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- 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. Leop.-Car. deutsch. Akad.* Abhandlungen der kaiserlichen Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher. Halle. See also *Nova Acta Acad. Cæs. Leop.-Car.*
- 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. naturf. Gesellsch. Halle.* Abhandlungen der naturforschenden Gesellschaft zu Halle. Stuttgart.
- 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. See also *Verh. schweiz. naturf. Gesellsch.*
- 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.
- Alabama Geol. Surv.* Geological Survey of Alabama. Montgomery (Ala.).
- Am. Geol.* American Geologist. Minneapolis (Minn.). See *Econ. Geol.*
- Am. Journ. Sci.* American Journal of Science. New Haven (Conn.).
- An. Inst. geol. României.* Anuarul Institutului geologic al României. Bukharest.
- 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. R. Acad. Cienc. Madrid.* Anuario de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- 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. Bull. Min. Resources, Kansas, Univ. Geol. Surv. Kansas.* Annual Bulletin on the Mineral Resources of Kansas. Lawrence (Kan.).
- Ann. Club alpin franç.* Annuaire du Club alpin français. Paris.
- Ann. Escola Minas, Ouro Preto.* Annaes da Escola de Minas. Ouro Preto (Brazil).
- Ann. Géol. et Paléont. Palerme.* Annales de Géologie et de Paléontologie. Palermo.
- Ann. géol. Penin. balkan. Belgrad.* Annales géologiques de la Peninsule balkanique. Belgrade.
- Ann. Glaciologie, Berlin.* See *Zeitschr. f. Gletscherk. Berlin.*
- 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. Observ. Nat. Athènes.* Annales de l'Observatoire National d'Athènes. Athens.
- Ann. R. Univ. toscane.* Annuario delle Reali Università toscane. 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, Ontario.* Annual Report of the Bureau of Mines. Ontario.

- Ann. Rep. Dep. Geol. Indiana.* Annual Report of the Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).
- Ann. Rep. Dep. Mines, B.C.* Annual Report of the Department of Mines, British Columbia. Victoria (B.C.).
- 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. Dep. Mines, Victoria.* See *Victoria, Dep. Mines.*
- Ann. Rep. Geol. Comm. Cape Colony.* Annual Report of the Geological Commission, Cape Colony. Cape Town.
- Ann. Rep. Geol. Surv. Canada.* Annual Report of the Geological Survey of Canada. Ottawa. See also *Canada, Dep. Mines.*
- 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. N.Z.* Annual Report of the Geological Survey of New Zealand. Wellington (N.Z.).
- 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. Leeds Phil. Soc.* Annual Report of the Leeds Philosophical and Literary Society. Leeds.
- 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. N.Y. State Mus.* Annual Report of the New York State Museum. Albany. See also *N.Y. State Mus.*
- Ann. Rep. Rhodesia Chamber of Mines, Bulawayo.* Annual Report of the Rhodesia Chamber of Mines. Bulawayo (Rhodesia).
- Ann. Rep. Rhodesia Mus.* Annual Report of the Rhodesia Museum. Bulawayo.
- Ann. Rep. Roy. Cornwall Polytechnic Soc.* Annual Report of the Royal Cornwall Polytechnic Society. Falmouth.
- Ann. Rep. Sec. Mines, Victoria.* Annual Report of the Secretary of Mines, Victoria. Melbourne.
- 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. State Geol. Vermont.* Annual Report of the State Geologist of Vermont. Montpelier (Vt.).
- Ann. Rep. U.S. Geol. Surv.* Annual Report of the United States Geological Survey. Washington (D.C.).
- Ann. Rep. Washington Geol. Surv.* Annual Report of the Washington Geological Survey. Olympia (Wash.).
- 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. Afr. 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.
- 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. Mus. Hist. nat. Lyon.* Archives du Muséum d'Histoire naturelle. Lyon.
- Arch. Naturk. Liv.-Ehst- u. Kurlands, Dorpat.* Archiv für die Naturkunde Liv.-Ehst- und Kurlands. Naturforscher-Gesellschaft. Dorpat (Jurjew).
- 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-Akademierna. Stockholm.
- Athenæum.* Athenæum. 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. ital. Progr. Sci.* Atti della Società italiana per il Progresso delle Scienze. Rome.
- 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. 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. Karlsruhe.
- 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.
- Bergw. Zeitfr. Berlin.* Bergwirtschaftliche Zeitfragen. Berlin.
- Bibl. geol., Serv. géol. Belg.* Bibliographica geologica, Service géologique de Belgique. Brussels.
- 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. Comm. geogr. e geol. S. Paulo.* Boletim da Comissão geographica e geologica do Estado de São Paulo. São Paulo.
- 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.
- British Columbia, Dep. Mines.* British Columbia: Department of Mines. Victoria (B.C.).
- Bull. Acad. Imp. Sci. St. Pétersb.* Bulletin de l'Académie Impériale des Sciences. St. Peter-burg.

- 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. Buffalo Soc. Nat. Sci.* Bulletin of the Buffalo Society of Natural Sciences. Buffalo (N.J.).
- 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. Conn. Geol. & Nat. Hist. Surv.* Bulletin of the Connecticut State Geological and Natural History Survey. Hartford (Conn.).
- 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.). See also *Georgia, Geol. Surv.*
- Bull. Geol. Surv. N.Z.* See *N.Z. Dep. Mines, Geol. Surv.*
- Bull. Geol. Surv. Ohio.* Bulletin of the Geological Survey of Ohio. Columbus (Ohio).
- Bull. Geol. Surv. Queenst.* 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. Earthq. Comm. Tokyo.* Bulletin of the Imperial Earthquake Commission. Tokyo.
- Bull. Imp. Inst.* Bulletin of the Imperial Institute. London.
- Bull. Intern. Acad. Sci. Cracovie.* Bulletin International de l'Académie des Sciences. Cracov.
- Bull. Ky. Geol. Surv.* Bulletin of the Kentucky Geological Survey. Lexington (Ky.).
- Bull. Lab. de Géol. &c., Univ. Lausanne.* Bulletin des Laboratoires de Géologie, Géographie physique, Minéralogie et Paléontologie de l'Université de Lausanne. Lausanne.
- 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.Y. State Mus.* Bulletin of the New York State Museum. Albany (N.Y.).
- 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. Serv. Carte géol. France.* Bulletin des Services de la Carte géologique de la France. Paris.
- Bull. Soc. Agric. Sci. Puy.* Bulletin de la Société d'Agriculture, Science, Arts et Commerce du Puy. Le Puy.
- 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. Fribourg. Sci. nat.* Bulletin de la Société fribourgeoise des Sciences naturelles. Fribourg.
- Bull. Soc. géol. France.* Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Norm.* Bulletin de la Société géologique de Normandie. Le 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. Moscou.
- 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. portugaise Sci. nat.* Bulletin de la Société portugaise des Sciences naturelles. Lisbon.
- 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. Spéleol. 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. U.S. Nat. Mus.* Bulletin of the United States National Museum. Washington (D.C.).
- Bull. Univ. Cal.* Bulletin of the University of California. Berkeley (Cal.).
- Bull. Univ. Kansas.* See *Sci. Bull. Univ. Kansas.*
- Bull. Univ. Oregon.* Bulletin of the University of Oregon. Eugen (Or.).
- Bull. Univ. Wis.* Bulletin of the University of Wisconsin. Madison (Wis.).
- 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.
- Canada, Dep. Mines.* Canada: Department of Mines. Ottawa.
- 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.
- C. R. Soc. helv. Sci. nat.* Compte-rendu des Travaux de la Société helvétique des Sciences naturelles. Geneva.
- 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.
- Egypt, Surv. Dep.* Egypt Survey Department & Geological Survey. Cairo.
- Erläut. geogn. Karte Bayern.* Erläuterungen zu der geognostischen Karte des Königreichs Bayern. Munich.
- Erläut. geol. Karte Baden.* Erläuterungen zur geologischen Specialkarte des Grossherzogthums Baden. Heidelberg.
- Essex Nat.* Essex Naturalist, being the Journal of the Essex Field-Club. Stratford.
- Expl. géol. Rég. aurif. Sibérie.* Explorations géologiques dans les Régions aurifères de la Sibérie. St. Petersburg.
- 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. Rundsch., Leipzig.* Geologische Rundschau: Zeitschrift für allgemeine Geologie. Leipzig.
- Geol. Surv. Canada. Contr. Canad. Paleont.* 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. Paleont. Abh., Jena.* Geologische und Palæontologische Abhandlungen. Jena.
- Geol. Zentralbl.* Geologisches Zentralblatt. Leipzig.
- Georgia, Geol. Surv.* Georgia Geological Survey. Atlanta (Ga.).
- Giorn. Geol. prat.* Giornale di Geologia pratica. Catania.
- 'Glasnik' Soc. Hist. nat. Croatica.* Journal of the Natural History Society of Croatia. Agram.
- Great Britain & Ireland. Home Office. Mines & Quarries.* General Report and Statistics. London.
- Hull Mus. Publ.* Hull Museum Publications. Hull.
- Illinois Geol. Surv.* Illinois Geological Survey. Urbana (Ill.).
- Imp. Coll. Sci. London.* Imperial College of Science and Technology. London.
- Indian Engin.* Indian Engineering. Calcutta.
- Internat. Cat. Sci. Lit.* International Catalogue of Scientific Literature. London.
- Iowa Geol. Surv.* Iowa Geological Survey. Des Moines (Iowa).
- Irish Nat.* Irish Naturalist. Dublin.
- Jaarb. Mijnw. Ned. O.-Ind.* Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Batavia.
- 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-Alpenclubs. Bern.
- Jahresb. k.-ung. geol. Anst.* Jahresbericht der königlich ungarischen geologischen Anstalt. Budapest.
- Jahresb. naturh. Gesellsch. Hannover.* Jahresbericht der naturhistorischen Gesellschaft zu Hannover. Hannover.
- Jahresb. naturh. Gesellsch. Nürnberg.* Jahresbericht der naturhistorischen Gesellschaft. Nürnberg.
- Jahresb. niedersächs. geol. Ver.* Jahresbericht des niedersächsischen geologischen Vereins. Hannover.
- 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. Acad. Nat. Sci. Philad.* Journal of the Academy of Natural Sciences, Philadelphia.
- 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. 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 Royal 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 mathematisk Afhandling. Copenhagen.
- K. danske Vidensk. Selsk. Skrift.* Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.
- K. svenska Vet.-Akad. Årsbok.* Kongliga svenska Vetenskaps-Akademiens Årsbok. Stockholm.
- K. svenska Vet.-Akad. Handl.* Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Kansas Univ. Sci. Bull.* See *Sci. Bull. Univ. Kansas.*
- Kentucky Geol. Surv.* Kentucky Geological Survey. Report of Progress. Lexington (Ky.). (See also *Bull. Ky. Geol. Surv.*)
- Knowledge.* Knowledge. London.
- 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. dansk geol. Foren.* Meddelelser fra dansk geologisk Forening. Copenhagen.
- Meddel. geogr. Fören. Finland.* Meddelanden af geografiska Föreningen i Finland. Helsingfors.
- Meddel. Grönland.* Meddelelser om Grönland, udgivne af Kommissionen for Ledelsen af de Geologiske og Geographiske Undersøgelser i Grönland. Copenhagen.
- Meddel. Upsala Univ. Min.-geol. Inst.* Meddelanden från Upsala Universitetets Mineralogisk-geologiska Institut. Stockholm.
- Mém. Acad. Imp. Sci. St. Pétersb.* Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
- Mém. Acad. Roy. Belg.* Mémoires de l'Académie Royale de Belgique. Brussels.
- 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. Inst. Explor. Netherlands.* See *Mitth. staatl. Bohrverw. Nederland.*
- 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: Palæontographia 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. Indian Mus. Calcutta.* Memoirs of the Indian Museum. Calcutta.
- 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.).
- Mém. Mus. R. Hist. nat. Belg.* Mémoires du Musée Royal d'Histoire naturelle de Belgique. Brussels.
- 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. N.Y. State Mus.* See *N.Y. State Mus.*
- 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. Astron. Soc.* Memoirs of the Royal Astronomical Society. London.
- 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. fribourg. Sci. nat., Géol. et Géogr.* Mémoires de la Société fribourgeoise des Sciences naturelles. Fribourg.
- 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. 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. Gesellsch. Wien.* Mittheilungen der geologischen Gesellschaft in 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. Berne.
- Mitth. nat. Ver. Steiermark.* Mittheilungen des naturwissenschaftlichen Vereins für Steiermark. Graz.
- Mitth. staatl. Bohrverw. Nederl.* Mittheilungen der staatlichen Bohrverwaltung in den Niederlanden (Rijksopsporing van Delfstoffen). Amsterdam & The Hague.

- Mitth. Ver. Erdk. Dresden.* Mittheilungen des Vereins für Erdkunde. Dresden.
- Monatsb. deutsch. geol. Gesellsch.* Monatsberichte der deutschen geologischen Gesellschaft. Berlin. See also *Zeitschr.*
- Monogr. Palæont. Soc.* Monographs of the Palæontographical Society. London.
- Monogr. Ray Soc.* Monographs of the Ray Society. London.
- Monogr. U.S. Geol. Surv.* Monographs of the United States Geological Survey. Washington (D.C.).
- Monthly Circ. Kent Coal Concess.* Monthly Circular, Kent Coal Concessions. London.
- Mus. Lundii Afh.* E Museo Lundii. Afhandlingar. Copenhagen.
- Mysore Geol. Dep.* Mysore Geological Department. Bangalore.
- Natal Rep. Mining.* Report on the Mining Industry of Natal. Pietermaritzburg.
- Naturalist, Hull.* The Naturalist. Hull.
- Nature.* Nature. London.
- Naturen, Bergen.* Naturen. Bergen.
- Nat. Verh. Holland. Maat. Wet. Haarlem.* Natuurkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen. Haarlem.
- Neue Denkschr. schweiz. Gesellsch. Naturw.* Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Basel, &c.
- N. J. f. Min.* Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Norges Geol. Undersök.* Norges Geologiske Undersökelse. Christiania.
- Norges Landbrukshöskole.* Norges Landbrukshöskole. Beretning. Christiania.
- 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 grossherzoglich hessischen geologischen Landesanstalt. Darmstadt.
- Nouv. Arch. Mus. Hist. nat. Paris.* Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
- Nouv. Mém. Soc. belge Geol.* Nouveaux Mémoires de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
- Nouv. Mém. Soc. Imp. nat. Moscou.* Nouveaux Mémoires de la Société Impériale des Naturalistes. Moscow.
- Nova Acta Acad. Cæs. Leop.-Car.* Nova Acta Academiae Cæsareæ Leopoldino-Carolinae Germanicae Naturæ Curiosorum. Halle. See also *Abh. k. Leop.-Car. deutsch. Akad. Naturf.*
- N.S.W. Dep. Mines.* New South Wales Department of Mines. Sydney.
- N.Y. State Mus.* New York State Museum. Albany (N.Y.).
- N.Z. Dep. Mines, Geol. Surv.* New Zealand Department of Mines. Geological Survey. Wellington (N.Z.).
- Nyt Magazin.* Nyt Magazin for Naturvidenskaberne. Christiania.
- Occ. Papers Boston Nat. Hist. Soc.* Occasional Papers of the Boston Natural History Society. Boston (Mass.).
- 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 Videnskaberne-Selskabs Forhandlingar. Copenhagen.
- Palæont. Abh. Jena.* Paläontologische Abhandlungen. Jena.
- Palæont. Univ.* Palæontologia Universalis. 8vo. Paris.
- 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.
- Philippine Is., Dep. Inter., Bur. Sci.* Philippine Is., Department of the Interior. Bureau of Science. Manila.
- 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. Austral. 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. 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. Cal. Acad. Sci.* Proceedings of the California Academy of Sciences. San Francisco (Cal.).
- 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 (Ind.).
- 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. N.Z. Inst.* Proceedings of the New Zealand Institute. Wellington (N.Z.).
- 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. Roy. 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. 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 (D.C.).
- 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.
- Queensl., Dep. Mines.* Queensland: Department of Mines. Brisbane.
- Roy Soc.* See *Monographs*.
- 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. Indian Mus.* Records of the Indian Museum. Calcutta.
- 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, India.* Report of the Chief Inspector of Mines in India, Department of Mines. Calcutta.
- 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. Austral.* Report of the Department of Mines, Western Australia. Perth (W.A.).
- Rep. Geol. Surv. Louisiana.* Report of the Geological Survey of Louisiana. Bâton 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. Rhodesia Chamb. Mines.* Report of the Rhodesia Chamber of Mines. Bulawayo.
- Rep. Rugby School Nat. Hist. Soc.* Report of the Rugby School Natural History Society. Rugby.
- Rep. S. Afr. Assoc. Adv. Sci.* Report of the South African Association for the Advancement of Science. Cape Town.
- Rep. S. Afr. Mus.* Report of the South African Museum. 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. U.S. Nat. Mus.* Report of the United States National Museum. Washington (D.C.).
- Rep. Univ. Geol. Surv. Kansas.* Reports of the University Geological Survey of Kansas. Topeka (Kan.). See also *Ann. Bull. Min. Resources, Kansas.*
- Rep. Vermont State Geol.* Report of the State Geologist of Vermont. Montpelier (Vt.).
- 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 (Brazil).
- Rev. Minas, Santiago.* Revista de Minas. Santiago de Chile.
- Rev. Mus. La Plata.* Revista del Museo de la Plata. La Plata.
- 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 Umiejetności. Cracow.
- Samml. geol. R.-Mus. Leiden.* Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
- São Paulo, Comm. geogr. e geol.* Comissão geographica e geologica do Estado de São Paulo. São Paulo.
- 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. naturh. Ver. preuss. Rheinl.* Sitzungsberichte herausgegeben vom naturhistorischen Verein der preussischen Rheinlande und Westfalens. Bonn.
- Sitz. niederrhein. Gesellsch. Nat. &c., Bonn.* Sitzungsberichte der niederrheinischen 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. Contrib. Knowledge.* Smithsonian Contributions to Knowledge. Washington (D.C.).
- 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.

