; Weinberg, R.
 —, Tertiary.—Gugenhahn, M.
 Man, I. of.—Reade, T. M., 4.
 Manchuria (Asia).—Krasser, F., 2;
 Zalesski, M., 2.
 Mandrikovka (Ekaterinoslav).—Sokolov, N.
 Manga Reva I. (Pacific).—Agassiz, A.
 Manganese, bog-ores.—Vogt, J. H., 2.
 —, Borneo.—Dieseldorf, A.
 —, Bosnia.—Katzner, F., 3.
 —, Germany.—Bruhns, W.
 —, Hungary.—Kossmat, F., 2; Papp, K. von, 2.
 —, India.—Fermor, L. L., 3; Holland, T. H., 2; La Touche, T. D., 3; see also INDIA, Dep. Mines.

Manganese, Nijni-Tagilsk. — Yakovlev, N.
 —. See also UNITED STATES, Min. Resources.
 Manganiferous iron-ore, Liège.—Libert, J.
 — sand, Piedmont.—Roccati, A.
 Manganite.—Fermor, L. L., 4; Manasse, E., 2.
 Mangoli I. (D.E.I.).—Bøhm, G., 4.
 Manhattan I. (N.Y.).—Hobbs, W. H., 1 & 2; Julien, A. A.; see also New York City.
 Manicaland (E. Africa).—Cuyat, J., 2.
 Manich R. (Prov. Don Cossacks). — Bogachev, V.
 Manitoba (Canada).—Bell, R., 3; Whitcaves, J. F.
 Manjak, Trinidad. — Craig, E. H. C., 2-7.
 Mann Range (N. Terr., S. Australia). — Basedow, H., 2.
 Man-sang & Man-se-le (Shan States). — Simpson, R. R.
 MANSEKGH, J., *Obit.*—See Marr, J. E.
 Mansfield (Notts).—Hickling, G.
 — (Victoria).—Woodward, A. S., 5.

MAPS.

AFRICA (NORTH).

EGYPT. Fayûm Depression. $\frac{1}{500,000}$.
 1906.—Andrews, C. W.
 MOROCCO. Atlas Mts. $\frac{1}{750,000}$. 1905.
 —Brives, A., 2.
 —, Plain of. $\frac{1}{1,000,000}$. 1905.—Brives, A.; & 1 inch = 55 miles. 1905.—Lemoine, P.
 TUNIS. Monastir. $\frac{1}{50,000}$. 1905. — Lamothe, R. de.

AFRICA (CENTRAL).

CONGO FREE STATE. Marungu. $\frac{1}{1,000,000}$. 1906.—Buttgenbach, H.

AFRICA (SOUTH).

CAPE COLONY. Geological Commission. Geological map, 1 inch = $3\frac{3}{4}$ miles. Sheet 1. Cape Town, Lady Grey, &c. 1906. See CAPE OF GOOD HOPE, Geol. Comm.
 —. Alexandria, Zuurberg Mt. 1 inch = $3\frac{3}{8}$ miles. 1905.—Rogers, A. W.
 —. Griqualand West, Hay Division, & Prieska. 1 inch = $12\frac{1}{2}$ miles. 1906.—Rogers, A. W., 2.
 —. Uniondale. 1 inch = 4.73 miles; Bokkeveld Mts. 1 inch = 7.1 miles. 1906.—Schwarz, E. H. L.

TRANSVAAL. Chunies Poort. 1 inch = 5000 feet. 1906.—Sawyer, A. R., 2.

—. Klerksdorp District. $\frac{1}{1,250,000}$. 1906.—Jorissen, E.
 —. Komati Poort Coalfield. $\frac{1}{2}$ inch = about 1 mile; 1 inch = 1 mile; 1 inch = 3 miles. 1906.—Kynaston, H.

TRANSVAAL. Lydenburg & Barberton Districts. 1 inch = $2\frac{1}{2}$ miles. 1906.—Hall, A. L., 2.

—. Marico R. District. 1 inch = 2.35 miles. 1906.—Holmes, G. G.

—. Middelburg District, Witbank. 1 inch = $2\frac{1}{2}$ miles. 1906.—Mellor, E. T., 4.

—. Pretoria District. 1 inch = $\frac{1}{2}$ mile. 1905.—Kynaston, H., 7.

—, Rustenburg, & Witwatersrand Districts. 1 inch = $2\frac{1}{2}$ miles. 1906.—Hall, A. L., 3.

— & Rustenburg Districts, Kromdraai, &c. 1 inch = $2\frac{1}{4}$ miles. 1906.—Hall, A. L., 4.

—. Vryburg, &c. 1 inch = $7\frac{1}{2}$ miles & 1 inch = 30 miles. 1906.—Holmes, G. G., 2.

AMERICA (NORTH).

ALASKA (*various*). 1906.—Brooks, A. H.

—. Seward Peninsula. Fairhaven Placer-District. 1 inch = 4 miles. 1905.—Moffit, F. H.

CANADA. Geological Survey. Geological Maps.

772 & 885. Yukon District, Klondyke goldfield. 1 inch = 2 miles. 1905.—McConnell, R. G.

775, 820, 824, 825, & 864. Ontario. Sudbury. 1 inch = 1 mile & 1 inch = 400 feet. 1905.—Barlow, A. E.

789. Ontario. Perth. 1 inch = 4 miles. 1905.—Ells, R. W.

791 & 792. British Columbia. West Kootenay. 1905.—McConnell, R. W. (No Report.)

801. Prince Edward Island. 1 inch = 16 miles. 1906.—Bell, R., 3.

808. Alberta, Blairmore-Frank coal-basin. 1 inch = 180 chains. 1906.—Bell, R., 3.

809. Ontario (S.W.) raised beaches. 1 inch = 24 miles. 1906.—Bell, R., 3.

812. Nova Scotia. Springhill coalfield. $1\frac{1}{2}$ inches = about 2 miles. 1906.—Bell, R., 3.

823. Assiniboia. Souris R. coalfield. 1 inch = $1\frac{1}{2}$ miles. 1906.—Dowling, D. B., 2.

833. Nova Scotia. Pictou coalfield. $3\frac{1}{2}$ inches = 1 mile. 1905.—Poole, H. S.

845. Alberta. Sheep Creek. 1 inch = about 2 miles. 1906.—Bell, R., 4.

852. Ontario. Arm and Vermilion iron-ranges and Lake Temagami. 1 inch = 40 chains. 1906.—Bell, R., 4.

874-876. Quebec. Montreal Island. 1 inch = 4 miles. 1905.—Adams, F. D., 4.

AMERICA (NORTH).

- CANADA. British Columbia. Purcell Mts. Moyie-River sills. $\frac{1}{64,000}$. 1906. —Daly, R. A., 3.
- Ontario. Lake Timiskaming cobalt-nickel-arsenic-silver. 1 inch = 1 mile. 1905.—Miller, W. G., 3.
- NEWFOUNDLAND. Gander R., & country between Despair Bay & Glenwood. 1 inch = 15.78 miles. 1906.—Millais, J. G.
- UNITED STATES. Reduction of S. G. LEWIS's map of 1809. 1 inch = 160 miles. 1906.—Merrill, G. P., 2.
- and part of Canada. 1 inch = 300 miles. 1906.—Chamberlin, T. C., 3.
- Geological Survey. Geologic Atlas. $\frac{1}{125,000}$. — Walcott, C. D. (Director).
107. Newcastle (Wy.). 1904.
 108. Edgemont (S. Dak.). 1904.
 109. Cottonwood Falls (Kan.). 1904.
 110. Latrobe (Pa.). 1904.
 111. Globe (Ariz.). 1904.
 112. Bisbee (Ariz.). 1904.
 113. Huron (S. Dak.). 1904.
 114. De Smet (S. Dak.). 1904.
 115. Kittanning (Pa.). 1904.
 116. Asheville (N. Car.). 1904.
 117. Casselton-Fargo (N. Dak.). 1905.
 118. Greeneville (Tenn.). 1905.
 119. Fayetteville (Ark.). 1905.
 120. Silverton (Colo.). 1905.
 121. Waynesburg (Pa.). 1905.
 122. Tablequah (Ind. Terr.). 1905.
 123. Elders Ridge (Pa.). 1905.
 124. Mount Mitchell (N. Car.). 1905.
 125. Rural Valley (Pa.). 1905.
 126. Bradshaw Mts. (Ariz.). 1905.
 127. Sundance (Wy.). 1905.
 128. Aladdin (Wy.). 1905.
 129. Clifton (Ariz.). 1905.
 130. Rico (Colo.). 1905.
 131. Needle Mt. (Colo.). 1905.
 132. Muscogee (Ind. Terr.). 1905.
 133. Ebensburg (Pa.). 1905.
 134. Beaver (Pa.). 1905.
 135. Nepesta (Colo.). 1906.
- ALABAMA. Cahaba coalfield. $1\frac{1}{2}$ inches = 1 mile. (Revised) 1905.—Smith, E. A., 2.
- ARIZONA. Clifton-Morenci District (*various*). 1905.—Lindgren, W., 4.
- Salt-River Valley. $1\frac{1}{4}$ inches = 2 miles. 1905.—Lee, W. T.
- CALIFORNIA. San Bernardino Valley. 1 inch = 1 mile. 1905.—Mendenhall, W. C., 5.
- COLORADO. Boulder District. 1 inch = 1 mile. 1905.—Fenneman, N. M., 2.

AMERICA (NORTH).

- UNITED STATES.
- COLORADO. Lower Clear Creek. 1 inch = 1 mile & $\frac{3}{4}$ inch = 2 miles. 1906.—Underhill, J.
- EASTERN STATES Water-supply (*various*). 1905.—Fuller, M. L., 4.
- IDAHO & MONTANA (*also* British Columbia). Purcell Mts., Moyie-River sills. $\frac{1}{64,000}$. 1906.—Daly, R. A., 3.
- IOWA. Benton Co. 1 inch = 2 miles. 1905.—Savage, T. E.
- Clinton Co. 1 inch = 2 miles. 1905.—Udden, J. A., 2.
- Emmet, Palo Alto, & Pocatontos Co., *each* 1 inch = 2 miles. 1905.—Macbride, T. H.
- Fayette Co. 1 inch = 2 miles. 1905.—Savage, T. E., 2.
- Jasper Co. 1 inch = 2 miles. 1905.—Williams, I. A.
- KENTUCKY. Cumberland-Gap coalfield. 1906.—Ashley, G. H.
- MARYLAND. Coalfields (*various*). 1905.—Clark, W. B.
- Baltimore Co. 1 inch = $2\frac{1}{2}$ miles. 1905.—Matthews, E. B., 2.
- MASSACHUSETTS. Boston District. Roxbury conglomerate. $1\frac{1}{2}$ inches = 2 miles. 1906.—Mansfield, G. R., 2.
- Essex Co. 1 inch = 1 mile. 1905.—Sears, J. H.
- Holyoke. 1 inch = 1 mile. 1905.—Emerson, B. K.
- & VERMONT. Taconic & Green Mts. 1 inch = $5\frac{1}{2}$ miles. 1905.—Dale, T. N.
- MICHIGAN. Arkona Beaches. 1 inch = 25 miles. 1906.—Taylor, F. B., 2.
- MISSOURI. Granby Area. 4 inches = 1 mile. 1906.—Buckley, E. R., 2.
- Moniteau Co. 1 inch = $1\frac{1}{2}$ mile. 1906.—Van Horn, F. B.
- NEW JERSEY. Peat-deposits. 1 inch = 5 miles. 1906.—McCourt, W. E.
- Sussex Co. white-limestone area. 1 inch = 1 mile. 1906.—Kuettel, H. B., 3.
- NEW MEXICO. Jornada del Muerto. 1 inch = 12 miles. 1905.—Keyes, C. R.
- NEW YORK. Manhattan I. 1 inch = 2 miles. 1905.—Hobbs, W. H.
- ———. 1 inch = $\frac{1}{2}$ mile. 1906.—Julien, A. A.
- Long I. (*various*). 1906.—Veatch, A. C., 2.
- Portage Division. 1 inch = 15 miles. 1904.—Clarke, J. M., 6.
- NEVADA. Tonopah District (*various*). 1905.—Spurr, J. E., 2.
- OKLAHOMA TERRITORY. 1 inch = 20 miles; Wichita Mts. 1 inch = $4\frac{1}{4}$ miles. 1905.—Gould, C. N.

AMERICA (NORTH).

UNITED STATES.

PENNSYLVANIA. Elders Ridge. 1 inch=1 mile. 1905.—Stone, R. W.
— Franklin Co., South Mountain. 1 inch=3 miles. 1906.—Stose, G. W.

TEXAS (N.). 1 inch=13 miles. 1906.—Gould, C. N., 2.

VERMONT (*various*). 1905.—Marsters, V. F.

WASHINGTON. Castle Peak. $\frac{1}{115,000}$; & Similkameen batholiths, $\frac{1}{120,000}$. 1906.—Daly, R. A., 2.

WISCONSIN (South-Eastern). Drift (*various*). 1904 & 1906.—Alden, W. C.

— Zinc & Lead-districts (*various*). 1906.—Grant, U. S., 2.

WYOMING, &c. Yellowstone National Park (*various*). 1904.—Hague, A.

AMERICA (CENTRAL).

HONDURAS. $\frac{1}{1,000,000}$. 1905.—Sapper, K.

NICARAGUA, COSTA RICA, & PANAMA. $\frac{1}{750,000}$; & soils, $\frac{1}{4,000,000}$. 1905.—Sapper, K.

MEXICO. Chiapas & Tabasco. $\frac{1}{1,000,000}$. 1905.—Beese, E.

— Chihuahua, Guaynopita (*various*). 1906.—Hovey, E. O., 5.

— Tamaulipas, San José. 1 inch=1 mile. 1906.—Kemp, J. F., 5.

— Xalapazcos. $\frac{1}{40,000}$. 1905.—Ordoñez, E.

WEST INDIES. Trinidad. Oilfields, southern anticline. 1 inch=1 mile. 1905.—Craig, E. H. C., 2.

— San Fernando manjak-field. $6\frac{3}{8}$ inches=1 mile. 1906.—Craig, E. H. C., 7.

AMERICA (SOUTH).

ARGENTINA. Sierra de Cordoba. $\frac{1}{1,000,000}$. 1905.—Bodenbender, G.

BRAZIL. Ceará. $\frac{1}{1,120,000}$. 1906.—Katzer, F., 4.

BRITISH GUIANA. Essequibo & Cuyuni Rivers. 1 inch=2 miles. 1905.—Harrison, J. B.

PERU. Prov. Celendin. Purre coal-field. $\frac{1}{50,000}$. 1905.—Santolalla, F. M.

— Prov. Ica. $\frac{1}{50,000}$. 1905.—Fuchs, F. G.

ANTARCTIC REGIONS.

Graham Land, $\frac{1}{50,000,000}$; Lands round the Erebus & Terror Gulf, $\frac{1}{1,000,000}$; & Islands round Admiralty Sound, $\frac{1}{200,000}$. 1906.—Anderson, J. G.

EUROPE.

ALPS, Carpathian Mts., &c. $\frac{1}{4,000,000}$. 1906.—Van de Wiele, C., 3.

ALSACE. Upper Rothau. $\frac{1}{25,000}$. 1905.—Ferster, B.

EUROPE.

AUSTRIA-HUNGARY. Carniola. Laibach. $\frac{1}{75,000}$. 1904.—Kossmat, F.

— Galicia. Tarnobrzeg. 1 inch=1½ miles. 1905.—Friedberg, W. S.

— Hungary. Bihar Megye. $\frac{1}{25,000}$. 1906.—Papp, K. von.

— —. Ecsedi Láp. $\frac{1}{17,500}$. 1906.—Guell, W., 3.

— —. Gynlafehérvár, Déva, Ruszkabánya, and the Rumanian frontier. $\frac{1}{500,000}$. 1905.—Nopcsa, F., Baron (*fil.*).

— —. Hunyad Com., Alvacza. (No scale.) 1905.—Papp, K. von.

— —. Transylvania. Karics-Czebe gold-district. 1 inch=1½ miles. 1906.—Papp, K. von, 3.

— —. Vag R. & Little Danube District: soils. 1½ inches=about 1 mile. 1906.—Horusitzky, H., 2.

— — & Rumania. Eastern Carpathian Mts. 1 inch=9 miles. 1904.—Mrazec, L.

— —. Moravia. Gobitschau. $\frac{1}{15,000}$. 1906.—Kretschmer, F.

— —. Styria. Gratz. Mur & Stiefing Rivers: Miocene. $\frac{1}{55,000}$. 1906.—Fabian, K.

— —. Tyrol. $\frac{1}{500,000}$. 1906.—Rothpletz, A.

— —. Ortler-Brenner District. $\frac{1}{500,000}$. 1905.—Termier, P., 2.

— —. Vienna. $\frac{1}{75,000}$. 1906.—Schaffer, F. X., 2.

BADEN. Geologische Landesanstalt. Geologische Karte. $\frac{1}{25,000}$.

22. Ladenburg. 1905.—Thue-rach, H.

54. Kurnbach. 1905.—Schnar-renberger, K.

108. St. Peter. 1906.—Schnar-renberger, K.

132. Bonndorf. 1906.—Schalch, F.

BELGIUM. Campine. $\frac{1}{100,000}$. 1906.—Lohest, M., 4.

— —. Liège. Lienne R. manganese-iron mines. $\frac{1}{20,000}$. 1906.—Libert, J.

BULGARIAN DOBRUDSHA. $\frac{1}{500,000}$. 1906.—Launay, L. de, 2.

CROATIA & SLAVONIA. Zone 23, Col. XV. Ivanić Kloštar i Moslavina. $\frac{1}{75,000}$. 1906.—Gorjanović-Kramberger, K.

FINLAND. Kuopio & Viborg Govs. $\frac{1}{1,000,000}$. 1902.—Frosterus, B.

— —. Onega - Ladoga Isthmus (Northern). 1 inch=17 miles (two maps). 1906.—Ramsay, W., 4.

— —. Viborg Gov. (Southern). $\frac{1}{1,000,000}$. 1902.—Ramsay, W.

— — (Arctic). Lapland. $\frac{1}{400,000}$. 1903.—Borg, V.

EUROPE.

- FRANCE. Service de la Carte géologique. Carte géologique détaillée de la France. $\frac{1}{50,000}$. Aug. M. Lévy, (Directeur).
6. Montreuil-sur-Mer, par J. Gosselet. 1906.
58. Morlaix, par C. Barrois. 1906.
165. Ussel, par A. de Launay, P. Gautier, Aug. M. Lévy, & A. Lacroix. 1906.
200. Gap, par E. Haug, W. Kilian, P. Lory, P. Termier, & D. Martin. 1906.
219. Albi, par G. Vasseur, J. Blayac, J. Replin, J. Bergeron, & — Dereims. 1904.
251. Luz, par A. Bresson & L. Carez. 1906.
- Alpes-Maritimes. St. Jean Peninsula & Villefranche. $\frac{1}{25,000}$. 1905.—Maury, E., 2.
- Meurthe-et-Moselle, &c. $\frac{1}{500,000}$. —Cavallier, C.
- Nord. Bavai. $\frac{1}{40,000}$. 1905.—Ladrière, J., 2.
- Normandy. Bagnoles. $\frac{1}{100,000}$. 1906.—Launay, L. de.
- Picardy. Aa R. 1 inch = 5 miles. 1905.—Briquet, A., 3.
- Poitou. $\frac{1}{600,000}$. 1905.—Welsch, J.
- Savoy. Coalfields. $\frac{1}{1,000,000}$. 1902.—Badoureaux, —.
- Plateau des Déserts. $\frac{1}{50,000}$. 1899.—Douxami, H., 10.
- Valloire Valley. 1 inch = about $1\frac{1}{2}$ miles. 1899.—Kilian, W., 10.
- Tarn. Albi coal-basin. $\frac{1}{80,000}$. 1905.—Laromiguière, J.
- & BELGIUM. Paris Basin and Louvain: Lutetian deposits. 1 inch = 16 miles. 1906.—Leriche, M., 9.
- GERMANY. $\frac{1}{4,000,000}$. 1906.—Bruhns, W.
- BADEN. Geisingen, Wartenberg. $\frac{1}{10,000}$. 1906.—Becker, E., 2.
- BAVARIA. Fichtelgebirge. Weissenstadt tin-deposits. 1 inch = about 2 miles. 1906.—Schmidt, A.
- Regenstauf - Bodenwöhrerbucht. 1 inch = 1 mile. 1906.—Wanderer, K.
- BRANDENBURG. Berlin-Magdeburg moraines. $\frac{1}{900,000}$. 1906.—Linstow, O. von, 2.
- HANOVER. St. Andreasberg. $\frac{1}{5,000}$. 1905.—Bode, A.
- Süll-Berg. $\frac{1}{25,000}$. 1905.—Stille, H., 6.
- HARZ Mts. Brocken massif. $\frac{1}{100,000}$. 1906.—Erdmannsdorff, O. H.
- Elbingerode. $\frac{1}{4,000}$. 1906.—Schleifenbaum, W.
- Röstberge. 1 inch = 90 yards. 1906.—Kaiser, E., 2.

EUROPE.

- GERMANY.
- HESSIE. Fachingen a. d. Lahn. 1 inch = about 1 mile. 1906.—Hatzfeld, C.
- HESSIE-NASSAU. Holzappel. $\frac{1}{44,000}$. 1906.—Einecke, G.
- MECKLENBURG. Neuenkirchen Lake. $\frac{1}{100,000}$. 1905.—Bartling, R.
- MERSEBURG. Halle-Weissenfels. $\frac{1}{175,000}$. 1906.—Siegert, L.
- PRUSSIA (W.). Braunsrode Senonian. $\frac{1}{25,000}$. 1906.—Jentsch, A.
- SCHAUMBURG-LIPPE. Cretaceous Basin. $\frac{1}{250,000}$. 1905.—Harbort, E.
- WESTPHALIA. Büren. $\frac{1}{75,000}$. 1905.—Stille, H., 6.
- Iserlohn & Letmathe. $\frac{2}{3}$ inch = 1 mile. 1905.—Schmidt, W. E.
- WÜRTEMBERG. Stuttgart (*various*). 1906.—Gugenhan, M., 2.
- ITALY. Bolsena District, Lake. Grotte di Castro. $\frac{1}{50,000}$. 1906.—Orzi, D.
- —. $\frac{1}{100,000}$; & Mte. Cimino. $\frac{1}{100,000}$. 1904.—Sabatini, V.
- Lombardy. Chiasso & Breggia R. $\frac{1}{75,000}$. 1906.—Heim, A., 3.
- Piedmont. Lanzo. $\frac{1}{100,000}$. 1905.—Mattiolo, E.
- Scrvia Valley & Turin Hills, both $\frac{1}{100,000}$. 1906.—Sacco, F., 5.
- Rome. Tiber, &c. (*various*). 1906.—Angelis d'Ossat, G. de, 2.
- Venetia. Belluno District. Glaciation at Fadalto and Valmareno. $\frac{1}{50,000}$. 1905.—Toniolo, A. R.
- Recoaro-Schio Railway. $\frac{1}{75,000}$. 1906.—Maddalena, L.
- Vesuvius. $\frac{1}{125,000}$. 1906.—Wegner, T., 2.
- MONTENEGRO, &c. $\frac{1}{20,000}$. 1904.—Vinassa de Regny, P.
- RHENISH BAVARIA. Potzberg & Königsberg District. $\frac{1}{25,000}$. 1906.—Burekhardt, K.; & $\frac{1}{3,000,000}$. 1906.—Reis, O. M.
- RUSSIA, Arctic. Kanin Peninsula. 1 inch = 26 miles. 1904.—Ramsay, W., 5.
- Caucasus (N.). Laccolite-hills (*various scales*). 1905.—Derwies, V. de.
- Kharkov. Izium & N.W. Donetz Basin. 1 inch = about $12\frac{1}{2}$ miles. 1905.—Borislyak, A.
- (South). Black & Caspian Seas Maotic Deposits. 1 inch = 40 miles. 1905.—Andrussov, N.
- Urals (Central). Perm. Nijni-Tagilsk. 1 inch = nearly 3 miles. 1904.—Krasnopolski, A.

EUROPE.

SAXONY. Plauen coalfield, Zauckeroede. $\frac{1}{4,000}$ 1906.—Hartung, H.

SERVIA & TURKEY. $\frac{1}{1,200,000}$ 1904.—Cvijić, J.

SPAIN. Andalusia. Almeria. $\frac{1}{600,000}$ 1906.—Fircks, F. von.

— Guipaczcoca. Cestona. $\frac{1}{100,000}$ 1906.—Launay, L. de.

GREAT BRITAIN AND IRELAND.

BRITISH ISLES. Geological Survey. 1 inch = 25 miles. 1906.—See GREAT BRITAIN, Geol. Surv.

ENGLAND AND WALES. Geological Survey. 1-inch geological map. N. s. Sheet 110. Macclesfield (Drift). Colour-printed. 1906.—Pocock, T. I.

— N. s. Sheet 123. Stoke-upon-Trent (Solid). Colour-printed. 1906.—Gibson, W.

— N. s. Sheet 326 & 340. Sidmouth (Drift). Colour-printed. 1906.—Woodward, H. B., 4.

— N. s. Sheet 332. Bognor (Drift). Colour-printed. 1905.—Reid, C.

— N. s. Sheet 334. Eastbourne (Drift). Colour-printed. 1905.—Ussher, W. A. E., 2.

— N. s. Sheet 357 & 360. Isles of Scilly (Drift). Colour-printed. 1906.—G. Barrow.

— London Soils. 1 inch = 4 miles. 1906.—Woodward, H. B.

— Caermarthenshire (Western). 1 inch = 1 mile. 1906.—Evans, D. C.

— Llangynog. 3 inches = 1 mile; & enlarged plan of Capel Bethesda. 6 inches = 1 mile. 1906.—Cantrill, T. C., 2.

— N. Staffordshire coalfield. 1 inch = 3 miles. 1905.—Gibson, W.

— Cumberland. Ennerdale, Buttermere, & Wastwater. 1 inch = 2 miles; & Burtness Combe. 3 inches = 1 mile. 1906.—Rastall, R. H.

— Cornwall. Helford Basin. 1 inch = 1 mile. 1906.—Hill, J. B.

— Devon. Two sheets. 1 inch = 4 miles. 1906.—Ussher, W. A. E.

— Lummaton Hill. 6 inches = 1 mile. 1906.—Jukes-Browne, A. J., 5.

— Dorset. Isle of Purbeck. 1 inch = $2\frac{1}{3}$ miles. 1906.—Strahan, A.

— Isle of Wight. 1 inch = about 5 miles. 1905.—Leriche, M., 3.

— Lake District. 1 inch = 5 miles. 1906.—Postlethwaite, J.

EUROPE.

GREAT BRITAIN AND IRELAND.

ENGLAND AND WALES. Westmorland. Keisley. $17\frac{1}{2}$ inches = 1 mile. 1906.—Marr, J. E., 3.

— London Basin. $1\frac{1}{2}$ inches = 5 miles. 1906.—Treacher, Ll.

— Shropshire. Ludlow District. 2 inches = 1 mile. 1906.—Elles, G. L.

— Somerset. Ebbor Rock. 3 inches = 1 mile. 1906.—Sibly, T. F. ENGLAND, Picardy, & Westphalia. Coalfields. $\frac{1}{300,000}$ 1904.—Hermery, J.

IRELAND. Antrim & Down. 1 inch = 4 miles. 1906.—Anon., 36.

— Co. Dublin. Coast at Rush. 3 inches = 1 mile, & 1 inch = about 400 feet. 1906.—Matley, C. A.

SCOTLAND. Geological Survey. 1-inch map. Sheet 37. Inveraray. 1906.—Peach, B. N., 2.

— Dumfriesshire. Canonbie coalfield. 1 inch = $\frac{1}{2}$ mile. 1905.—Peach, B. N., 6.

— Haddingtonshire. Port Seton. $1\frac{1}{2}$ inches = 1 mile. 1905.—Bailey, E. B., 2.

— Linlithgowshire. $1\frac{1}{10}$ inches = 1 mile. 1905.—Falconer, J. D.

— Perthshire. Atholl. Tay-River terraces, Ballinluig. 3'35 inches = 1 mile. 1906.—Coates, H.

— Rum (I. of). Ashval & Sgùrran-Gillean. 1 inch = $\frac{1}{2}$ mile. 1905.—Harker, A.