- South Australia, Dep. of Intell.* South Australia, Department of Intelligence. Adelaide.
- 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.
- Sver. geol. Undersökn., Årsb.* Sveriges geologiska Undersökning, Årsbok. Stockholm.
- Tasm. Dep. Mines.* Tasmania. Department of Mines. Hobart.
- Trans. Acad. Sci. St. Louis.* Transactions of the Academy of Science. St. Louis (Mo.).
- 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. Assoc. Water Eng.* Transactions of the Association of Water 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. Croydon Microsc.*, &c.
- 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. Afr.* 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. M. E.* Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
- Trans. Inst. Mining & Metall.* Transactions of the Institution of Mining and Metallurgy. London.
- 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. N.S.W.* Transactions of the Royal Society of New South Wales. Sydney (N.S.W.).
- Trans. Roy. Soc. S. Afr.* Transactions of the Royal Society of South Africa. Cape Town.
- Trans. Roy. Soc. S. Austral.* Transactions of the Royal Society of South Australia. Adelaide.
- Trans. S.Afr. 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. Wisconsin Acad. Sci.* Transactions of the Wisconsin Academy of Science, Arts, and Letters. Madison (Wis.).
- Trans. Woolhope Nat. F.-C.* Transactions of the Woolhope Naturalists' Field-Club. Hereford.
- Trans. Worcester. Nat. Club.* Transactions of the Worcestershire Naturalists' Club. Worcester.
- 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.
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- Trav. Mus. géol. Cab. Sa M. St. Petersb.* Travaux de la Section géologique du Cabinet de Sa Majesté. St. Petersburg.
- Tufts Coll. Studies.* Tufts College Studies. Tufts College (Mass.).
- U.S. Geol. Surv.* United States Geological Survey. Washington (D.C.).
- Uppsala Univ. Årsskrift.* Uppsala Universitets Årsskrift. Upsala.
- 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. See also *Actes Soc. helv. Sci.*
- Verh. siebenbürg. Ver. Naturw.* Verhandlungen und Mittheilungen des siebenbürgischen Vereins für Naturwissenschaften. Hermannstadt.
- Veröffentl. Inst. Meeresk. Berlin.* Veröffentlichungen des Instituts für Meereskunde und des geographischen Instituts an der Universität. Berlin.
- Victoria, Dep. Mines.* Victoria: Department of Mines. Melbourne.
- Victorian Nat., Melbourne.* Victorian Naturalist. Melbourne.
- Vidensk. Meddel. naturh. Foren. Kjöbenhavn.* Videnskabelige Meddelelser fra den naturhistoriske Forening i Kjöbenhavn. Copenhagen.
- Water.* Water. London.
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- Western Australia, Dep. Mines.* Western Australia: Department of Mines. Perth (W. Austral.).
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- Zeitschr. f. Berg-, Hütt.- u. Salinenw.* Zeitschrift für das Berg-, Hütten- und Salinenwesen im preussischen Staate. Berlin.
- Zeitschr. f. Gletscherk. Berlin.* Zeitschrift für Gletscherkunde. Berlin.
- Zeitschr. f. Kryst.* Zeitschrift für Krystallographie und Mineralogie. Leipzig.
- Zeitschr. f. Naturw. Halle.* Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen zu Halle a. S. Leipzig.
- Zeitschr. f. prakt. Geol.* Zeitschrift für praktische Geologie. Berlin.
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Anisocardia.—Krause, P. G.
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Ankylosaurus.—Åbel, O.
 Ånn (Jentland).—Hægboim, A. G.
 Annelida, casts of burrows of.—Leriche, M., 3.
Annularia.—Arber, E. A. N.; Zaleski, M. D.
Anodonta.—Pavlović, P. S.
Anodontophora.—Diener, C., 3; Mansuy, H., 2.
Anolcites.—Diener, C., 3.
Anomia.—Healey, M.; Krause, P. G.; Tæger, H.
Anomæodus.—Woodward, A. S., 2.
Anomorrhæa.—Kidston, R., 2.
Anoptophora.—Healey, M.
 Anorthosite, Bohemia.—Bergt, W., 3.
Anosteira.—Lambe, L. M.
 Antarctic Expeditions, British.—Gregory, J. W., 7; Shackleton, E. H.
 Antarctic Is. of N.Z.—Farr, C. C.
 Antarctic regions.—Deeley, R. M., 1 & 2; Drygalski, E. von; Kilian, W., 5; Nathorst, A. G., 3; Suess, E., 2.
 Anthophyllite, Tongking.—Deprat, J.
 Anthracite, Visé.—Lohest, M., 3.
 —, South Wales.—Knowles, Sir L.
Anthracomya.—Hind, W., 3.
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Antilope.—Zdarsky, A.
 Antimony, Peru.—Weckwarth, E., 2.
 Antrim Co. (Ireland).—Jackson, J. W., 3; Martin, E. A., 3; Moss, R. J.; Welch, R.
 Aosta Valley (Piedmont).—Piolti, G.
 Apatite, Caceres.—Choffat, P., 5.
 —, Carinthia.—Weber, L.
 —, Elba.—Gøergey, R.
 —, South Africa.—Thiene, H.; Wagner, P. A.
Apatocephalus.—Reed, F. R. C., 2.
 Apennines (Italy).—Braun, G.; Deecke, W., 2; Fucini, A.; Sangiorgi, D.
 Apolda (Thuringia).—Compter, G.
 Apophyllite.—Cornu, F., 5.
Aporrhais.—Grønwall, K. A., 2; Remes, M.
 Appalachian Valley (Pa.).—Stose, G. W.
Apricardia.—Parona, C. F., 3.
 Apscheron Peninsula (Caspian).—Dalton, L. V.
 Apulia (Italy).—Casardi, F.
Arachnophyllum.—Etheridge, R., *fl.*
 Aragonite, Auvergne.—Vigier, A., 2.
 —, Karlsbad.—Suess, F. E.
 —, Rohitsch.—Hlawatsch, C., 3.
 Arakan Coast (Burma).—Brown, J. C.
Aralia.—Menzel, P.
 Araucanian Indian legends of *Gryppotherium*.—Lehmann-Nitsche, R.
Araucaria.—Salfeld, H., 2.
 Arauco, Puerta de (Argentina).—Ducloux, E. H., 3.
 Arbas massif (Haute-Garonne).—Martel, E. A., 3.
Arberia.—See BRAZIL.
Arca.—Dall, W. H., 2; Dollfus, G. F.; Tæger, H.; Toula, F., 4.
Arcestes.—Diener, C., 2; Kittl, E.; Marshall, P., 7.
Archæacridites.—Meunier, F., 3.
 Archæan, North America.—Adams, F. D., 1-3; Holmquist, P. J.; Matthew, G. F.; Van Hise, C. F., 1-3.
 —, Cyclades.—Papavasiliou, S. A.
 —, Fennoscandia.—Holmquist, P. J.; Sederholm, J. J.
 —, Malay Peninsula.—Scrivenor, J. B., 4.
 —, Olonetz Gov.—Walter, W.
 —, Tasmania.—Twelvetrees, W. H., 2.
Archæocomponeura.—Meunier, F., 3.
Archæobatis.—Dean, B.
 Archæoceti, Eocene.—Stromer, E.
Archæocidaris.—Girty, G. H., 2; Sommer, K.
 Archæocyathina, Cambrian.—Taylor, T. G.
Archæopus.—Rathbun, M. J.
Archæotrogon.—Gaillard, C.
Archæoxesta.—Neuenhaus, H.

- Arche, L' (Belgium).—Maillieux, E., 6.
Archelon.—Wieland, G. R.
Archimylaeris.—Leriche, M., 4.
Architectonica.—Dall, W. H., 2; Newton, R. B., 2.
 Arcos de la Frontera (Cadiz).—Bonarelli, G., 2.
 Arctic regions.—Bruce, W. S.; Geer, G. de; Kendall, P. F., 3; Kindle, E. M., 3; Martin, E. A., 4; Nathorst, A. G., 7; Sokolov, D. N., 2-4; Thoulet, J.
Arctomys.—Hagmann, G.
 Ardèche (France).—Toucas, A.
 Arden Basin (Renfrewshire).—Carruthers, R. G.
 Ardennes.—Carpentier, A., 8; Douxami, H., 4; Holzappel, E., 3; Lohest, M., 9; Munck, E. de; Poskin, A., 2.
 Argentina (S. Am.).—Ameghino, F., 1-7; Barclay, W. S.; Bodenbender, G.; Burckhardt, C., 2 & 3; Canu, F., 2; Delachaux, E. A. S.; Ducloux, E. H., 1, 3, & 4; Hauthal, R.; Ihering, H. von; Jacob, C.; Keidel, H.; Keyserling, O. von; Kurtz, F., 1 & 2; Lehmann-Nitsche, R., 1 & 2; Michaelis, S.; Roth, S., 1 & 2; Watson, E.; Zilleruelo, A.
 Argentite.—Van Horn, F. R.
Argillæcia.—Girty, G. H., 2.
Argobuccinum.—Dall, W. H., 2.
 Argolis (Greece).—Frech, F.; Négris, P., 6; Renz, C., 5.
 Argonne Forest (Ardennes).—Douxami, H., 4.
 Argyll (Scotland).—Clough, C. T., 2; Kynaston, H.; Peach, B. N., 2; Stark, J.
 'ARGYLL'S Bowling Green' (Argyll).—Stark, J.
 Arid regions, New Mexico, &c.—Keyes, C. R., 1, 2, & 4.
 ARIDI, V.—Lœrenthey, I. von, 2.
 Aridity, plant-life &.—Macdougal, D. T.
 Ariège (France).—Martel, E. A.
Arietites.—Diener, C., 2.
Arionellus.—Moberg, J. C.
 Arisaig (Nova Scotia).—Twenhofel, W. H.
Aristolochia.—Engelhardt, H.
 Arizona (U.S.A.).—Blake, W. P.; Herrick, R. L., 4; Johnson, D. W.; Lee, W. T.; Tolman, C. F.
 Arizonite.—Palmer, C.
 Arkansas (U.S.A.).—Brammer, J. C.; Kunz, G. F.; Purdue, A. H.
 Arkhangelski Mines (Ufa).—Koniu-chewski, L.
 Arnadillo, Tertiary.—Ameghino, F., 2.
 Armorican massif, France.—Vander-motte, L.
 Armour, degeneration in animals.—Oswald, F., 2.
 ARNAUD, H., *Obit.*—See Degrange-Touzin, A., 4; Grossouvre, A. de, 2.
 Arngrove (Bucks).—Davies, A. M., 2.
Arpadites.—Diener, C., 3; Kittl, E.
 Arran, I. of (Scotland).—Reoch, J. W.; Stark, J., 3.
 ARRHENIUS, S.—See Kayser, E., 2
 Koken, E., 4.
 Art, geology &.—Richardson, R.
 Artesian borings, Russia.—Sinuzov, I., 1, 3-6.
 — water, Colorado.—Headden, W. P., 2.
 — —, Egypt.—Beaduell, H. J. L., 2.
 — —, Figueras.—Sánchez Lozano, R.
 — —, Po Valley.—Taramelli, T.
 Arthrodiros, fossil.—Dean, B.
Arthropleura.—Andrée, K.
 Arthropoda, Carboniferous.—Peach, B. N.
Artinska.—Sellards, E. H.
 Artois (France).—Gosselet, J.; see also Pas-de-Calais.
 Asbestos, Quebec.—Dresser, J. A., 2.
 Ash-agglomerate, Vogelsberge.—Schottler, W.
 Ashes & baked earth in Argentine territory.—Ameghino, F., 4-6; Outes, F. F., 2 & 3.
 Asia (Central).—Cottreau, —; Stein, M. A.
 —, N.E. coast of.—Wittenburg, P. von, 2-4.
 Asia Minor.—Kessier, P.; Risch, C.; Toula, F., 2.
 Askja Valley (Iceland).—Erkes, H.
 Aso volcano (Japan).—Anderson, R.
 Aspen (Colo.).—Loughlin, G. F.; Spurr, J. E.
 Asphalt, Abruzzo.—Giattini, G. B.
 —, Baden.—Ebler, E.; Salomon, W., 2.
 —, Brazil.—See BRAZIL.
 —, California.—Miller, L. H.
 —, Carinthia.—Gortani, M.
 —, Switzerland.—Hotz, W., 2.
 —, Trinidad.—Guppy, R. J. L.
 —, United States.—Hayes, C. W.
Aspideretes.—Hay, O. P.
Aspidoceras.—Borisjak, A., 3; Rothpletz, A.; Vadász, M. E., 2.
Aspidostoma.—Canu, F., 2; Schöndorf, F.
Aspidothyris.—Diener, C., 3.
 Assays, mine waters.—Lane, A. C.
Assilian.—Heim, Arnold.
 Assynt district (Scotland).—Shand, S. J.
 Asszonyfalva (Transylvania).—Roth von Telegd, L.
Astarella.—Girty, G. H., 2.
Astarte.—Wollenmann, A.
Asterias.—Schöndorf, F.
 Asteroidea, Palæozoic.—Schöndorf, F., 1 & 2.
Asterolepis.—Hoffmann, G.; Traquair, R. H.
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- Astieria*.—Baumberger, E.; Wegner, R. N.
Astieria-beds, Neuchâtel.—Kilian, W., 2.
Astræa.—Dall, W. H., 2.
Astroecenia.—Dollfus, G. F., 3; Prever, P. L., 2.
Astrodapsis.—Pack, R. W.
Astronomy, geology &.—Ormathwaite, Lord.
Astropecten.—Lemoine, P., 3.
Astoria (Oregon).—Dall, W. H., 2.
Atacama Desert (Chile).—Reichert, F.
Atacocha (Peru).—Diaz, L. F.
Ataua.—Sellards, E. H.
ATHERSTONE, W. G.—See Schwarz, E. H. L.
Athyris.—Douglas, J. A.; Mansuy, H., 2; Reed, F. R. C.; Sommer, K.
Atlantic coast of France, erosion.—Welsch, J., 2.
— Ocean, seismology of.—Gerland, G.
— Region, Devonian land of.—Schwarz, E. H. L., 2.
Atlantis.—Guppy, R. J. L., 3.
Atlas Mts. (N. Afr.).—Dareste de la Chavanne, J., 2; Gentil, L., 2; Joleand, L., 4; Savornin, J., 1 & 3.
Atmosphere, carbonic acid hypothesis of earth's.—Arrhenius, S., 2; Dwerryhouse, A. R.; Koken, E., 6.
Atolls, formation of.—Jones, F. W.
Atracites.—Diener, C., 2; Kittl, E.
Atrypa.—Mansuy, H., 2; Reed, F. R. C.; Vinassa de Regny, P. E., 4.
Attendorn (Hanover).—Wilckens, O.
Attica (Greece).—Ktenas, K. A., 2; Renz, C., 2.
Aucella.—Sokolov, D. N., 2-5.
Aucellina.—Sokolov, D. N., 5; Wollemann, A.
Aude (France).—Carez, A.
Audi, Abri (Dordogne).—Lalanne, G., 2.
Augite, melting-point of.—Schmidt, Marg.
Aulacoceras.—Haas, O., 2.
Aulacophyllum & *Aulopora*.—Reed, F. R. C.
Aulacothyris.—Diener, C., 3.
Aulne, Abbaye d' (Hainault).—Cornet, J., 9.
Aulosteges.—Girty, G. H., 2; Yakovlev, N.
Auriferous conglomerate, Transvaal.—Young, R. B.
— deposits, classification of.—MacLaren, J. M.
— —, formation of.—Launay, L. de, 2; see also Gold.
Aurignac (Haute Garonne).—Gorgonovic-Kramberger, K.
Aussee (Austria).—Haug, E.
Australasia.—Suess, E.
Australia, alkaline rocks of.—Jensen, H. 1., 3 & 4.
—, 'Barisal guns.'—Cleland, J. B.
—, continental geology of.—Basedow, H., 2.
Australia, diamond matrices.—Thomson, J. A.
—, glaciation of.—David, T. W. E., 3.
—, rare metals in.—Simpson, E. S.
— soils.—Cherry, T.
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Austria, Geological Survey.—Tietze, E., 2 & 3.
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— (Lower).—Himmelbauer, A., 3; Klæs, P. H.; Redlich, K. A., 1 & 2; Sigmund, A.; Suess, F. E., 5; Toula, F., 3 & 5; Uhlig, V., 4.
— (Upper).—Angerer, P. L.; Gayer, G., 1-3; Till, A.
Austrian Alps.—Trauth, F.
Autoclastic phenomena, causes of.—Cornet, J., 3.
Autodetus.—Clarke, J. M., 2.
Autotomy, Cretaceous crustacea.—Legendre, R.
Auvergne (France).—Barbier, P., 2; Charvilhat, G.; Dauzère, C.; Garrigou-Lagrange, P.; Giraud, J.; Glangeaud, P., 1, 3, & 4; Lacroix, A., 11; Meunier, S.; Vigier, A., 1 & 2; see also Puy-de-Dôme, Volcanoes, &c.
Avèze (Goritz).—Bergwerth, F., 2.
Avesnes (Nord).—Carpentier, A., 5.
Aveyron (France).—Fabre, G.; Lévy, Alb. M.
Avicula.—Healey, M.; Krause, P. G.; Sommer, K.; Toula, F., 5.
Aviculidæ, Jurassic.—Borisjak, A., 5.
Aviculopecten.—Clarke, J. M., 2; Girty, G. H., 2; Hind, W., 2 & 3; Sommer, K.
Avon R. (Scotland).—Gibb, A. W.
— R. of Bristol & Warwickshire.—Ellis, T. S.
Avonian, British Is.—Vaughan, A.
—, Co. Clare.—Douglas, J. A.
Axes, changes of position of the earth's.—Cortese, E.
—, crystalline.—Wright, F. E.
Axinus.—Greenwall, K. A., 2.
Axophyllidæ, Palæozoic.—Grosch, P.
Aynho (Northants).—Barrow, G.
Ayrshire (Scotland).—Boyle, R.; Gregory, J. W.; Macnair, P., 2; Mort, F., 2; Reed, F. R. C., 5; Smith, J., 1 & 2; Tyrrell, G. W., 1 & 4.
Azores (Atlantic).—Chaves, F. A.
Bachant (Ardennes).—Carpentier, A., 8.
Bacharach (Rh.-Pruss.).—Fenten, J.
Bachergebirge (Styria).—Kern, F.
Bactrites.—Girty, G. H., 3.
Bactrocrinus.—Reed, F. R. C.
Badda (Eritrea).—Salmojrighi, F.
Baden (Germany).—Andrea, A.; Becker, E., 1 & 2; Bonarelli, G.; Ebler, E.; Freudenberg, W., 5; Klemmen, G., 1 & 2; Ratzel, A.; Salomon, W., 2; Seebach, H.; Stark, P.; Strasser, R.; Wilckens, O., 4 & 6.
Bagnacavallo (Emilia).—Taramelli, T.