— Sutherland. Loch Borolan. 1 inch = 1 mile. 1906.—Shand, J.

GREENLAND. Kommissionen for Ledelsen af de geologiske og geografiske Undersøgelser i Grønland. Kort over Grønland. $\frac{1}{2,000,000}$ In 4 sheets. Topographical. Copenhagen. 1906.

ICELAND. $\frac{1}{750,000}$ 1906.—Thoroddsen, Th.

SWEDEN. Geological Survey. Ser. Aa, No. 120. Gothland. Falköping. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—H. Munthe & W. Johnson.

— Ser. Aa, No. 125. Tidaholm. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—H. Munthe.

— Ser. Aa, No. 126. Ankarsrum. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—F. Svenonius.

— Ser. Aa, No. 130. Vadstena. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1905.—A. Blomberg.

— Ser. Aa, No. 131. Gallö. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—A. Blomberg.

— Ser. Aa, No. 132. Hjo. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—A. Blomberg.

EUROPE.

- SWEDEN. Geological Survey, Ser. Aa, No. 133. Vimmerby. $\frac{1}{50,000}$ & $\frac{1}{200,000}$ (in text). 1906.—E. Svedmark.
- — —. Ser. A, 1a, No. 5. Gothland. Lessebo-Kalmar. $\frac{1}{500,000}$. 1906.
- H. Hedström & C. Wiman. 1906.
- — —. Dannemora, Grängesberg, and other iron-ore districts (*various*). 1906.—Sjægren, O., 6.
- — —. Gothland. Göteborg. Billingen, Mt. $\frac{1}{200,000}$. 1906.—Munthe, H.
- SWITZERLAND. Bernese Oberland (*various*). 1906.—Baltzer, A., 2.
- — —. Glarus Alps. $\frac{1}{750,000}$. 1905.—Heim, A.
- — —. Grisons. Engadin, Lower, $\frac{1}{500,000}$ and Piz - Lad Group, $\frac{1}{50,000}$. 1906.—Schiller, W.
- — —. Engadin, Upper. Albulapass, &c. $\frac{1}{50,000}$. 1906.—Zœpritz, K.
- — —. Plessur Alps. $\frac{1}{50,000}$. 1906.—Hœk, H.
- — —. Neuchâtel. Sources of the Areuse R. $\frac{1}{200,000}$. 1906.—Schardt, H.
- — —. St. Gallen. Walensee, Mattstock, Gulmen District. $\frac{1}{50,000}$. 1906.—Heim, A., 5.
- — —. Ticino. Piora Lakes, $\frac{1}{2,240}$; & St. Gotthard Lakes, $\frac{1}{50,000}$. 1906.—Garwood, E. J.
- — —. Valais. Lenk - Adelboden. $\frac{1}{50,000}$. 1906.—Sarasin, C., 2.
- TURKEY in Europe, Asia Minor, &c. $1\frac{1}{2}$ inches=69 miles. 1904.—Toula, F.

ASIA.

- ASIA MINOR. Armenia (*various*). 1906.—Oswald, F.
- CEYLON. Avissawela, Balangoda, and We Ganga (*various*). 1906.—Coomaraswamy, A. K., 2.
- CHINA. Shan-Tung. $\frac{1}{250,000}$. 1905.—Lorenz, T.
- DUTCH EAST INDIES. Ambon I. $\frac{1}{100,000}$; Leitimor Peninsula. $\frac{1}{50,000}$; Goenoeng Nona Mt. $\frac{1}{10,000}$. 1905.—Verbeek, R. D. M.
- — —. Celebes. Bwool District. $\frac{1}{100,000}$. 1905.—Koperberg, M.
- — —. Moëtong & Todjo Districts. $\frac{1}{500,000}$. 1905.—Koperberg, M., 2.
- — —. Sumatra. Boekit, Assam, $\frac{1}{25,000}$; Minjak Jtam, $\frac{1}{25,000}$; & Moeara Enim, $\frac{1}{100,000}$. 1906.—Tobler, A.
- INDIA. Bhutân. 1 inch=8 miles. 1906.—Pilgrim, G. E., 3.
- — —. Central Provinces. Chhindwâra & Nagpur Districts. 1 inch=4 miles. 1906.—Datta, P. N.
- — —. Chhindwâra District. Sausar Tahsil manganese-deposits. 1 inch=1 mile. 1906.—Fermor, L. L., 3.

ASIA.

- INDIA. Dharwar District. Gadag gold-belt. 1 inch=1 mile; & Kabligatti village. 2 inches=1 mile; Bellary District, Gadag gold-belt. 1 inch=2 miles. 1906.—Maclaren, J. M., 3.
- — —. Kashmir. Jammu State, Dandli coalfield. 1 inch= $1\frac{1}{2}$ miles. 1906.—Wright, C. M. P.
- — —. Mysore. Bangalore & Kolar Districts. 1 inch=4 miles. 1906.—Wetherell, E. W.
- — —. Chitaldrug & Javanhalli schist-belts. 1 inch=4 miles. 1906.—Wetherell, E. W., 2.
- — —. Hole Narasipur, Kallenhalli, Mudgere, &c., all 1 inch=1 mile. 1906.—Sambasiva-Iyer, V. S.
- — —. Shimoga & Kadur Districts. 1 inch=4 miles. 1906.—Slater, H. K.
- — —. Shan States. Hsipaw. 1 inch=2 miles. 1906.—La Touche, T. D.
- — —. Lashio coalfield. 1 inch=8 miles & 1 inch=2 miles. 1906.—La Touche, T. D., 4.
- — —. Namma coalfield. 1 inch=2 miles & 1 inch=1600 feet. 1906.—Simpson, R. R.
- JAPAN. Ise-noumi-Bay District. 1 inch=about 20 miles. 1906.—Kusakabo, S., 4.
- CHINA, &c. Tian Shan Mts. (north central). 1906.—Keidel, H.
- AUSTRALASIA.
- NEW SOUTH WALES. Clyde River. $1\frac{3}{8}$ inches = 1 mile. Nowra and Sussex-Haven Inlet. 1 inch = 4 miles; also Little Forest & Conjola. 1 inch=1 mile. 1905.—Jaquet, J. B., 2.
- — —. Gerringdon District. 4 inches = 1 mile. 1905.—Harper, L. F.
- — —. Peaks Silver-District. 1 inch = 10 chains. 1906.—Larcombe, C. O. G.
- NEW ZEALAND. Auckland. Cape-Colville Peninsula. 1 inch=4 miles. 1906.—Sollas, W. J., 3.
- — —. Dunedin. 1 inch=2 miles. 1906.—Marshall, P., 3.
- — —. Hokitika, North Westland Quadrangle, &c. (*various*). 1906.—Bell, J. M., 3.
- — —. (South I.). Otago. Clarendon-Millburn District. $1\frac{1}{8}$ inches = 1 mile. 1906.—Andrews, A. R., 2.
- QUEENSLAND. Geological Survey. Geological sketch-map of Queensland, showing mineral-localities, by B. Dunstan & H. W. Fox. 1 inch = 40 miles. 1905.—See QUEENSLAND, Geol. Surv.
- — —. Croydon District (*various*). 1905.—Dunstan, B.
- — —. Wide Bay & East Moreton Districts. 1 inch=4 miles. 1906.—Jensen, H. I., 2.

AUSTRALASIA.

- SOUTH AUSTRALIA. Ayers Ranges. 1 inch=8 miles. 1905.—Basedow, H., 2.
 —. Northern Territory. Charlotte Waters & L. Eyre. 1 inch=16 miles. 1905.—Brown, H. Y. L., 2.
- TASMANIA. 1 inch=55 miles. 1905.
 —David, T. W. E., 3.
 —. 1 inch=45 miles. 1905.—Waller, G. A., 2.
- VICTORIA. Blackwood - Trentham goldfield. 1 inch=1 mile. 1906.
 —Ferguson, W. H.
- WESTERN AUSTRALIA. Menzies. 2 inches=1 mile. 1906.—Woodward, H. P.
 —. Norseman District. 2 inches=½ mfl. 1906.—Campbell, W. D.
 —. Pilbara goldfield (*various*). 1906.—Maitland, A. G., 2.
 —. Wodgina tinfield. 1 inch=20 chains. 1906.—Maitland, A. G.
 —. See also WESTERN AUSTRALIA, Dep. Mines, 2.
- Maragnierinus*.—Whitfield, R. P.
- Marakesh, Plain of (Morocco).—Brives, A.
- Marble, Belgian black.—Destinez, P.
 —, Carrara.—Achiardi, G. d'.
 —, Greenland.—Belowski, M.
 —, India.—Holland, T. H., 2.
 —, Maryland.—Mathews, E. B., 2.
 —, Patiala.—Bose, P. N.
 —, plasticity of.—Adams, F. D., 2 & 3.
 —, Tyrol.—Block, J.
- Marcasite, Calafuria Massif.—Manasse, E.
- Mareno, Val (Venetia).—Toniolo, R. A., 2.
- Martia*.—Lambert, J., 2.
- Marginella*.—Oppenheim, P.
- Marginifera*.—Keidel, H.
- Marico (Transvaal).—Holmes, G. G.
- Mariinsk (Tomsk Gov.).—Korotkov, —.
- Marine currents, action of.—Rovereto, G., 3.
 — deposits.—Barrell, J.
 — fossils, Hainault Carboniferous.—Cornet, J., 3.
- Marinula*.—Cossmann, M., 3.
- Mariopteris*.—Vinassa de Regny, P., 6.
- Maros R. (Transylvania).—Kadić, O., 2; Rozlozsnik, P.
- Marrite.—Solly, R. H.
- Mars Mts. (Moravia).—Oppenheimer, J.
- Marseille (France).—Fournier, E., 1 & 4.
- Marsupialia, Santa Cruz Beds.—Sinclair, W. J.
- Marsupites*-zone, France.—Leriche, M., 4.
- Martesia*.—Cragin, F. W.
- Martha's-Vineyard I. (Mass.).—Bowman, J.
- Martinia*.—Keidel, H.; Vaughan, A.
- Martinique (W.I.).—Hovey, E. O., 1 & 2; Lacroix, A., 12.
- Martolites*.—Diener, C., 3.
- Maruch R. (Caucasus).—Pjatnizki, P.
- Marungu (Congo Basin).—Buttgenbach, H.
- Maryland (U.S.A.).—Clark, W. B.; Mathews, E. B., 1 & 2; Schaller, W. T.; True, F. W.; Ward, L. F.
- Masaya (Nicaragua).—Sapper, K., 4.
- Mashonaland (S. Africa).—Beck, R., 4.
- Massa (Tuscany).—Aloisi, P., 2.
- Massachusetts (U.S.A.).—Clapp, F. G.; Emerson, B. K.; Fuller, M. L., 2; Johnson, D. W., 2; Kraus, E. H., 1 & 2; Mansfield, G. R., 2; Sears, J. H.
- Massospondylus*.—Huene, F. von., 3.
- Mastodon*.—Gilmore, C. W., 2.
 —, Cape Colony.—Beck, R., 2.
 —, Illinois & Iowa.—Anderson, N. C.; Udden, J. A.
- Matagne sandstone, Ardennes.—Cayeux, L., 3.
- Matanuska (Alaska).—Griffith, W.
- Mathinna Goldfield, Tasmania.—Twelve-trees, W. H., 6.
- Matlockite.—Buttgenbach, H., 3.
- Mauer (Hesse).—Reichenau, W.
 —, Lake (E. Prussia).—Braun, G.
- Mauk R. (Perm).—Suschinski, P. P.
- Mauléon (Basses Pyrénées).—Carez, L.
- Maurienne (Savoy).—Kilian, W., 3.
- Mayaro (Trinidad).—Craig, E. H. C., 4.
- Maybee (Mich.).—Kraus, E. H., 3.
- Mayurbhanj, Orissa District (India).—Bose, P. N., 2.
- Mazaruni R. (British Guiana).—Harrison, J. B., 4.
- Mecklenburg (Germany).—Bærtling, R.; Gagel, C., 6.
- Mediterranean, ancient (French) shorelines.—Boule, M.; Négiris, P.; Caziot, E.
 — Basin.—Van de Weile, C., 1 & 3.
 — water.—Schlesing, T.
 —, Western.—Washington, H. S.
- MEDLICOTT, H. B., *Obit.*—See Blandford, W. T.; Marr, J. E.
- Medusa, Jurassic.—Maas, O.
- Meekella*.—Vinassa de Regny, P., 6.
- Meekoceras*.—Hyatt, A.
- Meerschaum, Asia Minor.—Schmeisser, C., 2.
- Megaceros*.—Lœnnberg, E.
- Megalaspis*.—Lamanski, V. V.
- Megalodon*-limestone, Umbria.—Parona, C. F., 3.
- Megalohyrax*.—Andrews, C. W.
- Megalophthalmus*.—Lorenz, T., 2.
- Megalosaurus*.—Huene, F. von, 2 & 4.
- Megambonia*.—Clarke, J. M., 5.
- Megatometer*.—Handlirsch, A., 3.
- Melania*.—Icke, H.; Seninski, K., 2.
- Melanopsis*.—Seninski, K., 2.
- Melaphyre, Tyrol.—Koken, E., 4.
- Melbourne (Victoria).—Chapman, F.
- Melibocus granite, Hesse.—Chelius, C.

- Melting-points, silicates, &c.—Vučnik, M.
- Membranipora*.—Brydone, R. M.
- Menado (Celebes).—Koperberg, M., 2.
- Mendip Hills (Somerset).—Reynolds, S. H.; Sibly, T. F.
- Meneghinite.—Headen, W. P., 2.
- Mentone (Alpes-Maritimes).—Boule, M.; Cziot, E.
- Menyháza (Transylvania).—Papp, K. von, 2.
- Menzies (W. Austral.).—Woodward, H. P.
- Mercury.—See Quicksilver.
- Meres, Lancashire ancient.—Cope, T. H.
- Meretrix*.—Cossmann, M., 3.
- Meristella*.—Clarke, J. M., 5.
- Merseburg (Prussia).—Siegert, L.
- Mersey R.—Nares, Sir G. S.
- Mesalia*.—Cossmann, M., 3; Oppenheim, P.
- Mesohippus*.—Lambe, L. M., 2.
- Mesosaurus*.—Osborn, H. F., 3.
- Mesosiren*.—Abel, O., 5.
- Messenia (Greece).—Négris, P., 5.
- Messina (Sicily).—Lotti, B., 3.
- Metabolite.—Berwerth, F.
- Metacheliphebia* & *Metachorus*.—Handlirsch, A., 3.
- Metalliferous deposits, origin of.—Ditte, A.; Trener, G. B.; Waller, G. A.
- veins.—See Veins.
- Metallography, opaque minerals &—Campbell, W.
- Metamorphic rocks, Argyll.—Hill, J. B., 2.
- , Quebec.—Dresser, J. A.
- , S. African oldest.—Mennell, F. P., 4.
- , Ticino Valley.—Klemm, G., 2.
- Metamorphism, contact.—Ferro, A. A.
- , See also Contact, &c.
- Metaxyblatta*.—Handlirsch, A., 3.
- Meteoric iron, etching of.—Preston, H. L.
- , Madras.—Berwerth, F., 2.
- , Magdeburg, 1831, find of.—Rinne, F.
- , See also Iron, meteoric.
- stone, Kangra Valley.—Hartley, W. N.
- , Minas Geraes.—Hussak, E.
- Meteorites, Arizona.—Mallet, J.
- , Berlin University - collection.—Klein, C.
- , Chile.—Ward, H. A., 3.
- , collections of.—Ward, H. A.
- , Coon Butte.—Fletcher, L.
- , graphic iron in.—Tassin, W., 2.
- , Indiana.—Farrington, O. C., 2.
- , Kansas.—Merrill, G. P., 4.
- , Kentucky.—Tassin, W.; Ward, H. A., 2.
- , Ontario.—Farrington, O. C., 2.
- , structure of.—Brezina, A.
- , Texas.—Howard, K. S.
- Metesd (Transylvania).—Roth von Telegd, L., 2.
- Metoicoceras*.—Leriche, M., 6.
- Metropator*.—Handlirsch, A., 3.
- Metropolitan Water - Board. — See London.
- Metryia*.—Handlirsch, A., 3.
- Mettenheim (Rhein-Hesse).—Steuer, A.
- Meurthe-et-Moselle (France).—Cavallier, C.; Laur, F., 2.
- Mexico (C. Am.).—Angermann, E., 2; Anon., 31; Bæse, E.; Bromly, A. H.; Dewalque, G. J. G.; Farrington, O. C., 3; Guild, F. N.; Halse, E.; Hovey, E. O., 4; Kemp, J. F., 5; McGee, W. J.; Merrill, F. J. H., 2; Ordoñez, E.; Sapper, K., 3; Scalia, S.; Villasenor, F. F.; Warwick, A. W.; Winwood, H. H.
- Meyeria*.—Harbort, E.
- Mica, felspars in.—Benedicks, C., 2.
- , German E. Africa.—Spencer, G. F. H.
- , India.—Holland, T. H., 2; La Touche, T. D., 3; Sambasiva-Iyer, V. S.; see also INDIA, Dep. Mines, & UNITED STATES, Min. Resources.
- Mica-schists, Argyll.—Hill, J. B., 2.
- MICHAŁSKI, P. A. O., *Obit.*—See Cherneshev, T.
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- Microbiotherium*.—Sinclair, W. J.
- Micropina*.—Gregory, J. W., 4.
- Microsolena*.—Koby, F.
- Microsporangia, Pteridosperm. — Kidston, R., 1 & 3.
- Middelburg (Transvaal).—Mellor, E. T., 4.
- Middlesex. — Kennard, A. S.; Young, A. C.
- Middlewich (Cheshire).—Pocock, T. I.
- Midroi R. (Ardèche).—Raymond, P.
- Miera (Rumania).—Nicolau, T.
- Miliolidae, Tertiary.—Schlumberger, C.
- Miliolina*.—Bullen, R. A.
- Milleporella*.—Deninger, K.
- Millham Wood (Sussex).—Whitaker, W.
- Millstone Grits, Ireland.—Hind, W.
- Minas Geraes (Brazil).—Derby, O. A., 2; Hussak, E., 1 & 7; Pearson, H.; Westergård, A. H., 2.
- Minden (Westphalia).—Harbort, E.
- Mine-creep sounds.—Ržehák, A., 3.
- maps, geological.—Brunton, D. W.
- Mineral veins.—See Ore, Veins, &c.
- Mineral waters, Algeria.—Fleury, —.
- , Auvergne.—Glangeaud, P., 4.
- , Breslau.—Kemna, A., 4.
- , Cape Colony.—Hahn, P. D.
- , carbonic-acid gas in.—Delkeskamp, R.
- , cause of variations in.—Diener, F.

- Mineral waters, degree of mineralization.
 —Dienert, F., 2.
 —, France.—Negreano, D.
 —, gases from.—Moureu, C.
 —, Germany.—Bruhns, W.
 —, Moravia.—John, C. von.
 —, natural & artificial.—Negreano, D.
 —, Rumania.—Murgoci, G. M., 2; Severin, E.
 —, Silesia.—Dathe, E., 1 & 2.
 —, Spain.—Puerta, G. de la.
 —, Styria.—Rumpf, J.
 —. See also UNITED STATES, Min. Resources; & Thermal waters, &c.
 Mineralogy, address on.—Douxami, H., 5.
 —, American (N.), 1904.—Weeks, F. B.
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 —, textbook of.—Hintze, C.
 —. See also INTERNAT. CAT. SCI. LIT.
 Minerals, analysis of.—Chesneau, G.
 —, artificial production of.—Douxami, H., 9.
 —, British.—Rashleigh, P.
 —, British Central Africa.—Evans, J. W., 6.
 —, Carrara marble.—Achiardi, G. d'.
 —, colouring in.—Wuelfing, E. A.
 —, Cyprus.—Dunstan, W. R., 4.
 —, diamond-bearing sand.—Hussak, E., 5.
 —, Essex Co. (Mass.).—Sears, J. H.
 —, fluid-cavities in.—Königsberger, J.
 —, Flinders (Vict.).—Pritchard, G. B., 3.
 —, Germany.—Bruhns, W.
 —, hardness of.—Gaubert, P.
 —, Lake District.—Postlethwaite, J.
 —, Manicaland.—Cuyat, J., 2.
 —, melting-points of.—Dælter, C., 1 & 3-5; Königsberger, J., 3; Reiter, H. H.; Vučnik, M.
 —, molecular equilibrium of.—Caldarón, S.
 —, metallography & opaque.—Campbell, W.
 —, Mysore.—Sambasiva-Iyer, V. S.
 —, New South Wales.—Card, G. W.; Mingaye, J. C. H., 2.
 —, origin of.—Dælter, C., 4.
 —, radio-activity of.—Eve, A. S.; Rutherford, E.
 —, replacing those secreted by recent invertebrates.—Hartzell, J. C.
 —, separation of.—Clerici, E.
 —, silicate.—Cornu, F., 5.
 —, Styria.—Frey, R.
 —, synthesis of.—Berthelot, A.; Mourel, J. R.
 —, Tasmania.—Petterd, W. F.
 —, temperature and refraction of.—Panichi, U.
 Minerals, Vesuvian fumarole.—Lacroix, A., 9.
 —, Villé Valley.—Ungemach, —.
 —. See also UNITED STATES, Min. Resources; & Quartz, Teplirite, &c.
 Minerve (Hérault).—Ferrasse, E.; Martel, E. A., 8.
 Mines, British Is.—See GREAT BRITAIN, Home Office, 1-3.
 —, Canada.—Bell, R., 2-4; Ingall, E. D., 1 & 2.
 —, Cornwall.—Pearce, R.
 —, Great Britain.—See GREAT BRITAIN, 1 & 2.
 —, India.—See INDIA, Dep. Mines.
 —, Peru.—Denegri, M. A.
 —, rock-movements and falls in.—Hankar-Urban, A.
 —, Tasmania.—See TASMANIA, Dep. Mines.
 —, Transvaal.—See TRANSVAAL, Dep. Mines.
 —, Western Australia.—See W. AUSTRALIA, Dep. Mines. Ann. Rep.
 Minette (iron-ore), Vosges.—Mueller, F. T.
 Mining, Carniola, 1754-69.—Muellner, A.
 —, Cornwall.—Collins, J. H.
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 Minnesota (U.S.A.).—Upham, W.
 Minsterworth (Gloucester).—Paris, E. T.
 Miocene, Algeria.—Schaffer, F. X.
 —, Apennines.—Sacco, F., 6.
 —, Bosnia.—Martelli, A., 2.
 —, Denmark.—Ravn, J. P. J.
 —, Gratz.—Fabian, F.
 —, Hanover.—Wollemann, A., 3.
 —, Kansas.—Sternberg, C. H.
 —, Kostej.—Bœtger, O.
 —, Moravia.—Ržehák, A., 2.
 —, Normandy.—Dollfus, G. F., 5.
 —, Rzeszów.—Friedberg, W. S. von, 2.
 —, Silesia.—Berg, G., 2.
 —, Sylt.—Gagel, C., 10.
 —, Turin.—Bellini, R.
 —. See also Tertiary.
 Miogypsina.—Sacco, F., 4.
 Misburg (Hanover).—Wollemann, A., 4.
 Mississippi R. delta.—Macbeth, W. A., 2.
 Missouri (U.S.A.).—Bain, H. F., 1 & 3;
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 Mitcham (Surrey).—Hogg, A. J., 2.
 Mitchell's Creek (N.S.W.).—Macdonald, W. F.
 Mitchelstown (Tipperary).—Baker, E. A.
 Mitra.—Oppenheim, P.
 Mittelgebirge (Bohemia).—Cornu, F., 6.
 Mitterberg (Bavaria).—Bleek, W. G.
 Modiola.—Cragin, F. W.; Fucini, A.
 Mödlau (Moravia).—Ržehák, A., 3.
 Moeara Enim (Sumatra).—Tobler, A.
 Møen I. (Denmark).—Hill, E.
 Moenville (Mex.).—Dewalque, G. J. G.

- Mærittherium*.—Andrews, C. W.
 Mogy-guassù (São Paulo).—Hussak, E., 2.
Mojsvaroceras.—Hyatt, A.
 Molasse, Aarwangen freshwater.—Martin, Rud.
 —, Alpes-Maritimes.—Lambert, J., 2.
 —, Baden.—Schalch, F.
 —, Bavarian Oligocene.—Stuchlik, H.
 —, St. Gallen Alps.—Heim, A., 5.
 Moldavia (Rumania).—Nicolau, T., 3.
 Moleteín (Moravia).—Krasser, F.
 Möll Valley (Carinthia).—Granigg, B.
 Mollusca, geological time &.—Plant, J. R.; see also Chitonidae, §c.
 —, systematic species, determination of fossil.—Dacqué, E.
 — zones, Carboniferous.—Stobbs, J. T.
 Molteno Sandstone, Cape Colony. — Schwarz, E. H. L., 7.
 Molucca Is. (D.E.I.). — Bœhm, G.; John, C. von, 2; Kossmat, F., 4.
 Molybdenite-pipe, New South Wales.—Andrews, E. C., 1 & 3.
 Molybdenum, New South Wales. — Andrews, E. C., 1, 3, & 4.
 —, Peru.—Dueñas, E. I.
 Monaco.—Négris, P.
 Monastir (Tunis).—Lamothe, R. de.
 Monazite.—See UNITED STATES, Min. Resources.
 Monazite, S. Nigeria. — Parkinson, J., 2.
 Monferrato (Tuscany).—Salle, E.
 Mongolia (Asia).—Krasser, F., 2.
 Moniteau Co. (Mc.).—Van Horn, F. B.
Monocarpellites.—Perkins, G. H.
Monodiadema.—Lambert, J.
Monogenerina.—Chapman, F., 5.
Monograptus.—Schepotieff, A.
Monomerella.—Clarke, J. M., 7.
Monotrypa.—Deninger, K.
 Mons (Hainault).—Simoens, G.
 Mont-Dore (Auvergne).—Glaugaud, P., 2; Lacroix, A., 4.
 Mont du Chat, &c.—See Chat, §c.
 Montagne Noire (Languedoc).—Miquel, J.
 Montagnole Plateau (Savoy).—Moural, —.
 Montdidier (Picardy).—Bardou, P.
 Montenegro. — Martelli, A., 1 & 3; Vinassa de Regny, P., 1 & 3.
 Monterey Shale, California.—Bagg, R. M., Jun.
 Montezuma's Well (Ariz.).—Blake, W. P.
 Montgomery (Wales).—Wood, E. M. R.
 Montian, Haine Valley.—Cornet, J., 5.
Montlivaultia.—Angelis d'Ossat, G. de.
 Montpensier (Puy-de-Dôme). — Glaugaud, P., 4.
 Montreal (Canada).—Adams, F. D., 4.
 Montreuil-sur-Mer (Picardy). — See FRANCE, Serv. géol.
 Montricher-en-Maurienne (Savoy).—Kilian, W., 3.
 Monzonite, Queensland.—Jensen, H. I., 2.
 Monzonose, Saxony.—Washington, H. S., 2.
 Moëetong (Celebes).—Koperberg, M., 2.
 Moon, earth &.—Simoens, G., 3.
 —, radium & the.—Palmer, B. J.
 Moonee Ponds (Victoria).—Pritchard, G. B.
 Mooraboolite.—Pritchard, G. B., 2.
 Moquegua Valley (Peru).—Hurd, H. C.
 Moraines, Archangel.—Ramsay, W., 2 & 5.
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 Moravite.—Kretschmer, F.
 Moray Firth (Scotland).—Jamieson, T. F., 3.
 Morbihan (Britanny).—Pussenot, —.
 Morea (Greece).—Frech, F., 6; Négris, P., 2 & 3; Renz, C., 4.
 Morenci (Ariz.).—Lindgren, W., 4.
 Morgan, Mt., mine, Transvaal. — Kynaston, H., 8.
 Morgans Mt. (W. Austral.).—Jackson, C. F. V.
 Morlaix (Britanny).—Barrois, C., 4; Cayeux, L., 4; see also FRANCE, Serv. géol.
 Morocco (N. Africa). — Boistel, A.; Bonnet, E., 3; Brives, A., 1-4; Ficheur, E.; Gentil, L., 1-3; Kilian, W., 7; Knox, A.; Lemoine, P.
Morosaurus.—Osborn, H. F., 2.
 Morrison Formation, Colorado, &c.—Stanton, T. W.
 Mortain (Normandy).—Matte, H., 1 & 2.
 Morton, East (Queensl.).—Jensen, H. I., 2.
Mortoniceras.—Fucini, A., 2; Wollemann, A.
Mosasaurus.—Osborn, R. C.
 Mosbach (Nassau).—Reichenau, W. von.
 Moscow (Russia).—Borisjak, A., 3.
 Moselle District (Rh.-Pruss.).—Einecke, G.
 Moslavina (Croatia). — Gorjanović-Kramberger, K.
 Moson Co. (Hungary).—Laszló, G. von.
 Mosses, Scottish peat.—Lewis, F. J., 1 & 2.
 Mount-Boppy gold-reef (N.S.W.). — Jaquet, J. B.