- Bagnères de Luchou (Pyrenees).—Moareu, C.
- Bahia (Brazil).—Brammer, J. C., 2.
- Baiera.—Dun, W. S.; Seward, A. C.
- Bairdia.—Girty, G. H., 2.
- Bairnsdale (Vict.).—Dunn, E. J., 15 & 17.
- Bajom, Upper (Transylvania).—Roth von Telegd, L.
- Baku (Caspian).—Dalton, L. V.; Golubiatnikov, D. V., 1 & 2; Rakusin, M. A., 1 & 2.
- Balakhani (Baku).—Rakusin, M. A., 2.
- Balaton, Lake (Hungary).—Lærenthey, I. von; Vitális, S.
- Balearic Is. (Mediterranean).—Bates, D. M. A.; Torquist, A., 7.
- Balfour (Fife).—Wilson, J. S. G.
- Balin (Galicia).—Wójcik, K.
- Balkans (Turkey).—Andrimont, R. d'; Cvijić, J.; Toula, F., 2.
- Balkhash, Lake (Siberia).—Stepanov, I.
- Ballarat (Vict.).—Baragwanath, W.; Dunn, E. J., 5.
- Ballino (Tyrol).—Trenner, G. B., 2.
- Baltic amber.—Cockerell, T. D. A., 4 & 5; Meunier, F.
- Baltic Provinces (Russia).—Doss, B.; Tornquist, A.
- Baluchistan (India).—Pilgrim, G. E.
- Bambuk (W. Afr.).—Lemoine, P., 14.
- Banatite, Hungary.—Rozloznsnik, P., 2.
- Banbury (Oxon).—Douglas, J. A., 2.
- Banded gneiss, Finland.—Sederholm, J. J., 2.
- Banffshire (Scotland).—Gibb, A. W.
- Banquet (Transvaal).—Becker, G. F., 2; Gregory, J. W., 4; Hellmann, F.; Young, R. B.
- Bann Valley (Ireland).—Jackson, J. W., 3.
- Bannockburn (Stirling).—Martin, N.
- Baoulé (French Guinea).—Combes, P., *fl.*, 2.
- Baoussé Roussé cave, near Mentone.—Outes, F. F.
- Barberton (Transvaal).—Hall, A. L., 4.
- Barcelona (Spain).—Felix, J., 2; Sola, J. C.
- Barcelonne (Drôme).—Sayu, G.
- Barden Fell (Yorks).—Gilligan, A.
- Bari (Apulia).—Casardi, F.
- 'Barisal gnss.'—Cleland, J. B.; Lotti, B., 2.
- Barkhausen a. d. Hunte (Hanover).—Lohmann, W.
- Barneire, Puy de (Auvergne).—Lacroix, A., 11.
- Barrambie (W. Austral.).—Gibson, C. G., 2.
- Barred valleys, Swiss.—Lugeon, M.
- Barremian, Algeria.—Blayac, J., 2.
- Barthead (Renfrew).—Tyrrell, G. W., 2.
- Bartonian, Rumania.—Botez, G.
- Barwick-in-Elmet (Yorks).—Hawkesworth, E.
- Baryerinus & Batocrinus*.—Wood, E.
- Barytes, Auvergne.—Vigier, A., 2.
- , Derbyshire.—Terry, H. L.
- , Italy.—Colomba, L., 4; Viola, C.
- , Missouri.—Buckley, E. R.
- , Sajóháza.—Zimányi, K.
- , Sardinia.—Lüacio, G.
- , Tyrol.—Trenner, G. B.
- , Westphalia.—Buttgenbach, H., 4.
- Barytocalcite.—Krentz, S., 2.
- Basalt, Aveyron.—Lévy, Alb. M.
- , Bohemia.—Irgang, G.
- , column, formation of.—Dauzère, C.
- , Erythraea.—Manasse, E.
- , Greenland.—Bøggild, O. B.
- , Hesse.—Becker, E.; Schindernhette, G.
- , Kharga Oasis.—Beadnell, H. J. L.
- , Madagascar.—Bourdariat, A.
- , magnetism of.—Allen, G. E.
- , Moravia.—Juettner, K.
- , New South Wales.—Jensen, H. I., 3 & 4.
- , Sardinia.—Serra, A.
- , Siebengebirge (Rh. - Pruss.).—Bleibtren, K.
- , Silesia.—Jahn, J. J.; Juettner, K.
- , Styria.—Leitmeier, H., 2; Preiss, C.
- , Victoria.—Dunn, E. J., 10.
- , Vosges.—Kallhardt, F.
- Basel (Switzerland).—Eisenmenger, G.
- Bassano (Prov. Rome).—Sabatini, V.
- Basses-Pyrénées (France).—Degrange-Touzin, A.; Martel, E. A., 2.
- Bastogne (Ardennes).—Cornet, J., 11; Lohest, M., 9; Prinz, W., 2.
- Batak (Sumatra).—Stegmann, H.
- Batanus*.—Dall, W. H., 2.
- Batcombe (Somerset).—Richardson, L., 4.
- Bathurst (N.S.W.).—Harper, L. F.
- Bathysteris*.—Kidston, R., 2.
- Bathystoma*.—Dall, W. H., 2.
- Batolites*.—Brandes, T.
- Batrina (Hungary).—Kadić, O.
- BAUERMAN, H., *Obit.*—Anon., 1.
- Bauria*.—Broom, R., 2.
- Bauxite, composition of.—Arsandaux, H., 2; Hæmig, A.
- , Hungary & Italy.—Lotti, B., 5.
- Bavai Valley (Hainault).—Cornet, J.
- Bavaria.—Ammon, L. von; Ampferer, O., 2; Brauns, R., 4; Duerrfeld, V., 1 & 5; Egger, J. G.; Frentzel, A.; Regelmann, C., 1 & 2; Reuter, L.; Rothpletz, A.; Schlosser, M., 2; Schuster, M.; Schwager, A.; Walther, K.; *see also* Rhenish Bavaria, &c.
- Bawdwin (N. Shan States).—La Touche, T. D.
- Beaches.—*See* Raised beach.
- Beath, Hill of (Fife).—Wilson, J. S. G., 2.
- Beaulieu (Mayenne).—Bézier, T.
- Beaune (Piedmont).—Colomba, L., 3.

- Beavers, Quaternary.—Linstow, O. von.
Bedfordshire.—Evans, Sir J.; Rastall,
R. H.; Woodward, H. B., 5.
Beechworth (Vict.).—Dunn, E. J., 13.
Bees, Prussian amber containing.—
Cockerell, T. D. A., 5.
Behring Sea (Arctic).—Kindle, E. M., 3.
Beienrode (Germany).—Busz, K.
Belemnites, Cretaceous.—Leriche, M.,
14; Wanderer, K., 2; Weigner, S.
—, Jurassic.—Crick, G. C.
Belennites.—Benecke, E. W.; Bøhm,
G.; Borisyak, A., 3.
Belfast (Ireland).—Wright, J.
Belgian Congo (Afr.).—Buttenbach, H.,
5 & 6.
Belgium, cave crystals.—Prinz, W.
—, Dutch coalfields &.—Gracht, W.
A. J. M. Van W. van der.
—, Geological Survey.—Mourlon, M.
—, minerals.—Doyen, A.
—, Oligocene.—Frapont, C.
—, pebbles in coal.—Cosyng, G.
—, Plio-Pleistocene.—Briquet, A., 1
& 8.
—, *See also* Carboniferous, Coal, &c.
Bellary (Madras Pres.).—Ahlers, R. O.
Belledonne, Pic de (Dauphiné).—Ter-
mier, P.
Bellerophon.—Girty, G. H., 2; Reed, F.
R. C.; Sommer, K.
Belleu (Aisne).—Fritel, P. H.
Belloy-sur-Somme (France).—Commont,
V., 2.
Belonesite.—Zambonini, F.
Belvedere gravels, Vienna.—Bach, F.
Belvoir (Leicester).—Preston, H.
Belzungia.—Morellet, L.
Bena (Sardinia).—Serra, A., 3.
Benavente (Portugal).—Hobson, B., 2.
Bendoc (Vict.).—Dunn, E. J., 15 & 18.
Benvenuto (Campania).—Matarazzi, G.
Beni Snassen massif (Morocco).—Gen-
til, L., 5.
Benitoite.—Baumhauer, H.; Hlawatsch,
C.
Benolong (N.S.W.).—Dun, W. S.
Bensen (Bohemia).—Gergey, R., 2.
Benzoïn.—Menzel, H.
Béraudière (St. Etienne).—Annett, H.
C.
Bergen (Norway).—Kolderup, C. F., 3.
Bergen Hill (N.J.).—Ford, W. E., 2.
Berkshire.—Treacher, L., 2; White, H.
J. O.
Berlin (Prussia).—Keilhack, K., 3;
Sønderop, F.; Werth, E., 2.
Berne (Switzerland).—Beck, P.; Gerber,
E.; Helgers, J. H. E.; Lugeon, M.,
2.
Bernese Alps.—Bonard, A.; Helgers, E.;
Jaccard, F.; Reussinger, G.
Bernese Jura.—Buxtorf, A.
Beresti (Rumania).—Nicolau, T.
Berriasian, Ardèche.—Toucas, A.
BERTRAND, M.—Jaccard, F., 2; Ter-
mier, P., 4; Wilckens, O., 2.
Berwyns (N. Wales).—Lomas, J.
Beryl.—Michalias, R.; Panebianco, H.
—, chemical composition of.—Ver-
nadski, V. I.
—, German S.W. Africa.—Thiene, H.
Besano (Lombardy).—Reposi, E.
Bethanga (Vict.).—Dunn, E. J., 20.
Béthune (Pas-de-Calais).—Carpentier,
A., 4 & 6; Dollé, L., 2; Leriche, M.
Betula.—Engelhardt, H.; Menzel, P.
Betzingen (Würt.).—Burkhardtmaier,
H.
Beyrichia.—Chapman, F., 4; Første,
A. F.
Beyrichiidae, Palæozoic.—Ulrich, E. O.
Biarritz (Basse-Pyrénées).—Boussac, J.,
3; Degrange-Touzin, A., 5.
Bibi Eibat (Baku).—Dalton, L. V.;
Rakusin, M. A.
Bicester (Oxon).—Barrow, G.
Biebrich a. Rhein (Nassau).—Neuen-
haus, H.
Bielefeld (Hanover).—Wetzel, W.
Biloculina.—Pavlovič, P. S., 2.
Bingen (Rh.-Pruss.).—Mordziol, C., 3.
Bingham (Utah).—Rogers, A. F.
Binn Valley (Valais).—Desbuissons, L.
Biradiolites.—Parona, C. F., 2 & 4.
Birds, fossil.—Gaillard, C.; Miller, L.
H.; Pittet, L.; Pycraft, W. P., 2.
Biscay, Bay of.—Welsch, J., 2.
'Bise, La' (Hérault).—Chevallier, —.
Bishop's Stortford (Herts).—Ewart, J.
C.
Bisley (Gloucester).—Richardson, L.,
12.
Bismuth, occurrence & uses.—Wilson,
E. B., 2.
Bison.—McClung, C. E., 2.
Bis-tag Mts. (Yenisei Gov.).—Jachevski,
L., 2.
Bithynic Peninsula (Asia Minor).—
Kessier, P.
Bitsch (Lorraine).—Schumacher, E.
Bitumen, Abruzzo.—Giattini, G. B.
Bituminous schists, Besano.—Reposi,
E.
Black Forest (Germany).—Ratzel, A.;
Wilckens, O., 4 & 6.
Black Range (W. Austral.).—Gibson,
C. G.
Black Sea.—Toula, F.
Blackwood (S. Austral.).—Basedow, H.,
3.
Blagodät (Urals).—Lœwinson-Lessing,
F., 2.
'Blaseneck' gneiss (Styria).—Redlich,
K. A., 3.
Blende, Crimea.—Popov, S. P.
Blocks, erratic, Hornflu. — Guenther,
S., 2; Reussinger, G.
'Blowing' wells.—Long, S. H.; Thomp-
son, B.
Bludenz (Vorarlberg).—Ampferer, O.
Blue Nile (Atrica).—Duchesne-Fournet,
J.
Bluff deposits, Mississippi R.—Squire,
G. H.
Bodva (Hungary).—Vitalis, S., 2.

- BÆCKH von Nagysúr, J., *Obit.*—Roth von Telegd, L., 4.
 Bogs, Canada.—Nystrom, E.
 —, England & Scotland.—Lewis, F. J.
 —, Ireland.—Ryan, H.
 —, origin of.—Haglund, E.
 —, Prussia.—Stremme, H., 3.
 Bogoslovsk (Perm).—Shockley, W. H.
 Bohemia.—Bergt, W., 1-4; Cornu, F.; Credner, H.; Frech, F., 2; Fritsch, A.; Gagel, C., 5; Gorgey, R., 2; Hinterlechner, K.; Irgang, G.; Menzel, P., 2; Petrascheck, W., 1-4; Reininger, H.; Ržehák, A., 3; Stremme, H., 2; Želízko, J. V.
 Bois de Colfontaine (Hainault).—Cornet, J., 6.
 Bojábirtz (Hungary).—Kadić, O.
 Bokhara (Turkestan).—Boriszyak, A., 5; Bromikov, M. M.; Edelstein, I., 2; Kler, M. O.
 Boko-Songo (French Congo).—Brien, V.
 Bolderian, Belgium.—Schmitz, G.
 Bolivia (S. Am.).—Endler, A.; Rumbold, W. R.
 Bologna-Florence, new railway (Italy).—Baldacci, L.; Sacco, F., 3.
 'Bolson' region, Arizona.—Tolman, C. F.
 Bon, Cape (Tunis).—Alleinand-Martin, A.; Savornin, J., 3.
 Bonang (Vict.).—Dunn, E. J., 18.
 Bonar, Mt. (N.Z.).—Morgan, P. G.
 Bonarka (Galicia).—Morozewicz, J.
 Boncelles (Liège).—Destinez, P.; Velge, G.
 Boncourt (Oise).—Morellet, L.
 Bone-breccia, Serbaro.—Del Campana, D.
 —caves, Lancashire.—Jackson, J. W., 2.
 —earth, Switzerland.—Fleury, E.
 Bonegilla (Vict.).—Dunn, E. J., 20.
 Bonn (Rh.-Pruss.).—Fenten, J.
 Bonniévale (W. Austral.).—Gibson, C. G.
 Book Cliffs (Colo. & Utah).—Richardson, G. B.
 Boom (Belgium).—Leriche, M., 3.
Boötherium.—Gidley, J. W., 2.
 Bor (Servia).—Lazarević, M.
 Borate deposits, Atacama Desert. — Reichert, F.
 —, California. — Wainwright, W. B.
 Bordeaux (Gironde).—Degrange-Touzin, A., 2; Dollfus, G. F.
 Bordelais (France).—Dollfus, G. F.
 Borings, Alsace.—Færster, B., 2.
 —, apparatus for soft cores.—Krusch, P., 2.
 —, Bedfordshire.—Woodward, H. B., 5.
 —, Denmark.—Grønwall, K. A.; Johansen, A. C.
 —, Fifeshire.—Anderson, E. M.; Wilson, J. S. G.
 Borings, Germany.—Grupe, G., 1 & 2; Keilhack, K., 2; Krusch, P., 3; Steuer, A.
 —, Grèce-Barleür.—Fourmarier, P.
 —, Hainault.—Cornet, J., 4 & 7.
 —, Heilsberg.—Krause, P. G.
 —, Holland, &c.—Gracht, W. A. J. M. Van W. van der; Tesch, P.
 —, Kent.—Barrois, C. 2 & 7; Burr, M.; Whitaker, W., 2 & 3.
 —, Lancashire.—Travis, W. G.
 —, Longwy.—Anon., 38.
 —, Montecatini.—Stefani, C. de.
 —, Pilisborosjenö.—Schréter, Z.
 —, Rouen.—Anon., 39.
 —, Russia. — Langwagen, J. V.; Sinzov, I., 1, 3, & 6.
 —, Silesia. — Kukuk, —; Michael, R.
 —, Stowell.—Pringle, J.
 —, temperatures of deep.—Anderson, E. M.
 —, Victoria.—See VICTORIA.
 —, Yorkshire.—Durnford, H. St. J.; Hawkesworth, E.
 Borneo (E. I.).—Evans, J. W., 8; Hæfer, H.; Provale, I.
 Bornholm I. (Baltic).—Malling, C.; Stolley, E., 2.
 Borolanite, Ross-shire, &c.—Shand, S. J.; Smith, W. C.
 Borouchtiza (Turkey).—Andrimont, R. d'.
 Borsod (Hungary).—Vadász, M. E., 3.
 Bösenstein Alps (Styria).—Hauptmann, L.
 Bosnia.—Katzer, F., 1 & 2.
 Bosse, La (Loir-et-Cher).—Viré, A., 2.
 Botany, fossil, 1901-1906.—Zeiller, R., 2.
 Bothnia, Gulf of.—Leiviskä, I., 1-3.
Bothrodendron.—Renier, A., 2 & 6; Seward, A. C., 2; Zalesski, M. D.
Botryopteris.—Kidston, R.
 Botzen (Tyrol).—Wolff, F. von.
 Bouches-du-Rhône (Provence).—Cotte, C.; Joleaud, L.
 Boulder, chipped, Tasmania.—Nøtling, F., 4.
 Boulder Co. (Colo.).—George, R. D.
 Boulder-decomposition, water &.—Lane, A. C., 2.
 Boulders, Cambridge drift.—Rastall, R. H., 2.
 —, Comiston.—Campbell, A. C.
 —, Durham & Northumberland. — Woolacott, D., 5.
 —, erratic.—Dwerryhouse, A. R., 6.
 —, Gosau Beds.—Ampferer, O., 4.
 —, torrents &.—Rutot, A., 3.
 —. See also Exotic boulders, &c.
 Boulonnais (France).—Gosselet, J., 3; Maillieux, E., 7; Sauvage, H. E.
 Bourboule, La (Puy-de-Dôme).—Nicolas, A.
 Bourg (Charente).—Pontier, G., 3.
 Bourg-d'Oisans, (Dauphiné).—Termier, P., 2.