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 'Mount-Torlesse Annelid.'—Bather, F. A., 2.
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 Mountain-folds, Cape Colony.—Schwarz, E. H. L., 2.
 Mountains, formation of.—Révil, J., 2.
 —, glaciation of.—Davis, W. M., 7.
 —, Mexico.—Scalia, S.
 —. See also Volcanoes, &c.
 Moyie-R. sills (B.C.).—Daly, R. A., 3.
 Msta-R. basin (Novgorod).—Zallesski, M.
Mucronella.—Brydone, R. M.
 Mud, Travancore coast.—Neilson, R. G.
 —, Vesuvius.—Lacroix, A., 5.
 Mud-cracks, origin of.—Barrell, J.
 Mud-volcanoes, Rumania.—Costachescu, N.
 Mulgabbie (W. Austral.).—Jackson, C. F. V.
 Mull, I. of.—Smythe, J. A.
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 Munzingen (Baden).—Steinmann, G., 2.
 Mur R. (Styria).—Aigner, A.; Fabian, F.
 MURCHISON'S 'Geology of Cheltenham.'
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 Musart Valley (Tian-Shan Mts.).—Kleinschmidt, A.
 Muscovite.—Cornu, F., 5.
 Museum, Albany (Cape Colony).—Schwarz, E. H. L., 7 & 8.
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 —, South African.—See CAPE OF GOOD HOPE.
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 Musselburgh (Midlothian).—Martin, Rob.
Myalina.—Frech, F., 7; Scupin, H.
Myalinaptera.—Scupin, H.
Mylacris.—Handlirsch, A., 3.
 Mylonite, Moravia.—Suess, F. E., 3.
Myoconcha.—Fucini, A.
Myophoria.—Gortani, M., 5.
Myophoriopsis.—Vinassa de Regny, P., 6.
Myriacanthus.—Woodward, A. S., 8.
Myriolepis.—Woodward, A. S., 3.
 Mysore (India).—Sambasiva-Iyer, V. S.; Slater, H. K.; Smeeth, W. F.; Wetherell, E. W., 1 & 2.
Mystriosuchus.—McGregor, J. H.
Mytilarca.—Clarke, J. M., 7.
Mytilus.—Cragin, F. W.; Fucini, A.; Kuipovich, N.
 Nadrag (Transylvania).—Schafarzik, F.
 Nagelfluh, St. Gallen Alps.—Heim, A., 5.
 Nagolni Mts. (Donetz Basin).—Samoilov, J.
 Nagpur District (India).—Datta, P. N.; Fermor, L. L.
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 Nagybihar (Hungary).—Kozlozsnik, P., 2.
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Naosaurus.—Jækel, O., 3.
 Naples (Italy).—Cool, H.
 Naples (N.Y.).—Clarke, J. M., 6.
 Narbada R. (India).—Vredenburg, E.
 Narnaul (Patiala, India).—Bose, P. N.
 Narrakal (Travancore).—Neilson, R. G.
 Nassau (Germany).—Brauns, R.; Einecke, G.
Nasso.—Andrussov, N.
 Natal (S.A.).—Anderson, W.; Gray, C. J., 1 & 2.
 Natal Museum, Pietermaritzburg.—See Natal.
Natica.—Ascher, E.; Cragin, F. W.; Krumbeck, L.; Pethœ, J.; Oppenheim, P.
 Natrolite.—Manasse, E., 2.
 Nauders (Tyrol).—Suess, E.
 Naumburg-an-der-Saale (Thuringia).—Picard, E.; Wuest, E.
Nautilus.—Brown, H. Y. L.
 Naver, Loch (Scotland).—Murray, Sir J., 2; Peach, B. N., 3.

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Næra.—Oppenheim, P.
Neanites.—Hyatt, A.
 Nebo Farm (Orange River Colony).—Sawyer, A. R., 3.
 Nebraska (U.S.A.).—Barbour, E. H., 1 & 2; Schuchert, C., 2.
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Neithea.—Pethœ, J.
 Neocomian, Russia. — Sintzov, I.; Tovarov, K.
 —, Silesia.—Till, A.
 —, Surrey.—Herries, R. S., 2.
 —, Tyrol.—Ascher, E.
 —. *See also* Cretaceous.
Neomylacriss.—Handlirsch, A., 3.
 Neon, thermal water with.—Moureu, C., 2.
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 Nephrite, Bahia.—Hussak, E.
Nerinea.—Ascher, E.; Cossmann, M.; Cragin, F. W.; Pethœ, J.; Seidlitz, W. von.
Nerinella.—Cossmann, M.; Cragin, F. W.
Nerita.—Cossmann, M., 3; Cragin, F. W.; Pethœ, J.; Schmidt, M.
Neritina.—Pethœ, J.; Seninski, K., 2.
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 Netherlands.—Calker, F. J. P.; Dubois, E., 2.
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 Neuchâtel (Switzerland).—Schardt, H.
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 Neuwelt (Basel).—Benecke, E. W., 3.
 Neuhaldensleben (Magdeburg).—Blanckenhorn, M., 1 & 3; Wieggers, F., 1-3.
 Neurode (Silesia).—Dathe, E., 1 & 2.
Neurodontopteris & *Neuropteris*. — Vinassa de Regny, P., 6.
Neuropteridium.—Arber, E. A. N.
 Neutitschein (Moravia).—Beck, H.
 Nevada (U.S.A.). — Collins, E. A.; Hastings, J. B.; Lakes, A., 4; Lawson, A. C.; Paek, F. J.; Schuchert, C.; Spurr, J. E., 2, 4, & 5.
 —, Sierra (Cal.).—*See* Sierra Nevada.
 New Britain I. (Pacific).—Brown, G.
 New Brunswick (Canada).—Bell, A., 2-4; Ells, R. W., 2.
 New Caledonia (Pacific).—Deprat, J.; Kilian, W., 9.
 New England (N.S.W.).—Andrews, E. C.; *see also* Massachusetts, §c.
 Newfoundland (N. Am.).—Howley, J. P.; Millais, J. G.
 New Guinea, British.—*See* British.
 New Guinea (Pacific).—Haupt, O.; Meigen, W.; Schmeisser, C.
 New Hampshire (U.S.A.).—Clapp, F. G.; Pirsson, L. V., 2.
 New Hebrides (Pacific).—Chapman, F., 6; Mawson, D., 1 & 2.
 New Jersey (U.S.A.).—Berry, E. W., 2; Haupt, L. M.; Kuemmel, H. B., 1-3; McCourt, W. E.; Vermeule, C. C.; Whitfield, R. P., 3; Willecox, O. W.; Williston, S. W., 3.
 New Mexico (U.S.A.).—Brinsmade, R. B.; Gidley, J. W.; Gordon, C. H.; Keyes, C. R., 1-4.
 New South Wales.—Andrews, E. C., 1, 3, & 4; Card, G. W.; Chapman, F., 5; David, T. W. E., 2; Dun, W. S.; Etheridge, R. (*fil.*); Harper, L. F.; Jaquet, J. B., 1 & 2; Jensen, H. I.; Larcombe, C. O. G.; Macdonald, W. F.; Mingaye, J. C. H., 2; Taylor, T. G.; *see also* NEW SOUTH WALES, Dep. Mines.
 New York (U.S.A.).—Clarke, J. M., 1-3 & 5-7; Fuller, M. L., 2; Merrill, F. J. H.; Slocum, A. W.; Tarr, R. S., 1-3; Veatch, A. C., 2; Whitfield, R. P.; Williams, H. S., 2; *see also* Catskill Mts., §c.
 New York City (N.Y.).—Hobbs, W. H., 1 & 2; Julien, A. A.; *see also* Manhattan I.
 New Zealand.—Andrew, A. R., 1 & 2; Andrews, E. C., 2 & 3; Baracchi, P.; Bell, J. M.; David, T. W. E.; Fuchs, T.; Hogben, G., 2-4; Hutton, F. W., 2 & 3; Maclaren, J. M.; Marshall, P., 1, 3, & 4; Sollas, W. J., 3; *see also* Otago, §c.
 Newmire (Colo.).—Ohly, J.
 Newton Dale (Yorks).—Sewell, J. T., 2.
 Newydd Fynyddog (Montgomery). — Wood, E. M. R.
 Niagara Falls (N. Am.).—Fairchild, H. L., 3.
 Nicaragua (C. Am.).—Sapper, K., 1 & 4.
 Nice (Alpes-Maritimes).—Négris, P.
 Nickel, arsenate of.—*See* Cabrerite.
 —, chloride of.—Muegge, O., 3.
 —, Norway.—Coleman, A. P., 2.
 —, Ontario.—Barlow, A. E., 1 & 2; Browne, D. H.; Campbell, W., 3; Coleman, A. P., 2; Miller, W. G., 2 & 3.
 Nickeliferous pyrrhotites. — Campbell, W., 2.
 Nigeria (W. Af.).—Dunstan, W. R.; Parkinson, J., 1-9.
 Nijni Novgorod Gov. (Russia).—Tolmatschov, I. P.
 Nijni-Tagilsk (Urals).—Krasnopolski, A.; Löwinson-Lessing, F., 4; Yakovlev, N.
 Nile Valley (Egypt).—Hunne, W. F.; Lyons, H. G., 2; Rutot, A., 3.
 NILSSON, A., *Obit.*—*See* Munthe, H., 3.
 Niort (Deux Sèvres).—Welsch, J., 1-4.
 Nipissing District (Ont.).—Anon., 25.
 Nismes (Namur).—Martel, E. A., 13.
 Niso.—Pritchard, G. B., 5.

- Nisusia*.—Walcott, C. D., 2.
 Nitrates, Chile.—Herrmann, A.
 Nitrobarite.—Gaubert, P., 5.
 Niviolet (Savoy).—Jeanson, —; Révil, J., 10.
 Nodules, concretionary.—Chapman, F.
Næggerathiopsis.—Arber, E. A. N.
 Noiraigue (Neuchâtel).—Schardt, H.
 Nolinsk (Viatka).—Ryabinin, A.
 Nomenclature, pre-Cambrian. — Coleman, A. P., 3.
 Noranco (Ticino).—Blumer, S.; Schmidt, C., 3.
 Nord (France).—Briquet, A., 1 & 4; Carpentier, A., 1-4; Gosselet, J., 1-8; Ladrrière, J., 1 & 2; Leriche, M., 1, 2, & 6; Pagniez, —; Rutot, A., 5; Simoens, G.
 Nord-du-Flénu pit (Hainault).—Cornet, J., 3.
 NORDENSKJÖLD, A. E., *Obit.*—See Palmén, J. A.
 Norfolk.—Bonney, T. G., 2; Brydone, R. M., 1 & 2; Harmer, F. W., 1-3; Hinton, M. A. C.; Huddleston, W. H.; Loricé, J., 3; Reid, C., 2; Woodward, H., 6.
 Norite, Pilandsberg.—Molengraaff, G. A. F., 2.
 Normandy (France).—Babeau, L.; Bigot, A., 1 & 2; Cossmann, M., 3; Dollfus, G. F., 5; Launay, L. de; Lemesnil, H.; Matte, H., 1 & 2; Noury, A., 2; Rutot, A., 7.
 Norrbotten (Sweden).—Gavelin, A.; Post, L. von; Sjögren, O.; Stutzer, O., 2-4.
 Norseman District (W. Austral.). — Campbell, W. D.
 Northamptonshire.—Anon., 34; Markham, C. A.; Thompson, B., 1-3.
 Northumberland.—Kidston, R., 2; Lebour, G. A., 3; Wood, G. C.; Woolacott, D., 1 & 2.
 Northupite.—Schulten, A. de.
 Norway.—Brægger, W. C.; Coleman, A. P., 2; Fletcher, M.; Henriksen, G.; Kolderup, C. F.; Öyen, P. A.; Rekestad, J., 1 & 2; Suess, E., 2; *see also* Glaciation, &c.
 Norwich Crag, Bramerton.—Hinton, M. A. C.
Notharctus.—Loomis, F. B.
Nothosauridæ.—Jækel, O.
 Noto Valley (Sicily).—Gonnard, F., 2.
Notothyris.—Keidel, H.
 Nottinghamshire.—Hickling, G.; Johns, C., 3.
 Nova Scotia (Canada).—Bell, R., 2-4; Gilpin, E., Jun.; Pool, H. S.
 Novalaise Valley (Savoy).—Révil, J., 4.
 Novgorod Gov. (Russia).—Zallesski, M.
Nucula.—Fucini, A.; Sokolov, N.
Nuculana.—Newton, R. B.
Nuculites.—Schwarz, E. H. L., 8.
Nummulites.—Boussac, J.; Deprat, J.; Prever, P. L., 1 & 2; Vredenburg, E., 4.
Nummulites, dimorphism of.—Kemna, A., 2.
 — *lævigatus*-sandstone, France.—Leriche, M., 9.
 Nummulitic limestone, Apennines. — Prever, P. L.
 — —, France.—Douvillé, H.; Prever, P. L., 2.
 — —, Piedmont.—Prever, P. L., 2.
 — —, Senegambia.—Meunier, S., 2.
 — —, Tuscany.—Aloisi, P., 2.
 Nusse (Prussia).—Gagel, C., 9.
 Nyárasd (Hungary).—Tímó, E.
Nyassa.—Reed, F. R. C., 2.
 Nyitra Com. (Hungary).—Horusitzky, H.
Nyssa.—Perkins, G. H.
 Oamaru (N.Z.).—Fuchs, T.
 Oban Hills (S. Nigeria).—Parkinson, J., 3.
Obolella.—Etheridge, R. (*fil.*); Lorenz, T., 2.
 Obsidian-buttons, or Obsidianites, Tasmania.—Twelvetrees, W. H., 7.
 Oceanic circulation, climates &c.—Chamberlin, T. C., 1 & 2.
 — — concretions.—Collet, L. W.
 — — deposits. — Eastman, C. R.; Jentzsch, A., 3; Thoulet, J.; Van't Hoff, J. H., 1-4; *see also* Ooze, Salt, &c.
 Oceans, chemical evolution of the. — Lane, A. C., 2.
 — — of geological time.—Suess, E., 2.
 Ocoll Conglomerate, stretched pebbles in.—McCallie, S. W.
 Octahedrite.—Palache, C.
 Odenwald (Hesse).—Chelius, C.; Klemm, G.
 Oder Valley (Harz).—Bode, A.
 Ebisfelde (Brunswick).—Stolley, E., 5.
 Oesling (Luxembourg).—Dorlodot, L. de, 2.
 Etz Valley (Tyrol).—Termier, P., 2.
Offneria.—Pâquier, V., 2.
 Offretite, Loire.—Gounard, F.
 Ohio (U.S.A.).—Bownocker, J. A., 1 & 2; Prosser, C. S.
 Oise (France).—*See* Artois.
 Okanagan (Wash.).—Daly, R. A., 2.
 Okenite.—Cornu, F., 3.
 Oklahoma (U.S.A.).—Gould, C. N.
 Olby, Oligocene lake (Auvergne). — Glangeaud, P., 2.
Olcostephanus.—Cragin, F. W.
 Old Red Sandstone, Scotland. — Du Toit, A. L.; Traquair, R. H., 2.
Olenellus.—Etheridge, R. (*fil.*).
Olenoides-fauna, China.—Lorenz, T., 2.
Olethrobatta.—Handlirsch, A., 3.
 Oligocene, Aveyron.—Marty, P.
 — —, Bavaria.—Stuchlik, H.
 — —, Denmark.—Ravn, J. P. J.
 — —, Mont-Dore.—Glangeaud, P., 2.
 — —, Spain.—Depéret, C., 4.
 — —. *See also* Tertiary.
 Oliphants R. (Transvaal).—Gau, W. J.

- Oliva*.—Oppenheim, P.
Olivine.—Cornu, F., 5.
 ———diabase, Harz.—Koch, M.
 Olonetz Gov. (Russia).—Ramsay, W., 4.
 Oltenia (Rumania).—Murgoci, G. M., 2.
 Omai (British Guiana).—Harrison, J. B., 4.
Omospira.—Donald, J.
Omphacite.—Roccati, A., 2.
Omphalocyclus.—Krumbeck, L.
Omphalophloios.—Foureau, F.
Ompolyicza (Transylvania).—Roth von Telegd, L.
Ompolypreszáka (Transylvania).—Roth von Telegd, L., 2.
 Onega, Lake (Russia).—Ramsay, W., 3 & 4.
 Onnaing (Nord).—Carpentier, A., 2.
 Ontario (Canada).—Anon., 25; Barlow, A. E., 1 & 2; Bell, R., 2-4; Browne, D. H.; Campbell, W., 3; Clarke, J. M., 6; Coleman, A. P.; Ells, R. W.; Frank, F. J.; Grant, C. C.; Jones, T. R.; Kerr, D. G.; Leith, C. K., 3; Lury, J. S. de; Miller, W. G., 1-3; Whiteaves, J. F., 4.
Onychocardium.—Whitfield, R. P.
Onychocrinus.—Springer, F.
 Oolite, Franche-Comté.—Girardot, A., 1 & 2.
 ———, Lincolnshire.—Thompson, B., 3.
 ———, Northants.—Thompson, B., 2.
 ———, Oxfordshire.—Walford, E. A.
 ———. *See also* Jurassic.
 Oolitic iron-ore, Basel.—Leuthardt, F.
 ———, Hungary.—Treitz, P., 2.
 ———, Liège.—Fourmarier, P., 3.
 ———, origin of.—Cayeux, L., 6; Meunier, S., 4.
 ———, Westphalia.—Brauns, R., 2.
 Ooze, deep-sea.—Thoulet, J.
 ———, glauconitic.—Collet, L. W., 3.
 ———, Pacific.—Flint, J. M.
 ———, Travancore coast.—Neilson, R. G.
 Opal.—Cornu, F., 5.
Ophiceras.—Hyatt, A.
 Ophiolitic rocks, Tuscany.—Lotti, B.
 Ophitic rocks, Alps.—Jaccard, F.; Steinmann, G.
Oppelia.—Cragin, F. W.; Lee, G. W.; Popovići-Hatzeg, V.
Opsis.—Woods, H.
 Oran (Algeria).—Ficheur, E., 2.
 Orange River Colony (S.A.).—Harger, H. S.; Sawyer, A. R., 3; Wessels, J. W.
Orbicella.—Gregory, J. W., 3.
 Orbicular structure, origin of.—Blake W. P., 2.
Orbitoides.—Deprat, J.; Lemoine, P., 4.
Orbitolites.—Bullen, R. A.
 Orciano (Tuscany).—Fucini, A., 3.
 Ordovician, Bohemia.—Želízko, J. V.
 ———, Caermarthenshire.—Evans, D. C.
 ———, Haverfordwest.—Reed, F. R. C., 3.
 ———, Normandy.—Matte, H., 2.
 ———, Pennsylvania.—Bascom, F.
 ———, Tyroue.—Fearnside, W. G.
 ———, Westmorland.—Marr, J. E., 3.
 Ore-deposition.—Day, A. L.; Lindgren, W.; Read, T. T.; Sullivan, E. C.
 Ore-deposits, Almeria.—Firecks, F.
 ———, Archaean continents and.—Heneage, E. F.
 ———, Chile.—San Roman, F. J.
 ———, contact-metamorphism &.—Crosby, W. O.
 ———, distribution in depth.—Gregory, J. W.
 ———, Harz Mts.—Hornung, F.
 ———, industrial supremacy &.—Stewart, J. L.
 ———, Michigan.—Lane, A. C., 4; Ossa, I. D.
 ———, origin of.—Ditte, A.; Ochsenius, K.; Park, J., 1-5; Waller, G. A.
 ———, Peru.—Santolalla, F. M., 1-3.
 ———, secondary enrichment.—Kemp, J. F., 2.
 ———, Sicily.—Lotti, B., 3.
 ———, Switzerland.—Bueler, H.
 ———. *See also* Contact-metamorphism, Veins, &c.
 Ore-segregation.—Coleman, A. P., 2; Henriksen, G.
 Ores, crystalline rocks &.—Trener, G. B.
 ———, igneo- & sedi-genetic.—Bain, H. F., 2; *see also* Iron, &c.
 Oregon (U.S.A.).—Condon, T.; McClung, C. E.; Ward, L. F.
 Orford Mts. (Quebec).—Wilson, A. W. G.
Oriskania.—Clarke, J. M., 5.
 Oriskany fauna, New York.—Clarke, J. M., 5.
 Orissa (India).—Bose, P. N., 2.
 Orizaba, Mt. (Mex.).—Angermann, E., 2.
 Ormonts (Savoy).—Renevier, E.
 Oro, Punta d' (Lake Iseo).—Caccianali, G. B.
Orthis.—Etheridge, R. (*fil.*); Lamanski, V. V.
Orthoceras.—Clarke, J. M., 7; Hyatt, A.; Schwarz, E. H. L., 8; Whiteaves, J. F., 3.
 Orthoclase, Corsica.—Deprat, J., 4.
 ———, decomposition of.—Cushman, A. S.; *see also* Felspar.
Orthogonophora & *Orthomylacris*.—Handlirsch, A., 3.
Orthophragma.—Deprat, J.; Kilian, W., 3.
Orthothetes.—Clarke, J. M., 5; Vinassa de Regny, P., 6.
 Ortler (Tyrol).—Hammer, W., 1 & 3; Termier, P., 2.
 Ortola (Tuscany).—Aloisi, P., 2.
Oryctoblattina.—Handlirsch, A., 3.
 Ostracoda, Carboniferous.—Ulrich, E. O.
 ———, Devonian.—Clarke, J. M., 5.
 ———, Jurassic.—Chapman, F., 2.
 ———, Ordovician.—Jones, T. R.
 ———, Silurian.—Clarke, J. M., 7; Whiteaves, J. F., 1 & 3.

- Ostracoda, Tertiary.—Cappelli, G. B.; Neviani, A., 2.
- Ostrea*.—Ascher, E.; Bœhm, G., 3; Frech, F., 5; Jukes-Browne, A. J., 2; Jukovski, E., 2; Krumbek, L.; Leriche, M., 5; Pethœ, J.; Reis, O. M., 1 & 2.
- Ostrog (Vollhynia).—Laskarev, V.
- Otago (N.Z.).—Andrew, A. R., 1 & 2; Boulton, C. N.; Marshall, P., 4; Thomson, J. A.
- Otavi (German S.W. Africa).—Schneider, O.
- Otavite.—Schneider, O.
- Otolites, of fishes.—Bassoli, G. G.; Schubert, O., 4.
- Otopteris*.—Dun, W. S.
- Ottajano (Vesuvius).—Lacroix, A., 12.
- Ouche Valley (Burgundy).—Collot, L., 2.
- Ouenza, Jebel (Constantine).—Termier, P., 4.
- Oum-er-Rebia (Morocco).—Brives, A., 4.
- Ouray Co. (Colo.).—Schwarz, T. E.
- OUSTALET, E., *Obit.*—See Woodward, H., 4.
- Ovibos*.—Munthe, H.
- Ovrutsch (Vollhynia).—Dubyanski, V. V. (Doobyanski).
- Ovula*.—Krumbek, L.
- Owenites*.—Hyatt, A.
- Oxfordshire.—Anon., 34; Dawkins, C. G. E.; Harmer, F. W., 4; Huene, F. von, 4; Walford, E. A.
- Oxyoblatta*.—Handlirsch, A., 3.
- Pachytilus*.—Jukovski, E., 2.
- Pachydiscus*.—Macovei, G.; Pethœ, J.
- Pachymolophus*.—Stehlin, H. G., 2.
- Pachypadra* (India).—Fermor, L. L.
- Pachytraga*.—Päquier, V., 2.
- Pacific Ocean.—Agassiz, A.; Brown, G.; Flint, J. M.; Holway, R. S.; see also Coral-islands, &c.
- Padirac Cave (Lot).—Martel, E. A., 4, 7, & 12.
- Pago I. (Dalmatia).—Waagen, L.
- Pagodia*.—Walcott, C. D., 3.
- Painswick (Gloucester).—Richardson, L., 5.
- Pajsberg (Sweden).—Sjægren, O., 7.
- Pala (Cal.).—Waring, G. A.
- Palæno*.—Borisjak, A.
- Palæoblatta* & *Palæodictyopteron*.—Handlirsch, A., 3.
- Palæolithic gravels, Hainault & Picardy.—Rutot, A., 4.
- implements, *Hipparion* - beds, Cantal.—Verworn, M.
- —, Transvaal.—Johnson, J. P., 1 & 7; see also Implements.
- Palæomastodon*.—Andrews, C. W.
- Palæoneilo*.—Schwarz, E. H. L., 8.
- Palæontology, Antarctic.—Andersson, J. G., 3.
- , biology &c.—Woodward, A. S., 2.
- , Canadian, 1904.—Ami, H. M.
- Palæontology, geological time &c.—Ami, H. M., 2; Goodchild, J. G.
- , North American, 1904.—Weeks, F. B.
- , text-book of.—Frech, F.
- Palæopropithecus*.—Grandidier, G.
- Palæotheres*.—Sinclair, W. J.
- Palæotherates*.—Handlirsch, A., 3.
- Palæotherium*.—Stehlin, H. G., 2.
- Palæozoic, Cornwall.—Hill, J. B.
- , Gratz.—Heritsch, F.
- , Hungary.—Rozlozsnik, P., 2.
- , Vollhynia.—Laskarev, V.
- , See also Devonian, &c.
- Palagonia (Sicily).—Gonnard, F., 2.
- Palagonite, Massachusetts.—Emerson, B. K.
- Palaiotaptus*.—Handlirsch, A., 3.
- Paliurus*.—Berry, E. W., 2.
- Palladium, Brazil.—Hussak, E., 6.
- , New South Wales.—Mingaye, J. C. H., 2.
- Palma (Canary Is.).—Sapper, K., 2.
- Palmatopteris*.—Vinassa de Regny, P.
- Palo Alto (U.S.A.).—Macbride, T. H.
- Paludina*.—Cossmann, M., 3.
- beds, N. German interglacial.—Menzel, H., 2.
- Paludinopsis*.—Icke, H.
- Paluzza (Carnic Alps).—Vinassa de Regny, P., 7.
- Pampian, S. America.—Bravard, A.
- Panama (C. Am.).—Jukovski, E., 1 & 2; Sapper, K.
- Panderinite, Asia Minor.—Schmeisser, C., 2.
- Pandorf (Hungary).—László, G. von, 2.
- Pangong, Lake (Tibet).—Huntington, E.
- Panna (Bengal).—Vredenburg, E., 3.
- Panopæa*.—Pethœ, J.; Wegner, T.
- Pans, origin of.—Mellor, E. T., 2.
- Papandajan volcano (Java).—Gaubert, P., 2.
- Pará (Brazil).—Clarke, J. M., 4.
- Paracatú (Brazil).—Pearson, H.
- Paracerithium*.—Cossmann, M.
- Parachætetes*.—Deninger, K.
- Paracheliphlebia*.—Handlirsch, A., 3.
- Paracypris*.—Neviani, A., 2.
- Paradoxides*.—Miquel, J.
- Paradoxostoma*.—Cappelli, G. B.
- Paraganides*.—Hyatt, A.
- Parahoplites*.—Jacob, C.
- Paralecanites* & *Paranannites*.—Hyatt, A.
- Paraparchites*.—Ulrich, E. O.
- Paraphyllites*.—Maas, O.
- Paraptys*.—Clarke, J. M., 6.
- Paratacamite.—Smith, G. F. H.
- Paravianite.—Popoff, S.
- Parchim (Mecklenburg).—Gagel, C., 6.
- Paris Basin (France).—Alessandri, E. de; Cayeux, L., 7; Combes, P. (*fil.*); Couppey de la Forest, M. le; Dollfus,