- Bourg des Comptes (Britanny).—Matte, H.
- Bouvigny (Nord).—Gosselet, J., 2.
- Bovey Basin (Devon).—Jukes-Browne, A. J., 2.
- Brabant (Belgium).—Cosyns, G., 3 ; Malaise, C., 1 & 3 ; Mourlon, M., 5 ; Rutot, A., 7.
- Brachiopoda, attachment of.—Yakovlev, N.
- , Cambrian.—Moberg, J. C.
- , Carboniferous.—Douglas, J. A. ; Girty, G. H., 1-3 ; Grøber, P. ; Hyde, J. E. ; Mansuy, H., 2 ; Rowley, R. R. ; Sommer, K. ; Watson, D. M. S., 5 ; Wanderer, K., 2.
- , Devonian.—Bassler, R. S., 2 ; Clarke, J. M., 2 ; Holzapfel, E., 2 ; Maillieux, E., 4, 7, 8, & 10 ; Reed, F. R. C. ; Siemiradzki, J. ; Vinassa de Regny, P. E., 4 ; Williams, H. S. ; Yakovlev, N., 3.
- , Jurassic.—Benecke, E. W. ; Dal Piaz, G. ; Krause, P. G. ; Tæger, H. ; Trauth, F.
- , Ordovician.—Reed, F. R. C., 2.
- , Permo-Carboniferous.—Etheridge, R., *fl.*, 4.
- , Rhaetic.—Healey, M.
- , Silurian.—Bassler, R. S., 2 ; Førster, A. F. ; Mansuy, H., 2 ; Stepanov, P. ; Vinassa de Regny, P. E., 4 ; Yakovlev, N.
- , Tertiary.—Arnold, R. ; Dautzenberg, P.
- , Triassic.—Diener, C., 3 ; Kittl, E. ; Wittenburg, P. von, 4.
- Brachyphyllum*.—Salfeld, H., 2.
- Brachytrema*.—Remeš, M.
- 'Brack' (alkali), Cape Colony soils.—Juritz, C. F.
- Bracklesham Beds (I. of Wight).—Bousac, J.
- Bracquegnies (Hainault).—Schoep, A.
- Brain-case, *Triceratops*, &c.—Hay, O. P., 3.
- Braintree (Essex).—Holmes, T. V.
- BRANCA'S theories on vulcanism.—Lenk, H.
- Branchiolambus*.—Rathbun, M. J.
- Brandenburg (Prussia).—Menzel, P.
- Brasenia*.—Engelhardt, H. ; Stoller, J.
- Brasted (Kent).—Treacher, L., 3.
- Braunau (Bohemia).—Berg, G.
- Bray, Pays de (France).—Lemoine, P., 2 & 3.
- Brazil (S. Am.).—Atterberg, A. ; Branner, J. C., 2 ; Bross, H. ; Goldschmidt, V., 2 ; Grosspietsch, O. ; Hussak, Eug. ; Krone, R. ; Lisboa, M. A. R. ; Ludwig, E. ; Pearson, H. ; Schuster, K. ; Slavik, F. ; Woodward, H. ; Zimányi, K., 3 ; & BRAZIL.
- Brea, Rancho la (Cal.).—Miller, L. H.
- Breccias, Bernese Alps.—Jaccard, F.
- , Carboniferous.—Barrois, C., 4 ; Bertrand, P., 4 ; Carpentier, A., 8.
- , Chablais.—Jaccard, F., 2.
- Breccias, Peloponnesus.—Négris, P., 5.
- Brecknockshire.—Richardson, L., 2.
- Bregenzer Wald (Vorarlberg).—Wepfer, E.
- Brendon Hills (Somerset).—Jordan, R. ; Perceval, S. G. ; Smith, H. B.
- Brenta canal (Italy).—Del Campana, D., 2.
- Brewster District (N.Y.).—Kæberlin, F. R.
- BREZINA, A., *Obit.*—Hlawatsch, C., 2.
- Brianza (Lombardy).—Prever, P. L.
- Bridger Basin (Wyo.).—Matthew, W. D.
- Brighton (Sussex).—Martin, E. A. Sherborn, C. D.
- Brisopsis*.—Lambert, J., 3.
- Bristol coalfield.—Bolton, H.
- Museum & Art Gallery. — See BRISTOL.
- pre-Devonian Rocks.—Reynolds, S. H., 2.
- Britanny (France).—Barrois, C., 5, 6, & 10 ; Bézier, T., 2 ; Matte, H. ; Michel, L. ; Kerforne, F., 1 & 2 ; Suess, E., 2.
- British Antarctic Expeditions.—Gregory, J. W., 7 ; Shackleton, E. H.
- British Association Adv. Sci. 1909, Winnipeg. — ANON., 36 ; BRITISH ASSOC., 2-4 ; Woodward, A. S., 3.
- , Corresponding Societies. — Rudler, F. W.
- British Colonial iron-ores.—Evans, J. W., 8.
- British Columbia (Canada).—Bowles, O. ; Dowling, D. B. ; Penhallow, D. P. ; & BRITISH COLUMBIA, 1-4.
- British Guiana.—Bayley, G. D. ; Harrison, J. B.
- British Isles, Avonian.—Vaughan, A.
- , Carboniferous sea &. — Johns, C., 2.
- , earthquakes in, 1901-1907.—Davison, C.
- , erratic blocks. — Dwerryhouse, A. R., 6.
- , Glacial Drifts.—Bonney, T. G.
- , Quaternary fauna. — Reynolds, S. H.
- , See also GREAT BRITAIN, &c.
- British East Africa. — Dacqué, E. ; Ridgeway, W. ; Roccati, A.
- British Museum (Natural History).—Bather, F. A., 3 ; Spencer, L. J.
- Britonferry (Glamorgan). — Bauerman, H.
- Britstown (Cape Colony).—Du Toit, A. L. ; Rogers, A. W., 4.
- Brixen (Tyrol).—Hradil, G.
- Brochantite, California.—Eakle, A. S.
- Brocken (Harz).—Erdmannsdörfer, O. H., 2.
- Brodiek (Arran).—Reoch, J. W.
- Broken Hill (N.S.W.).—Kraus, E. H. ; Mingaye, J. C. H.
- Broken Hill (Rhodesia).—Buttgenbach, H., 2 & 7.

- BRONN, H. G.—See Nægele, E.
 Brookite (Devon).—Thomas, H. H.
 Brosso (Piedmont).—Colomba, L., 4.
 Brosteni (Rumania).—Butureanu, V. C., 1 & 2.
 BROUGH, B. H., *Obit.*—Anon., 2; Sollas, W. J.
 Broughton-in-Craven (Yorks.).—Wilmore, A.
 Brown coal, Bohemia.—Meuzel, P., 2; Stremme, H., 2.
 ———, Germany.—Döring, T.; Jentzsch, A.; Meuzel, P.; Pohlig, H., 3; Russwurm, P.; Stremme, H., 2 & 4.
 Brown Jura, Franconian Alps.—Reuter, L.
 Bruay (Nord).—Barrois, C., 3; Bertrand, P., 1 & 3.
 Bruchberg (Harz).—Erdmannsdorffer, O. H.
 Brugnatellite, Lombardy.—Artini, E.
 Brünn (Moravia).—Rzehak, A., 1 & 2.
 Brunswick (Germany).—Köenen, A. von; Koken, E., 3.
 Brussels (Belgium).—Mourlon, M., 3 & 4.
 Bruxellien, Waterloo.—Delheid, E.
 Bryozoa, Carboniferous.—Girty, G. H., 2; Rowley, R. R.; Sommer, K.
 ———, Cretaceous.—Brydone, R. M., 2; Filhiozat, M., 3; Gregory, J. W., 5.
 ———, Devonian.—Reed, F. R. C.
 ———, geological distribution of.—Canu, F., 3.
 ———, Jurassic.—Bourgeat, —.
 ———, Tertiary.—Canu, F., 1-4; Tæger, H.; Toula, F., 4; Trabucco, G.
Bubalis.—Broom, R., 3.
 Bucharest (Rumania).—Roth von Telegd, L., 2.
 Buchweiler (Alsace).—Førster, B.
 Buckinghamshire.—Chatwin, C. P., 1 & 2; Davies, A. M., 1 & 2.
 Budapest (Hungary).—Aradi, V., *fil.*; Pálffy, M. von; Timkó, E.
 Budweis Heath (Bohemia).—Reininger, H.
 Buenos Aires (Argent.).—Ameghino, F., 1-7; Ihering, H. von.
 Buffalo (Vict.).—Kenny, J. P. L., 2.
Bugthierium.—Pilgrim, G. E.
 Building construction, earthquakes &.—Sacco, F., 2.
 ——— materials, Portland (Or.).—Dartou, N. H., 2.
 ——— stones, British.—Greenwell, A.
 ———, New Jersey.—Lewis, J. V.
 ———, Sweden.—Hedström, H.
 ———, Umbria.—Principi, P., 3.
 Builth (Brecon).—Richardson, L., 2.
 Bükk Mts. (Hungary).—Vadász, M. E., 3.
 Bulgaria.—Allahverdijew, D.
Bulimorphia.—Girty, G. H., 2.
Bulla.—Toula, F., 4.
 Bulza Mts. (Hungary).—Mauritz, B.
 Bunter Conglomerate, Somerset.—Martin, E. C.
 ——— pebble-beds, Cheshire.—Travis, C. B.
 ——— Sandstone, Saxony.—Dammer, B., 2.
 BURKHARDT, R., *Obit.*—Imhof, G.
 Burghclere (Hants).—White, H. J. O.
 Burma (Asia).—Brown, J. C.; Cotter, G. de P.; Healey, M.; Pascoe, E. H.; Vredenburg, E.
Burmesia.—Healey, M.
 Burning cliff, Lyme Regis.—Anon., 29; Jukes-Browne, A. J.
 Burton Point (Cheshire).—Travis, C. B.
 Bushveld (Transvaal).—Hall, A. L., 2.
Buskoporia.—Reed, F. R. C.
Buxus.—Engelhardt, H.
 Caceres (Spain).—Choffat, P., 5.
 Cadaesti (Moldavia).—Sevastos, R.
 Caddo Mts. (Ark.).—Purdue, A. H.
 Cadiz (Spain).—Bonarelli, G., 2.
Cadurcotherium.—Roman, F.
 Cæsium in feldspars.—Vernadski, V. I., 2.
 Caithness (Scotland).—Carruthers, R. G., 2; Tait, D.
 Cajamarca (Peru).—Bois Lukis, E. du.
 Calabria (Italy).—Anon., 30; Agamenone, G.; Angot, A.; Cirera, R.; Galitzin, Prince B., 2 & 3; Geikie, J.; Legrange, E.; Lohest, M., 4; Oldham, R. D., 2 & 3; Platania, G.; Ricciardi, L., 3; Sacco, F., 11.
 Calais district (France).—Leprince-Ringuet, F.; Leriche, M., 1 & 4.
 Calamine, New Mexico.—Ford W. E., 4.
Calamites & *Calamostachys*.—Zalasski, M. D.
 Calc-silicate limestone, Donegal.—Zealley, A. E. V.
 ——— rock of Moravian Schönberg.—Kretschmer, F.
 Calcareous beds, Pretoria Series.—Hall, A. L., 2.
 ——— concretions, origin of.—Stopes, M. C., 3.
 ——— grains, dune-packing &.—Johnsen, A., 4.
Calceola.—Mansuy, H., 2; Reed, F. R. C.
 Calciferous Sandstone, Fife.—Gordon, W. T., 2.
 Calcite, Auvergne.—Vigier, A., 2.
 ——— crystals.—Schaller, W. T.
 ———, Hesse.—Bamueller, C.
 ———, Hungary.—Franzenau, A.
 ———, New Jersey.—Whitlock, H. P.
 ——— pseudomorphs.—Dittler, E., 2.
 ———, Silesia.—Rimann, E.
 Calcium carbonate, Pacific Ocean.—Murray, J.
 ——— sulphate crystals.—Sommerfeldt, E., 2.
 ——— sulphide, meteoric.—Tassin, W.
 Calcutta (Bengal).—Annandale, N.

- Caldiero (Venetia).—Nicolis, E. de.
 Caledonia reef, Warrandyte (Vict.).—Howitt, A. M., 2.
 Caledonite, California.—Eakle, A. S.
Calianassa.—Krause, P. G.; Legendre, R.
 California (U.S.A.).—Arnold, R., 1, 2, & 4-6; Bradley, W. M., 2; Dall, W. H., 2; Diller, J. S., 2; Eakle, A. S.; Ford, W. E.; Gilbert, G. K.; Hess, F. L.; Kalb, C. de; Leriche, M., 12; Mendenhall, W. C., 1-5; Miller, L. H.; Oldham, R. D.; Pack, R. W.; Rathbun, M. J.; Smith, J. P.; Wainwright, W. B.; Weaver, C. E., 1 & 2; *see also* CALIFORNIA.
 Calisio, Mte. (Tyrol).—Trenner, G. B.
 Callenelle (Hainault).—Cornet, J., 2.
Calliostoma.—Dall, W. H., 2.
Callipteridium.—Zalieski, M. D.
Callista & *Callocardia*.—Toula, F., 4.
Callithamnopsis.—Ruedemann, R., 2.
Callitris.—Engelhardt, H.
Callograptus.—Brassler, R. S. [Bassler].
 Calumet Conglomerate, Michigan.—Lane, A. C., 2.
Calyptograptus.—Brassler, R. S.
Calymene.—Mansuy, H., 2.
 Camaret (Britanny).—Barrois, C., 10.
Camarophorella.—Hyde, J. E.
Camarophoria.—Girty, G. H., 2; Reed, F. R. C.
 Cambodge (Toungking).—Mansuy, H.
 Cambrian, America (N.).—Cushing, H. P.; Darton, N. H.; Ells, R. W.; Walcott, C. D.; Willis, B.
 —, Belgium. — Fourmarier, P., 7;
 —, Fraipont, C., 2; Malaise, C., 3.
 —, Bornholm.—Stolley, E.
 —, Poland.—Guerich, G.
 —, Shropshire.—Cobbald, E. S.
 —, South Australia.—Basedow, H., 2 & 3; Howchin, W., 2; Taylor, T. G.
 —, Sweden.—Gavelin, A.; Moberg, J. C.
 Camen (Westphalia).—Buttgenbach, H., 4.
 Cameron Bridge (Fife).—Anderson, E. M.
 Cameroons (W. Afr.).—Lemoine, P., 9.
 Camerton (Somerset).—Richardson, L., 9; Winwood, H. H.
 Cambridgeshire.—Marr, J. E.; Rastall, R. H., 1 & 2.
 Cambro-Ordovician limestones, Appalachian Valley.—Stose, G. W.
 Canonica (Lombardy).—Baltzer, A.
 Campania (Italy).—Matarazzi, G.
Campanile.—Oppenheim, P.
 Campbell's Reef (Vict.).—Dunn, E. J.
 Campiglia (Tuscany).—Aloisi, P.
 Campine (Belgian).—Mourlon, M., 5; Rutot, A.; Schmitz, G.
 Campo Morado (Mexico).—Hijar y Haro, L.
Campophyllum.—Douglas, J. A.; Girty, G. H., 2.
Camptonectes.—Girty, G. H., 2.
 Camptonites, Rumania.—Butureanu, V. C.
Camptosaurus.—Gilmore, C. W.
Campylæa.—Kormos, T., 2.
 Canada, Archæan.—Adams, F. D., 1-3; Holmquist, P. J.
 —, coalfields.—Dowling, D. B., 1 & 2.
 —, peat.—Nystrom, E.
 —, mineral districts.—Barrowman, J.; Frechville, W.; Turner, N. L.; Walker, T. L.; CANADA, 1-5; *see also* British Columbia, Ontario, &c.
 Canadian Mining Institute excursion.—Langford, D. B.
 Canary Is. (Atlantic).—Aunon., 41; Boettger, O.; Preiswerk, H.; Schroeter, C.; Schultze, M.
Cancellaria.—Dall, W. H., 2; Toula, F., 4.
 Caney Shale, Oklahoma & *Caneyella*.—Girty, G. H., 3.
 Canidae, Quaternary.—Portis, A., 2; Reynolds, S. H.
 Canigou massif (Pyrences).—Mengel, O., 3.
Caninia.—Douglas, J. A.
Canis.—Reynolds, S. H.
 Cannel-coal nodules, Nord.—Barrois, C., 3; Bertrand, P., 3.
 Canneto (Italy).—Ugolini, R.
 Camstatt Valley (Würt.).—Bräuhäuser, M.
 Canobolas Mts. (N.S.W.).—Etheridge, R., *fil.*; Süßmilch, C. A.
Canobius.—Lambe, L. M., 2.
 Cañon, Colorado.—Davis, W. M., 2.
 Cansiglio (Venetia).—Parona, C. F., 4.
 Cantal massif (France).—Glangaud, P., 4; Gonnard, F., 3.
 Canterbury (N.Z.).—Speight, R.
Cantharidus.—Burckhardt, C., 2.
 Cape Colony (S. Afr.).—Broom, R., 1-7; Du Toit, A. L.; Evans, J. W., 8; Hartog, V.; Juritz, C. F.; Rogers, A. W., 1-5; Rumbold, W. R., 2; Schwarz, E. H. L., 1, 3, 6, & 7; Seeley, H. G.; Stuart, M., 2; Suess, E., 2; Sutton, J. R.; Wagner, P. A., 1 & 2; Woodward, H.; *see also* CAPE COLONY, Dep. Agric.
 Cape Copper Co.'s Works, Britonferry.—Bauerman, H.
 Cape Verd Islands (Atlantic).—Duelter, E., 2.
Capitosaurus.—Broom, R., 2.
 Capri (Bay of Naples).—Bellini, R.
Capulus.—Diener, C., 2.
 Carbonic acid hypothesis & earth's atmosphere.—Arrhenius, S., 2; Dworthyhouse, A. R., 4; Kayser, E., 2; Koken, E., 6.
 Carboniferous, Akmolinsk.—Watson, E.
 —, America (N.).—Girty, G. H., 3 & 4.
 —, Ayrshire.—Smith, J.
 —, Belgium.—Carpentier, A., 8; Cosyns, G.; Renier, A., 2, 6, & 8.