- G. F., 2-4; Fritel, P. H., 1 & 2; Leriche, M., 8 & 9; Peron, A., 2; Pujet, R.
- Paronæa*.—Prever, P. L.
- Parthenay (Deux Sèvres).—Welsch, J., 1-4.
- Parvisipho*.—Cossmann, M., 3.
- Pas-de-Calais (France).—Barrois, C.; Briquet, A., 2; Kuess, —; *see also* Picardy.
- Passaic, Lake (N.J.).—Vermeule, C. C.
- Passy (Seine).—Combes, P. (*fil.*).
- Patagonia (S. Am.).—Ameghino, F.; Gaudry, A.; Outes, F. F.; Sinclair, W. J.
- Patella*.—Welch, R.
- Patiala (India).—Bose, P. N.
- Paumotu Is. (Pacific).—Agassiz, A.
- Pavlograd (Khar'kov).—Boris'yak, A., 2.
- PEACH, B. N.—*See* Anon., 20.
- Peak (Yorks).—Herries, R. S., 1 & 3.
- Peake (N.S.W.).—Larcombe, C. O. G.
- Peat, Archangel.—Ramsay, W., 2 & 5.
- , Brandenburg.—Gagel, C., 2; Schröder, H., 4.
- , Brittany.—Cayeux, L., 4.
- , Durham.—Smythe, J. A., 2.
- , formation of.—Campbell, M. R.
- , Hungary.—Guell, W., 3; Horusitzky, H., 3; Kormos, T.
- , New Jersey.—McCourt, W. E.
- , Savoy.—Badoureau, —.
- , Scotland.—Geikie, J.; Lewis, F. J., 1 & 2.
- , Sweden.—Post, L. von.
- , Yorkshire.—Sheppard, T.
- Pebble-bed, Neuchâteau white.—Duvigneaud, —.
- Pebbles, faceted.—Calker, F. J. P.; Gagel, C., 8; Krause, P. G.; Philippi, E., 2; *see also* Windworn stones.
- , Jurassic limestone with Triassic.—Stille, H., 4.
- , metalliferous veins with.—Halse, E., 2.
- , Ocell Conglomerate, stretched.—McCallie, S. W.
- , Rennes.—Pavot, —.
- Pecopteris*.—Vinassa de Regny, P., 6.
- Pecten*.—Arnold, R.; Cragin, F. W.; Depéret, C., 3; Fucini, A.; Gortani, M., 5; Jukovski, E., 2; Pethæ, J.; Sokolov, N.
- Pectunculus*.—Pethæ, J.; Sokolov, N.
- Pegmatite-veins, California.—Waring, G. A.
- Pegmatites, ore-veins &.—Beck, R.
- Pelé, Mt. (Martinique).—Hill, R. T.; Hovey, E. O., 1 & 2; Lacroix, A., 12.
- Peloponnesus (Greece).—Négris, P., 2 & 3.
- Peloritani Mts. (Sicily).—Lotti, B., 3.
- Pelosina*.—Chapman, F., 5.
- Pelvoux massif (Dauphiné).—Jacob, C., 2.
- Pembrokeshire.—Reed, F. R. C., 3.
- Pendleside Series, England.—Hind, W., 4; Traquair, R. H.
- , Ireland.—Hind, W.
- Pendleton (Laucs).—Davison, C., 4.
- Peneroplis*.—Bullen, R. A.
- PENFIELD, S. L., *Obit.*—*See* Anon., 12; Pirsson, L. V.
- Pennine Alps.—*See* Alps.
- Pennsylvania (U.S.A.).—Bascom, F.; Butts, C.; Kindle, E. M., 2; Mathews, E. B.; Stone, R. W.; Stose, G. W.; Travis, C.
- Pentellina*.—Schlumberger, C.
- Pentremites*.—Schuchert, C., 3; Ulrich, E. O., 2.
- Pepinster (Liège).—Dewalque, G. J. G., 3.
- Peplosmitia*.—Angelis d'Ossat, G.
- Perak (Fed. Malay States).—*See* PERAK STATE, Mines Dep.
- Perbál (Hungary).—Liffa, A., 2.
- Peridotite, Ambon.—Verbeek, R. D. M.
- , Connecticut.—Hobbs, W. H., 3.
- Periloculina*.—Schlumberger, C.
- Perisphinctes*.—Cragin, F. W.; Lee, G. W.
- Perlonjour (Hainault).—Anon., 33.
- Perm Gov. (Russia).—Abels, H. F.; Cherdantzev, A. A.; Krasnopolski, A.; Læwinson-Lessing, F., 4; Suschinski, P. P.; Yakovlev, N.
- Permian, American use of the term.—Keyes, C. R., 6.
- breccias, Devon.—Hobson, B.; Hunt, A. R., 2.
- fauna, S. Africa.—Broom, R., 2.
- footprints in European.—Pabst, W.
- , Glatz.—Flegel, K.
- , Harz Mts.—Kaiser, E., 2.
- , Kansas.—Wooster, L. C.
- , Lombardy.—Mariani, E., 2.
- , Nottinghamshire.—Hickling, G.
- , Oklahoma Terr.—Gould, C. N.
- , Württemberg.—Kranz, W.
- *See also* Perno-Carboniferous.
- Perno-Carboniferous, America (N.).—Schuchert, C., 2.
- , Cape Colony.—Sjögren, O., 4.
- glaciation, Australian & Tasmanian.—David, T. W. E., 2.
- , India.—Schuchert, C., 2.
- , New South Wales.—Chapman, F., 5; Etheridge, R. (*fil.*); Jaquet, J. B., 2.
- , Russia.—Schuchert, C., 2.
- , Transvaal.—Mellor, E. T.
- Perno-Triassic, Africa (S.).—Broom, R., 1-6.
- , Carnic Alps.—Gortani, M., 5.
- , Colorado.—Cross, W., 2.
- , Italy.—Caneva, G.
- Perna*.—Pethæ, J.
- Péronne (Picardy).—Gosselet, J., 8 & 10; Hermary, J., 2.
- Perrier, Mt. (Puy-de-Dôme).—Boule, M., 2; Stehlin, H. G.
- Persia.—Morgan, J. de; Sykes, P. M.; Zeiller, R.

- Perth (Out.).—Ells, R. W.
 Perthshire.—Bates, G. F.; Coates, H.; Du Toit, A. L.
 Peru (S. Am.).—Adams, G. I., 1-3; Denegri, M. A.; Dueñas, E. I.; Fuchs, F. G.; Hurd, H. C.; Pfluecker, 1 & 2; Polo, J. T.; Pompeckj, J. F., 2; Santolalla, F. M., 1-3; Stiles, A. I.; Sutton, C. W., 1 & 2.
 Perugia (Umbria).—Mercial, G.
Petalaxis.—Vaughan, A.
Petaurus.—Sinclair, W. J.
 Pétervárad or Peterwardein Mts. (Hungary).—Pethœ, J.
 Petit-Cœur (Savoy).—Girard, —.
 'Petit granit,' Hainault.—Anon., 33.
 Petit-Modave (Liège).—Destinez, P.
Petoceras.—Salfeld, H.
Petraia.—Whiteaves, J. F.
Petricola.—Cossmann, M., 3; Pethœ, J.
 Petrographical classification. — Lœwinson-Lessing, F., 6.
 Petroleum, Asia Minor.—Schmeisser, C., 2.
 —, Burma.—La Touche, T. D., 3.
 —, Canada.—Bell, R., 2-4; Mabery, C. F.
 —, Germany.—Bruhns, W.
 —, India.—Holland, T. H., 2.
 —, Japan.—Stigand, I. A., 2.
 —, New South Wales.—See NEW SOUTH WALES, Dep. Mines.
 —, Orange River Colony.—Sawyer, A. R., 3.
 —, origin of.—Hornung, F., 2; Ochsenius, K.; Plotts, W.; Potonié, H.
 —, Rumania.—Murgoci, G. M., 3.
 —, salt &.—Harperath, L.
 —, Silesia.—Angermann, E.; Holobek, J.
 —, Sumatra.—Tobler, A.
 —, treatise on.—Redwood, Sir B.
 —, Trinidad.—Craig, E. H. C., 2-7.
 —. See also UNITED STATES, Min. Resources.
 Petrology, experimental.—Johns, C., 4.
 —, modern.—Twelvetrees, W. H., 2.
 —, North American, 1904.—Weeks, F. B.
 —, road-metal.—Lovegrove, E. J.
 —. See also INTERNAT. CAT. SCI. LIT.
 Petrosz (Hungary).—Szadeczky, J. von.
 PETER, W. H., *Obit.*—See Russell, I. C.
Phacops.—Reed, F. R. C., 4; Schwarz, E. H. L., 8.
Phanerosaurus.—Stappenbeck, R.
 Pharmacosiderite, Tomsk. — Korotkov, —.
Phasianella.—Pethœ, J.
 PHEAR, Sir J., *Obit.*—See Marr, J. E.
 Phenacite.—Spencer, G. F. H.
 Philippine Is.—Smith, W. D., 2; Wigmore, H. L.
Phillipsia.—Vinassa de Regny, P., 6.
Phionia.—Andrews, C. W.
 Phlegræan Fields (Naples).—Suess, E., 2.
Phoberoblatta.—Handlirsch, A., 3.
Phoca, Swedish *Littorina*-deposits.—Adlerz, G.
 —, Tertiary.—True, F. W.
Phœnicopsis.—Krasser, F., 2.
Pholadomya.—Cragin, F. W.; Fucini, A.
Pholas.—Ascher, E.
 Phonolite, New Zealand.—Marshall, P., 3.
 Phosphates, Algeria.—Savornin, J.
 —, Cochin China.—Petiton, A.
 —, Otago.—Andrew, A. R., 1 & 2.
 —. See also UNITED STATES, Min. Resources.
 Phosplatic Chalk, Berkshire.—White, H. J. O., 1 & 3.
 — concretion, Thüringian Culm. — Lehder, J.
 — minerals, diamond-bearing sand.—Hussak, E., 5.
 — oceanic concretions. — Collet, L. W.
 Phosphatization of volcanic rocks by birds.—Lacroix, A., 8.
 Phosphorescent limestones, Colorado & Missouri.—Headden, W. P.
 Photography, geological.—Bingley, G.; Harrison, W. J.
 Phthanites, Liège Carboniferous. — Renier, A., 2.
Phthimomyia & *Phyloblatta*. — Handlirsch, A., 3.
Phyllobrissus.—Lambert, J.
Phylloceras.—Popovići-Hatzeg, V.
 Phyllocerata, classification of.—Prinz, G., 2; Uhlig, V., 3.
Phyllocenia.—Angelis d'Ossat, G. de.
Phyllograptus.—Barrois, C., 3.
Phyllothea. — Arber, E. A. N.; Näthorst, A. G.
 Pián, Upper (Hungary).—Halaváts, J.
 Piatigorsk (Caucasus). — Derwies, V. de.
 Piave Valley (Venetia) glaciation. — Toniolo, R. A., 2.
 Picardy (France).—Bardou, P.; Briquet, A., 2 & 3; Gosselet, J., 4, 5, 8, & 10; Hermery, J., 1 & 2; Houllier, P.; Rabelle, —; Rutot, A., 4.
 Pickering, Vale of (Yorks).—Strangways, C. F.; Sewell, J. T., 1 & 2.
 Picrite, Yenisei Gov.—Meister, A.
 Pictou coalfield (N.S.).—Poole, H. S.
 Piediluco (Umbria).—Lotti, B., 2.
 Piedimonte Etneo (Catania).—Scalia, S., 2.
 Piedmont (Italy).—Argand, E.; Bellini, R.; Colomba, L., 1-3; Figari, L.; Franchi, S., 1-4; Mattiolo, E.; Novarese, V., 1 & 2; Preiswerk, H.; Prever, P. L., 2; Roccati, A., 1-5; Rovereto, G., 2; Sacco, F., 2, 3, 5, 7, & 8; Zambonini, F., 4.
 — district (Ind. & Pa.).—Bascom, F.; Mathews, E. B.

- Pierre-à-Voir massif (Valais).—Duparc, L.
- Pietrasanta (Tuscany).—Martelli, A., 4.
- 'Pietre verdi.'—Franchi, S., 3 & 5; Mattiolo, E.; Novarese, V.
- Pilbara (W. Austral.).—Lindgren, W., 3; Maitland, A. G., 2 & 3.
- Pilandsberg (Transvaal).—Molengraaff, G. A. F., 2.
- PILLA, L., *Obit.*—See Canavari, M.
- PILLET, L., geological work of.—See Révil, J.
- Pinakodendron.*—Kidston, R., 2.
- Pinites.*—Krasser, F., 2.
- Pinna.*—Cragin, F. W.; Harbort, E.; Schuetze, E.; Woods, H.
- Pinniped, Miocene.—Condon, T.
- Pioche Mts. (Nev.).—Pack, F. J.
- Piora Lakes (Ticino).—Garwood, E. J.
- Pipes, molybdenite.—Andrews, E. C.
- Pirallolite.—Roccati, A., 2.
- Pishin (Baluchistan).—Dieuer, C., 4.
- Pisolithic barytes.—Wuestner, H.
- iron-ore.—See Oolitic iron-ore.
- Piszke (Hungary).—Prinz, G., 4.
- Pitchstones, Sgurr of Eigg.—Harker, A., 3.
- Piura (Peru).—Adams, G. I.
- Pizzul, Mt. (Carnic Alps).—Vinassa de Regny, P., 6.
- Placer-gold, Alaska.—Moffit, F. H.; Prindle, L. M.
- , Congo Free State.—Buttgenbach, H., 5.
- , origin of.—Lovewell, J. T.
- Placer-mining, Alaska.—Purinton, C. W.
- , Klondyke.—Tyrrell, J. B.
- Placopsilina.*—Chapman, F., 5.
- Plagioblatta.*—Handlirsch, A., 3.
- Plagioclase.—Becke, F., 5; see also Felspar.
- Plagiolophus.*—Stehlin, H. G., 2.
- Plains, Central United States.—Darton, N. H., 2.
- Plan-de-Nette (Savoy).—Kilian, W., 4.
- Planorbis.*—Gutzwiller, A.
- Planorbulina.*—Bulleu, R. A.
- Plants, Carboniferous.—Cornet, J., 6; Dun, W. S.; Foureau, F.; Gœbel, F.; Gortani, M.; Grand'Eury, F. C., 1-3; Karpinski, A., 2; Kidston, R., 1-3; Nathorst, A. G., 2; Renier, A., 1 & 2; Scott, D. H., 2 & 3; Seward, A. C.; Stenzel, K. G.; Stopes, M. C.; Vinassa de Regny, P., 4 & 6; Watson, D. M. S., 2; Zalesski, M., 1 & 2.
- , Cretaceous.—Berry, E. W., 2; Krasser, F.; Richter, P. B.; Seward, A. C., 2; Ward, L. F.
- , Culm.—Grand'Eury, F. C., 3.
- , Devonian.—Schwarz, E. H. L., 8.
- , evolution as shown by fossil.—Krašan, F.
- , geological distribution of.—Berry, E. W.; Smith, W. G.
- Plants, Jurassic.—Benham, W. B.; Krasser, F., 2; Lignier, O.; Nathorst, A. G., 4 & 5; Newton, R. B.; Seward, A. C., 2; Ward, L. F.; Wieland, G. R.; Yabe, H.
- , microsporangia of.—Kidston, R.
- , peat-bog.—Post, L. von.
- , Permo-Carboniferous.—Arber, E. A. N.; Chapman, F., 4; Nathorst, A. G.
- , Quaternary.—Andersson, J. G., 4; Chapman, F.; Hagstrom, O.; Holst, N. O.; Kendall, P. F., 2; Lewis, F. J., 1 & 2; Witte, H.
- , Rhætic.—Zeiller, R.
- , Tertiary.—Bonnet, E., 2 & 3; Engelhardt, H.; Halle, T. G.; Palibin, I. V., 1 & 2; Perkins, G. H.; Salle, E.
- , Triassic.—Arber, E. A. N., 2; Benecke, E. W., 3; Kerner, F. von, 3; Ward, L. F.
- , See also Wood, fossil.
- Platanus.*—Berry, E. W., 2.
- Platinum, Brazil.—Hussak, E., 6.
- , occurrence of.—Johnstone, S. J.
- , Urals.—Katterfeld, G. S.
- Platinx.*—Eastman, C. E.
- Platyceras.*—Clarke, J. M., 5.
- Platyspondylus.*—Foureaux, F.
- Plauen (Saxony).—Hartung, H.
- Plauenscher Grund (Saxony).—Washington, H. S., 2.
- PLAYFAIR & LAMARCK, 1802.—Geikie, Sir A., 2.
- Plectella.*—Lamanski, V. V.
- Plectoceras.*—Whiteaves, J. F., 2.
- Pleistocene, Anglo-Belgian.—Lorié, J., 3.
- lake, Portugal.—Hull, E., 2.
- , See also Quaternary, &c.
- Plesiohyllia.*—Koby, F.
- Plesiosaurs, N. American.—Williston, S. W., 2.
- Plesiosaurus.*—Osburn, R. C.
- Plesiotriton.*—Oppenheim, P.
- Plessur Alps (Grisons).—Hæk, H.
- Pleuraecanthus.*—Jækel, O., 2.
- Pleurocora.*—Felix, J.
- Pleurosmitia.*—Angelis d'Ossat, G. de.
- Pleurotoma.*—Oppenheim, P.
- Pleurotomaria.*—Cragin, F. W.; Dainelli, G.; Harbort, E.; Vinassa de Regny, P., 6.
- Plicatula.*—Cragin, F. W.
- Pliocene, Cromer.—Harner, F. W.; Lorié, J., 2 & 3; Reid, C., 2.
- , Tegelen.—Harner, F. W.; Lorié, J., 2 & 3.
- , Ticino.—Blumer, S.
- , See also Tertiary.
- fjord, Breggia Valley.—Heim, A., 3.
- Pliomera.*—Reed, F. R. C., 4; Wiman, C.
- Plomo (Colo.).—Gunter, C. G.
- Plougasnou (Britanniy).—Cayeux, L., 4.

- Plynlimmon District (Caerdigan).—Jones, O. T.
 Pocahontas Co. (U.S.A.).—Macbride, T. H.
 Podolia (Russian & Austrian).—Siemiradzki, J. von, 1 & 2.
Podozamites.—Krasser, F., 2; Newton, R. B.
 Poitiers (France).—Breuil, H.; Welsch, J., 1-4.
 Pojén (Transylvania).—Schafarzki, F.
 Pokolbin limestone, New South Wales.—Chapman, F., 5.
 Poland.—Siemiradzki, J. von, 3.
 Polena (Hungary).—Posewitz, T., 2.
Poleumita.—Clarke, J. M., 7.
Pollicipes.—Woodward, H., 6.
Polycotylus.—Williston, S. W., 2.
Polycreagra.—Handlirsch, A., 3.
Polycyclus.—Hyatt, A.
Polydesmia.—Lorenz, T., 2.
Polyetes & Polyetoblatta.—Handlirsch, A., 3.
Polyorophina & Polystomella.—Bullen, R. A.
 Polyne Quarry (Cornwall).—Green, U.
Polypora.—Hennig, A.
Pomatias.—Gutzwiller, A.
 Pomerania (Prussia).—Deecke, W., 1, 2, & 5; Schmidt, M.
 Pomeroy (Tyrone).—Fearnside, W. G.
 Pompeii (Italy).—Lacroix, A., 12.
 Pondoland (S.A.).—Crick, G. C.
 Pont de l'Abime (Savoy).—Deslarmes, J., 2.
 Pontian.—See Tertiary.
 Ponza Is. (Italy).—Galdieri, A.
Popanoceras.—Hyatt, A.
 Popocatepetl (Mexico).—Guild, F. N.
Porambonites.—Lamanski, V. V.
Poroblattina.—Handlirsch, A., 3.
 Porosity & pressure, underground water &.—Baldwin-Wiseman, W. R.
 Porphyrite, Queensland.—Jensen, H. I., 2.
 Porphyritic granite, Hesse.—Chelius, C.
 — tuff, Waldenberg.—Dathe, E., 3.
 Porphyry, Ambon.—Verbeek, R. D. M.
 —, Argentina.—Bodenbender, G.
 —, Argyll.—Hill, J. B., 2.
 —, Brazil.—Evans, J. W., 2.
 —, Corsica.—Deprat, J., 4.
 —, Germany.—Bruhns, W.
 —, Greenland.—Belowski, M.
 —, Kilimanjaro.—Finck, L.
 —, microscopic structure of.—Lewinson-Lessing, F., 9.
 —, Namur.—Mathieu, É.
 —, New Hebrides.—Mawson, D.
 —, Quenast.—Hankar-Urban, A.
 —, Tyrol.—Wolf, F. von.
 Portage Group, New York.—Whitfield, R. P.
 Porthalla & Porthluney (Cornwall).—Green, U.
Porthochelys.—Hay, O. P., 3.
 Portland-cement slag, petrography of.—Hermann, P.
 Portugal.—Hlawatsch, C.; Hull, E., 2.
 Portuguese E. Africa.—Cuyat, J., 2.
 Posen (Prussia).—Jentsch, A., 6.
Posidonia.—Frech, F., 2; Michael, R., 2.
 — in basalt, Baden.—Becker, E.
 Postale, Mte. (Venetia).—Eastman, C. R.
Postalia.—Dainelli, G.
 Pot-holes, California.—Gilbert, G. K., 2.
 —, Gothland.—Hamberg, A., 2.
 —, Ingleborough.—Broderick, H.
Potamides.—Oppenheim, P.
 Potash-salts, Germany.—Bruhns, W.; Currie, J., 2; Koenen, A. von.
Poterioceras.—Clarke, J. M., 7.
 POTIER, A., *Obit.*—See Gosselet, J., 6.
 Potzberg (Rh.-Bavaria).—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
 Pozoga (Transylvania).—Kadić, O., 2.
 Pozzuoli (Naples).—Cool, H.
Præcaprina.—Päquier, V., 2.
Præluca.—Scupin, H.
 Prägraten (Tyrol).—Westergård, A. H., 3.
 Pre-Cambrian, Colorado.—Ball, S. H.
 —, Finland.—Jakovlev, S. A.; Ramsay, W., 4.
 — nomenclature, N. America.—Coleman, A. P., 3.
 —, Ontario.—Miller, W. G., 1-3.
 Precious stones, Ceylon.—Coomaraswamy, A. K., 2.
 —, Germany.—Bruhns, W.
 —, Madras Pres.—Fermor, L. L., 5.
 —, Otago.—Thomson, J. A.
 —, Victoria.—Kitson, A. E.
 —. See also UNITED STATES, Min. Resources.
 Predazzo (Tyrol).—Block, J.
Prestwichia.—Baldwin, W., 2.
 Pretoria (Transvaal).—Hall, A. L., 1, 3-5; Molengraaff, G. A. F.
 Pretoria Series, Transvaal.—Hall, A. L., 5; Holmes, G. G.; Molengraaff, G. A. F.; Steart, A. F.
 Prieska (Cape Colony).—Hatch, F. H., 3; Rogers, A. W., 2; Schwarz, E. H. L., 9; Sjögren, O., 4.
 Primates, Tertiary.—Loomis, F. B.
 Primel (Britanny).—Cayeux, L., 4.
 Prince-Albert District (Cape Colony).—Sandberg, C. G. S.
 Prince-Edward Island (Canada).—Bell, R., 2.
 Prince-William Sound (Alaska).—Grant, U. S.
 Princeton-University Expeditions to Patagonia.—Sinclair, W. J.
Prionastræa.—Gregory, J. W., 3.
Procolophon.—Thyng, F. W.
Procyon.—Gidley, J. W., 2.

- Productus*. — Foureau, F. Gortani, M., 5; Keidel, H.; Koken, E., 3; Vaughan, A.; Vinassa de Regny, P., 6.
- Progenetomum*. — Handlirsch, A., 3.
- Propalaeotherium*. — Stehlin, H. G., 2.
- Prophilanthus*. — Cockerell, T. D. A.
- Propithecus*. — Grandidier, G.
- Proptychites*. — Hyatt, A.
- Prorosmarus*. — Berry, E. W., 3.
- Prosodacna*. — Seninski, K., 2.
- Prospingites*. — Hyatt, A.
- Prothylacynus*. — Sinclair, W. J.
- Protocalamites*. — Göebel, F.
- Protophragmoceeras*. — Clarke, J. M., 7.
- Protostephanus*. — Cockerell, T. D. A.
- Protriton*. — Théveniu, A.
- Provence (France). — Grossouvre, A. de; Guébbard, A., 5; Kilian, W., 2 & 6; Replin, J.; Toucas, A; see also Var, &c.
- Prowersose, Colorado. — Cross, W.
- , Maine (U.S.A.). — Bastin, E. S.
- Prozeuglodon*. — Andrews, C. W.
- Prunoides*. — Perkins, G. H.
- Prussia. — Linstow, O. von, 2; Walther, J.
- coliths in. — Wiegers, F., 1-4.
- See also Brandenburg, Glacial deposits, Moraines, &c.
- (E.). — Braun, G.; Krause, P. G.
- (W.). — Krause, P. G.; Jentzsch, A., 2, 4, & 5.
- Prussian lakes. — Jentzsch, A.
- Psaronius*. — Arber, E. A. N.; Stenzel, K. G.
- Pseudocidaris*. — Lambert, J.
- Pseudocythere*. — Neviani, A., 2.
- Pseudogerarus* & *Pseudohomothetus*. — Handlirsch, A., 3.
- Pseudolestodon*. — Rautenberg, M.
- Pseudomelania*. — Cragin, F. W.
- Pseudomonotis*. — Gortani, M., 5; Renz, C., 2.
- Pseudomorphs. — Cornu, F.; David, T. W. E., 2; Graham, R. P. D.; Pearce, R., 2; Schneider, O.
- Pseudosageceeras*. — Hyatt, A.
- Pteridomyglacris*. — Handlirsch, A., 3.
- Pteridospermeæ, Carboniferous. — Kidston, R., 1 & 3.
- Pterinea*. — Scupin, H; Whiteaves, J. F.
- Pterinopecten*, Devonian. — Clarke, J. M., 5.
- Pterodactylidæ, Jurassic. — Gilmore, C. W., 2.
- Pterodactylus*. — Plieninger, F., 2 & 3.
- Pterodon* & *Pterosphenus*. — Andrews, C. W.
- Pterosauria, Jurassic. — Plieninger, F., 2-4.
- Pterygotus*. — Seemann, F.
- Ptilograptus*. — Ruedemann, R.
- Ptychites*. — Hyatt, A.
- Ptychogyra*. — Harbort, E.
- Ptychomya*. — Cragin, F. W.; Harbort, E.
- Ptychospira*. — Reed, F. R. C., 2.
- Puebla (Mex.). — Ordoñez, E.
- Puech d'Alzou (Aveyron). — Marty, P.
- Puella*. — Scupin, H.
- Pantaloni (I. of Pago). — Waagen, L.
- Pupa*. — Friedberg, W. S. von; Gutzwiller, A.
- Purbeck Beds, Berne. — Trösch, A.
- —, Dorset. — Chapman, F., 2.
- —, Sussex. — Whitaker, W.
- Purbeck, I. of (Dorset). — Strahan, A.
- Purcell Mts. (B.C.). — Daly, R. A., 3.
- Purley Oaks (Surrey). — Stanley, W. F.
- Purpurite. — Graton, L. C.
- Purpuroidea*. — Choffat, P.
- Püspökfürdő (Hungary). — Kormos, T.
- Putna (Rumania). — Nicolau, T.
- Puy-de-Dôme (France). — Boule, M., 2;
- Capitan, L.; Glangeaud, P.; Stehlin, H. G.; see also Auvergne.
- Pycnodonts, Jurassic-Tertiary. — Hennig, E.
- Pygites* & *Pygope*. — Buckman, S. S.
- Pygorhynchus*. — Krumbeck, L.
- Pygurus*. — Lambert, J.
- Pyramidella*. — Pethö, J.
- Pyrenees (French). — Belloc, É.; Bertrand, L.; Carez, L.; Prever, P. L., 2; Viré, A., 2.
- (Spanish). — Chevalier, M.
- Pyrites, Arizona. — Reid, J. A.
- , Bosnia. — Mauritz, B.
- , Erzgebirge (Saxon). — Baumgärtel, B.
- , Harz. — Schleifenbaum, W.
- , Hungary. — Papp, K. von; Zimanyi, K.
- , Molteno quartzite-boulder with. — Schwarz, E. H. L., 7.
- , Pennsylvania. — Travis, C.
- , S. Spain. — Preiswerk, H., 2; Wetzig, B.
- Pyromorphite, New South Wales. — Mingay, J. C. H., 2.
- , Saône-et-Loire. — Gaubert, P., 4.
- Pyropissite, British East Africa. — Potonié, H., 2.
- Pyrrhotite. — Kaiser, E.
- , nickeliferous. — Campbell, W., 2.
- Quarries, British Is. — See GREAT BRITAIN. Home Office.
- , rock-movements & falls in. — Hankar-Urban, A.
- Quartz. — Day, A. L.; Gonnard, F., 3
- Königsberger, J., 2; Repossi, E.
- -biotite-schists, New Zealand. — Bell, J. M., 3.
- , crystallography of. — Spezia, G.
- -crystals, Carboniferous Limestone with. — Maillieux, E.
- — in slags. — Quensel, P. D., 2.
- , etched figures &. — Muegge, O., 2.
- -felsite, Peake (N.S.W.). — Larcombe, C. O. G.
- , fluid-cavities in. — Königsberger, J.