- Carboniferous, Bohemia.—Petrascheck, W., 3.
 —, Commenyry.—Meunier, F., 2 & 3.
 —, Derbyshire.—Arnold-Bemrose, H. H.; Davies, E. H.; Vernon, R. D.
 —, Donetz Basin.—Zaleski, M. D., 1-3.
 —, Fife.—Gordon, W. T., 1 & 2;
 Lee, G. W.; Peach, B. N.
 —, Greece.—Reuz, C., 2 & 4.
 —, Hesse.—Sommer, K.
 —, Kentucky.—Morse, W. C.
 —, New Mexico.—Girty, G. H., 2.
 —, Nord.—Barrois, C., 1, 3, 4, 9, & 11;
 Carpentier, A., 1-3, 5, 7, & 9.
 —, Nottingham.—Vernon, R. D.
 —, Ohio.—Condit, D. D.
 —, Pas-de-Calais.—Bertrand, P., 5;
 Carpentier, A., 4 & 6; Gosselet, J.
 —, Pennsylvania.—Raymond, P. E.;
 White, D.
 —, Peru.—Bois Lukis, E. du.
 —, Pyrenees.—Mengel, O., 2 & 3.
 —, Rhenish Bavaria.—Schuster, J.;
 Semper, M.
 —, Russia.—Girty, G. H., 4; Missuna,
 A.
 —, Scotland.—Dunlop, R.; Hind, W.,
 3; Perviniquière, L., 3.
 —, Tian-Shan Mts.—Gröber, P.
 —, Tyrone.—Bolton, H., 2.
 —, Westphalia.—Krusch, P.
 —, Wyoming.—Darton, N. H.
 —, Yorkshire.—Culpin, H., 1 & 2;
 Dwerryhouse, A. R., 5; Hind, W., 2;
 Hologate, B.; Hughes, T. McK.;
 Vernon, R. D.; Woodward, H., 3.
 — sea, British Is. &.—Johns, C., 2.
 — zones.—Boltou, H.; Gibson, W., 2;
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- Carboniferous Limestone, Belgium.—
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 —, British Is.—Douglas, J. A.;
 Vaughan, A.
 —, Cracow.—Jarosz, J., 1 & 2.
 —, Derbyshire.—Arnold-Bem-
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 —, Midlands coalfields.—Can-
 trill, T. C.
 —, Westphalia.—Bertling, R.
- Carcassonne (Aude).—Carez, A.
- Carcharodon*.—Tæger, H.; Trabucco,
 G.
- Carcinophyllum*.—Douglas, J. A.
- Cardigan-shire.—Jones, O. T.
- Cardinia*.—Trauth, F.
- Cardiocarpus*.—Arber, E. A. N.
- Cardioceras*.—Borisjak, A., 3; Krause,
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- Cardiomorpha*.—Clarke, J. M., 2.
- Cardita*.—Burckhardt, C., 2; Healey,
 M.; Tæger, H.
- Cardium*.—Cerulli-Irelli, S.; Dall, W.
 H., 2; Healey, M.; Tæger, H.;
 Toul, F., 4.
- Cardona (Catalonia).—Kaiser, E., 2.
- Caribbean Region (W.I.).—Guppy, R.
 J. L., 3.
- Carinthia (Austria).—Angelis d'Ossat,
 G. de, 3; Becke, F., 3; Clark, R.
 W.; Dreger, J.; Egenter, P.; Gor-
 tani, M., 1 & 2; Kern, F., 2; Weber,
 L.
- Carnallite.—Boeke, H. E., 2; Busz, K.;
 Johnsen, A., 3.
- Carnarvonshire.—Elles, G. L.; Travis,
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- Carnarvon (Cape Colony).—Du Toit, A.
 L.; Rogers, A. W., 4.
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- Carnic Alps.—Gortani, M., 2; Salomon,
 W.; Spitz, A.; Vinassa de Regny,
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 — fauna, Spiti.—Diener, C., 3.
- Carnites*.—Diener, C., 2 & 3.
- Carnivora, Tertiary.—Matthew, W. D.;
 Petersen, O. A.
- Carnot (Congo).—Lemoine, P., 14.
- Carolina, North (U.S.A.).—Pogue, J.
 E., *fl.*
- Carpalla china-clay pit (Cornwall).—
 Collins, J. H.
- Carpathian foot-hills, Walachia.—Teis-
 seyre, W.
- Mts. (N.).—Loziński, W. von, 2;
 Lugeon, M., 3; Sawicki, L. R. von;
 Uhlig, V.
- , Little (Hungary).—Horu-
 sitzky, H., 2.
- Carpinus*.—Engelhardt, H.; Menzel,
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- Carpolithes*.—Chapman, F., 5; Menzel,
 P.
- Carposphæra*.—Principi, P.
- Carraun Peninsula (Mayo).—Gordon, T.
 E.
- Carrick (Ayr).—Smith, J., 2.
- Carya*.—Engelhardt, H.
- Carydium*.—Clarke, J. M., 2.
- Caryocrinus*.—Wood, E.
- Casper (Wyoming).—Darton, N. H.
- Caspian Sea.—Rakusin, M. A.; Rya-
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- Caspian, Trans-, district (Asia).—Vasi-
 lievski, M. M.
- Cassel (Germany).—Schinderhuetten, G.
- Cassia*.—Tæger, H.
- Cassianella*.—Ahlburg, J.; Diener, C.,
 2; Healey, M.; Toul, F., 5.
- Cassidulus*.—Faas, A.; Lambert, J., 2;
 Slocum, A. W.
- Cassiterite, crystallizing of.—Hunt, A.
 R., 3.
- , Dartmoor.—MacAlister, D. A.
- , New South Wales.—Cotton, L. A.
- , Transvaal.—Kynaston, H., 2.
- Cast in Trias.—Beasley, H. C.
- Castanea*.—Menzel, P.
- Castlepook Cave (Co. Cork).—Ussher,
 R. J.
- Castor*.—Linstow, O. von.
- Catalonia (Spain).—Kaiser, Erich, 2;
 Mengel, O.; Sanchez Lozano, R.;
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- Catamarca (Argent.).—Ducloux, E. H., 4.
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 Caucasus (Russia).—Bogachev, V.; Hæinig, I. A.; Langwazem, J. V.; Œstreich, K., 2; Oswald, F.; Reibinder, B.; Seward, A. C.; Sinzov, I., 2.
 Cauldron-subsidence, Glen Coe.—Clough, C. T., 2.
Caulerpites.—Engelhardt, H.
Cavonopora.—Vinassa de Regny, P. E., 3.
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 ———, Auvergne (freezing).—Garrigou-Lagrange, P.
 ———, Bavaria.—Schlosser, M., 2.
 ———, Belgium.—Mourlon, M., 5; Prinz, W.
 ———, Bouches-du-Rhône. — Cotte, C.
 ———, Dordogne.—Lalanne, G., 2.
 ———, drawings in.—Franchet, L.
 ———, Harz.—Menzel, H., 2.
 ———, Indiana.—Greene, F. C.
 ———, Ireland.—Brodrick, H., 2;
 Hill, C. A., 1 & 2; Ussher, R. J.
 ———, Jura Mts.—Fournier, E.
 ———, Loir-et-Cher.—Viré, A., 2.
 ———, Mentone.—Outes, F. F.
 ———, Moravia.—Křiž, M.
 ———, origin of.—Dwerryhouse, A. R., 2.
 ———, Potchefstroom.—Anderson, W.
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 ———, Saxony.—Wanderer, K.
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 ———, Cretaceous.—Burckhardt, C., 2;
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 ———, Devonian.—Clarke, J. M., 2; Reed, F. R. C.; Sobolev, D.
 ———, Jurassic.—Benecke, E. W.; Bøhm, G.; Borisyak, A., 3; Crick, G. C.; Haas, O.; Marshall, P.; Till, A., 2 & 3; Trauth, F.
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 ———, Triassic.—Diener, C., 3; Frech, F.; Haas, O., 2; Kittl, E.; Mansuy, H., 2; Wittenburg, P. von, 1 & 4.
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Cerithiopsis.—Dall, W. H., 2.
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 ——— deposits, Grosskarben boring (Hesse).—Steuer, A.
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Cervus.—Abel, O., 3; Collett, R.; Dietrich, W.; Grieg, J. A.; Hagemann, G., 2; Pohlig, J. A.
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 Ryabinin, A.; Stroemer, E.
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 ———, Mineral Survey.—See CEYLON, P., 4.
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 ———, England.—Woodward, A. S., 2.
 ———, Hainault.—Cornet, J., 5, 7, & 8.
 ———, Hants.—Pitt, W.
 ———, Hertfordshire.—Kidner, H., 2.
 ———, Kansas.—Wieland, G. R., 2.
 ———, Kent.—Chandler, R. H., 4.
 ———, Lincolnshire.—Burnet, A.
 ———, Paris Basin.—Anon., 40; Dollfus, G. F., 7; Lemoine, P., 8; Welsch, J., 3.
 ———, Pas-de-Calais.—Dollé, L., 2.
 ———, pearls in.—Dibley, G. E.
 ———, Picardy.—Leriche, M., 14.
 ———, E. Prussia.—Deecke, W.; Tornquist, A.
 ———, Surrey.—Chandler, R. H.; Hinde, G. J., 4.
 ———, Texas.—Gordon, C. H.
 ———, Trimmingham.—Brydson, R. M.
 ———, Vendôme.—Filliozat, M., 2 & 3.
 ———, Yorkshire.—Mortimer, J. R.
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 ——— Downs, Kent, &c.—Clinch, G.
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- Chalk Rock, Bucks.—Chatwin, C. P., 1 & 2.
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 —, Hanover.—Wilckens, O.
 —, Vaud radiolarian.—Jaccard, F., 5.
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 Chester (N.Y.).—Hovey, E. O.
 Chewton (Vict.).—Dunn, E. J., 7.
 Chiese Valley (Lombardy).—Baltzer, A.
 Chieti (Abruzzo).—Giattini, G. B., 1 & 2.
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 —, origin of.—Dawkins, W. B.; Gregory, J. W., 11.
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Chione.—Dall, W. H., 2; Toula, F., 4.
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Chisternon.—Hay, O. P., 5.
 Chiřina (Alaska).—Moffit, F. H.
 Chloropal.—Bergeat, A., 2.
 Choco R. (Colombia).—Granger, H. G., 2.
Chœrina.—Pavlović, P. S.
Chœromorus & Chœropotamus.—Stehlin, H. G.
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Chonetes.—Clarke, J. M., 2; Færste, A. F.; Girty, G. H., 2 & 3; Mansuy, H., 2; Reed, F. R. C.; Sommer, K.
 Christiania (Norway).—Goldschmidt, V. M.
 Chrome iron-ore, Quebec.—Cirkel, F.
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Chrysodonus.—Dall, W. H., 2.
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Chrysoephyrs.—Trabucco, G.
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Cicer.—Engelhardt, H.
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 Circular Head (Tasm.).—Stephens, H.
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 — layers in Flysch, Iberg (Schwyz).—Steinmann, G.
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 —, Beresti.—Nicolau, T.
 —, Denmark.—Greenwall, K. A., 2; Rørdam, K.
 — derived from granite.—Dawkins, W. B.
 —, Hudson R.—Newland, D. H.
 —, Iowa.—Beyer, S. W.
 Cleavage, Thuringian slates.—Sieburg, R.
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 Cliff-deposits, Brighton.—Martin, E. A.
Climacograptus.—Hall, T. S.
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- Kayser, E., 2; Kerner, F. von, 3; Koken, E., 1, 5, & 6; Savornin, J., 2; White, D.; Wuest, E., 3.
- Clinton Formation, New York.—Newland, D. H., 3.
- Clintonville (N.Y.).—Smith, B., 2.
- Clonites*.—Diener, C., 3; Kittl, E.; Mansuy, H., 2.
- Cloncurry (Queensland).—Ball, L. C.
- Clyde Valley (Scotland).—Mort, F., 3.
- Coalfield (Lanarkshire).—Ferguson, D.
- Clydonautilus*.—Diener, C., 3.
- Clypeaster*.—Weaver, C. E., 2.
- Coal, Alais Basin.—Fabre, G., 2.
- , Alaska.—Brooks, A. H., 2.
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- , Antarctic.—Shackleton, E. H.
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- , classification of.—Grout, F. F., 2.
- , Colorado.—Campbell, M. R.; Herrick, R. L.; Richardson, G. B.
- , geology of.—Gibson, W.
- , Hungary.—Papp, K. von.
- , India.—Holland, Sir T. H., 2; Stuart, M., 4.
- , Iowa.—Beyer, S. W.
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- , Korea.—Robbins, H. A.
- , Lorraine.—Lemoine, P., 11.
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- , mining, text-books on.—Boulton, W. S.; Gibson, W.
- , Missouri.—Marbut, C. F.
- , Montana.—Campbell, M. R.; Fisher, C. A., 1-3.
- , museum, Lille Exhibition, 1907.
- , New Brunswick.—Ells, R. W.
- , New Mexico & Oregon.—Campbell, M. R.
- , New South Wales.—See NEW SOUTH WALES.
- , Nord.—Barrois, C., 1, 3, 4, 9, & 11.
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- , origin of.—Coste, E.
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- , prospecting for.—Halberstadt, B.
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- , Rossitz.—Suess, F. E., 2.
- , Saxony.—Döring, T.; Hirsch, W.
- , South Wales.—Knowles, Sir L.
- , Tomsk.—Thiess, F.
- , Tongking.—Dupouy, G.
- Coal, Turkey.—Andrimont, R. d'.
- , United States.—Campbell, M. R., 1 & 2.
- , Utah.—Richardson, G. B.
- , Vosges.—Nicklés, R., 2.
- , Washington (U.S.A.).—Tarr, R. S.
- , Wyoming.—Darton, N. H., 3; Veatch, A. C.
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- , Chile.—Russell, A.
- , Clyde Valley.—Ferguson, D.
- , Derbyshire & Notts.—Vernon, R. D.
- , Holland, Belgium, Westphalia, &c.—Gracht, W. A. J. M. Van W. van der; Klein, W. C.
- , Nord.—Barrois, C., 1, 3, 4, 9, & 11; Bertrand, P., 1-4; Carpentier, A., 1-3, 7, 8, & 9; Defline, —; Leriche, M., 4.
- , Oklahoma.—Gould, C. N.
- , Pas-de-Calais.—Leprince-Ringuet, F.
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- , South Wales.—Jordan, H. K.; Strahan, A. H.
- , Staffs & Warwickshire.—Cantrill, T. C.
- , Vendée.—Laromiguière, J.
- , Wemyss.—Gemmell, J.
- , West Virginia.—Stœk, H. H.
- , Westphalia.—Bærting, R.; Kukuk, —.
- , Yorkshire.—Gilligan, A., 2; Hind, W., 2; Rowley, W.; Vernon, R. D.
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- Coal-seams, Nord.—Bertrand, P., 2.
- , igneous dyke in.—Stanley, G. H.
- Coalinga (Cal.).—Arnold, R.
- Coast-erosion, England & Wales.—Ashton, W. A.; Sheppard, T., 2; Whitaker, W.
- , Finland.—Leiviskä, I., 1-3.
- , Vendée.—Welsch, J., 2.
- , formation, German E. Africa.—Kört, W.
- , geology, Peru.—Marsters, V. F.
- , submergence, Narrabeen.—David, T. W. E., 4.
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- Coblenz (Rh.-Pruss.).—Feuten, J.; Mordziol, C., 3.
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- Coe, Glen (Argyll).—Clough, C. T., 2.
- Cœlacanthus*.—Broom, R.; Eastman, C. R.
- Cœlidium*.—Clarke, J. M., 2.
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- Cœlocladia*.—Girty, G. H.
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- Colcolus*.—Clarke, J. M., 2.
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- Colfina Volcano (Mexico).—Sabatini, V., 3.
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- Colmonell (Ayr).—Mort, F., 2.
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- Colonus* Beds, Scania.—Moberg, J. C., 2.
- Colorado (U.S.A.).—Bagg, R. M., *fl.*; Bather, F. A., 3; Berg, G., 2; Campbell, M. R.; Cockerell, T. D. A., 1 & 2; Cross, W.; George, R. D.; Hastings, J. B.; Hayes, C. W.; Headden, W. P., 1 & 2; Henderson, J.; Herrick, R. L., 1 & 2; Loughlin, G. F.; Richardson, G. B.; Rohwer, S. A.; Spurr, J. E., 1, 2, & 4; Van Horn, F. R.; Wickham, H. F.
- Cañon.—Davis, W. M., 2.
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- Colours of minerals.—Dœlter, C., 3.
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- Comiston (Midlothian).—Campbell, A. C.
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- Conches Valley (Valais).—Biermann, C.
- Conchodus*.—Eastman, C. R.
- Concrete materials, Portland (Or.).—Darton, N. H., 2.
- Concretions, origin of calcareous.—Brodrick, H., 3; Renier, A., 4 & 5; Stopes, M. C., 3.
- , pisolitic.—Musy, M.
- , *See also* Cave-pearls, Coal-balls, Nodules, &c.
- Condroz District (Namur).—Fraipont, C.; Van den Broeck, E., 1 & 2.
- Conemaugh Formation, Ohio.—Condit, D. D.
- Congerina*.—Pavlović, P. S.; Tæger, H.
- Conglomerate formed by cementing stream, California.—Arnold, R., 5.
- , Luxemburg Devonian.—Lohest, M., 1 & 6.
- , St. Mary's I.—Woolacott, D., 6.
- , Witwatersrand.—Young, R. B.
- Congo Basin (Africa).—Arsandaux, H., 1 & 3; Brien, V.; Buttzenbach, H., 5 & 6; Cornet, J., 10; Lacroix, A., 14; Lemoine, P., 14; Passau, G.
- Congress, International Geological.—*See* Anon., 31.
- Coniferae, Cretaceous & Tertiary.—Menzel, P., 2.
- Coniopteris*.—Seward, A. C.
- Coniosaurus*.—Nopsca, F. von.
- Conites*.—Chapman, F., 5; Salfeld, H., 2.
- Connecticut (U.S.A.).—Ward, F.; *see also* CONNECTICUT.
- Conocardium*.—Clarke, J. M., 2; Reed, F. R. C.; Sommer, K.
- Constantine (Algeria).—Joly, A., 2; Termier, P., 3.
- Contact-metamorphism.—Clapp, C. H.; Goldschmidt, V. M.; Gourguechon, G.; Hall, A. L., 3; Marshall, P., 4; Sederholm, J. J., 2.
- CONTEJEAN, C., *Obit.*—Welsch, J.
- Contes-les-Pins (Alpes Maritimes).—Grossouvre, A. de, 3.
- Continent, Polynesian Eocene.—Hæfer, H.
- Continents, understructure of.—Köhler, P. O.
- Conus*.—Toula, F., 4.
- Convexity of hill-tops.—Gilbert, G. K., 2.
- Conway (Carnarvon).—Elles, G. L.
- Cook Is. (Pacific).—Marshall, P., 3.
- Coolgardie (W. Austral.).—Gibson, C. G.
- Cooling of silicates.—Fleischer, A.
- Coos Bay (Or.).—Dall, W. H., 2.
- Copper, Alaska & Yukon.—Brooks, A. H., 2; Lincoln, F. C.; McConnell, R. G.; Stutzer, O.
- , Algeria & Tunisia.—Simmersbach, B., 2.
- , Altai Mts.—Hotz, W., 3.
- , Argentina.—Bodenbender, G.
- , Arizona.—Herrick, R. L., 4.
- , Bohemia.—Petrascheck, W., 2.
- , Bosnia.—Katzner, F.
- , Canada.—*See* CANADA, 2.
- , Chile.—*See also* CHILE.
- , Colorado.—Bagg, R. M., *fl.*
- , Fiji Is.—Crook, T., 7.