- Quartz-porphry, Argyll.—Hill, J. B., 2.
 ———, Corsica.—Deprat, J., 4.
 ———, Jubbulpore.—Fermor, L. L., 2.
 ———, Tyrol.—Wolff, F. von.
 ———, synthesis of.—Berthelot, A.
 ———veins, Alaska.—Spencer, A. C., 2 & 3.
 ———, Nevada.—Hastings, J. B.; Spurr, J. E., 5.
 Quartzite-boulder, Molteno Sandstone.—Schwarz, E. H. L., 7.
 ———pebbles, Yorkshire.—Stather, J. W., 3.
 Quartzose gravel, Anhalt.—Cornu, F., 2.
 ———, Lane End, Reading Beds with.—White, H. J. O., 2.
 Quaternary deposits, Austria.—Abel, O., 2; Fugger, E., 4.
 ———, Belgium.—Delheid, E., 2; Moulon, M., 4; Rutot, A., 5.
 ———, Cambridgeshire.—Bullen, R. A., 2.
 ———, Catania.—Scalia, S., 2.
 ———, Crete.—Bullen, R. A.
 ———, Donetz Basin.—Borisyak, A., 2.
 ———, Finland.—Ramsay, W., 2, 3, & 5.
 ———, Germany (N.).—Gagel, C., 3 & 9; Grupe, O.; Jentzsch, A.; Martin, J.; Schröder, H., 3; Schucht, F.; Siegert, L.; Wieggers, F., 1-4; Wolff, W.
 ———, Godávári R.—Pilgrim, G. E.
 ———, Hesse.—Freudenberg, W., 2.
 ———, Hungary.—Horusitzky, H., 3.
 ———, Illinois.—Anderson, N. C.; Udden, J. A.
 ———, Iowa.—Anderson, N. C.; Udden, J. A., 1 & 2.
 ———, Man (I. of).—Reade, T. M., 4.
 ———, Martha's Vineyard I.—Bowman, J.
 ———, Massachusetts.—Fuller, M. L., 2.
 ———, Nantucket I.—Wilson, J. H.
 ———, Netherlands.—Calker, F. J. P.
 ———, Nord.—Rutot, A., 5.
 ———, Norfolk, &c.—Lorié, J., 3.
 ———, Normandy.—Babeau, L.
 ———, Paris.—Pujet, R.
 ———, Rügen I.—Deecke, W., 6.
 ———, Savoy.—Douxami, H., 4; Vivien, J.
 ———, Schaffhausen.—Meister, J.
 ———, Scotland.—Geikie, J.
 ———, Silesia.—Guerich, G.
 ———, Sweden.—Andersson, J. G., 4.
 Quaternary deposits, Sylt.—Geinitz, E.; Petersen, J.; Stolley, E.
 ———, Ticino.—Blumer, S.; Schmidt, C., 2.
 ———, Tunis.—Lamothe, R. de.
 ———, Umbria.—Ugolini, R.
 ———, Venetia.—Toniole, R. A.
 ———, Yorkshire.—Sheppard, T., 1-5.
 ———. See also Drift, &c.
 ——— period, changes of the earth's axes & the.—Péroche, J.
 ———, duration of the.—Rutot, A., 2.
 Quebec (Canada).—Bell, R., 3 & 4; Dresser, J. A., 1 & 2; Wilson, A. W. G.
Quebecia.—Walcott, C. D., 2.
 Quedlinburg (Germany).—Richter, P. B.
 Queen Charlotte Is. (B.C.).—Ward, L.
 Queen's Co. (Ireland).—Brenan, G.
 Queensland.—Blake, G. S., 3; Dunstan, B.; Henderson, J. B.; Jensen, H. S., 2; see also QUEENSLAND, Geol. Surv.
 Quenast (Brabant).—Hankar-Urban, A.; Lagrange, E.
 Quercite.—Fedorov, E. von, 3.
 Querétaro (Mex.).—Villaseñor, F. F.
 Quicksilver, Carniola.—Muellner, A., 2.
 ———, Germany.—Bruhns, W.
 ——— mineral, a new.—Hillebrand, W. F.
 ———, Rhenish-Bavaria.—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
 ———, Servia.—Fischer, H.
 ———, Texas.—Philips, W. B.; Turner, H. W.
 ———. See also Cinnabar.
 Raccoon, Quaternary.—Gidley, J. W., 2.
 Radein (Styria).—Rumpf, J.
 Radioactivity, soils &.—Borne, G. von dem; Severin, E.
 ———, thorium-minerals &.—Boltwood, B. B.
 ———, Vesuvian ash.—Nasini, R.
 ———, volcanoes &.—Dutton, C. E.
 ———. See also Minerals.
 Radiolaria, Condri tripoli.—Cocco, L.
 Radiolites.—Toucas, A., 2; Wegner, T.
 Radium, earth &.—Eve, A. S., 2; Fisher, O., 2 & 3; Joly, J.; Palmer, B. J.; Reade, T. M.; Strutt, R. J.
 ——— minerals.—Eve, A. S.; Rutherford, E.
 Radstock (Somerset).—Watson, D. M. S.
 Rafré, Mt. (Graian Alps).—Stella, A.
 Rain, water-level &.—Gosselet, J., 7.
 Raised beaches, Alaska.—Tarr, R. S., 4.
 ———, Cornwall.—Whitley, D. G.
 ———, Hesse.—Crofts, W. H.
 ———, ice &.—Braun, G., 3.
 ———, Iceland.—Braun, G., 2; Knipovich, N.

- Raised beaches, Michigan.—Goldthwait, J. W.; Taylor, F. B.
 ———, Norway.—Rekstad, J.; Suess, E., 2.
 ———, Norrbotten.—Sjögren, O.
 ———, Ontario.—Bell, R., 2.
 ———, Scotland.—Jamieson, T. F.
 Rajputana (India).—Fermor, L. L.
 Rakat6 (Transylvania).—Roth von Telegd, L., 2.
 Rangoon (Burma).—Pilgrim, G. E., 2.
 Rapakivi granite, Finland.—Ramsay, W., 4.
Rapitoma.—Cossmann, M., 3.
 Rare earths.—Ongaro, G.
 Raritan Bay (N.J.).—Berry, E. W., 2.
 RASLEIGH collection of British minerals.—Rashleigh, P.
 Rastel Grab (Dalmatia).—Schubert, R. J., 5.
 Rauracian, Swiss Jura.—Bakalov, P.
 Rayleigh (Essex).—Salter, A. E., 3.
 Reading Beds, Bucks.—White, H. J. O., 2.
 Recoaro (Italy).—Maddalena, L.
 Red Beds, Colorado.—Cross, W., 2.
 Red Mountain (Ariz.).—Atwood, W. W.
 ———, Ouray Co. (Colo.).—Schwarz, T. E.
 Redbank Sands, New Jersey.—Willcox, O. W.
 Redcar (Yorks).—Herries, R. S., 1 & 2.
 Redonian, Normandy.—Dollfus, G. F., 5.
 Reefs, Witwatersrand.—Johnson, J. P., 6; *see also* Coral & Stone.
 Refraction, index of.—Pearce, F.; Smith, G. F., 2.
 Regenstauf (Bavaria).—Wanderer, K.
 Regnitz Valley (Bavaria).—Neumeister, P.
 Reindeer, palæolithic station near Freiburg i. Br.—Steinmann, G., 2.
 Reinerz-Cudowa Ry. (Glatz).—Flegel, K.
 Rekenyefalu (Hungary).—Gesell, A.
 RENAULT, B., *Obit.*—*See* Scott, D. H.
 RENEVIER, E., *Obit.*—*See* Anon., 13; Major, C. I. F.; Rutot, A., 8; Vacek, M., 2.
 Rennes (Britanny).—Pavot, —.
Rensselæria.—Reed, F. R. C., 2; Schwarz, E. H. L., 8.
Reptelea & Reptomultealea.—Lang, W. D.
 Reptilia, Bohemian fossil.—Bayer, F.
 ———, Cretaceous.—Brown, B.; Dollo, L.; Gilmore, C. W.; Hooley, R. W.; Lull, R. S.; Nopcea, F. Baron (*fil.*); Riggs, E. S.; Williston, S. W., 2 & 3.
 ———, Jurassic.—Dollo, L.; Gilmore, C. W., 2; Holland, W. J.; Huene, F. von, 2 & 4; Osborn, H. F., 2; Plieninger, F., 2-4; Stolley, E., 9; Thyng, F. W.; Woodward, A. S.
 ———, limb-modifications of aquatic.—Osborn, R. C.
 ———, Permian.—Osborn, H. F., 3; Stappenbeck, R.
 ———, Permo-Carboniferous.—Broom, R.; Jækel, O., 3.
 Reptilia, Permo-Triassic.—Broom, R., 1-6; Jækel, O., 1 & 2; McGregor, J. H.
 ———, squamosal bone in.—Thyng, F. W.
 ———, Tertiary.—Andrews, C. W.; Janensch, W.
 ———, Triassic.—Huene, F. von, 1 & 3; Stappenbeck, R.
 ———. *See also* Dinosauria, Chelonia, &c.
 Reptilian footprints, Permian.—Pabst, W.
Reticularia.—Keidel, H.; Kindle, E. M.; Vaughan, A.
 Rév-Biharkalota (Transylvania).—Szontagh, T. von.
 Reval (Esthonia).—Lamanski, V. V.
 Revard, Mt. (Savoy).—Gimet, F. S.; Lachéroy, —; Révil, J., 10.
 Rézbánya (Hungary).—Szadeczky, J. von.
Rhabdocarpus.—Kidston, R., 2.
Rhabdoceras.—Hyatt, A.; Janensch, W., 2.
Rhacophyllites.—Diener, C., 4.
Rhacopteris.—Dun, W. S.
 Rhætian Alps.—Rothpletz, A., 2; *see also* Alps.
 Rhætic.—Devon & Dorset.—Richardson, L., 7.
 ———, Gloucestershire.—Paris, E. T.
 ———, Lombardy.—Mariani, H.
 ———, Persia.—Zeiller, R.
Rhagatherium.—Andrews, C. W.
Rhamphorhyncus.—Gilmore, C. W., 2.
 Rhein-Hesse.—*See* Hesse.
 Rhenish Bavaria.—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
 Rhenish Prussia.—Dorlodot, L. de, 3; Einecke, G.; Lohest, M., 4; Pohlrig, H.; Renz, C., 3.
 Rhenish-Westphalian coalfield.—Krisch, P.
Rhenoerinus.—Schmidt, W. E.
 Rhine R. between Baden & Basel.—Greppin, E.
 Rhine Valley.—Rutot, A.
 ———, faults, Weinheim.—Freudenberg, W., 2.
 ———, terraces, Baden.—Freudenberg, W.
Rhinoceros.—Flores, E.; Sacco, F., 9; Schroeder, H., 2; Toula, F., 2; Ugolini, R.
Rhipidomella.—Kreidel, H.
Rhiptozanites.—Krasser, F., 2.
 R'hira Desert (Algeria).—Fleury, —.
Rhizomopteris.—Nathorst, A. G., 4.
Rhizophyllum.—Shearsby, A. J.
 Rhodesia (S.A.).—Beck, R., 3; Brackenbury, C.; Flett, J. S.; Gregory, J. W., 5-7; Johnson, J. P., 3; Mennell, F. P., 2-4; Parsons, C. E.
 Rhodocrosite.—Millosevich, F.
 Rhodonite.—Roccati, A., 3.
 Rhomb-porphry, Kilimanjaro.—Finck, L.

- Rhône Valley, terraces below Lyons.—Lamothe, R. de, 2.
- Rhymney Valley (S. Wales).—Galloway, W.
- Rhyncholithes*.—Till, A.
- Rhynchonella*.—Ascher, E.; Buckman, S. S., 2; Gentil, L., 3; Martelli, A., 3.
- Rhynchospira*.—Whiteaves, J. F.
- Rhyolite, Mexico.—Guild, F. N.
- , Namur.—Mathieu, E.
- , Nevada.—Spurr, J. E., 2.
- , New Zealand.—Sollas, W. J., 3.
- , Queensland.—Jensen, H. I., 2.
- , Somaliland.—Arsandaux, H.
- Rhytidodon*.—McGregor, J. H.
- Ribemont (Picardy).—Rabelle, —.
- RICHTHOFEN, F. VON, *Obit.*—See Bertrand, J.; Dalla Vedova, G.; Drygalski, E. von, 2; Lóczy, L. von; Marr, J. E.; Tiessen, E.; Tietze, E. A.; Voit, C.; Walmschaffe, W.
- Riddarhyttan (Sweden).—Lindström, G.
- Riebeckite.—Termier, P., 3.
- rocks, origin of.—Murgoci, G. M.
- Riesengebirge (Silesia).—Milch, L.
- Rimella*.—Oppenheim, P.
- Rinxent (Pas-de-Calais).—Hamy, E. T.
- Rio-Grande Valley (Tex.).—Slichter, C. S.
- Ripidolite.—Manasse, E., 2.
- Ripple-marks, Bavarian Oligocene.—Stuchlik, H.
- , formation of.—Deecke, W., 4.
- Rissoina*.—Ascher, E.
- RISTORI, G., *Obit.*—See Stefani, C. de.
- Ritom, Lake (Ticino).—Garwood, E. J.
- River-deposits, rate of sedimentation.—Christen, T.
- robbing.—Briquet, A., 3 & 5; Capedar, G.; Carter, W. L., 4.
- terraces, formation of.—Sevastos, R.
- Rivers, Cape Colony.—Schwarz, E. H. L.
- , India.—Vredenburg, E.
- , silting up of.—Petch, T.
- , subterranean, Ardèche.—Raymond, P.
- , Turkestan.—Huntington, E.
- Road-metal.—Lovegrove, E. J.
- Robin-Hood's Bay (Yorks).—Herries, R. S., 1 & 3.
- Robinson District (Nev.).—Lawson, A. C.
- ROCHE, A., *Obit.*—See Bonnet, E.
- Rock-decomposition by water-action.—Cushman, A. S.
- elasticity, seismology &.—Kusakabe, S., 2 & 3.
- metamorphism, W. Australia.—Lindgren, W., 3.
- movements in mines.—Hankar-Urban, A.
- phosphatization by birds.—Lacroix, A., 7.
- pressure, thermal waters &.—Koenigsberger, J., 4.
- salt, Rumania.—Costachescu, N.
- Rock-sections, microscopic.—Hilton, H.
- Rock-weathering.—Berg, G.; Hilgard, E. W.; Rideal, S.; see also Erosion, &c.
- Rocks, black coating on.—Evans, J. W., 2.
- , hardness of.—Lovegrove, E. J.
- , plasticity of.—Adams, F. D., 2 & 3.
- , rigidity of.—Kusakabe, S.
- , water-levels in.—Andrimont, R. d', 1 & 2.
- Rocky Mts. (N. Am.).—Keyes, C. R., 2; Ritter, E. A.; Sherzer, W. H.
- Rome (Italy).—Angelis d'Ossat, G. de, 2; Cappelli, G. B.; Clerici, E., 2; Moderni, P.; Napoli, F.; Silvestri, A., 1 & 2; Verri, A.
- Rossia (Hungary).—Szontagh, T. von, 2.
- Rösteberge (Harz).—Kaiser, E., 2.
- Rotalia*.—Bullen, R. A.
- Rothau (Vosges).—Mueller, F. T.
- Roxbury Conglomerate, Mass.—Mansfield, G. R., 2.
- Royal Commission on Coal-Supplies, 1901-05.—Greenwell, A.
- Royston (Herts).—Bonney, T. G.
- Rozsnoyó (Hungary).—Gesell, A.; Kápolna, V. P. von; Reguly, E.
- Rozzo (Istria).—Manek, F.
- Ruby, India.—Holland, T. H., 2.
- Ruby-rock, Leydsdorp.—Tweddill, S. M.
- Ruda (Dalmatia).—Kerner, F. von, 3.
- Rüdersdorf (Brandenburg).—Menzel, H., 2.
- Rudistæ, Cretaceous.—Pâquier, V., 2; Snethlage, E.
- Rügen I. (Prussia).—Deecke, W., 6.
- Rum I. (Hebrides).—Harker, A., 1 & 4.
- Rumania.—Andrussov, N.; Costachescu, N.; Mrazec, L.; Murgoci, G. M., 2; Nicolau, T., 1-3; Popovići-Hatzeg, V.; Severin, E.; Simionescu, I.
- Runswick Bay (Yorks).—Herries, R. S., 1 & 3.
- Rush (Co. Dublin).—Matley, C. A.
- RUSSELL, I. C., *Obit.*—See Anon., 14; Lombard, W. P.; & Pirsson, L. V.
- Russia, Arctic.—Ramsay, W., 2 & 5; see also Archangel, Finland, &c.
- , borings for water in.—Sintzov, I., 2.
- (S.).—Andrussov, N., 1 & 2; Bogachev, V.
- See also Crimea, Donetz, Jurassic, Urals, &c.
- Rustella*.—Walcott, C. D., 2.
- Rustenburg (Transvaal).—Hall, A. L., 3 & 4; Molengraaff, G. A. F., 2.
- Ruszkabánya (Transylvania).—Nopcsa, F., Baron (*fl.*).
- Rutile.—Baunhauer, H.
- Rutland.—Thompson, B., 3.
- Rzeszów (Galicia).—Friedberg, W. S. von, 2.
- Saale R. (Prussia).—Picard, E.; Wuest, E.

- Saarbrücken coalfield, extension into French Lorraine.—Bergeron, J.; Laur, F.
- Saghattherium*.—Andrews, C. W.
- Sahara (N. Africa).—Chudeau, R., 1 & 2; Foureau, F.; Haug, É., 2; Peron, A., 3.
- Saigneville (Picardy).—Gosselet, J., 10.
- St. Andreasberg (Hanover).—Bode, A.
- St. Austell (Cornwall).—Williams, R. H.
- St. Bernard Quay (Paris).—Pujet, R.
- St. Cassian Beds, Tyrol.—Koken, E., 4.
- St. Clears (Caermarthen).—Evans, D. C.
- St. Croix R. (U.S.A.).—Upham, W.
- St. Étienne (Loire).—Termier, P., 5.
- St. Francis Valley (Quebec).—Dresser, J. A.
- St. Gall (Switzerland).—Heim, A., 5; Hoek, H., 2; Schmidt, C., 2.
- St. Gariel Mts. (Cal.).—Arnold, R., 2.
- St. Gaultier (Indre).—Garde, G.; Launay, H. de.
- St. Genest-Champanelle (Puy-de-Dôme).—Capitan, L.
- St. Germain-en-Laye (Seine-et-Oise).—Embry, P.
- St. Gotthard Massif.—Garwood, E. J.; Mariani, E., 3.
- St. Hugon, Chartreuse de (Savoy).—Davin, L.
- St. Ives Bay (Cornwall).—Whitley, D. G.
- St. Jean-de-Maurienne (Savoy).—Révil, J., 8.
- St. Jean Peninsula (Alpes-Maritimes).—Maury, E.
- St. Louis limestone, Kentucky.—Ulrich, E. O., 2.
- St. Lucia (W.I.).—Hovey, E. O., 3.
- St. Maixent (Deux Sèvres).—Welsch, J., 1-4.
- St. Michel, Mt. (Savoy).—Hollande, D., 2; Vivien, J., 2 & 4.
- St. Monans (Fife).—Crampton, C. B.
- St. Pierre (Martinique).—Lacroix, A., 12.
- St. Pierre-d'Entremont (Savoy).—Douxami, H.
- St. Pierre-de-Maillé (Poitiers).—Breuil, H.
- St. Symphorien (Hainault).—Greindl, Baron L.
- St. Thomas I. (Gulf of Guinea).—Lacroix, A., 8.
- St. Vallier (Alpes-Maritimes).—Guéhard, A.; Koby, F.
- St. Véric (Hautes-Alpes).—Termier, P., 3.
- St. Vincent (W.I.).—Hovey, E. O.
- Sajo, Lower (Hungary).—Zimányi, K., 2.
- Salem (Ky.).—Ulrich, E. O., 2.
- Salentine Peninsula (Apulia).—Stefano, G. di.
- Salisbury Plain (Wilts).—Jukes-Browne, A. J.
- Salix*.—Berry, E. W., 2.
- Salt, Aargau.—Muehlberg, F., 2.
- , blue crystals of.—Focke, F.
- , Cheshire.—Pocock, T. I.
- Salt, Chile.—Herrmann, A.
- crystals, Vesuvius.—Brauns, R.
- deposits, origin of.—Van't Hoff, J. H., 1-4.
- , Germany.—Bruhns, W.; Currie, J., 2; Koenen, A. von.
- , India.—Holland, T. H., 2.
- marshes, Humber.—Petch, T.
- , Ohio.—Bownocker, J. A., 1 & 2.
- , petroleum &.—Harperath, L.
- , Rumania.—Murgoci, G. M., 2.
- , Transcaspian District.—Thiess, F.
- , See also Potash, &c.; § UNITED STATES, Min. Resources.
- Salt-Cay (Jamaica).—Freeman, W. G.
- Salt-Range (India).—Schuchert, C., 2.
- Salt R. (Ariz.).—Lee, W. T.
- Saltpetre, India.—Holland, T. H., 2.
- Salzburg (Austria).—Fugger, E., 4.
- Alps, Bavarian.—Bleek, W. G.
- Salzgitter (Hanover).—Prinz, G.
- Samaropsis*.—Krasser, F., 2.
- Sambre R. (Belgium).—Lohest, M.
- Samoa (Pacific).—Brown, G.; Reinecke, F.
- Samwel Cave (Cal.).—Furlong, E. L.
- San Bernardino Valley (Cal.).—Mendenhall, W. C., 5.
- San Diego Co. (Cal.).—Waring, G. A.
- San Fedelino (Lombardy).—Reposi, E.
- San Fernando (Trinidad).—Craig, E. H., C., 7.
- San Francisco (Cal.).—Anon., 35; Branner, J. C., 3; Davidson, G., 1 & 2; Davison, C., 6; Gilbert, G. K., 4 & 5; Hogben, G., 3; Lapparent, A. de; Oldham, R. D., 2; Omori, F.; See, T. J. J.; Taber, S.; Tarr, R. S., 4.
- San José (Mex.).—Kemp, J. F., 5.
- San Juan (Chile).—Stutzer, O., 5.
- San Juan Mts. (Colo.).—Purinton, C. W., 2.
- San Luis Park (Colo.).—Gunther, C. G.
- San Paolino, Mte. (Sicily).—Stefano, G. di, 2.
- Sand-dunes.—See Dunes.
- nodules, formation of.—Deecke, W., 4.
- pit, Via Aurelia (Rome).—Clerici, E., 2.
- , Vesuvius.—Oglialoro, A.
- Sandia (Peru).—Pfluecker, L.
- Sands, glauconitic.—Collet, L. W., 3.
- , I. of Man.—Reade, T. M., 4.
- , Paris Basin.—Cayeux, L., 7.
- , precipitation of.—Reade, T. M., 3.
- , Sangatte.—Briquet, A., 2.
- Sandlingites*.—Hyatt, A.
- Sandstones, Devon.—Hunt, A. R., 2.
- , Paris Tertiary.—Cayeux, L., 7.
- Sandur Hills (Madras Pres.).—Fermor, L. L., 4.
- Sangatte (Picardy).—Briquet, A. A., 2.
- Sanguinolites*.—Reed, F. R. C., 2.
- Sankaty Head (Nantucket).—Wilson, J. H.

- Sant' Andrea, Cape (Sicily).—Checchia-Rispoli, G., 2.
- Santa Barbara (Mexico).—Bromly, A. H.
- Santa Cruz Beds, Patagonia.—Sinclair, W. J.
- Santa Cruz fault-line (Cal.).—Branner, J. C., 3.
- Ste. Geneviève Limestone, Kentucky.—Ulrich, E. O.
- Santerre plateau (Somme).—Bardou, P.
- Santhia-Arona Ry. (Piedmont).—Sacco, F., 2.
- São Paulo (Brazil).—Hussak, E., 2, 4, & 7.
- Saône-et-Loire (France).—Gaubert, P., 4.
- Sapindoides*.—Perkins, G. H.
- Sapphire, Australia.—Brauns, R., 3.
- , Ceylon.—Brauns, R., 3.
- Saratov Gov. (Russia).—Archangelski, A. D.; Pavlov, A. V.
- Sarawak (Borneo).—Geikie, J. S.; Hamilton, W.; Scrutton, T. C.
- Sarcolite.—Pauly, A.
- Sárd (Transylvania).—Roth von Telegd, L., 2.
- Sardinia.—Rimatori, C.; Taramelli, T., 2.
- Sarie (Rumania).—Nicolau, T.
- Sárisáp (Hungary).—Liffa, A., 1 & 2.
- Sarmatian, Galicia.—Friedberg, W. S. von.
- , S. Russia.—Palibin, J. V., 2.
- Sarn Valley (Tyrol).—Krahmann, M.
- Sars-Poteries (Nord).—Carpentier, A.
- Sarul Dornei (Moldavia).—Nicolau, T., 3.
- Saskatchewan, R. (Canada).—Whit-eaves, J. F.
- Sassari R. (Italy).—Capedar, G.
- Satna Bághelkhand (Central India).—Fermor, L. L., 5.
- Sausar Tahsil (Central Provinces, India).—Fermor, L. L., 3.
- Savaii I. (Samoa).—Reinecke, F.
- Savernake (Wilts).—Jukes-Browne, A. J.
- Savoy (France).—Argand, E.: Badoureaux, —; Carez, L., 2; Clemencot, —; Constans-Bonneval, — de; Davin, L.; Deslarmes, J., 1-3; Douxami, H., 1, 3, 4, & 10; Fonné, R. J.; Gimet, F. S.; Girard, —; Hollande, D., 1 & 2; Jeanson, —; Kilian, W., 3, 4, & 10; Lachéroy, —; Moural, —; Poitevin, —, 1 & 3; Renevier, E.; Révil, J., 3-5 & 7-10; Savin, L. H.; Termier, P.; Vivien, J., 1-4; Zaccagna, D.
- Sawatch Range (Colo.).—Davis, W. M., 1 & 2.
- Saxony.—Cornu, F., 2; Hartung, H.; Hess von Wichdorff, H.; Lehder, J.; Miller, W. G., 3; Sauer, A.; Walther, J.; Washington, H. S., 2; *see also* Erzgebirge, &c.
- Scalaria*.—Dainelli, G.; Oppenheim, P.
- Scandinavia, unconformities of strata in.—Tørnebohm, A. E.
- Scania (Sweden).—Bobeck, O.; Douxami, H., 7; Holst, N. O.; Westergård, A. H.; *see also* Gotthland.
- Scaphiocalia*.—Reed, F. R. C., 2.
- Scaphoceros*.—Osgood, W. H.
- Scaphopoda, Liassic.—Richardson, L.
- Scapitulum*.—Woodward, H., 6.
- SCARABELLI, G., *Obit.*—*See* Toldo, G., 2.
- SCHAEFFER, C., *Obit.*—*See* Heilprin, A.
- Schaffhausen (Switzerland).—Meister, J.; Nüesch, J.; Paulcke, W.
- Schalstein, Moravia.—Kretschmer, F.
- , Nassau.—Brauns, R.
- Schandelah (Brunswick).—Stolley, E., 5.
- Schantungia*.—Lorenz, T., 2; *see also* Shantungia.
- SCHARDT'S (H.) theory.—Jaccard, F.
- Schaunburg-Lippe (Germany).—Harbort, E.
- Scheelite.—Block, J.; Colomba, L.; Zambonini, F.
- Schelde Valley (Netherlands).—Mourlon, M., 4.
- SHELLWIEN, E., *Obit.*—*See* Geyer, G.
- Schio (Venetia).—Maddalena, L.
- 'Schistes lustrés,' Tyrol.—Termier, P.
- Schistosity, crystallization &.—Wright, F. E., 2.
- Schists, Argyll.—Hill, J. B., 2.
- , Austrian Alps.—Becke, F., 3; Suess, F. E.
- , Corsica.—Rovereto, G.
- , crumpling of Alpine.—Sacco, F.
- , felspars of.—Becke, F., 3.
- , Finland.—Sederholm, J. J.
- , granitization of Huronian.—Bell, J. M., 2.
- , igneous rocks &.—Mennell, F. P.
- , Liguria.—Franchi, S., 5; Rosati, A.
- , Manhattan I.—Julien, A. A.
- , mineral structure of.—Weinschenk, E.
- , Morbihan graphitic.—Pussenot, —.
- , Mysore.—Slater, H. K.; Wetherell, E. W., 2.
- , New Zealand.—Bell, J. M., 3; Sollas, W. J., 3.
- , Oran.—Ficheur, E., 2.
- , Rumania.—Mrazec, L.
- , Savoy.—Termier, P.
- , S. African oldest.—Mennell, F. P., 4.
- , Tyrol.—Lindemann, R.
- , *See also* Crystalline.
- Schizoblatta*.—Handlirsch, A., 3.
- Schizoneura*.—Krasser, F., 2.
- Schizoneuropsis*.—Richter, P. B.
- Schleswig-Holstein.—Gagel, C., 1, 4, 5, 7, & 11; Schröder, H., 3; Stolley, E.; Wolff, W.
- Schlenbachia*.—Kossmat, F.
- Schlotheimia*.—Buckman, S. S., 3.
- SCHMIDT, ALEX., *Obit.*—*See* Bæckh, H., 2.
- SCHRÖDER VAN DER KOLK, J. L. C., *Obit.*—*See* Loricé, J.

- Schuchertina*.—Walcott, C. D., 2.
 Schulau (Schleswig-Holstein).—Schroeder, H., 3.
 Schwarzenegg (Bern).—Antenen, F.
 Sciket (Erythræa).—Manasse, E., 3.
 Scilly Is.—Barrow, G.
 Slavatanya (Hungary).—Szontagh, T. von, 2.
 SCOPOLI, J. A.—Muellner, A., 2.
 Scotland, Carboniferous crustacea of.—Peach, B. N.
 —, Glacial deposits.—Geikie, J.; Jamieson, T. F.; Lamplugh, G. W., 3; Lewis, F. J., 1 & 2.
 —, mines & quarries.—See GREAT BRITAIN, Home Office.
 —, past geological periods in.—Geikie, Sir A., 3.
 —. See also Lothians, Old Red Sandstone, Perth, &c.
 Scrivera Valley (Piedmont).—Sacco, F. 5.
 Scuro, Lake (Ticino).—Garwood, E. J.
Scyphia-Beds, Westphalia.—Stille, H., 2.
 Sea-deposits.—See Oceanic deposits.
 —-erosion.—See Coast-erosion.
 —, regression of the.—See Land, changes of level.
 —, vulcanicity & the.—Krebs, W., 2.
 —-water, composition of.—Schlœsing, T.
 —-waves.—Nicolau, T.
 'SEALARK,' H.M.S., expedition to the Indian Ocean.—Gardiner, J. S.
 Seals, Tertiary.—Condon, T.; True, F. W.
 Seas of geological time.—Suess, E., 2.
 Sedimentary deposits, nomenclature of.—Prosser, C. S.; Williams, H. S.
 —rocks, classification of.—Barrell, J.; Williams, H. S.
 Sedimentation, variations of.—Barrell, J.; Reade, T. M., 3.
 Sediments, river.—Christen, T.
 Seedorf (Prussia).—Gagel, C., 9.
 Seeds, Carboniferous.—Grand'Eury, F. C., 2.
 Segregations, granitic.—Gilbert, G. K., 3.
 —, magmatic.—Coleman, A. P., 2.
 —, metallic.—Waller, G. A.
 Seiche R. (Britanny).—Pavot, —.
 Seine R. deposits, Paris.—Pujet, R.
 Seine Inférieure (Normandy).—Rutot, A., 7.
 Seine-et-Oise (France).—Embry, P.
 Seismograms, July 16th, 1905.—Lagrange, E., 2.
 Seismographs.—Agamennone, G., 1 & 2; Milne, J., 1 & 4.
 Seismological geography.—Montessus de Ballore, F. de.
 —stations, Belgium.—Lagrange, E.
 Seismology, rock-elasticity &.—Kusakabe, S., 2 & 3; Milne, J., 1-5.
 —. See also Earthquakes.
 Seistan (Asia).—McMahon, Sir H.
 Seja R. (Siberia).—Ahnert, E. von.
 Selenite.—Dalton, W. H.; Fermor, L. L.
 Seligmannite.—Solly, R. H.
 Selkirk Range (B.C.).—Sherzer, W. H.
Semioscinius.—Hennig, A.
Semieschara.—Brydone, R. M.
Seminulteala.—Lang, W. D.
Seminula.—Vaughan, A.
 —-zone, Co. Dublin.—Matley, C. A.
 —, Yorkshire.—Johns, C.
Semitriton.—Cossmann, M., 3.
 Seneca Valley (N.Y.).—Tarr, R. S.
 Senegambia (W. Africa).—Chautard, J., 1 & 2; Meunier, S., 2; Peron, A.
 Senne Valley (Belgium).—Halet, F.
 Senonian, Hungary.—Pethő, J.
 —, W. Prussia.—Jentsch, A., 5.
 —. See also Cretaceous.
 Sentis, Mt. (Switzerland).—Heim, A., 1 & 2.
 Serapis, Temple of.—Cool, H.
 Sericite, albite in Swedish.—Benedicks, C., 2.
 Serpentine, Ambon.—Verbeek, R. D. M.
 —, Apuan Alps.—Aloisi, P.
 —, Argyll.—Hill, J. B., 2.
 —, California.—Knopf, A., 2.
 —, Finland.—Frosterus, B.
 —, Macquarie I.—Marshall, P., 2.
 —, Möll Valley.—Grauig, B.
 —, New Zealand.—Bell, J. M., 3; Sollas, W. J., 3.
 —, Piedmont.—Mattirolo, E.
 —, Tuscany.—Lotti, B.
 —, Tyrol.—Lindemann, R.
 —, veins in.—Merrill, G. P.
 —, Vermont.—Marsters, V. F.
Serpula.—Wegner, T.
 Serpulate.—See Jurassic limestone.
 Servia.—Cvijić, J.; Fischer, H.; Stevanović, S.
 'Sesia'-gneiss, Piedmont.—Preiswerk, H.
 Seton, Port (East Lothian).—Bailey, E. B., 2.
 Seville (Spain).—Preiswerk, H., 2.
 Seward Peninsula (Alaska).—Moffit, F. H.
 Seybouse basin (Algeria).—Blayac, J.
 Seymour I. (Galapagos).—Ameghino, F.
 SHALER, N. S., *Obit.*—See Anon., 15; & Davis, W. M., 6.
 Shan-si (China).—Walcott, C. D., 4.
 Shan States (Asia).—Fermor, L. L., 5; La Touche, T. D., 1, 2, & 4; Simpson, R. R.
 Shan-Tung (China).—Lorenz, T., 1 & 2.
Shantungia.—Walcott, C. D., 3; see also *Schantungia*.
 Sharks, Quaternary.—Eastman, C. R., 3.
 Shark R. (N.J.).—Whitfield, R. P.
 Sheep-Creek coalfield (Alberta).—Bell, R., 4.
 Shelburne (Ont.).—Farrington, O. C., 2.

- Shells, mineral replacement on fossilization.—Hartzell, J. C.
 — of fossils preserved in the interior of larger ones.—Kœnen, A. von, 4.
 Shere (Surrey).—Herries, R. S., 2.
 Shimoga (Mysore).—Slater, H. K.
 Shin, Loch (Scotland).—Murray, Sir J.; Peach, B. N., 5.
 Shore (Lanes).—Watson, D. M. S., 2.
 Shore-deposits.—Jentzsch, A., 3.
 — indications in Hanoverian Jurassic.—Stille, H., 6.
 Shore-lines, French ancient Mediterranean. — Boule, M.; Caziot, E.; Négriis, P.
 —, Norrbotten.—Sjøegren, O.
 —. See also Raised beaches.
 Shropshire.—Elles, G. L.; Hind, W., 4.
 Shui-ling-shan I. (China).—Schmeisser, C.
Shylina.—Koby, F.
 Siagne, R. (Provence).—Guébbard, A., 5.
 Siberia (Asia).—Ahnert, E. von; Karpinski, A.; Krasser, F., 2; Maier, E.; Samoïlov, J., 2; Thiess, F.
Sibirites & *Sibyllites*.—Hyatt, A.
 Sicily.—Almagià, R.; Checchia-Rispoli, G., 1, 2, & 4; Cocco, L.; Gonnard, F., 2; Haug, E., 3; Lugeon, M., 2-4; Scalia, S., 2; Stefano, G. di, 2.
 Siderite.—Colomba, L., 3; Schaller, W. T.
 Sidmouth (Devon).—Lomas, J.; Woodward, H. B., 3 & 4.
 Siebeneichen (Prussia).—Gagel, C., 9.
 Sierra Nevada (Cal.).—Knopf, A.
 Sieves for washing clays, &c.—Range, P.
Sigaretus.—Oppenheim, P.
Sigillaria.—Arber, E. A. N.; Kidston, R., 2; Vinassa de Regny, P., 6.
Sigmagraptus.—Ruedemann, R.
 Silesia.—Berg, G., 2; Dathe, E., 1-3; Jahn, J. J.; Kemna, A., 4; Michael, R., 1 & 2; Milch, L.; Pabst, W.; Rosiwal, A.; Till, A.
 — & Bohemian boundary-district. — Petrascheck, W., 2.
 Silica, allotropic forms of.—Johns, C.
 — lime series of minerals.—Day, A. L.
 Silicate-minerals, acid and alkaline reaction of.—Cornu, F., 5.
 Silicates, formation of.—Kœnigsberger, J., 2.
 —, melting-points of.—Dœlter, C., 1 & 3-5; Pœshi, V.; Quensel, P. D., 2; Reiter, H. H.; Vučnik, M.; see also Slags, &c.
 —, molecular volume & viscosity of.—Lœwinson-Lessing, F., 8.
 Siliceous iron-ore, Westphalia.—Brauns, R., 2.
 Silicomagnesiumfluorite. — Zemiachenski, P.
Siliqua.—Harbort, E.
 Siljan, Lake (Dalecarlia).—Wiman, C., 2.
 Sillaro (Emilia).—Toldo, G.
 Sillimanite.—Taubert, C.
 Sills.—See Dykes.
 Silurian, Baltic Provinces.—Lamanski, V. V.
 —, Brazil.—Clarke, J. M., 4.
 —, Caernarthenshire.—Cantrill, T. C., 2.
 —, Canada.—Dowling, D. B.; Grant, C. C.; Whiteaves, J. F., 1 & 4.
 —, Carnic Alps.—Vinassa de Regny, P., 7.
 —, Condroz massif. — Simoens, G., 7.
 —, Gothland.—Törnquist, S. L.
 —, Lake District.—Edwards, E. J.; Marr, J. E., 2.
 —, Ludlow.—Elles, G. L.
 —, Montgomeryshire.—Wood, E. M. R.
 —, New Mexico.—Gordon, C. H.
 —, New York.—Clarke, J. M., 7.
 —, Normandy.—Matte, H., 2.
 —, Podolia.—Siemiradzki, J. von, 1 & 2.
 —, Tyrol.—Ohnesorge, T., 2.
 —, Yorkshire.—Hughes, T. McK.
 —. See also Ordovician.
 Silver, Almeria.—Firecks, F.
 —, Alsace.—Ungemach, —.
 —, Asia Minor.—Freise, F.
 —, Chile.—Echegarai, N.; Herrmann, A.; San Roman, F. J.
 —, Colorado.—Purington, C. W., 2; Schwarz, T. E.
 —, Germany.—Bruhns, W.; Einecke, G.
 —, Hungary.—Gesell, A., 2.
 —, Meurthe-et-Moselle. — Laur, F., 2.
 —, Mexico.—Warwick, A. W.
 —, New South Wales.—Hall, W. H.; Larcombe, C. O. G.; see also NEW SOUTH WALES, Dep. Mines.
 —, Ontario.—Campbell, W., 3; Frank, F. J.; Miller, W., 3.
 —, Nevada.—Hastings, J. B.; Spurr, J. E., 2 & 4.
 —, Peru.—Dueñas, E. I.
 —, Tasmania.—See TASMANIA, Dep. Mines, 1-5.
 —, Victoria.—Kitson, A. E.
 —. See also Galena, &c.
 ‘Silver-clay,’ Scania.—Westergård, A. H.
 Silver-lead crystals in slag.—Mœnkemeyer, H.
 —, St. Gotthard massif.—Mariani, E., 3.
 Silver Peak (Nev.).—Hastings, J. B.
 Simbirsk Gov. (Russia).—Archangelski, A. D.; Tovarov, K.
 Similkameen batholite, Washington (U.S.A.).—Daly, R. A., 2.
 Simiouse, Mt. (Loire).—Gonnard, F.
Simosaurus.—Jækel, O.

- Simplon tunnel (Pennine Alps).—Brillouin, M.; Schardt, H., 2; Stefani, C. de, 2.
- Sinai (Syria).—Gregory, J. W., 3 & 4.
- Sinaloa (Mex.).—Warwick, A. W.
- Singapore (Fed. Malay States).—Newton, R. B.
- Sinj (Dalmatia).—Kerner, F. von.
- Sinopa.—Andrews, C. W.; Matthew, W. D., 2.
- Siphonalia*.—Cossmann, M., 3.
- Sirenia, Tertiary.—Abel, O., 5.
- Sirenites*.—Diener, C., 3; Hyatt, A.
- Sirente, Mte. (Italy).—Casselli, M.
- Siskiyou Co. (Cal.).—Gunther, C. G., 2.
- Skitt's Hill (Essex).—Reader, F. W.
- Skorodite, Hungary.—Zimányi, K.
- Skull, Voisek human.—Weinberg, R.
- Skye, I. of.—Currie, J.
- Slags, mixed crystals in.—Mœnkemeyer, H.
- , melting-points of.—Dœlter, C., 1, 3-5; Pœshi, V.; Quensel, P. D., 2; Reiter, H. H.; Vučnik, M.
- , petrography of.—Hermann, P.
- , quartz-crystals in.—Quensel, P. D., 2.
- Slânic (Rumania).—Severin, E.
- Slates, altered Ardennes.—Prinz, W.
- , Cornish Devonian.—Fox, H.
- , Ortler.—Hammer, W.
- , *See also* Stone-tiles.
- Slavonia.—Gorjanović-Kramberger, K.
- Sloth, Tertiary.—Rautenberg, M.
- Småland (Sweden).—Tørnebohm, A. E., 2.
- Smaltite, Ontario.—Campbell, W., 3.
- Smeroe volcano (Java).—Stigand, I. A.
- Smithsonite.—Buttgenbach, H., 6.
- Snake, Eocene.—Janensch, W.
- Snow-limit, Dauphiné Alps.—Lory, P.
- Soignies (Hainault).—Anon., 33.
- Soils, America (Central).—Sapper, K.
- , analysis of.—Cayeux, L., 2.
- , —, mechanical.—Murray, J. A.
- , calcareous.—Martel, E. M., 9.
- , Dublin.—Pethybridge, G. H.
- , Essex.—Dymond, T. S.
- , French Guinea.—Hébert, A.
- , Latium.—Orzi, D.
- , London, &c.—Woodward, H. B.
- , Hungary.—Emszt, K., 1 & 2; Horusitzky, H., 1-3; László, G. von, 1 & 2; Liffa, A., 1 & 2; Guell, W., 1 & 2; Timkó, E.; Treitz, P., 1, 3, & 4.
- , Mexico.—Villaseñor, F. F.
- , radio-activity of.—Borne, G. von dem.
- , Rumania.—Severin, E.
- Solariella*.—Oppenheim, P.
- Solarium*.—Pethœ, J.
- Solecurtus*.—Harbort, E.
- Solenastræa*.—Gregory, J. W., 3.
- Solifugon.—Andersson, J. G., 2.
- Soligo R. Valley (Venetia).—Tonioło, A. R.
- Solomon Is. (Pacific).—Chapman, F.
- Solothurn (Switzerland).—Schmidt, C.
- Soltvadkert (Hungary).—Treitz, P., 3.
- Somabula (Rhodesia).—Flett, J. S.; Mennell, F. P., 3.
- Somaliland (Africa).—Arsандаux, H.
- Somerset.—Reynolds, S. H.; Richardson, L., 2; Sibly, T. F.; Thompson, W., 2; Woodward, H. B., 2.
- Somerville (Mass.).—Palache, C.
- Somma, Mte. (Vesuvius).—Lacroix, A.
- Somme (France).—Dollfus, G. F.; Hermary, J., 2; Houllier, P.; *see also* Picardy.
- Somphospongia*.—Whitfield, R. P., 2.
- Sonneratia*.—Pethœ, J.; Stolley, E., 6.
- Sonora (Mex.).—McGee, W. J.; Merrill, F. J. H., 2.
- Sontiochelys*.—Stache, G.
- SORBY, H. C., list of works of, &c.—*See* Sorby, H. C.
- Sosbon Glacier (Baltistan).—Workman, F. B.
- Soucy, chasm of (Côte-d'Or).—Martel, E. A., 11.
- Soufrière, (St. Lucia & St. Vincent).—Hovey, E. O., 3.
- Souris R. (Assiniboia).—Dowling, D. B., 2.
- South African Museum.—*See* CAPE OF GOOD HOPE.
- South Australia.—Duffield, T.; Etheridge, R. (*fil.*); Hancock, L. G.; Stirling, E. C.
- (Central).—Basedow, H.
- (N. Terr.).—Basedow, H., 2; Brown, H. Y. L., 1 & 2.
- South Bend (Ind.).—Farrington, O. C., 2.
- South Mountain (Pa.).—Stose, G. W.
- South Victoria Land (Antarctic).—Ferrari, H. T.
- Southern Cross (W. Austral.).—Gibson, C. G.
- Southwaite (Lake District).—Marr, J. E., 2.
- Spain.—Depéret, C., 4; Hœrnes, R., 1 & 2; Puerta, G. de la; *see also* Aragon, Murcia, Seville, Mineral waters, &c.
- Spalato (Dalmatia).—Kerner, F. von, 2.
- Spaniodera*.—Handlirsch, A., 3.
- Sparnacian, Paris Basin.—Combes, P. (*fil.*).
- Sparth-Bottoms Quarry (Lancs).—Baldwin, W., 1 & 2.
- Speeton Clay.—Danford, C. G.
- Speleology.—Martel, E. A., 6; *see also* Caverns, &c.
- Spiracèdes (Alpes-Maritimes).—Goby, P.
- Sphærexochus*.—Reed, F. R. C., 4.
- Sphæriola*.—Fucini, A.
- Sphæroceras*.—Popović-Hatzeg, V.
- Sphærolites*.—Pethœ, J.
- Sphenia*.—Oppenheim, P.
- Sphenomylacris*.—Handlirsch, A., 3.
- Sphenophyllum*.—Arber, E. A. N.; Scott, D. H., 2; Vinassa de Regny, P., 6.

- Sphenopteris*.—Arber, E. A. N.; Kidston, R.; Grand'Eury, F. C., 3.
Sphragiopora.—Hennig, A.
 Spinell, Elba.—Aloisi, P., 3; Weyberg, Z.
Spirifera.—Foureau, F.; Frech, F., 7; Keidel, H.; Newton, E. T.; Vinassa de Regny, P., 6.
Spiriferina.—Gortani, M., 5.
Spiroclypeus.—Douvillé, H., 3.
Spiroloculina.—Bullen, R. A.; Fornasini, C.
Spirorbis.—Barrois, C., 2; Clarke, J. M., 5; Friedberg, W. S. von; Malaquin, A.
 Spoleto (Umbria).—Lotti, B., 2; Parona, C. F., 3.
Spondylus.—Harbort, E.
 Sponges, calcareous.—Buetschli, O.
 —, Devonian.—Whitfield, R. P., 2.
 Sporangia, Pteridospermeae.—Kidston, R., 3.
 Springhill (Nova Scotia).—Bell, R., 2.
Spyroceras.—Whiteaves, J. F., 1 & 3.
 Squamosal bone, Tetrapodous Vertebrata.—Thyng, F. W.
Stacheia.—Chapman, F., 5.
 Staffordshire.—Cockin, G. M.; Gibson, W.; Lomas, J.; Ward, J., 1 & 2.
 Staines (Middlesex).—Kennard, A. S.
 Stamford (Lincoln).—Thompson, B., 3.
Stantonia.—Handlirsch, A., 2.
 Stassfurth (Prussia).—Currie, J., 2; Focke, F.
Staurocephalus.—Reed, F. R. C., 4.
 —, Limestone Group, Westmorland.—Marr, J. E., 3.
 Stavelot (Liège).—Dorlodot, L. de; Lohest, M., 3.
 Steamboat Springs (Nev.).—Lindgren, W., 5.
 Stederdorf (Brunswick).—Harbort, E., 2.
 Stegocephali, Jurassic.—Thyng, F. W.
 —, Triassic.—Broili, F.
 Steinbein (Württemberg).—Fraas, E., 3.
Steno.—Fucini, A., 3.
Stenomylacris.—Handlirsch, A., 3.
Stephanocœnia.—Koby, F.
Stephanospondylus.—Stappenbeck, R.
 Steppe-limestones, S. Russia.—Andrussov, N.
Sterculia.—Berry, E. W., 2.
Sterco-genys.—Andrews, C. W.
 Sterzing (Tyrol).—Lindemann, R.
 Stibiotantalite.—Penfield, S. L., 2.
 Stibnite.—Lindgren, W., 5.
 Stoke-upon-Trent (Staffs).—Gibson, W.
 Stone-age, Patagonia.—Outes, F. F.
 —, reefs, Brazil.—Branner, J. C.
 —, tiles, Collyweston, Horsham, & Stonesfield.—Anon., 34.
 Stonesfield (Oxon.).—Anon., 34; Huene, F. von, 4.
 Stormberg Formation, Cape Colony.—Du Toit, A. L., 2 & 4.
 Strata broken up by frozen streams.—Sardeson, F. W.
 Stratford Museum (Essex).—Cole, W.
 Strath Naver.—See Naver, Strath.
Stratiotes.—Witte, H.
Strepsodus.—Woodward, A. S., 5.
Streptocheilus.—Cossmann, M., 3.
Streptorhynchus.—Gortani, M., 5; Vinassa de Regny, P., 6.
Streptospondylus.—Nopcsa, F., Baron (fil.), 2.
 Strmica (Dalmatia).—Schubert, R. J., 5.
Stromatocystites.—Miquel, J.
Stromatopora.—Clarke, J. M., 7; Deninger, K.
 Stromatoporidæ, Jurassic.—Bakalov, P.
Stromatorhiza.—Bakalov, P.
 Stromboli (Lipari Is.).—Wegner, T., 3.
Strombus.—Krumbeck, L.; Lamothe, R. de; Oppenheim, P.
 Strömstad (Gothland).—Hamberg, A., 2.
 'Strona'-gneiss, Piedmont.—Preiswerk, H.
Strophagraptus.—Ruedemann, R.
 Stroud (Gloucester).—Richardson, L., 5; Upton, C.
 Strunga, Mt. (Rumania).—Popovičić-Hatzeg, V.
 STUEBEL'S volcano-theory.—Dannenberg, A.
 STUETZ, A. X., *Obit.*—See Berwerth, F., 3.
 Stuttgart (Würt.).—Gugenham, M., 2.
Stygetoblatta.—Handlirsch, A., 3.
Stylina.—Gregory, J. W., 3; Koby, F.
Stylocœnia.—Gregory, J. W., 3.
Stylosmilicia.—Koby, F.
 Styria (Austria).—Aigner, A.; Fabian, K.; Frey, R.; Heritsch, F.; Redlich, K. A.; Rumpf, J.; Vacek, M.
 Subansiri Gorge (Assam).—Diener, C.
 Suchum (Caucasus).—Seninski, K., 2.
Suchumica.—Seninski, K., 2.
 Sudan (Africa).—Chudeau, R.; Foureau, F.; Lacroix, A., 11.
 Sudbury (Ont.).—Barlow, A. E., 1 & 2; Browne, D. H.
 Suffolk.—Harmer, F. W., 1-3; Loricé, J., 3; Ridley, E. P.; Whitaker, W., 2.
Sulcoactæon.—Cossmann, M.; Schmidt, M.
 Sultjelma (Norway).—Fletcher, M.
 Sulphate of lime, Essex soils.—Dymond, T. S.
 Sulphidic ores.—Coleman, A. P., 2.
 Sulphur, Java.—Gaubert, P., 2.
 —, Michigan.—Kraus, E. H., 1 & 3.
 —, Rumania.—Nicolau, T.
 —. See also UNITED STATES, Mineral Resources.
 —, crystals, Bruchsal Triassic.—Beierle, K.
 Sumatra (D.E.I.).—Tobler, A.; Volz, W.
 Sunderland (Durham).—Abbott, G.
 Sundgau (Alsace).—Førster, B.
Sunetta.—Cossmann, M., 3.