- Copper, French Congo.—Brien, V.
 —, garnet contact-deposits &.—Keyes, C. R., 3.
 —, German S. W. Africa.—Gagel, C.
 —, Korea.—Sammons, —.
 —, Lake Superior District.—Lane, A. C., 2.
 —, Maine & New Hampshire.—Emmons, W. H.
 —, Mexico.—Keyes, C. R., 3; Ordóñez, E., 1 & 2.
 —, Nevada.—Hayes, C. W.; Larsh, W. S.; Ransome, F. L.
 —, New Brunswick.—Ells, R. W.
 —, New Jersey.—Kuemmel, H., 2.
 —, New Mexico.—Keyes, C. R., 3.
 —, New South Wales.—Carne, J. E.; Jensen, H. I.; *see also* NEW SOUTH WALES.
 —, Nova Scotia.—*See* NOVA SCOTIA.
 —, Pennsylvania.—Wherry, E. T.
 —, Perm.—Knox, H. H.
 —, Peru.—Adams, G. I.; Dueñas, E. I.; Herrera, C.; Jochamovitz, A.
 —, Queensland.—Ball, L. C.
 —, Sardinia.—Serra, A., 3; Stella, A.
 —, Servia.—Lazarević, M.
 —, Shetland Is.—Dron, R. W.
 —, Silesia.—Buttgenbach, H.
 —, Sweden.—Johansson, H. E.
 —, Tongking.—Dupouy, G.
 —, Victoria.—Dunn, E. J., 19 & 20.
 —, W. Australia.—Woodward, H. P., 1 & 2.
 —, Zangezur (Transcaucasia).—Simon, A. I.
 Copper-mining, British.—Terry, H. L., 2.
 — pyrites, etched figures on.—Himmelbauer, A.
 Coral-limestone, Mt. Parnassus.—Renz, C., 6.
 Coral-reefs, formation of.—Andrée, K., 2; Jones, F. W.; Tallgren, B., 1 & 2.
 —, Palæozoic.—Tallgren, B.; Taylor, T. G.
 —, Queensland.—Hedley, C.
 Corals, Cambrian.—Taylor, T. G.
 —, Carboniferous.—Douglas, J. A.; Girty, G. H., 2; Græber, P.; Rowley, R. R.
 —, Cretaceous.—Felix, J.; Wanderer, K., 2.
 —, Devonian.—Bassler, R. S., 2; Etheridge, R., *fil.*; Mansuy, H., 2; Reed, F. R. C.; Vinassa de Regny, P. E., 3 & 4.
 —, in E. Prussian gravel.—Tornquist, A., 4.
 —, Jurassic.—Prever, P. L., 2.
 —, Palæozoic.—Grosch, P.
 —, Rhætic.—Healey, M.
 —, Silurian.—Bassler, R. S., 2; Mansuy, H., 2; Stepanov, P.
 —, structural classification of fossil.—Grosch, P.
 —, Tertiary.—Dollfus, G. F., 3; Felix, J., 2; Oppenheim, P., 2; Tæger, H.
 Corals, Triassic.—Haas, O., 2; Renz, C., 6.
Corax.—Chapman, F., 2.
 Corbières (Aude).—Carez, A.
Corbula.—Tæger, H.; Toula, F., 4.
 Cordierite.—Muegge, O., 2.
 Córdoba, Sierra de (Argentina).—Bodenbender, G.
Corematocladus.—Ruedemann, R., 2.
 Corent plateau (Auvergne).—Charvillat, G.
 Corinth, Gulf of (Greece).—Eginitis, D., 2.
 Cork, Co. (Ireland).—Ussher, R. J.
Cornutanna.—Principi, P., 2.
 Cornwall.—Barnett, A. K.; Barrow, G., 3; Bullen, R. A., 1 & 2; Collins, J. H.; Crook, T., 6; Dewey, H.; Elsdon, J. V., 2; Green, U.; Lamb, C. G.; Langefeld, H.; Maddern, T.; Pearce, R., 2; Redding, C.; Rogers, W.; Spethmann, H., 5; *see also* LONDON, Imp. Intern. Exhib.
 Cornwall (Pa.).—Spencer, A. C.
 Corréze (France).—Boule, M.; Bouysonie, A.; Perquinquière, L.
 Corrygills (Arran).—Reoch, J. W.
 Corryong (Vict.).—Dunn, E. J., 23.
 Corsica.—Castelnau, P.; Maury, E.; Termier, P., 6 & 7.
 CORTI, B., *Obit.*—Silvestri, A.
 Cornudum.—Brauns, R., 2; Chernik, G. P., 3; Lacroix, A., 9; Menzell, F. P.; Nies, A.; Palache, C., 4.
Corylus.—Engelhardt, H.; Menzel, P.
 Cosma (Altenburg).—Dammer, B., 2; Schucht, F., 2.
Cosmoceras.—Benecke, E. W.; Borisyak, A., 3; Krause, P. G.
 Cosmogony, radio-activity &.—Beck, G. F.
 Cossyrite, Pantellaria.—Søllner, J.
 Costilla Co. (Colo.).—Headden, W. P., 2.
Cotoneaster.—Menzel, P.
 Cotteswolds, valleys of.—Davis, W. M., 5.
 Cotunnite, radio-activity of Vesuvian.—Zambonini, F., 3.
 Conthuin (Liège).—Stainier, X.
 Couvin (Namur).—Fourmarier, P., 7; Maillieux, E.
 Couvinian, Belgium.—Gilkinet, A.; Maillieux, E., 4.
 Covellite, Servia.—Lazarević, M.
 Crabs, Cretaceous & Tertiary.—Rathbun, M. J.
 Cracow (Galicia).—Jarosz, J., 1 & 2; Morozewicz, J.; Wójcik, K.
 Craigie Hill (Ayr).—Macnair, P., 2.
Crataegus.—Menzel, P.; Penhallow, D. P.
 Crater, Ngauruhoe.—Marshall, P., 5.
 Craters, formation of.—Linck, G.
 Crazy Mts. (Mont.).—Mansfield, G. R.
 Creechbarrow limestone, Purbeck.—Keeping, H.
 Creep, in mines.—Cornet, J., 3.

- Crespin (Nord).—Carpentier, A., 3.
 Cretaceous, Africa (E.).—Daqué, E.
 —, Algeria.—Blayac, J., 1 & 2; Darreste de la Chavanne, J.
 —, America (N.).—Willis, B.
 —, Argentina.—Burkhardt, C., 2.
 —, Bavaria.—Egger, J. G.
 —, Bohemia.—Menzel, P., 2; Petrascheck, W., 4.
 —, Boulonnais.—Dollé, L., 2; Gosselet, J., 1 & 3; Leriche, M.; Sauvage, H. E.
 —, British.—Woods, H., 2.
 —, British Columbia.—Penhallow, D. P.
 —, Bucks.—Chatwin, C. P., 1 & 2.
 —, Caithness.—Tait, D.
 —, California.—Arnold, R.
 —, Cape Colony.—Schwarz, E. H. L., 7.
 —, Catania.—Scalia, S.
 —, Chile.—Burkhardt, C.
 —, Colorado.—Henderson, J.; Herriek, R. L.
 —, Drôme.—Sayn, G.
 —, Egypt.—Newton, R. B.
 —, flints, Hohe Venn.—Renier, A.; Rutot, A., 5.
 —, Germany (N.).—Broili, F., 2; Deecke, W.; Gagel, C., 2; Kranse, P. G.; Richter, P. B.; Stolley, E.; Wollenmann, A.
 —, Greece.—Négris, P., 6.
 —, Hungary.—Tager, H.
 —, India.—Woodward, A. S.
 —, Italy.—Parona, C. F., 1, 2, & 4.
 —, Jura.—Jeannot, A., 2.
 —, Kharga Oasis.—Beadnell, H. J. L.
 —, Madagascar.—Lemoine, P., 14.
 —, Mangishlak Penin.—Sokolov, D. N., 5.
 —, Mississippi.—Slocum, A. W.
 —, Paris Basin escarpment.—Welsch, J., 3.
 —, Picardy.—Leriche, M., 14.
 —, rocks, microscopic aspects of.—Burnet, A., 4.
 —, Russia.—Arkhangelski, A. D.; Rydzewski, B.
 —, Saxony.—Wanderer, K., 1 & 2.
 —, Spain.—Nicklés, R.
 —, Sudan.—Lemoine, P., 16.
 —, Swiss Jura.—Baumberger, E.
 —, Syria.—Felix, J.; Parona, C. F., 3.
 —, Texas.—Udden, J. A.
 —, Turkestan.—Faas, A.; Kler, M. O.
 —, Turkey.—Andrimont, R. d'.
 —, Vendôme.—Filliozat, M., 2 & 3.
 —, Westphalia.—Andrée, K., 3; Bærtling, R.; Stille, H., 4 & 5.
 —, Wyoming.—Darton, N. H., 1 & 3.
 —, Yorkshire.—Mortimer, J. R.
 —, Zululand.—Newton, R. B., 2.
 —. See also Chalk, Neocomian, &c.
 Cretaceo-Jurassic Alps.—Haug, E., 5.
Cribrilina.—Brydone, R. M., 2.
Cricetus.—Newton, E. T.
 Crimea (Russia).—Douvillé, H., 3; Meister, A.; Popov, S. P.
 Crinoidea, Carboniferous.—Rowley, R. R.
 —, Cretaceous.—Bassler, R. S., 3; Jækel, O.; Tommasi, A.
 —, Devonian.—Reed, F. R. C.
 —, Jurassic.—Engel, —; Krause, P. G.; Springer, F.; Wittenburg, P. von, 4.
 —, nomenclature of.—Bather, F. A.
 —, Permian.—Weller, S., 2.
 —, Silurian.—Stepanov, P.; Wood, E.
 —, Triassic, &c.—Clark, A. H.
Crioceras.—Sinzov, I., 2.
 Croatia.—Tučan, F.
 Crocodiles, Jurassic.—Andrews, C. W. Auer, E.
 Croham Hurst (Surrey).—Hinde, G. J.
 Cromfordite, Sardinia.—Millosevich, F.]
Crossotheca.—Carpentier, A., 2.
 Croxley Green (Herts).—Kidner, H.
 Croy (Dumbarton).—Tyrrell, G. W., 3.
 Croydon (Surrey).—Hinde, G. J.; Latham, B., 1-3.
 Crumpled beds, sublacustrine.—Heim, Arn., 3.
Cruratlula.—Diener, C., 3.
 Crush-brecciation, Durham.—Woolacott, D., 2.
 —, phenomena, S. Australia.—Bassford, H., 3.
 Crustacea, Carboniferous.—Andrée, K.; Peach, B. N.; Pervinquier, L., 3.
 —, Cretaceous.—Legendre, R.; Wanderer, K., 1 & 2.
 —, Devonian-Carboniferous.—Woodward, H.
 —, Jurassic.—Remeš, M.; Richardson, L., 7; Watson, D. M. S., 4.
 —, Silurian.—Reed, F. R. C., 6; Stepanov, P.
 —, Triassic.—Mansuy, H., 2.
 —. See also Ostracoda, Trilobites, &c.
Cryptania.—Dal Piaz, G.
Cryptocœnia.—Prever, P. L., 2.
Cryptomya.—Dall, W. H., 2.
Cryptonerita.—Ahlburg, J.
 Crystalline limestone, Palermo.—Silvestri, A., 2.
 —, rocks, Adamello Group.—Salomon, W.
 —, Anglesey.—Greenly, E., 2.
 —, Bernese Alps.—Bonard, A.
 —, Colorado.—Berg, G., 2.
 —, plastic deformation of.—Suess, F. E., 3.
 —, St. Gotthard.—Hezner, L.
 —, Siberia.—Backlund, H.
 —, Sudan.—Garde, G., 3; Gentil, L., 9.
 —, Ural Mts.—Duparc, 1 & 2.
 —. See also Gneiss, &c.
 Crystallization, spherulites &.—Chevalier, J.
 —, thermometamorphism &.—Rinne, F., 3.

- Crystallography. — Sommerfeldt, E.; Tertsch, H., 2.
- Crystals, axes of.—Wright, F. E.
- , faces of.—Gaubert, P., 5.
- , gold.—Maclaren, J. M.
- , ice.—Milch, L., 3.
- , limestone.—Prinz, W.
- , molecular study of.—Beckenkamp, J.
- , optical properties of.—Sorby, H. C.
- , parallel growths.—Kreutz, S., 2.
- , plasticity of heated salt.—Milch, L., 4.
- , radio-activity of.—Muegge, O.
- , thin sections of.—Evans, J. W., 5.
- , twinning of.—Ford, W. E., 3;
- Hilton, H.; Löwinson-Lessing, F., 3;
- Paul, F.
- —. See also Minerals, &c.
- Ctenacanthus*.—Dean, B.
- Ctenopteris*.—Salfeld, H., 2.
- Ctenostreon*.—Krause, P. G.
- Cuba (W.I.).—Johnston, Sir H.
- Cucullæa*.—Newton, R. B., 2.
- Cudgewa (Vict.).—Dunn, E. J., 21.
- Cue (W. Austral.).—Gibson, C. G., 2.
- Cuesmes (Hainaut).—Cornet, J., 4.
- Culm, Devon.—Rogers, I.
- , Germany (W.).—Hind, W.
- , grit in granite, Devon.—Hunt, A. R., 1 & 3.
- , Hanover.—Wilckens, O.
- , Hesse.—Sommer, K.
- Cumberland. — Derryhouse, A. R.; Gibson, R. J. H.; Herdman, T.; Woolacott, D., 3.
- Cunnoek (Ayr).—Boyle, R.
- Cupressocrinus*.—Reed, F. R. C.
- Cupressoylon*.—Penhallow, D. P.
- Cupro-uranite.—Michalias, R.
- Cupularia*.—Cann, F., 2.
- Curienne-la-Thuille massif (Savoy).—Révil, J.
- Currant Creek (Colo.).—Headden, W. P.
- Cuspidaria*.—Woods, H., 2.
- Cuxton (Kent).—Dibley, G. E., 2.
- Cwm Dwythwc (N. Wales).—Fearn-sides, W. G.
- Cyathocidaris*.—Lambert, J., 4.
- Cyathocrinus*.—Wood, E.
- Cyathophora*.—Prever, P. L., 2.
- Cyathophyllum*.—Reed, F. R. C.; Stephanov, P.; Vinassa de Regny, P. E., 3.
- Cybele*.—Reed, F. R. C., 2.
- Cycads, Cretaceous.—Udden, J. A.
- Cycadeoidea*.—Leriche, M., 14.
- Cycadeospermum* & *Cycadites*.—Salfeld, H., 2.
- Cyclactinia*.—Douvillé, H.
- Cyclades Is.—Papavasiliou, S. A.
- Cycloceras*.—Girty, G. H., 3.
- Cyclograptus*.—Brassler, R. S. [Bassler].
- Cyclonema*.—Vinassa de Regny, P. E., 4.
- Cyclopteris*.—Schuster, J., 2; Zaleski, M. D.
- Cycloptychius*.—Traquair, R. H.
- Cyclocsetis*.—Meunier, F., 2.
- Cycloseris*.—Felix, J., 2.
- Cylindrites*.—Richter, P.
- Cymatium*.—Dall, W. H., 2.
- Cymatochiton*.—Girty, G. H., 2.
- Cynodictis*.—Lambe, L. M.
- Cynodontia.—Seeley, H. G., 2.
- Cynognathus*.—Broom, R., 5.
- Cyphosoma*.—Faas, A.
- Cypress Hills (Saskatchewan).—Lambe, L. M.
- Cypricardella*.—Clarke, J. M., 2.
- Cypricardia*.—Dal Piaz, G.
- Cypricardina*.—Girty, G. H., 2.
- Cypridean silicite, Rhenish brown coal.—Pohlig, H., 3.
- Cyprina*.—Cerulli-Irelli, S.; Madsen, V.; Wollemann, A.
- Cypselavus*.—Gaillard, C.
- Cyrena Marls, Grosskarben boring (Hesse).—Steuer, A.
- Cyrenaica (Tripoli).—Gregory, J. W., 12.
- Cyrtina*.—Clarke, J. M., 2; Reed, F. R. C.; Tranth, F.; Yakovlev, N., 3.
- Cyrtocalpis* & *Cyrtocapsa*.—Principi, P., 2.
- Cyrtodonta*.—Clarke, J. M., 2.
- Cyrtopora*.—Cann, F., 2.
- Cyrtorizoceras*.—Girty, G. H., 3.
- Cystiphyllum*.—Reed, F. R. C.
- Cystoidea, Carboniferous.—Girty, G. H., 2.
- , Silurian.—Wood, E.
- Cystothalamia*.—Girty, G. H., 2.
- Cythere*.—Girty, G. H., 2; Méhes, G.
- Cytherea*.—Dollfus, G. F.; Tæger, H.
- Cytheridea*.—Chapman, F., 4; Méhes, G.
- Cytherideis* & *Cytheris*.—Méhes, G.
- Czekanowskia*.—Seward, A. C.
- Dacite, Victoria.—Richards, H. C.
- Dadoxylon*.—See BRAZIL.
- Dairy farms, sanitary water-supply for.—Bolton, B. M.
- Dakota, N. (U.S.A.).—Campbell, M. R.
- , S. (U.S.A.).—Osborn, H. F.
- Dakota flora, Patagonia.—Kurtz, F.
- Dalmanites*.—Clarke, J. M., 2.
- Dalmally (Argyll).—Kynaston, H.
- Dalmanella*.—Williams, H. S.
- Dalmatia.—Cvijili, J., 2; Kerner, F. von; Martelli, A.; Stefani, C. de, 3; Schubert, R. J., 1 & 2.
- Dalsland (Sweden).—Johansson, H. E.
- Damar massif (Tunis).—Jourdy, H.
- Damaraland (S.W. Africa).—Hermann, P.; Kaiser, Erich; Kuntz, J.; Range, P., 3; see also German S.W. Africa.
- Dâmbovitza Valley (Rumania).—Popescu-Voitești, J., 2.
- Danakilia (N.E. Afr.).—Salmojrighi, F.
- Dandenong, Mt. (Victoria).—Richards, H. C.
- Danian, Algeria.—Dareste de la Chavanne, J.
- Danube soils (Hungary).—Timkó, E.