- Superior, Lake (N. Am.).—Bell, J. M., 2; Leith, C. K., 1 & 3; Ossa, I. D.
- Surrey.—Anon., 34; Herries, R. S., 2; Hogg, A. J., 1 & 2; Jukes-Browne, A. J., 4; Shenton, H. C. H.; Stanley, W. F.; Young, G. W.
- Surveying.—See Geological.
- Susa Valley (Piedmont).—Zambonini, F., 5.
- Sussex.—Dibley, G. E.; Palmer, P. H.; Reid, C., 1 & 4; Shenton, H. C. H.; Ussher, W. A. E., 2; Whitaker, W.
- Sutera (Sicily).—Stefano, G. di, 2.
- Sutherland (Scotland).—Murray, Sir J., 1 & 2; Peach, B. N., 3 & 5; Shand, J.
- Sutton-Mill Lakes (Canada).—Dowling, D. B.
- Sutton Mts. (Quebec).—Wilson, A. W. G.
- Svealand (Sweden).—Sjægren, O., 6.
- Swabia.—Fraas, O.; Koken, E., 3; Kranz, W.; Plieninger, F., 2; Schuetze, E.
- SWAINSON, W.—See Newton, R. B., 2.
- Swallow-holes, Alpes-Maritimes.—Janet, A.
- , Bulgaria.—Scorpi, H.
- , Namur.—Brien, V.; Martel, E. A., 13.
- , See also Caverns, &c.
- Swantonia*.—Walcott, C. D., 2.
- Sweden.—See also Iron, Dalecarlia, Norrbotten, Scania, &c.
- SWEDENBORG, E., geology &c.—See Nathorst, A. G., 3.
- Swedish Antarctic Expedition.—Anderson, J. G., 3; Kilian, W., 5.
- , Arctic Expedition.—Hamberg, A., 4.
- , granites.—Holmquist, P. J.
- , *Littorina*-deposits.—Adlerz, G.
- Swidowiec Mts. (E. Carpathians).—Romer, E.
- Switzerland, Alpine lakes.—Bourcart, F. E.
- , geological literature, 1904.—Sarsin, C.
- , glaucophane-rocks.—Grubennann, U.
- , ore-deposits.—Bueler, H.
- , See also Alps, Berne, Earthquakes, &c.
- Sycidium*.—Karpinski, A., 2.
- Sycum*.—Cossmann, M., 3.
- Syenite, Brazil.—Evaus, J. W., 2.
- , Finland.—Sundell, I. G.
- , Gothland.—Ternebohm, A. E., 2.
- , Los Is.—Lacroix, A., 2.
- , albite-pyroxene, Maine.—Bastin, E. S.
- , New Hampshire.—Pirsson, L. V., 2.
- , Perm.—Loewinson-Lessing, F., 4.
- , Saxony.—Washington, H. S., 2.
- , Sutherland.—Shand, J.
- Sylt (Frisian Is.).—Gagel, C., 10; Geinitz, E.; Petersen, J.; Stolley, E., 12.
- Sylvite, Vesuvius.—Lacroix, A., 6; Muegge, O.
- SYMES, R. G., *Obit.*—See Anon., 16.
- Symphysurus*.—Lake, P.
- Syndoceras*.—Barbour, E. H.
- Synthesis, mineral.—Mourelou, J. R.
- Syria.—Blanchenhorn, M., 2; Gregory, J. W., 3 & 4.
- Syringothyris*-zone, Co. Dublin.—Matley, C. A.
- , Yorkshire.—Johns, C., 2.
- Syscioblatta* & *Sysciophlebia*.—Handlirsch, A., 3.
- Szech'wan (China).—Kingsmill, T. W.
- Szeged (Hungary).—Treitz, F.
- Szkerisoro (Hungary).—Szadeczky, J. von.
- Tabasco (Mex.).—Bæse, E.; Halse, E.; Sapper, K., 3.
- Tachylidrite.—Van't Hoff, J. H., 2.
- Taconic Mts. (Vt.).—Dale, T. N.
- Tæniopteris*.—Arber, E. A.
- Tagilsk, Nijni (Perm).—Loewinson-Lessing, F., 4.
- Taisnières-en-Thiérache (Nord).—Carpentier, A., 4.
- Talerddig (Montgomery).—Wood, E. M. R.
- Taliabo I. (D. E. I.).—Bæhm, G., 4.
- Tanan Peninsula (Russia).—Andrussov, N.; Seninski, K.
- Tamaulipas (Mex.).—Kemp, J. F., 5.
- Tancredia*.—Fucini, A.
- Taneda, Lake (Ticino).—Garwood, E. J.
- Tanfield Lea (Durham).—Smythe, J. A., 2.
- Tanganyika, Lake (Central Africa).—Buttgenbach, H.
- Tantobie (Durham).—Smythe, J. A., 2.
- Taormina (Sicily).—Checchia-Rispoli, G., 2.
- Tapes*.—Cragin, F. W.; Pethœ, J.
- Tapiolite.—Headden, W. P., 2.
- Tarannon (Montgomery) & Taramon Series.—Wood, E. M. R.
- Tarapacá (Chile).—Muro, J.
- Tarawera volcanic rift (New Zealand).—Bell, J. M.
- Tardeceras*.—Hyatt, A.
- Tarentaise (Savoy).—Kilian, W., 4.
- Tarka Bridge (Cape Colony).—Young, A.
- Tarn (France).—Laromiguière, J.; Martel, E. A., 3; Viré, A., 3.
- Tarnobrzeg (Galicia).—Friedberg, W. S. von.
- Tarns, Co. Waterford.—Reed, F. R. C.
- , Cumberland.—Rastall, R. H., 2.
- , Ticino.—Garwood, E. J.
- Tasmania.—David, T. W. E., 3 & 4; Legge, W. V.; Paul, F. P.; Petterd, W. F.; Stephens, T.; Twelvetrees, W. H., 1-8; Waller, G. A., 2; see also TASMANIA, Dep. Mines, 1-6.
- Tatahouine (Tunis).—Lambert, J.; Pervinquière, L., 2.

- TATE, R., *Obit.*—See Hutton, F. W.
 Tauern Tunnel (Styria).—Becke, F., 2.
 Taunusian, Cornwall.—Green, U.
 Teeth, Creodont.—Tomes, C. S.
 —, mammalian.—Gidley, J. W., 3.
 Tegelen (Dutch Limburg).—Harmer, F. W.; Loricé, J., 2.
 Tejon Formation, California.—Bagg, R. M., Jun.
 Tellina.—Harbort, E.; Pethø, J.
 Tellina Valley (Lombardy).—Termier, P., 2.
 Telluric bismuth.—See Tetradyomite.
 Teltow Canal (Brandenburg).—Solger, F.
 Temagami, Lake (Ontario).—Bell, R., 2.
 Temiskaming.—See Timiskaming.
Tennograptus.—Ruedemann, R.
 Temperature, underground.—Jaczewski, L.; Jenkins, H. C., 2; Königsberger, J., 4; Marriott, H. F.; Strutt, R. J.
 Templeux-la-Fosse (Somme).—Dollfus, G. F.
 Tenda, Colle di (Liguria).—Sacco, F., 8.
 Tennessee (U.S.A.).—Watson, T. L., 2.
Tentaculites.—Clarke, J. M., 5.
 Tephrite, Argentina.—Taubhäuser, F.
 Tephroite, New South Wales.—Min-gaye, J. C. H., 2.
Terebratula.—Gentil, L., 3; Martelli, A., 3.
Terebratulina.—Ascher, E.; Cossmann, M., 3.
Teredo.—Wegner, T.
 Terlingua (Tex.).—Hillebrand, W. F.; Turner, H. W.
 Ternoise R. (Picardy).—Gosselet, J., 5.
 Terraces, Atholl district.—Coates, H.
 —, formation of river.—Capedar, G.; Sevastos, R.
 —, Norway.—Rekstad, J.
 —, Regnitz Valley.—Neumeister, P.
 —, Rhône Valley.—Lamothé, R. de, 2.
 —, Saale Valley.—Picard, E.; Wuest, E.
 —, Ural Mts.—Duparc, L., 2.
 —, Weinheim.—Freudenberg, W.
 —, West River (Vt.).—Fisher, E. F.
 Terskoï Mts. (Archangel).—Ivanov, A. P.
 Tertiary, Algeria.—Schaffer, F. X.
 —, Alpes-Maritimes.—Guébard, A., 3.
 —, Alsace.—Førster, B.
 —, Apennines.—Sacco, F., 6.
 —, Austria (Upper).—Abel, O., 2.
 —, Aveyron.—Marty, P.
 —, Balearic Is.—Hørnes, R., 2.
 —, Balkan Peninsula.—Oppenheim, P., 2.
 —, Bavaria.—Stuchlik, H.
 —, Belgium.—Delheid, E.; Dewalque, G. J. G.; Leriche, M., 9; Mourlon, M.; Rutot, A., 5.
 —, Bosnia.—Martelli, A., 2.
 —, California.—Bagg, R. M., Jun.
 Tertiary, Caucasus.—Seninski, K., 2.
 — crust-movements, Inner Hebrides.
 — Harker, A.
 —, Dalmatia.—Dainelli, G.
 —, Denmark.—Ravn, J. P. J.
 —, Donetz Basin.—Borisysak, A., 2.
 —, Egypt.—Gregory, J. W., 3; Oppenheim, P.
 —, Ekaterinoslav.—Sokolov, N.
 —, Emilia.—Sangiorgi, D., 1 & 2; Toldo, G.
 —, Galicia.—Friedberg, W. S. von, 1 & 2.
 —, Gascony.—Douville, H.; Liebus, A.
 —, Gotha.—Amthor, R.
 —, Greece.—Négris, R., 5; Renz, C., 5.
 —, Hanover.—Wollemann, A., 4.
 —, Hesse.—Freudenberg, W., 2; Schotter, W.
 —, Hungary.—Drevermann, F.
 —, Istria.—Manek, F.
 —, Kola Peninsula.—Ivanov, A. P.
 —, Lauenburg district.—Gagel, C., 5.
 —, Louvain.—Velge, G.
 —, Luxembourg.—Dubois, E.
 —, Madagascar.—Lemoine, P., 3.
 —, Magdeburg.—Wieggers, F., 4.
 —, Morocco.—Boistel, A.
 —, Natal & Zululand.—Anderson, W.
 —, New Guinea.—Haupt, O.
 —, New Jersey.—Whitfield, R. P., 3.
 —, Nigeria (S.).—Parkinson, J., 4 & 6.
 —, Nord.—Leriche, M.; Rutot, A., 5.
 —, Normandy.—Bigot, A.; Cossmann, M., 3; Dollfus, G. F., 5.
 —, Oregon.—McClung, C. E.
 —, Orissa.—Bose, P. N., 2.
 —, Paris Basin.—Alessandri, G. de; Cayeux, L., 7; Combes, P. (*fil.*); Dollfus, G. F., 2; Fritel, P., 1 & 2; Leriche, M., 8 & 9.
 —, Patagonia.—Gaudry, A.
 —, Piedmont.—Bellini, R.; Sacco, F., 5.
 —, Rome.—Cappelli, G. B.; Napoli, F.; Silvestri, A.
 —, Rumania.—Murgoci, G. M., 2.
 —, Russia.—Andrussov, N., 1 & 2; Archangelski, A. D.; Palibin, I. V.; Seninski, K.
 —, Savoy.—Douxami, H., 4 & 10.
 —, Schleswig-Holstein.—Gagel, C., 7 & 12.
 —, Senegambia.—Chautard, J.; Meunier, S., 2.
 —, Sicily.—Checchia-Rispoli, G., 2.
 —, Sinai.—Gregory, J. W., 3.
 —, Spain.—Depéret, C., 4; Hørnes, R., 1 & 2.
 —, Sylt.—Stolley, E., 12.
 —, Ticino.—Blumer, S.; Schmidt, C., 2.
 —, Venetia.—Eastman, C. R.
 —, Vermont.—Perkins, G. H.
 —, Vienna Basin.—Toula, F., 3.
 —, Wight, I. of.—Leriche, M., 3.
 —. See also Eocene, Miocene, &c.

- Testudinata.—See *Chelonia*, &c.
Testudo.—Andrews, C. W.; Lambe, L. M.
 Tetradymite.—Lindström, G.
Tetragraptus.—Ruedemann, R.
 Tetrahedrite, New South Wales.—Mingay, J. C. H., 2.
 Teutoberg Forest (Westphalia).—Stille, H.
 Texas (U.S.A.).—Cragin, F. W.; Gould, C. N., 2; Hillebrand, W. F.; Howard, K. S.; Philips, W. B.; Slichter, C. S.; Schuchert, C., 2; Turner, H. W.
Thalassochelys.—Andrews, C. W.
 Thalenite.—Sjögren, O., 3.
Thamnisus.—Hennig, A.
 Thanet Beds, Nord.—Briquet, A.
 Thanetian, the term.—Leriche, M., 7.
Thecodontosaurus.—Huene, F. von, 3.
Thecosmia.—Angelis d'Ossat, G. de; Koby, F.
 Thermal waters, Algeria.—Fleury, —.
 ———, *Alvácza*.—Papp, K. von.
 ———, argon in.—Moureu, C.
 ———, Baden.—Muehlberg, F.
 ———, Basque Provinces & Normandy.—Launay, L. de.
 ———, Cape Colony.—Hahn, P. D.
 ———, Katanga.—Cornet, J., 4.
 ———, neon in.—Moureu, C., 2.
 ———, origin of.—Königsberger, J., 4.
 ———, Simplon Tunnel. — Schardt, H., 2.
 ———, Vöslau.—Ludwig, E.
 ———, vulcanicity &.—Gautier, A., 1 & 2.
 ———, Wyoming.—Darton, N. H.
 Thermopolis (Wy.).—Darton, N. H.
Thersitea.—Oppenheim, P.
Thetis.—Harbort, E.
 Thomsonite.—Manasse, E., 2.
 Thorianite, Ceylon.—Coomásráwamy, A. K., 2; Dunstan, W. R., 5.
 Thorium-minerals.—Boltwood, B. B.
Thracia.—Cragin, F. W.
 Thuile (Savoy).—Constans-Bonneval, — de.
 Thundersley (Essex).—Salter, A. E., 3.
 Thuringia (Germany). — Lehder, J.; Picard, E.; Wuest, E.
Thyestes.—Chapman, F., 3.
Thylacynus.—Sinclair, W. J.
Thylechinus.—Gregory, J. W., 4.
Thyrsiopteris.—Krasser, F., 2.
 Tian-Shan Mts. (Asia).—Friederichsen, M.; Keidel, H., 1 & 2; Kleinschmidt, A.; Merzbacher, G.
 Tiber R. (Italy).—Angelis d'Ossat, G. de, 2.
 Tibet (Asia).—Huntington, E.
 Ticino (Switzerland). — Blumer, S.; Garwood, E. J.; Heim, A., 4; Klemm, G., 2; Schmidt, C., 3.
 Tidaholm (Gothland). — See SWEDEN, Geol. Undersök.
 Tides, Karroo underground water. — Young, A.
 Tides, waves &.—Davis, W. M., 5.
 Tierra del Fuego (S. Am.).—Brain, J., 1 & 2.
 Timan Mts. (Russia).—Schuchert, C., 2.
 Timiskaming, Lake (Ont.).—Bell, R., 4
 Campbell, W., 3; Miller, W. G., 1-3.
 Tin, Congo Free State.—Buttgenbach, H., 4.
 ———, Fichtelgebirge.—Schmidt, A.
 ———, Germany.—Bruhns, W.
 ———, India.—Holland, T. H., 2.
 ———, Malay States.—Dunstan, W. R., 2.
 ———, Mexico.—Bromly, A. H.
 ———, Perak.—See PERAK STATE, Mines Dep.
 ———, St. Austell.—Williams, R. H.
 ———, Tasmania.—See TASMANIA, Dep. Mines, 1-5.
 ———, Transvaal.—Beck, R., 4.
 ———, United States. — See UNITED STATES, Min. Resources.
 ———, Victoria.—Kitson, A. E.
 ———, W. Australia.—See W. AUSTRALIA, Dep. Mines, 1 & 2.
 Tinguaita, New Zealand.—Marshall, P., 3.
 Tinnevelli (Madras Pres.).—Fermor, L. L., 5.
 Tinnye (Hungary).—Liffa, A., 2.
 Tippecanoe Co. (Ind.).—Macbeth, W. A.
 Tipperary (Ireland).—Baker, E. A.
Tirolites.—Hyatt, A.
Tissotia.—Kossmat, F., 4.
 Titanates, ferro-magnesian.—Crook, T., 2.
 Titaniferous basalts, Western Mediterranean.—Washington, H. S.
 Titanite.—Palache, C.; Zambonini, F., 3.
Titanodietya.—Handlirsch, A., 3.
 Tithonian, Rhætian Alps.—Seidlitz, W. von.
 Toāa, Lake (Sumatra).—Volz, W.
 Todjo (Celebes).—Koperberg, M., 2.
 Toggenburg (St. Gall).—Schmidt, C., 2.
 Togoland (W. Africa).—Ammon, L. von; Schmeisser, C.
 Tolmezzo (Venetia).—Anon., 23; Gortani, M., 4.
 Tolo-San I. (China).—Schmeisser, C.
 Tom, Lake (Ticino).—Garwood, E. J.
 Tomest (Transylvania).—Schafarzik, F.
Tomistoma.—Andrews, C. W.
 Tonga Is. (Pacific).—Brown, G.; Chapman, F., 6.
Tonicia.—Cossmann, M., 3.
 Tonopah (Nev.).—Lakes, A., 4; Spurr, J. E., 2.
 TOOLEY, C., *Obit.*—See Anon., 17.
 Tooth-cusp, development in Mesozoic mammals.—Gidley, J. W., 3.
 Toppeladugård (Scania).—Holst, N. O.
 Torlesse, Mt. (N.Z.), annelid.—Bather, F. A., 2.
 Torneå Valley (Norrbotten).—Sjögren, O.

- Tornocz (Hungary).—Horusitzky, H.
Tornquistites.—Hyatt, A.
 Torquay (Devon).—Fletcher, J. H.; Salter, M., 1 & 2.
 Torriglia (Liguria).—Issel, A., 2.
Tortisipho.—Leriche, M., 2.
 Tortoise, Cretaceous.—Riggs, E. S.
 Tortona (Piedmont).—Rovereto, G., 2; Sacco, F., 7.
 Touat.—See Twat District.
 Toulon (Provence).—Philippi, E.
 Tourmaline.—Spencer, G. F. H.; Stutzer, O., 5; Westergård, A. H., 2.
 Tourmai (Hainault).—Douxami, H., 6.
 Tournier, Mt. (Savoy).—Révil, J., 4.
Toxochelys.—Hay, O. P., 3.
 Trachyandesites, Graham Land.—Gourdon, E.
Trachyceras.—Hyatt, A.
 Trachydolerites, Dunedin.—Marshall, P.
Trachydomia.—Vinassa de Regny, P., 6.
Trachyostracrus.—Lorenz, T., 2.
 Trachyte, Argentina.—Taunhäuser, F.
 —, Corsica.—Deprat, J., 2.
 —, Euganean Hills.—Billows, E.; Cornu, F.
 —, Gough I.—Campbell, R.
 —, Kilimanjaro.—Lacroix, A., 10.
 —, New Zealand.—Marshall, P., 3.
 —, Odenwald.—Klemm, G.
 —, Queensland.—Jensen, H. I., 2.
 —, Somaliland.—Arsандаux, H.
 Trans-Caspian District (Central Asia).—Thiess, F.
 Transvaal (S. Afr.).—Beck, R., 4; Gau, W. J.; Hall, A. L., 1-5; Harger, H. S.; Hatch, F. H., 1-4; Henderson, J. McC., 1 & 2; Holmes, G. G., 1 & 2; Johnson, J. P., 1, 2, 4-7; Jorissen, E.; Kynaston, H., 1-8; Lehfeldt, R. A.; Marriott, H. F.; Mellor, E. T., 1-4; Molengraaff, G. A. F., 1-3; Sawyer, A. R., 1 & 2; Trevor, T. G.; Tweddill, S. M.; Wessels, J. W.; see also TRANSVAAL, Mines Dep., 1 & 2, & Africa.
 Transvaal Formation, Cape Colony.—Hatch, F. H., 3; Schwarz, E. H. L., 9.
 Transylvania (Hungary).—Böeck, H.; Böttger, O.; Halavats, J.; Kadić, O., 1 & 2; Nopcsa, F.; Baren (*fil.*); Pálffy, M. von, 1 & 2; Papp, K. von, 1-3; Roth von Telegd, L., 1 & 2; Rozloznsnik, P., 1 & 2; Schafarzik, F., 1 & 2; see also Soils, &c.
 Traun k. (U. Austria).—Abel, O., 2.
 Travancore Coast (India) mud.—Neilson, R. G.
 Traversella (Piedmont).—Colomba, L., 1-3; Zambonini, F., 4.
 Tree-trunks in Belgian Coal-Measures.—Renier, A.
 Trentham (Vict.).—Ferguson, W. H.
 Trettheway, Lake (Ont.).—Frank, F. J.
 Trevi Quarry, Spolito.—Parona, C. F., 3.
 Trias, Albania.—Renz, C.
 —, Alpes-Maritimes.—Jeancard, P.
 —, Arizona.—Ward, L. F.
 —, Baden.—Beierle, K.; Spitz, W.
 —, Bavaria.—Broili, F.
 —, British Is.—Cope, T. H.; Lomas, J.
 —, Carnic Alps.—Gortani, M., 5.
 —, Dalmatia.—Kerner, F. von, 4; Schubert, R. J., 5.
 —, Europe.—Frech, F.
 —, Greece.—Frech, F., 6 & 8; Renz, C., 2 & 4.
 —, Hanover.—Grupe, O., 2; Kœnen, A. von, 2.
 —, Harz.—Henkel, L.
 —, Himalaya.—Diener, C., 2, 3, & 5.
 —, Lombardy.—Mariani, E., 1 & 2.
 —, Meurthe-et-Moselle.—Laur, F., 2.
 —, Montenegro.—Martelli, A.
 —, Swabia.—Schuetze, E.
 —, Toulon.—Philippi, E.
 —, Tyrol.—Amperfer, O.; Koken, E.
 —, Westphalia.—Hornung, F.
 —. See also Plants, &c.
 Triassic fauna, S. Africa.—Broom, R., 2.
 — pebbles in N. German Jurassic limestone.—Stille, H., 4.
 Tribulaun Range (Tyrol).—Kerner, F. von, 5.
Triceratops.—Gilmore, C. W., 1 & 2; Woodward, H., 5.
Trichosurus.—Sinclair, W. J.
 Tridymite.—Day, A. L.; Quensel, P. D., 2.
 Trieste (Austria).—Mazelle, E.
Trigeria.—Schwarz, E. H. L., 8.
Trigonia.—Ascher, E.; Cragin, F. W.; Krumbeck, L.; Pethoe, J.; Pritchard, G. B., 5; Schmidt, M.
Trigonocarpon.—Scott, D. H., 3.
 Trilobites, Cambrian.—Etheridge, R. (*fil.*); Lake, P., 2; Lorenz, T., 2; Miquel, J.; Pack, F. J.; Walcott, C. D., 3.
 —, Carboniferous.—Frech, F., 7.
 —, Devonian.—Clarke, J. M., 5; Foureau, F.; Lake, P.; Schwarz, E. H. L., 8.
 —, Silurian.—Clarke, J. M., 7; Lake, P.; Lamanski, V. V.; Post, L. von, 2; Reed, F. R. C., 4; Tornquist, S. L.; Whiteaves, J. F.; Wiman, C., 1 & 2.
 Trinidad (W.I.).—Craig, E. H. C., 2-7.
Trinucleus.—Lake, P.
Trionyx.—Bell, R., 2; Hay, O. P.
Trimerella.—Whiteaves, J. F.
 Trimmingham (Norfolk).—Bonney, T. G., 2; Brydson, R. M., 1 & 2; Hudleston, W. H.; Jukes-Browne, A. J., 2; Woodward, H., 6.
 Tripoli (N. Africa).—Krumbeck, L.; Meunier, S.; Parona, C. F., 2; Perinquinère, L.
 Tripoli-deposit, Sicily.—Cocco, L.
Trochiliscus.—Karpinski, A., 2.
Trochosmia.—Angelis d'Ossat, G. de.

- Trochus*.—Andrussov, N.; Ascher, E.; Cossmann, M., 3; Dainelli, G.; Harbort, E.; Oppenheim, P.; Pethœ, J.; Schmidt, M.
- Tromsø (Norway).—Suess, E., 2.
- Tropicellites*.—Hyatt, A.
- Tropites*-limestone, Himalaya.—Diener, C., 2 & 5.
- Truncatulina*.—Bullen, R. A.
- TSCHERMAK, G., *Portrait*.—See Becke, F., 4.
- Tuberculopectora*.—Gortani, M., 5.
- Tubicaulis*.—Stokes, M. C.
- Tübingen (Württemberg).—Koken, E.
- Tufa, calcareous, Gothland.—Halle, T. G.
- , —, Northampton.—Thompson, B.
- Tuff, Namur.—Mathieu, É.
- , Queensland.—Jensen, H. I., 2.
- , Swabian Alps.—Pompeckj, J. F., 3.
- , Waldenberg porphyritic.—Dathe, E., 3.
- Tug-River coalfield (W. Va.).—Payne, H. M.
- Tumbes (Peru).—Adams, G. I.
- Tumkar (Mysore).—Wetherell, E. W., 2.
- Tundra, Arctic Russia.—Ramsay, W., 2 & 5.
- Tunis (N. Africa).—Haug, É., 3; Lambert, J., 1 & 5; Lamothe, R. de; Perquinquière, L., 2; Termier, P., 4.
- Tunnel, Budigsdorf.—Wilschowitz, H.
- , Channel.—Dollfus, G. F., 6.
- , Gallico.—Sacco, F., 2.
- , Güntenstall.—Schmidt, C., 2.
- , Simplon.—Brillouin, M.; Schardt, H., 2; Stefani, C. de, 2.
- , Tauern.—Becke, F., 2.
- , Weissenstein.—Schmidt, C.
- Tunnels, Liguria-Piedmont, proposals for.—Figari, L.; Rovereto, G., 2; Sacco, F., 8.
- Tuollavaara (Sweden).—Stutzer, O., 2.
- Tupus*.—Sellards, E. H.
- Turbo*.—Ascher, E.; Cragin, F. W.; Pethœ, J.; Pritchard, G. B., 5.
- Turin (Piedmont).—Bellini, R.; Franchi, S., 2; Roccati, A.; Sacco, F., 3 & 5.
- Turkestan, Chinese.—Huntington, E.
- Turkey (European).—Cvijić, J.; Nopcsa, F., Baron (*fil.*), 3; Renz, C.; Toula, F.; Veters, H.
- , *See also* Balkan Peninsula, &c.
- Turnhout (Antwerp).—Lorié, J., 2.
- Turonian, Brunswick.—Wollemann A., 2.
- , Lüneburg, with Quaternary pockets.—Gagel, C., 3.
- , Tripoli.—Parona, C. F., 2.
- , *See also* Cretaceous.
- Turritella*.—Ascher, E.; Cragin, F. W.; Jukovski, E., 2; Krumbeck, L.; Oppenheim, P.; Pethœ, J.; Replin, J.
- Turritoma*.—Donald, J.
- Tuscany (Italy).—Aloisi, P., 1 & 2; Fucini, A., 4; Lotti, B.; Manasse, E., 1 & 2; Martelli, A., 4.
- Tychite.—Schulten, A. de.
- Tygerberg Range (Cape Colony).—Sandberg, C. G. S.
- Tylostoma*.—Choffat, P.; Seidlitz, W. von.
- Tyne R. (Northumberland & Durham).—Woolcott, D., 1 & 2.
- Types, re-illustration of.—*See* PALÆONTOLOGIA UNIVERSALIS.
- , U. P. JAMES'S Silurian Bryozoa.—Bassler, R. S.
- Tyrannosaurus*.—Osborn, H. F.
- Tyrol (Austria).—Ampferer, O.; Ascher, E.; Blaas, J.; Block, J.; Fearnusides, W. G.; Gordon, M. M. O.; Hammer, W., 1-3; Kerner, F. von, 5; Koken, E., 4; Krahmann, M.; Lindemann, R.; Ohnesorge, T., 2; Roßhpletz, A., 2; Suess, E.; Suess, F. E.; Termier, P., 2; Wolff, F. von.
- Twat District (Sahara).—Peron, A., 3.
- Two Buttes (Colo.).—Cross, W.
- Twymyn, Afon (Montgomery).—Wood, E. M. R.
- Ubage R. (Dauphiné).—Haug, E.
- Uccle, Forest of (Brabant).—Delheid, É., 2; Mourlon, M., 3.
- Udine (Venetia).—Lorenzi, A.
- Ueberlingen (Lake Constance).—Schalch, F.
- Uetersen (Schleswig - Holstein).—Schroeder, H., 3.
- Uinta Mts. (Utah).—Berkey, C. P.
- Ukpong River (S. Nigeria).—Parkinson, J., 2.
- Umbria (Italy).—Lotti, B., 2; Mercial, G.; Parona, C. F., 3; Ugolini, R.
- Umtamsuna Series, Pondoland.—Crick, G. C.
- Unakite.—Watson, T. L.
- Unconformities, N. America.—Willis, B.
- , New Mexico.—Keyes, C. R., 2.
- , palæontological breaks &.—Goodchild, J. G.
- , Scandinavia.—Tørnebohm, A. E.
- Unicardium*.—Cossmann, M., 2; Cragin, F. W.
- United States, Borings.—Darton, N. II., 3.
- , Geological Survey.—Walcott, C. D.
- , unconformities in the strata.—Willis, B.
- , *See also* UNITED STATES, Min. Resources; & Water, &c.
- Urach (Württemberg).—Pompeckj, J. F., 3.
- Ural Mts. (Russia).—Duparc, L., 2 & 4; Katterfeld, G. S.; Löwinson-Lessing, F., 4, 5, & 7; Schuchert, C., 2; Sushinski, P. P.; *see also* Iron, Gabbro, Perm, &c.
- Uranium-minerals.—Rutherford, E.

- Uri, Bay of (Lake of Lucerne).—Abrenz, P.
- Úrmény (Hungary).—Horusitzky, H.
- Ursus.—Reichenau, W. von; Reynolds, S. H., 2.
- Ussel (Auvergne).—See FRANCE, Serv. géol.
- Ussuria.—Hyatt, A.
- Utah (U.S.A.).—Berkey, C. P.; Boutwell, J. M.; Davis, W. M., 3; Lakes, A., 5; Loomis, F. B.; Palmer, L. A.; Richardson, G. B.; Schuchert, C., 2.
- Uznach (St. Gall).—Schmidt, C., 2.
- Vaal River (S.A.).—Johnson, J. P., 7.
- Vadstena (Gothland).—See SWEDEN, Geol. Undersökn.
- Vag R. (Hungary).—Horusitzky, H., 2.
- Vajka (Hungary).—Timkó, E.
- Valais (Switzerland).—Duparc, L.; Harre, R. W.; Sarasin, C., 2; Solly, R. H.
- Valleys, Andorre.—Chevalier, M.
- , buried.—Simoons, G.
- , glaciation &.—Ferguson, H. G.
- , hanging.—Marr, J. E., 2; Russell, I. C.
- , Himalayas.—(Estreich, K.
- , origin of.—Brunhes, J.
- Valloire Valley (Savoy).—Kilian, W., 10.
- Valparaiso (Chile).—Bigourdan, G.; Obrecht, A.
- Vanadiferous sandstone, Colorado.—Ohly, J.
- Vancouver I. (B.C.).—Bell, R., 3.
- Vans, Les (Languedoc).—Haug, E., 4.
- Var (Provence).—Hitzel, E.; Kilian, W., 2 & 6; Replin, J.
- Var R. (France).—Guébard, A., 5.
- Varassova (Greece).—Négris, P., 5.
- Vegetation, relation of geology to.—Smith, W. G.
- Veins, asphaltic.—Eldridge, G. H.
- , fissure.—Emmons, S. F.; Kemp, J. F., 3; Louis, H.; Raymond, R. W.; Spencer, A. C.; Spurr, J. E., 3.
- , gold in.—Lovewell, J. T.
- , intersection of, in mines.—Purinton, C. W., 3.
- , ore-enrichment in.—Kemp, J. F., 2.
- , origin of.—Kemp, J. F., 4; Spurr, J. E., 4.
- , pebbles in.—Halse, E., 2.
- , pegmatite &.—Beck, R.
- , San Juan Mts.—Purinton, C. W., 2.
- , water &.—Hunt, A. R.; Park, J., 1-5; Spencer, A. C., 2.
- , See also Mineral-veins, &c.
- Vena (Sicily).—Scalia, S., 2.
- Vence (Alpes-Maritimes).—Guébard, A., 1 & 3; Lambert, J., 2.
- Vendée (France).—Welsch, J., 1-4.
- Venediger, Gross (Tyrol).—Weinschenk, E.
- Venetia (Italy).—Billows, E., 1 & 2; Cornu, F.; Eastman, C. R.; Giani, A.; Gortani, M., 1-5; Maddalena, L.; Taramelli, T.; Toniolo, A. R., 1 & 2; Vinassa de Regny, P., 7.; see also Euganean Hills, &c.
- Verbano (Piedmont).—Franchi, S.
- Vercors (Dauphiné).—Decombaz, O., 2.
- 'Verd-antique,' Tuscany.—Lotti, B.
- Verde, Cape (Senegambia).—Chautard, J., 2.
- Vereeniging (Transvaal).—Johnson, J. P.
- Verite, Spain.—Osann, A.
- Vermetus.—Cossmann, M., 3; Cragin, F. W.; Pethö, J.
- Vermilion (Ont.).—Bell, R., 4.
- Vermipora.—Clarke, J. M., 5.
- Vermispongia.—Whitfield, R. P., 2.
- Vermont (U.S.A.).—Dale, T. N.; Fisher, E. F.; Marsters, V. F.; Perkins, G. H.
- Vernon, Mt. (Ky.).—Tassin, W.
- Vernii R. (Siberia).—Samoilov, J., 2.
- Verrucano, Engadin.—Schiller, W.; Zöppritz, K.
- , Grisons.—Hök, H.
- Vertebralina.—Bullen, R. A.
- Vertebraria.—Arber, E. A. N.
- Vertebrata, Bohemian fossil.—Bayer, F.
- , tetrapodous.—Thyng, F. W.
- Vescagne (Alpes-Maritimes).—Jean-card, P.
- Vesuvius (Italy).—Anon., 28; Bassani, F., 1 & 2; Brauns, R., 4; Contarino, F.; Dælter, C., 2; Gill, H. V.; Hobbs, W. H., 4; Johnsen, A.; Johnston-Lavis, H. J., 1 & 2; Lacroix, A., 1, 3-7, 9, & 12; Linke, F.; Llord y Gamboa, R.; Lorenzo, G. de, 1 & 2; Meunier, S., 3; Nasini, R.; Oglialoro, A.; Ohnesorge, T.; Quensel, P. D.; Sabatini, V., 2; Sjögren, O., 8; Wegner, T., 2; Zambonini, F., 1 & 6.
- Veszverés (Hungary).—Reguly, E., 2.
- Viatka Gov. (Russia).—Ryabinin, A.
- Viborg Gov. (Finland).—Ramsay, W.
- Vicenza (Venetia).—Billows, E., 2.
- Victoria (Austral.).—Chapman, F., 1, 3, & 4; Ferguson, W. H.; Gregory, J. W., 8; Jenkins, H. C., 1 & 2; Johnson, J. P., 3; Kitson, A. E.; Pritchard, G. B., 1-5; Woodward, A. S., 1 & 5.
- Victoria Falls (Zambezi R.).—Beck, R., 3; Lamplugh, G. W., 2; Molyneux, A. J. C.
- Vida Valley (Transylvania).—Szontagh, T. von.
- Vienna (Austria).—Schaffer, F. X., 2; Toula, F., 3.
- Basin.—Ludwig, E.
- Vienne (Dauphiné).—Breuil, H.; Welsch, J., 1-4.
- Villarsite.—Colomba, L., 3.
- Villé, Val de (Alsace).—Ungemach, —.
- Villefranche (Alpes - Maritimes).—Maurý, E.

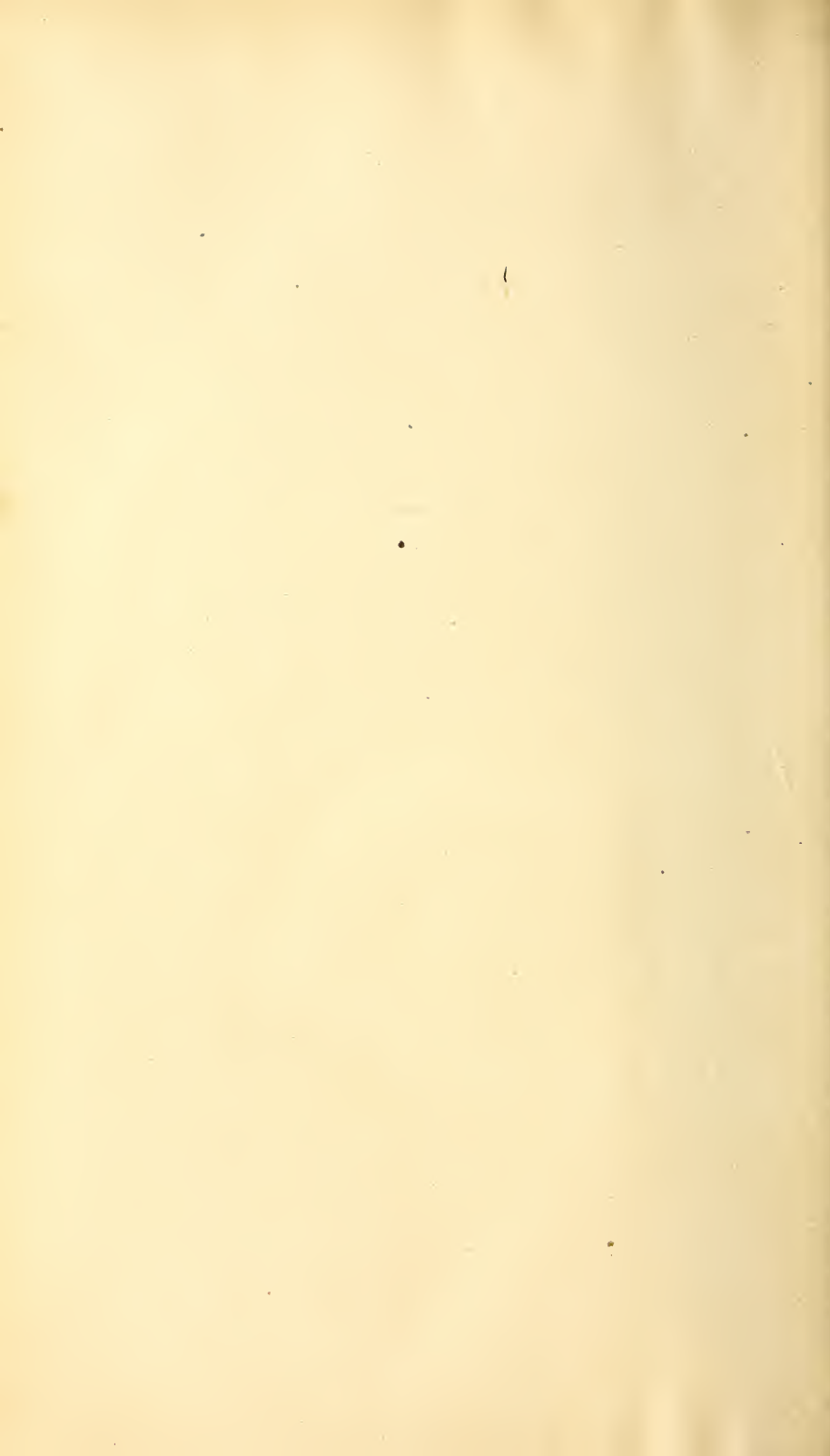
- Vimmerby (Gothland).—*See* SWEDEN, Geol. Undersökn.
- Vindhyan Series, India.—Fennor, L. L., 5; Vredenburg, E., 2 & 3.
- Vintlite, Piedmont.—Preiswerk, H.
- Vintshgau Valley (Tyrol).—Terzier, P., 2.
- Virginia (U.S.A.).—Tuffany, J. E.; Ward, L. F.; Watson, T. L., 1 & 2; Weed, W. H.
- , W. (U.S.A.).—Payne, H. M.
- Vivianite, Ticino.—Schmidt, C., 3.
- Vivipara.—Seninski, K., 2.
- Vladimir Gov. (Russia).—Stuckenber, A.
- Vlakfontein (Transvaal).—Johnson, J. P., 4.
- Vogtland (Saxony).—Lehder, J.
- Voisek (Livonia).—Weinberg, R.
- Volcanic carbonic acid gas, Auvergne.—Glangeaud, P., 4.
- conglomerates, Vesuvius & Mont-Dore.—Lacroix, A., 3.
- cones.—Platania, G.
- dust, Vesuvian.—Brauns, R., 4; *see also* Dust.
- , —, radio-activity of.—Nasini, R.
- eruptions, earthquakes &. — Heilprin, A., 2.
- , origin of.—Fleischer, A.; Reiss, W.
- , Pompeii, St. Pierre, Ottajano, &.—Lacroix, A., 11.
- , Rum (I. of).—Harker, A.
- , Savaii.—Reinecke, F.
- , Tarawera.—Bell, J. M.
- , Tasmanian axial lines of.—Twelvetrees, W. H., 3.
- , Vesuvius.—Anon., 28; Bassani, F., 1 & 2; Contarino, F.; Deltzer, C., 2; Gill, H. V.; Hobbs, W. H., 4; Johnsen, A.; Johnston-Lavis, H. J.; Lacroix, A., 1, 3-7, 9, & 12; Lorenzo, G. de, 1 & 2; Quensel, P. D.; Sabatini, V., 2; Sjögren, O., 8; Wegner, T., 2.
- , West Indies.—Hovey, E. O., 1-3.
- fissure, Alexandria (Cape Colony).—Rogers, A. W.
- flows, Württemberg.—Fraas, E., 3; Kranz, W.; Pompeckj, J. F., 3.
- heat, origin of.—Thomson, E.
- islands, Pacific Ocean.—Brown, G.
- rocks, phosphatization by birds.—Lacroix, A., 7; *see also* Igneous rocks, &c.
- Volcanoes, Armenia.—Oswald, F.
- , Auvergne.—Glangeaud, P., 1-4.
- , Colombia.—Stuebel, A.
- , Iceland.—Thoroddsen, Th.
- , Italy.—Sabatini, V., 1 & 2; *see also* Vesuvius, &c.
- , Java.—Gaubert, P., 2; Stigand, I. A.
- , Mexico.—Guild, F. N.; Winwood, H. H.
- Volcanoes, origin of.—Dammenberg, A.; Forsyth, D., 2.
- , physical geography of.—Anderson, T.
- , radio-activity &.—Dutton, C. E.
- , Savaii.—Reinecke, F.
- , Silesia.—Jahn, J. J.
- , Tonopah ancient.—Lakes, A., 4.
- , *See also* Vesuvius, Vulcanicity, &c.
- Volga R. (Russia).—Palibin, I. V.
- Volhynia (Russia).—Dubyanski, V. V. (Doobyanski); Laskarev, V.
- Volócz (Hungary).—Posewitz, T.
- Volovecz Mts. (Hungary).—Reguly, E., 1 & 2.
- Volsella.—Newton, R. B.
- Voltri (Cottian Alps).—Franchi, S., 3.
- Voluta.—Oppenheim, P.
- Volutilithes.—Newton, R. B., 2; Oppenheim, P.
- Vorarlberg (Tyrol).—Blaas, J.; Seidlitz, W. von.
- Vosges Mts.—Mueller, F. T.; Sauer, A.; Ungemach, —.
- Vöslau (Lr. Austria).—Ludwig, E.
- Voulte, La (Languedoc).—Haug, E., 4.
- Vryburg (Transvaal).—Holmes, G. G., 2.
- Vulcanicity.—Lévy, Aug. M., 2.
- , sea &.—Krebs, W., 2.
- , thermal waters &.—Gautier, A., 1 & 2.
- Vulsella.—Chautard, J.
- Vysokoi R. (Urals).—Læwinson-Lessing, F., 5.
- Waes, Pays de (Flanders).—Mourlon, M., 4.
- Wagrien District (Schleswig-Holstein).—Gagel, C., 11.
- Wahra Valley (Baden).—Neumann, R.
- Waimakariri (N.Z.).—Bell, J. M., 3.
- Wakatipu, Lake (Otago).—Marshall, P., 4.
- Waldenberg (Silesia).—Dathe, E., 3.
- Waldershare (Kent).—Burr, M.
- Waldheimia.—Martelli, A., 3.
- Wales, Carboniferous zones of.—Hind, W., 4.
- , mines & quarries.—*See* GREAT BRITAIN, Home Office.
- (S.), earthquakes in.—Davison, C., 5.
- Warara (India).—Simpson, R. R., 2.
- WARD, J., *Obit.*—*See* Anon., 18.
- Wardite.—Davison, J. M.
- Wargrave (Berks).—Kennard, A. S.
- Warmbaths (Transvaal).—Kynaston, H., 7.
- Warrumbungle Mts. (N.S.W.).—Jensen, H. I.
- Warstein (Westphalia).—Brauns, R., 2.
- Wartenberg (Baden).—Becker, E., 2.
- Warwickshire.—Cantrill, T. C.; Lomas, J.
- Wasatch Range (Utah).—Davis, W. M., 3.

- Wasatch R. (Utah).—Lakes, A., 5.
 — Lake-basin (Wy.).—Loomis, F. B., 2.
 — Beds, Utah.—Loomis, F. B.
 'Wash' pre-Glacial valley (Durham).—Woolacott, D., 2.
 Washington (U.S.A.).—Daly, R. A., 2.
 — Camp (Ariz.).—Crosby, W. O.
 'Wash-outs,' Belgium.—Simoons, G., 6.
 —, Durham.—Lebour, G. A.
 —, Transvaal coal-measures.—Mellor, E. T., 3.
 Water-action, rock-decomposition &.—Cushman, A. S.; Hull, E., 3.
 —, Aisne.—Rabelle, —.
 —, Alghero.—Taramelli, T., 2.
 —-analysis, method in the field.—Leighton, M. O.
 —, Ardèche.—Raymond, P.
 —, Arizona.—Lee, W. T.
 —, Australia (Central).—Basedow, H.
 —, Bechuanaland.—Du Toit, A., 3.
 —, Bournemouth.—Cripps, F. S.
 —, Bregenz.—Blaas, J.
 —, Bulgaria.—Scorpiol, H.
 —, California.—Mendenhall, W. C., 2-5.
 —, Chambéry.—Hollande, D.
 —, Chelmsford.—Salter, A. E., 2.
 —, England (S.E.).—Palmer, P. H.; Sheuton, H. C. H.
 —, Imola.—Sangiorgi, D.
 —, Kansas.—Slichter, C. S., 2.
 —, Laibach divide.—Kossmat, F.
 —, Languedoc, &c.—Viré, A., 3.
 —-level, Karroo.—Young, A.
 —, Nord, &c.—Gosset, J., 3 & 7.
 — in rocks & influence of sea on, Flanders.—Andrimont, R. d', 1 & 2.
 —, limestones &.—Van den Broeck, E.
 —, Lincoln.—Hull, E.
 —, London.—See LONDON: METROPOLITAN WATER BOARD.
 —, Long I. (N.Y.).—Veatch, A. C., 2.
 —, Loughborough.—Hodson, G.
 —, Moquegua Valley.—Hurd, H. C.
 —, Neuchâtel.—Schardt, H.
 —, New Mexico.—Keyes, C. R.
 —, oceanic.—Lane, A. C., 2.
 —, Oklahoma Terr.—Gould, C. N.
 —, Orange River Colony &.—Wessels, J. W.
 —, Paris Basin.—Dollfus, G. F., 3.
 —, percolation of.—Andrimont, R. d', 1 & 2.
 —, Peru.—Adams, G. I., 1-3; Stiles, A. I.; Sutton, C. W.
 —, Pietrasanta.—Martelli, A., 4.
 —, Simplon Tunnel.—Schardt, H., 2.
 —, Somme.—Houllier, P.
 —, subterranean erosion &.—Schardt, H., 3.
 —, Suffolk.—Whitaker, W., 2.
 —, Texas.—Gould, C. N., 2; Slichter, C. S.
 —, Tiber.—Angelis d'Ossat, G. de, 2.
 Water, underground.—Baldwin-Wise-
 man, W. R., 1 & 2; Brouhon, L.;
 Dienert, F., 1 & 2; Frech, F., 3;
 Jæger, H.; Launay, L. de, 2.
 —, United States, Eastern.—Fuller,
 M. L., 3 & 4.
 —, Utah.—Richardson, G. B.
 —, Var.—Kilian, W., 6.
 —, veins & superheated.—Hunt, A.
 R.
 —, Victoria (Austral.).—See VICTORIA, Dep. Mines.
 —, volcanic eruptions &.—Fleischer,
 A.; Gautier, A., 1 & 2.
 —, Yorkshire.—Strangways, C. F.
 —. See also Mineral, Thermal, &c.
 Waterford, Co. (Ireland).—Reed, F.
 R. C.
 Waterval (Transvaal).—Johnson, J.
 P., 5.
 WATTS, W. W.—See Anon., 21.
 Wavellite, St. Thomas I.—Lacroix, A., 8.
 Waves of the sea.—Bertin, E.
 —, tides &.—Davis, W. M., 5.
 Wealden Beds, Sussex.—Whitaker, W.
 — Shales, Atherfield.—Hooley, R.
 W.
 Wear R. (Durham).—Woolacott, D., 1
 & 2.
 Weathering of building-stones.—Rideal,
 S.
 — of rocks.—Hilgard, E. W.
 Weber Cañon (Utah).—Lakes, A., 5.
 Weinheim (Baden).—Freudenberg, W.,
 1 & 2.
 Weissenfels (Merseburg).—Siegert, L.
 Weissenstein Tunnel (Switzerland).—
 Schmidt, C.
 Weisskirchen (Moravia).—Petrascheck,
 W.
 Well, Emporia deep (Kan.).—Smith,
 A. J.
 —, Huntingdon.—Fisher, O., 3.
 Wells, Montreal.—Adams, F. D., 4.
 —, Ribemont.—Rabelle, —.
 —. See also Borings.
 'Wellenkalk,' Hanover.—Grupe, O., 2.
 Wenlockian, Cornwall.—Green, U.
 Werbellin, Lake (Brandenburg).—Sol-
 ger, F., 2.
 Weser Valley (Prussia).—Grupe, O.
 West Indies.—See Martinique, Wind-
 ward Is., &c.
 West River (Vt.).—Fisher, E. F.
 Western Australia.—Campbell, W. D.;
 Jackson, C. F. V.; Lindgren, W., 3;
 Maitland, A. G., 1-4; Woodward,
 H. P.; see also WESTERN AUS-
 TRALIA, Depart. Mines; & Gold, &c.
 Westfield (Mass.).—Kraus, E. H., 2.
 Westland (N.Z.).—Bell, J. M., 3.
 Westmorland.—Marr, J. E., 2 & 3;
 Postlethwaite, J.; see also Lake Dis-
 trict.
 Westphalia (Germany).—Brandes, G.;
 Brauns, R., 2; Hornung, F.; Krusch,
 P.; Schmidt, W. E.; Stille, 1, 2, & 5;
 Wegner, T.

- Weybournian, East Anglia.—Harmer, F. W., 2.
- Wheeldale (Yorks).—Sewell, J. T., 2.
- Whetstone (Middlesex).—Young, A. C.
- Whetstones.—See UNITED STATES, Min. Resources.
- White Sea (Russia).—Knipovich, N.
- WHITEAVES, J. F., *Biogr.*—See Anon., 22.
- Whitehaven (Cumberland).—Shanks, J.
- Whitland (Caermarthen).—Evans, D. C.
- Whitley Cliff (Northumberland).—Lebour, G. A., 3.
- Whittlesey (Mich.).—Taylor, F. B., 1 & 2.
- Whteleafe (Surrey).—Hogg, A. J.
- Wichera R. (Tobolsk).—Duparc, L., 4.
- Wichita Mts. (Okl.).—Gould, C. N.
- Wickham, E. (Kent).—Leach, A. L.
- Wickwar (Gloucester).—Winwood, H. H., 2.
- Wide Bay (Queensl.).—Jensen, H. I., 2.
- Wienerwald (Austria), erratic blocks.—Göttinger, G.
- Wight, I of.—Colenutt, G. W.; Leriche, M., 3; Hooley, R. W.
- Wilberforce Valley (N.Z.).—Bell, J. M., 3.
- Wiltshire.—Jukes-Browne, A. J.
- Wind-River Beds, Wyoming.—Loomis, F. B.
- Windermere, Lake.—Marr, J. E., 2.
- Windward Is. (W.I.).—Hill, R. T.
- Windworn stones.—Calker, F. J. P.; Foureau, F.; see also Pebbles, faceted.
- Winnipegosis, Lake (Canada).—Whiteaves, J. F.
- Winterbourne (Berks).—White, H. J. O., 1 & 3.
- Wisconsin (U.S.A.).—Alden, W. C., 1 & 2; Grant, U. S., 2; Leith, C. K., 3; Purdue, A. H.; Upham, W.; Wheeler, H. A.
- Witbank (Transvaal).—Mellor, E. T., 4.
- Witpoortje (Witwatersrand).—Johnson, J. P., 6.
- Witteberg Quartzites.—Sandberg, C. G. S.
- Witu (British East Africa).—Potonié, H., 2.
- Witwatersrand (Transvaal).—Hall, A. L., 3; Johnson, J. P., 6; Marriott, H. F.
- Beds, Klerksdorp.—Jorissen, E.
- Wodgina tinfield (W. Austral.).—See W. AUSTRALIA, Dep. Mines, 2.
- Wolayer Thörl (Carnic Alps).—Scupin, H.
- Wolfram, New South Wales.—Andrews, E. C.
- , Perak.—See PERAK STATE, Mines Dep.
- Wolframite.—Bodenbender, G.; Headen, W. P., 2.
- Wollastonite.—Allen, E. T.; Day, A. L.; Manasse, E., 2.
- Wollong Limestone, New South Wales.—Chapman, F., 5.
- Wombat Creek (Victoria).—Chapman, F., 3.
- Wood, fossil.—Fliche, P.; Ryabinin, A.; Ward, L. F.
- WOODALL, J. W., *Obit.*—See Marr, J. E.
- Woolmuth Quarry (Mich.).—Kraus, E. H.
- World, glaciation of the.—Gugenhan, M.
- Württemberg (Germany).—Fraas, E., 1-3; Gugenhan, M., 2; Gussmann, —; Koken, E.; Kranz, W.; Pompeckj, J. F., 3; Sauer, A., 2; Schuetze, E., 2; Walther, J.
- Wyoming (U.S.A.).—Darton, N. H.; Loomis, F. B., 1 & 2; Mansfield, G. R.; Osborn, H. F., 2; Veatch, A. C.
- Xalapazcos (Mex.).—Ordóñez, E.
- Xenaspis* & *Xenodiscus*.—Hyatt, A.
- Xestoleberis*.—Cappelli, G. B.
- Xulla Is. (D.E.L.).—Bøhm, G., 4.
- Yarra Valley (Victoria).—Chapman, F.
- Yass (N.S.W.).—Shearsby, A. J.
- Ybbs R. (U. Austria).—Abel, O., 2.
- Yellowstone National Park (U.S.A.).—Hague, A.
- Yelta copper-mine (S. Australia).—Hancock, L. G.
- Yenisei R. (Siberia).—Meister, A.
- Yilgarn (W. Austral.).—Gibson, C. G.
- Yoldia*-deposits, Posen.—Jentzsch, A., 6.
- Yorkshire.—Broderick, H.; Carter, W. L., 1, 2, & 4; Crofts, W. H.; Culpin, H.; Davison, C., 7; Douvillé, H.; Dwerryhouse, A. R.; Hawkesworth, E.; Herries, R. S., 1 & 3; Howarth, J. H.; Hughes, T. McK.; Johns, C., 2 & 3; Kendall, P. F., 1 & 3; Macturk, G. W. B.; Markham, C. A.; Mathews, E. R.; Muff, H. B.; Reid, C., 3; Robinson, J. F.; Sewell, J. T., 1 & 2; Shepard, T., 1-5; Stather, J. W., 1-3; Strangways, C. F.; Teasdale, T.; Terry, H. L.; Wellburn, E. D.; Wood, G. C.
- Yorktown (Va.).—Berry, E. W., 3.
- Ypresian, Paris Basin.—Fritel, P.
- Yttrioniferous garnet.—Benedicks, C.
- Yttrocrasite.—Hidden, W. E.
- Yukon R. (N.W. Canada).—Obalski, T., 1 & 2.
- Yukon Terr. (N.W. Canada).—Bell, R., 3 & 4; Brooks, A. H.; Knight, C. W.
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- Zambezi R. (Africa).—Beck, R., 3; Lanplugh, G. W., 2; Molyneux, A. J. C.
- Zaphrentis*.—Carruthers, R. G.; Schwarz, E. H. L., 8; Vaughan, A.
- zone, Rush.—Matley, C. A.
- Zarrentin (Prussia).—Gagel, C., 9.
- Zaucherode (Saxony).—Hartung, H.
- Zebrù Valley (Lombardy).—Ferro, A. A.

- Zcolites.—Gaus, R.; Goldschmidt, V., 1 & 2; Gonnard, F., 2; Hussak, E., 2; Manasse, E., 3; Pauly, A., 2; Pelikan, A.; Pritchard, G. B., 2; Zamboni, F., 2.
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- , New South Wales.—*See* NEW SOUTH WALES, Dep. Mines.
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- , Tennessee & Virginia.—Watson, T. L., 2.
- , Wisconsin.—Grant, U. S., 2; Purdue, A. H.; Wheeler, H. A.
- , *See also* UNITED STATES, Min. Resources.
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- ZITTEL, K. A. VON, *Obit.*—*See* Pompeckj, J. F.; Rothpletz, A.
- Zmiey (Kharkov).—Borisyak, A., 2.
- Znaim (Moravia).—Till, A., 2.
- Zoisite.—Farrington, O. C., 3; Manasse, E., 2.
- Zones, Carboniferous.—Hind, W., 3 & 4; Matley, C. A.; Stobbs, J. T.
- , Chalk.—Bosworth, T. O.; Brydone, R. M., 1 & 2; Jukes-Browne, A. J., 2 & 3; Leriche, M., 4; Treacher, L.
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- Zululand (S.A.).—Anderson, W.; Gray, C. J.
- Zuurberg (Cape Colony).—Rogers, A. W.
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