- Daubites*.—Mansuy, H., 2; Wittenburg, P. von, 4.
Daonella.—Diener, C., 2 & 3; Kittl, E.
Daphænodon.—Peterson, O. A.
 DARBISHIRE, R. D., *Obit.*—Dickinson, J.
 Dar-es-Salaam (German E. Afr.).—Werth, E.
 Darent Valley (Kent).—Chandler, R. H., 5.
 Dartmoor (Devon).—Lowe, H. J.; MacAlister, D. A.
 Darvault (Seine-et-Marne).—Dollfus, G. F., 4.
 Darwaz District (Turkistan).—Edelstein, I.
 DARWIN, C.—Clark, J. W.; Geikie, Sir A.; Stevenson, J. J., 2; *see also* Darwin, C., 1 & 2; & LINNEAN Soc.
Darwinula.—Chapman, F., 4; Méhes, G.
 Darzo (Tyrol).—Trenner, G. B.
 Datolite, New Jersey.—Ford, W. E., 2.
Datta.—Healey, M.
 Dauphiné (France).—Kilian, W., 3.
 Davidson Co. (N. Car.).—Pogue, J. E., *fil.*
 DAWKINS, W. B., *Biogr.*—Anon., 22.
 Dawsonite.—Graham, R. P. D.
 Daylesford (Vict.).—Dunn, E. J., 6.
 Debar, Jebel (Algeria).—Blayac, J.
 De Beers Mine (Kimberley).—Wagner, P. A.
 Deddick Mt. (Vict.).—Dunn, E. J., 19.
 Deep leads, Victoria.—Hunter, S.
 Deep-sea deposits.—Burnet, A., 2; Joly, J., 2; Murray, J.; *see also* Oceanic deposits, &c.
 Deer, Quaternary.—Greig, J. A.
Deiphon.—Vinassa de Regny, P. E., 4.
 Deister (Hanover).—Stille, H., 3.
 Dejbjerg Hill (Denmark).—Nørregaard, E. M.
 DELACHAUX, E. A. S., *Obit.*—Anon., 3.
 DELGADO, J. F. N., *Obit.*—Choffat, P.; Cotter, B.; Sollas, W. J.
Delopteron.—Sellards, E. H.
Delphinus.—Ryabiniin, A.
Deltodus.—Leriche, M., 10 & 11.
Deltopecten.—Girty, G. H., 3.
Deltoptychius.—Leriche, M., 10.
 Delvauxine, Couthuin.—Stainieux, X.
Denckmannia.—Holzapfel, E., 2.
Dendrograptus.—Brassler, R. S. [Bassler].
Dendrogyra.—Prever, P. L., 2.
 Dendroidea, Silurian.—Brassler, R. S. [Bassler].
 Denmark.—Brezina, A.; Grieg, J. A.; Grønwall, K. A., 1 & 2; Harder, P.; Hintze, V.; Jessen, A.; Johansen, A. C.; Madsen, V.; Malling, C.; Milthers, V.; Nørregaard, E. M.; Ravn, J. P. J.; Rørdam, K.
Densiphyllum.—Douglas, J. A.
Dentalium.—Ahlburg, J.; Grønwall, K. A., 2.
Denter.—Leriche, M., 9.
Dentilucina.—Healey, M.
 Denudation, rate of.—Free, E. E.; Gilligan, A.
Derbya.—Girty, G. H., 2.
Derbyella.—*See* BRAZIL.
 Derbyshire.—Arnold-Bemrose, H. H.; Davies, E. H.; Terry, H. L.; Vernon, R. D.
 Derry, Co. (Ireland).—Jackson, J. W., 3.
 Derwent Valley (Cumberland).—Herdman, T.
 Derwenthaugh (Northumberland).—Woolacott, D., 4.
 Deserts, origin of.—Lomas, J., 3.
 —, plant-life &.—Macdougall, D. T.
Deshayesia.—Tager, H.
Desmoceras.—Jacob, C., 2.
 Deutschbrod District (Bohemia).—Hinterlechner, K.
 Devon.—Hunt, A. R., 1-4; Jukes-Browne, A. J., 2; Lowe, H. J.; MacAlister, D. A.; Rogers, I.; Thomas, H. H.; Worth, R. H.
 Devonian, Belgium.—Delhay, F.; Fourmarier, P., 3 & 7; Gilkinet, A.; Maillieux, E., 1-10; Renier, A., 3.
 —, Boulonnais.—Maillieux, E., 7.
 —, Carnic Alps.—Vinassa de Regny, P. E., 3 & 4.
 —, Hesse.—Brauns, R., 5.
 —, Indiana & Kentucky.—Bassler, R. S., 2.
 —, Iowa.—Eastman, C. R.
 —, Kielce Mts. — Siemiradzki, J.; Sobolev, D.
 —, Lahn Basin.—Ahlburg, J., 2.
 —, Luxembourg.—Lohest, M., 1 & 6.
 —, Missouri.—Greger, D. K.
 —, New South Wales.—Etheridge, R., *fil.*; Laseron, C. F.
 —, N. America.—Clarke, J. M., 2; Grabau, A. W., 1 & 2; Weller, S.; Willis, B.
 —, Pyrenes.—Mengel, O., 2 & 3.
 —, Rhenish Prussia.—Holzapfel, E., 2.
 —, sandstone minerals.—Fourmarier, P., 10.
 —, Shan States.—Reed, F. R. C.
 —, Tongking.—Mansuy, H., 2.
 —, *See also* Old Red Sandstone.
 Devono - Carboniferous, Oklahoma. — Girty, G. H., 3.
 —, Thuringia.—Sieburg, R.
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 —, Java.—Niethammer, G.
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 —, Mayenne.—Vandernott, L.
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- Diadematoidea, Liassic.—Tornquist, A., 6.
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 —, Arkansas.—Kunz, G. F.
 —, Brazil.—Branner, J. C.; Pearson, H., 2.
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 —, Binn Valley.—Jackson, J. W., 3.
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- Doneraile (Co. Cork).—Ussher, R. J.
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- , Quaternary geography.—Salisbury, R. D.
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- Eurypterida, Devonian.—Clarke, J. M.
- , Devonian-Carboniferous.—Seward, A. C., 2.
- Euryssiphonella*.—Haas, O., 2.
- Eusigillarian stems, Palæozoic.—Arber, E. A. N., 3.
- Eustylus*.—Allburg, J.
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- EVANS, Sir J., *Obit.*—Monckton, H. W.; SOLLAS, W. J.
- Evolution, fossil plants &.—Lignier, O., 2.
- , mammalian.—Depéret, C., 2.
- , Palæozoic faunas &.—Grabau, A. W.; Walcott, C. D., 1 & 2.
- , seismic geology &.—Hobbs, W. H.
- Exe R. (Somerset).—Strahan, A., 2.
- Exotic blocks.—See Erratic blocks.
- Exogyra*.—Burckhardt, C., 2; Krause, P. G.; Tæger, H.
- Experiments with mineral filters.—Sullivan, E. C.
- 'Eyes-coal,' Scottish.—Clough, C. T.
- Eyzies (Dordogne).—Lalame, G., 1 & 2.
- 'Fabra' Observatory, Barcelona.—Sola, J. C.
- Fagus*.—Engelhardt, H.; Menzel, P.
- Fairbanks (Alaska).—Covert, C. C.
- Falkland Is.—Skottsberg, C.
- Fall River (Colo.).—Herrick, R. L., 2.
- False Bay (Zululand).—Newton, R. B., 2.
- False-bedding, Dejbjerg Hill gravel.—Nørregaard, E. M.
- Falun, Cestes.—Degrange-Touzin, A., 2.
- Famennien, Namur.—Fourmarier, P., 3.
- , See also Devonian.
- FARMER & BRINDLEY'S marble works.—Howe, J. A.
- Farnham (Surrey).—Young, G. W.
- Farøe Is.—Cesàro, G.
- Fasciculopora*.—Canu, F., 2.
- Fasciolaria*.—Wollemann, A.
- Fassifern (Queensl.).—Jensen, H. I., 5.
- Faults, Argentina.—Delachaux, E. A. S.
- , Chablais.—Jaccard, F., 2.
- , Charleroi.—Bertiaux, A.
- , curved.—Bourgeat, —, 2.
- , dips of.—Kuehn, B.
- , Liège.—Fourmarier, P., 6.
- , Mansfeld.—Fulda, E., 2.
- , Mexico.—Bøse, E., 2.
- , Pas-de-Calais.—Gosselet, J.
- , Spitsbergen.—Geer, G. de.
- , Vaud.—Jaccard, F., 2.
- , Yorkshire.—Gilligan, A., 2; Johns, C.
- Fauna, Triassic.—Horwood, A. R.
- Faunas, origin of.—Suess, E., 3.
- Favosites*.—Første, A. F.; Mansuy, H., 2; Reed, F. R. C.; Stepanov, P.; Vinassa de Regny, P. E., 3.
- Fawler (Oxon).—Bayzand, C. J.
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- Fayoliella*.—Meunier, F., 2.
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- Fehépart district (Hungary).—Lorenthey, I. von.
- Fehring (Styria).—Bach, F., 2.
- Felis*.—Zdarsky, A.
- Felsite sill, Aberdeen.—Gibb, A. W.
- Felspars, albitization of.—Bailey, E. B.
- , cæsium in.—Vernadski, V. I., 2.
- , composition of.—Schwantke, A., 2.
- , non-metamorphic Tertiary sedimentary.—Grandjean, F.
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 —, Gulf of.—Jegunov, J.
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 —, Cretaceous.—Chapman, F., 2; Cornet, J., 8; Dean, B.; Dollo, L.; Leriche, M., 2; McClung, C. E.; Wanderer, K., 2; Woodward, A. S., 1 & 2.
 —, Devonian.—Dean, B.; Eastman, C. R.; Hoffmann, G.; Maillieux, E., 3; Rogers, I.; Traquair, R. H.
 —, Jurassic.—Dean, B.; Johnston, M. S.
 —, morphology of.—Schlesinger, G.
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 —, volcanic.—Branca, W.; Du Toit, A. L.; Hibsck, J. E.
Fistulipora.—Girty, G. H., 2; Reed, F. R. C.
 Fjords, Norway.—Kolderup, C. F., 3.
 —, Schleswig.—Wolff, W.
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 Florence-Bologna Ry. (Italy).—Baldacci, L.; Sacco, F., 3.
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 —, Derbyshire.—Terry, H. L.
 —, Honduras & Utah.—Ungemach, H., 2.
 —, pegmatite with.—Bézier, T., 2.
 —, Vosges.—Ungemach, H., 3.
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 —, clay-layers in Iberg.—Steinmann, G.
 —, Swiss Alps.—Heim, Arn.
 —, Tyrol.—Ampferer, O., 3.
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 —, Algeria.—Joleaud, L., 4.
 —, Alpes Maritimes.—Bertrand, L.
 —, Atlas Mts.—Savornin, J., 3.
 —, Corsica.—Maury, E.; Ternier, P., 7.
 —, French Alps.—Haug, F., 2 & 3.
 —, Jura.—Schardt, H., 2.
 —, Lorraine.—Lemoine, P., 11.
 —, Paris Basin.—Dollfus, G. F., 7; Lemoine, P., 7 & 8.
 —, Peloponnesus.—Négris, P., 5 & 6.
 —, Salzkammergut.—Haug, E.
 —, Savoy.—Révil, J.

- Folds, Swiss Alps.—Haug, É., 1-5 ;
 Schardt, H.
 —, Tatra Mts.—Lugeon, M., 3.
 —, Yorkshire Coalfield.—Gilligan, A.
 Folignate Valley (Sicily).—Preziotti, A.
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 —, Oolitic.—Brodrick, H.
 —, Permian.—Hickling, G.; Pabst,
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 —, Wealden.—Stechow, E.
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 H., 2; Staff, H. von, 1 & 2; Egger,
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 —, Jurassic.—Chapman, F., 4.
 —, Perno - Carboniferous.—Gortani,
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 —, Quaternary.—Heron-Allen, E.;
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 —, Tertiary.—Degrange-Touzin, R.,
 5; Douvillé, H., 3 & 4; Douvillé, R.,
 1, 2, & 4; Ferrero, L.; Heim, Arn.;
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 —, gases &. —Gautier, A., 2.
 —, Stromboli.—Platania, G., 3.
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- Gaj fauna in Burma.—Vredenberg, E.
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—, Argentina.—Bodenbender, G.
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—, Baku Gov.—Golubiatnikov, D. V.
—, Pennsylvania.—Munn, M. J.
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—, Cretaceous.—Arnold, R.; Burckhardt, C., 2; Newton, R. B., 2; Wanderer, K., 2; Wollemann, A.
—, Devonian.—Bassler, R. S., 2; Clarke, J. M., 2; Cossmann, M., 2; Longstaff, J., 1 & 2; Reed, F. R. C.; Sobolev, D.
—, Jnrassic.—Cossmann, M.; Dal Piaz, G.; Fischer, H.; Jackson, J. W.; Krause, P. G.; Remeš, M.; Trauth, F.
—, Ordovician.—Reed, F. R. C., 5.
—, Quaternary.—Bettger, O.; Bullen, R. A., 1 & 2; Caziot, E.; Hennig, E., 2; Jodot, P.; Kormos, T., 1 & 2; Neuenhaus, H.
—, Rhaetic.—Healey, M.
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—, Tertiary.—Arnold, R.; Boussac, J., 4; Bush, K. J.; Cossmann, M., 3; Dall, W. H.; Friedberg, W.; Grønwall, K. A., 2; Hilber, V.; Ihering, H. von; Maury, C. J.; Oppenheim, P.; Pavlovič, P. S.; Tager, H.; Toula, F., 4.
—, Triassic.—Ahlburg, J.; Diener, C., 2; Haas, O., 2; Wittenburg, P. von.
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—, Caucasus.—Sinzov, I., 2.
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—, formation of.—Bassler, R. S.; Lohest, M., 5.
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—, formations & plants.—Camboge, R. H.; Towers, L.
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—, Tübingen.—Koken, E., 4.
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—, protractor.—Kuehn, B.
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—, London.—Davison, C., 2; Fisher, O., 2; Herries, R. S.; Hobson, B.; Sollas, W. J., 1 & 2; see also GEOLOGICAL SOCIETY.
—, Survey, Alsace-Lorraine.—Buecking, H.
—, Austria.—Tietze, E., 2 & 3.
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—, Hesse.—Lepsius, R.
—, Hungary.—Beckh, J. von.

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- , Portugal.—Delgado, J. F. N.
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- , terms, South African.—Hatch, F. H., 3.
- , thermometer, quartz as a.—Wright, F. E., 3.
- , time.—Leverett, F.; Sollas, W. J., 2.
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- , astronomy &.—Ormathwaite, Lord.
- , Belgium.—Mourlon, M., 6.
- , DARWIN &.—Geikie, Sir A.; Stevenson, J. J., 2.
- , Dorset.—Richardson, N. M.
- , dynamical & physical.—Gregory, J. W., 3.
- , economic.—Jorissen, E.; Thompson, G. R.
- , education &.—Fricke, K.; Sauer, A.
- , England, (N.), 1902-1908.—Sheppard, T., 3.
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- , field work.—Greenwood, H. W.
- , French colonies.—Lemoine, P., 13-16.
- , Germany.—Lepsius, R.
- , LINNÆUS &.—Nathorst, A. G., 4.
- , Lord KELVIN &.—Gregory, J. W., 2.
- , Mexico to end of 1904.—Aguilar y Santillan, R.
- , New Zealand.—Wilckens, O., 3.
- , Portugal, 1906-1908.—Choffat, P., 4.
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- , practical.—Keilhack, K.
- , radio-activity &.—Becker, G. F.
- , seismic.—Hobbs, W. H.; see also Earthquakes, &c.
- , Styria, 1906-08.—Hilber, V., 2.
- , Swiss.—Sarsini, C.; Schardt, H., 1-6.
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- , uranium &.—Joly, J., 6.
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- , what is?—Arnaud, H.
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- Gera d'Adda (Lombardy).—Patrini, P.
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- Gergovia plateau (Auvergne).—Charvilhat, G.
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- , E. Africa.—Dacqué, E.; Kert, W.; Kuntz, J., 2; Mauritz, B.; Werth, E.
- , S.W. Africa.—Gagel, C.; Hermann, P.; Kaiser, Erich; Kuntz, J.; Lotz, H.; Merensky, H.; Range, P., 1-3; Thiene, H.
- Germanonautilus*.—Diener, C., 3.
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- , brown coal & kaolin.—Stremme, H., 2.
- , Culm of W.—Hind, W.
- , geology of.—Lepsius, R.
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- , magnesite.—Redlich, K. A., 5.
- , mountain-chains of.—Wilckens, O., 5.
- , natural monuments in.—Conwentz, H., 1 & 2.
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- Gesenke district (Moravian Silesia).—Jahn, J. J.
- Gevillat, Mt. (Auvergne).—Vigier, A., 2.
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- Giant Springs (Montana).—Fisher, C. A.
- GIBBS, W., *Obit.*—Jackson, C. L.
- Gibraltar, Straits of.—Gentil, L., 6.
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- Gilburria (Rajmahal Hills).—Stuart, M., 4.
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- Gippsland (Victoria).—Chapman, F., 5; Dunn, E. J., 14 & 15.
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- Gironcourt - sur - Vraine (Alsace). — Nicklés, R., 2.
- Gironde (France). — Degrange-Touzin, A., 5; Dollfus, G. F.; Vasseur, G.
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- —, Denmark. — Jesson, A.; Johansen, A. C.; Nørregaard, E. M.
- —, Germany (N.). — Dames, W.; Geinitz, E.; Linstow, O. von, 3; Olbricht, K., 1 & 2; Russwurm, P.; Spethmann, H., 7; Werth, E., 3.
- —, Iceland. — Pjetursson, H., 3.
- —, Lancashire. — Travis, W. G., 2.
- —, metamorphism of. — Carney, F.
- —, snowfalls &. — Lamplugh, G. W.
- —, Sweden. — Carlzon, C.; Holst, N. O., 1 & 2; Nathorst A. G., 6.
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- geology, Victoria (Austral.). — Kitson, A. E.
- gravel, Woodhall Colliery. — Whalley, E. B.
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- , Abruzzo. — Sacco, F., 8.
- , Australia. — Basedow, H., 2; David, T. W. E., 1 & 3; & Howchin, W.
- , Austrian Alps. — Hauptmann, L.
- , Ayrshire. — Gregory, J. W.
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- , Carpathian Mts. (N.). — Lozinski, W. von, 2.
- , Caucasus. — Estreich, K., 2.
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- Glycymeris*. — Dall, W. H., 2; Dollfus, G. F.; Kler, M. O.
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- , Elba. — Ternier, P., 5.
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 —, Argentina.—Bodenbender, G.
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 —, Congo.—Buttgenbach, H., 6.
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 —, geological occurrence of.—Beck, R.; Maclaren, J. M.
 —, German E. Africa.—Kuntz, J., 2.
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 —, India.—Holland, Sir T. H., 2.
 —, Korea.—Robbins, H. B.; Sammons, —.
 —, Magellan district & Tierra del Fuego.—Penrose, R. A. F., *fl.*
 —, Mexico.—Herrick, R. L., 3; Ordóñez, E., 1 & 2; Spurr, J. E., 3.
 —, New Zealand.—Finlayson, A. M., 2 & 3.
 —, Nova Scotia.—Woodman, J. E.; see also NOVA SCOTIA.
 —, origin of deposition of.—Denny, G. A.; Launay, L. de, 2; Young, R. B.
 —, Perm Gov.—Nikolaev, A.
 —, Peru.—Adams, G. I.; Diaz, L. F.; Gastelumendi, A. C.
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 —, Queensland.—Cameron, W. E.; Pearce, W. C. W.
 —, Siberia.—Edelstein, I., 3; Hotz, W., 3; Jachevski, L.; Khlaponin, A., 1 & 2; Launay, L. de.
 —, solutions in nature.—Lenher, V.
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 —, Tasmania.—Twelvetrees, W. H., 3.
 —, Tongking.—Dupouy, G.
 —, Transvaal.—Becker, G. F., 2; Denny, G. A.; Gregory, J. W., 4; Hellmann, F.; see also TRANSVAAL.
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 —, nodules, Belgium.—Renier, A., 4.
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 —, Alsace.—Bruhns, W.
 —, Baden.—Wilckens, O., 4.
 —, Bohemia.—Gagel, C., 5; Hinterlechner, K.; Irgang, G.
 —, clay & sand from.—Dawkins, W. B.
 —, Colorado.—Hastings, J. B.
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 —, Connecticut.—Ward, F.
 —, Cornwall.—Langefeld, H.
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 —, Elba.—Termier, P., 5.
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 —, Fennoscandia.—Sederholm, J. J., 1 & 2.
 —, France.—Lemoine, P., 10; Termier, P., 2.
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 —, Kharga Oasis.—Beadnell, H. J. L.
 —, Massachusetts.—Dale, T. N.; Warren, C. H.
 —, Michigan.—Winchell, A. N.
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 —, Scotland.—Mackie, W., 1 & 2.
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 —, Zone, Tyrol.—Heritsch, F.
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 —, Cambridge.—Marr, J. E.
 —, Coblenz, &c.—Mordziol, C., 3.
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 —, E. Prussia.—Tornquist, A., 4.
 —, Kent.—Larkby, J. R.
 —, Main Valley.—Haupt, O.
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 — —, Geological Survey. — See
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 —, Hamirpur.—La Touche, T. D., 2.
 —, Italy.—Viola, C.
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 — Shale, New York.—Smith, B., 2.
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 — Basin Tertiaries.—Courty, G.
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- Kenova District (Ky.).—Phalen, W. C.
- Kenowa (W. Austral.).—Gibson, C. G., 3.
- Kent.—Abbott, G.; Arber, E. A. N.; Barrois, C., 2 & 7; Bennett, F. J., 1-3; Burr, M.; Chandler, R. H., 1 & 5; Clinch, G.; Coke, G. E.; Dibley, G. E., 1-4; Girardin, P.; Hancock, E. W.; Hinton, M. A. C.;

- Johnston, Mary S., 2; Larkby, J. R.; Treacher, L., 1-3; Whitaker, W., 1-3; *see also* INDIA, Survey of, § KENT.
- Kentucky (U.S.A.).—Bassler, R. S.; Færste, A. F.; Morse, W. C.; Phalen, W. C.
- Keratophyre, Harz.—Erdmannsdorffer, O. H., 3.
- Kereszténysziget (Hungary).—Halaváts, G. von.
- Kerunia.—Douvillé, H.
- Keston (Kent).—Dibley, G. E., 4.
- Keswick (Cumberland).—Woolacott, D., 3.
- Ketchikan (Alaska).—Wright, F. E., 4.
- Keteleeria.—Engelhardt, H.
- Keuper, casts & tracks in.—Beasley, H. C.
- , Germany.—Huene, F. von, 3; Lang, R., 1-3; Stille, H.
- , *See also* Trias.
- Kew (Surrey).—Chree, C.; *see also* INDIA, Survey of.
- Keweenaw Peninsula (Mich.) & Keweenawan igneous rocks.—Winchell, A. N.
- Kharga Oasis (Egypt).—Beadnell, H. J. L., 1 & 2.
- Kharkov Gov. (Russia).—Borisjak, A., 2; Yakovlev, N., 2.
- Khobda R. (Uralsk).—Sokolov, D. N.
- Kielce (Russia).—Siemiradzki, J.
- , Sandomir Mts. (Russia).—Sobolev, D.
- Killary (Ireland).—Carruthers, R. G., 3.
- Kilmartin (Argyll).—Peach, B. N., 2.
- Kilmore (Vict.).—Dunn, E. J., 10.
- Kilo (Congo).—Buttgenbach, H., 6.
- Kilpisjärvi Lake (Finland).—Tanner, V.
- Kilsyth (Dumbarton).—Tyrrell, G. W., 3.
- Kimberley (Cape Colony).—Hartog, V.; Sutton, J. R.; Wagner, P. A.
- Kimberlite, De Beers Mine.—Wagner, P. A.
- , pipes, Cape Colony.—Du Toit, A. L.
- KINAHAN, G. H., *Obit.*—Clark, R.; Leonard, H.
- King's Co. (Cal.).—Arnold, R., 6.
- Kirghese Steppe (Akmolinsk).—Launay, L. de; Watson, E.
- Kirkbyina.—Ulrich, E. O.
- Kisened (Hungary).—Halaváts, G. von.
- Kjalvegur (Iceland).—Komorowicz, M. von.
- Klaus (Upper Austria).—Geyer, G., 2.
- Klebsiella.—Meunier, F., 2.
- Kleinia.—Lambert, J., 3.
- Klinozoisite, Lr. Austria.—Himmelbauer, A., 3.
- 'Klippen,' Bern.—Beck, P.
- , Carpathians.—Ligeon, M., 3.
- , Himalayas.—Diener, C.
- , Lucerne district.—Oppenheimer, J.; Schmidt, W.; Trauth, F.
- Klinoenstatite.—Wright, F. E., Zambonini, F., 4.
- Klœdenella.—Ulrich, E. O.
- Klœdenia.—Færste, A. F.
- Klukia.—Seward, A. C.
- Knappenwand (Carinthia).—Weber, L.
- Kniu (Dalmatia).—Schubert, R. J., 2.
- Knowle Farm Pit (Wilts).—Kendall, H. G. O.
- Knysna (Cape Colony).—Rogers, A. W., 2.
- Koetong (Vict.).—Dunn, E. J., 21.
- Kokkola (Finland).—Leiviskä, I.
- Kokomo (Ind.).—Færste, A. F.
- Kolibicza (Hungary).—Szontagh, T. von.
- Kolomna (Moscow Gov.).—Missuna, A.
- Königsberg, Giessen (Hesse).—Sommer, K.
- Koninkina.—Kittl, E.
- Korea.—Robbins, H. A.; Sammons.—KÖRNER, T., *Biogr.*—Raymond, R. W., 3.
- Kosciusko Plateau (N.S.W.).—David, T. W. E.
- 'Kösseine' (Fichtelgebirge).—Schuster, M.
- Kothen (Anhalt).—Linstow, O. von, 3.
- Kotometer.—Kuehn, B.
- Kotsina (Alaska).—Moffit, F. H.
- Kraichgau (Baden).—Stark, P.
- 'Krant.'—*See* Glaucomitic chert.
- Krassó-Szörény Com. (Hungary).—Rozlozsnik, P., 2.
- Krebshöhe (Bohemia).—Cornu, F.
- Kremsmünster (Upper Austria).—Angerer, P. L.
- Krithe.—Méhes, G.
- Kuban (Russia).—Chernotzki, S. I.
- Kufstein (Bavaria).—Schlosser, M., 2.
- Kuküllö R. (Hungary).—Vadász, M. E.
- Kumaon (Himalayas).—Diener, C., 2.
- Kunanalling (W. Austral.).—Gibson, C. G.
- Kupferberg (Silesia).—Buttgenbach, H.
- Kurische Nehrung (E. Prussia).—Johnsen, A., 2.
- Kusel (Rh. Bavaria).—Ammon, L. von.
- Kuttenberg (Bohemia).—Rzehak, A., 3.
- Kuzkin I. (Siberia).—Backlund, H.
- Kwila-Niari R. (French Congo).—Brien, V.
- Kyanite.—Gaubert, P., 3; Kern, F., 2.
- Kyffhäuser (Merseburg).—Fulda, E.
- Kyshitm District (Perm).—Knox, H. H.; Nikolæv, A.
- Kyzas R. (Siberia).—Jachevski, L.
- Laacher See (Rh.-Pruss.).—Brauns, R., 3.
- Laba R. (Caucasus).—Rebinder, B.
- Labrador (Canada).—Hantzsch, B.; Uhlig, J.
- Labradorite-norite with porphyritic labradorite.—Vogt, J. H. L.
- Labrodon.—Leriche, M., 9.
- Labyrinthodon, Hawkesbury Series, N.S.W.—Woodward, A. S., 5.

- Lacerta*.—Leriche, M., 5.
 Lacustrine deposits, Lake Thau. —
 Sudry, L.
 —, Var estuary.—Caziot, E.
 Ladinic fauna, Spiti.—Diener, C., 3.
 Ladoga, Lake (Russia).—Truustedt, O.
Lagenipora.—Canu, F., 2.
Lagomerzæ.—Zdarsky, A.
 Lagunaz (Venetia).—Bibolini, A.
 Lahat 'pipe,' Perak.—Scrivenor, J. B., 2.
 Lahn R. (Germany).—Ahlburg, J., 2;
 Brauns, R., 5.
 Lai (Congo).—Lemoine, P., 14.
 Lajosnuze (Hungary).—Guell, W.
 Lake Valley (N. Mex.).—Keyes, C. R., 5.
 Lakes, divided, in W. Minnesota. —
 Griggs, R. F.
 —, New Zealand glacial.—Morgan, P.
 —, Posen.—Werth, E., 3.
 —, Salzburg.—Hernes, R.
 —. See also Lochs, &c.
 Lamellibranchiata, Carboniferous. —
 Girty, G. H., 2 & 3; Hind, W., 2 & 3;
 Sommer, K.
 —, Cretaceous.—Arnold, R.; Bøhm,
 Joh.; Burekhardt, C., 2; Brandes, T.;
 Douvillé, H., 5 & 6; Fritsch, A.;
 Kler, M. O.; Lemoine, P., 2 & 16;
 Newton, R. B., 1 & 2; Parona, C. F.,
 2-4; Rydzewski, B.; Sokolov, D. N.,
 5; Wanderer, K., 2; Wollemann, A.;
 Woods, H., 2.
 —, Devonian.—Bassler, R. S.; Clarke,
 J. M., 2; Reed, F. R. C.; Sobolev,
 D.; Vinassa de Regny, P. E., 4;
 Williams, H. S., 2.
 —, Jurassic.—Benecke, E. W.;
 Borisyak, A., 5; Dal Piaz, G.; Krause,
 P. G.; Sokolov, D. N., 2-4; Trauth,
 F.; Wittenburg, P. von, 3 & 4.
 —, Quaternary.—Bullen, R. A.; Jen-
 sen, A. S.; Kobelt, W.; Madsen, V.
 —, Rhaetic.—Healey, M.
 —, Silurian.—Bassler, R. S., 2; Man-
 suy, H., 2; Vinassa de Regny, P. E., 4.
 —, Tertiary.—Arnold, R.; Bogachev,
 V.; Cerulli-Irelli, S.; Cossmann, M.,
 3; Dall, W. H., 2; Dollfus, G. F.;
 Grøenwall, K. A., 2; Kobelt, W.;
 Pavlović, P. S.; Niedzwiedzki, J.;
 Tæger, H.; Toula, F., 4; Trabucco,
 G.; Ugolini, R., 2.
 —, Triassic.—Diener, C., 2 & 3; Haas,
 O., 2; Kittl, E.; Kolesch, K.; Man-
 suy, H., 2; Tæger, H.; Toula, F., 5;
 Wittenburg, P. von, 1-4.
 Lameta Beds, Dongargaon.—Woodward,
 A. S.
Lamna.—Tæger, H.
Lampterocrius.—Wood, E.
 Lanarkshire (Scotland).—Dunlop, R.;
 Ferguson, D.; Macnair, P.
 Lancashire.—Ashton, W. A.; Given, J.
 C. M.; Jackson, J. W., 2; Travis,
 W. G., 1 & 2.
 Land, changes of level.—Castelnau, P.;
 David, T. W. E., 4; Gregory, J. W.,
 9; Guenther, R. T.; Krauz, W.
 Land-connexion between Europe & N.
 America, & between N. & S. America,
 former.—Scharff, R. F., 1 & 2.
 —, forms of.—Davis, W. M., 3.
 — surfaces, old, Lüneburg district.—
 Olbricht, K., 1 & 2.
 Lander (Wyoming).—Darton, N. H.
 Landslips, Agordo Valley.—Bibolini, A.
 —, Hudson Valley (N.Y.).—Newland,
 D. H.
 —, Lyme Regis.—Jukes-Browne, A. J.
 —, Styria.—Stiny, J., 3.
 —, Ziller Valley.—Stiny, J., 1 & 2.
 Langenau (Bavaria).—Schwager, A.
 Langkofel (Tyrol).—Gordon, M. M. O.,
 1 & 2.
 Langton Herring (Dorset).—Richardson,
 L., 8.
 Languedoc (France).—Joleaud, L.; Sa-
 wicki, L.
 Lannion (Britanny).—Barrois, C., 6.
 Laplaud.—Firks, C.; Nicou, P.; Ro-
 berg, J. E.; Tanner, V.
 LAPPARENT, Alb. A. de, *Obit.*—
 Anon., 10; Barrois, C., 12; Mourlon,
 M., 2; Sollas, W. J.
 Lapias des Bracas (Basses-Pyrénées) &
 of El Torcal (Andalusia).—Martel,
 E. A., 2.
 Laramie (Wy.).—Darton, N. H., 1 & 3.
 — Beds, Wyoming.—Blackwelder, E.,
 3.
 — Formation, use of term.—Cross,
 W., 2; Peale, A. C.
 Largue Valley (Provence).—Deydier, M.
Larvaria.—Morellet, L.
Lasisoma.—Cockerell, T. D. A.
 Laterization.—Chautard, J.; Lemoine,
 P., 12.
 Laterites.—Arsandaux, H., 4; Atterberg,
 A.; Bauer, M.; Blake, G. S., 2;
 Chautard, J.; Crook, T., 3; Dunstan,
 W. R.; Jennell, F. P., 2; Roccati, A.,
 2; Scrivenor, J. B., 6.
 Latium (Italy).—Clerici, E.
 Latouche I. (Alaska).—Lincoln, F. C.
 Lattigwald cliff (Bern).—Gerber, E.
 Laueburg (Prussia).—Gagel, C., 3.
 — Clays, Hanover.—Schucht, F.
 Laugerie (Dordogne).—Lalanne, G., 3.
 Lauffenberge (Carinthia).—Kern, F., 2.
 Laurentian, N. America.—Adams, F.
 D.; Vau Hise, C. R., 1-3.
Lauriphyllum.—Schindlerhuette, G.
 Lausitz district (Silesia, &c.).—Pietzsch,
 K.; Stremme, H., 4.
 Lautite, Alsace.—Duerfeld, V., 1.
 Lauterbrunnen Valley (Berne).—Hel-
 gers, J. H. E.
Laurus.—Tæger, H.
 Lava, Antarctic.—Drygalski, E. von.
 — domes, Lipari Is.—Bergeat, A.
 — flows, Iceland.—Erkes, H.
 —, Rome.—Meli, R., 3.
 Lavas, Lipari Is.—Lacroix, A., 13;
 Platania, G., 3.
 —, radioactivity &.—Joly, J., 5.
 Laverda (Venetia).—Oppenheim, P., 2.

- Lawlers (W. Austral.).—Gibson, C. G., 2.
- Lead, Algeria & Tunisia.—Simmersbach, B., 2.
- , Argentina.—Michaelis, S.
- , Canada.—See CANADA, 2.
- , Colorado.—Spurr, J. E.
- , Finistère.—Michel, L.
- , German S.W. Africa.—Gagel, C., 4.
- , Hautes-Pyrénées.—Van Ness, W. W.
- , Hungary.—Rozlozsnik, P.
- , Idaho.—Calkins, F. C.
- , Massachusetts.—Clapp, C. H.
- , Mexico.—Ordóñez, E., 1 & 2; Spurr, J. E., 3.
- , Missouri.—Buckley, E. R.
- , Nevada.—Larsh, W. S.
- , New South Wales.—See NEW SOUTH WALES.
- , Peru.—Adams, G. I.; Diaz, L. F.; Dueñas, E. I.; Gastelumendi, A. C.
- , Shan States.—La Touche, T. D.
- , Tongking.—Dupouy, G.
- , Thuringia.—Hess von Wichdorff, H.
- , Victoria.—Dunn, E. J., 19 & 22.
- , W. Australia.—See WESTERN AUSTRALIA, 2.
- Leadhillite.—Palache, C., 1 & 2.
- Leads, W. Australian deep.—Woodward, H. P.
- Leavad (Caithness).—Tait, D.
- Lebombo Mts. (S. Afr.).—Henderson, J. McC.
- Lecanites*.—Toula, F., 5.
- Lecorium* & *Lectrum*.—Sellards, E. H.
- Lecythiocrinus*.—Reed, F. R. C.
- Leda*.—Dall, W. H., 2; Dollfus, G. F.; Toula, F., 4; Wollemann, A.
- Leeds (Yorks).—Holgate, B.
- Leghorn (Tuscany).—Pycraft, W. P., 2.
- Leicestershire.—Preston, H.; Richardson, L.
- Leilenkopf (Bavaria).—Brauns, R., 4.
- Leine R. (Hanover).—Grupe, O., 1 & 2.
- Leioclema*.—Girty, G. H., 2.
- Leipzig (Saxony).—Döring, T.
- Lellinge (Denmark).—Rördam, K.
- Lemmatophora*.—Sellards, E. H.
- Lemurs, Tertiary.—Schlosser, M.
- Lena District (Siberia).—Launay, L. de.
- Leoben (Styria).—Zdarsky, A.
- LEONHARD, K. C. von.—Milch, L.; Nägele, E.
- Leonstein (N. Austria).—Geyer, G., 2.
- Leperditia*.—Chapman, F., 3; Stepanov, P.
- Lepidocyclusina*.—Douvillé, R., 1 & 2; Ferrero, L.; Provale, I.; Rovereto, G.
- Lepidodendron*.—Zaleski, M. D.
- , wood of.—Weiss, F. E.
- Lepidophlois*.—Watson, D. M. S., 3; Zaleski, M. D.
- Lepidosteus*.—Lambe, L. M.; Woodward, A. S.
- Lepidostrobus*.—Zeiller, R.
- Lepidotus*.—Woodward, A. S., 2.
- Lepium*.—Sellards, E. H.
- Lepospondyli, Carboniferous.—Schwarz, H.
- Leptaceratherium*.—Lambe, L. M.
- Leptæna*.—Reed, F. R. C.; Sommer, K.
- Leptidæ, Baltic amber.—Meunier, F.
- Leptis*.—Cockerell, T. D. A.
- Leptocheilus*.—Till, A., 3.
- Leptocælia-flabellites* land, Atlantic.—Schwarz, E. H. L., 2.
- Leptodomus* & *Leptostrophia*.—Clarke, J. M., 2.
- Leptodus*.—Girty, G. H., 2.
- Leptomeryx*.—Lambe, L. M.
- Leptomussa*.—Felix, J., 2.
- Lepton*.—Cerulli-Irelli, S.
- Leptophyllia*.—Prever, P. L., 2.
- Leptoseria*.—Felix, J., 2.
- Leptosolen*.—Woods, H., 2.
- Lepus*.—Hinton, M. A. C.
- 'Lettenkohle,' Hanover & Westphalia.—Stille, H.
- Leucite-uranolite meteorite, Schafstätt.—Belowsky, M.
- Leucitic lava & leucite, Rome.—Meli, R., 3.
- Leucozonina*.—Toula, F., 4.
- Levantine Beds, Siena.—Barbani, A.
- Leven R. (Tasm.).—Twelvetrees, W. H., 4.
- Lias, Argentina.—Burckhardt, C., 3; Kurtz, F., 2; Roth, S., 2.
- , Austrian Alps.—Trauth, F.
- , Batcombe.—Richardson, L., 4.
- , Bornholm.—Malling, C.
- , boulders, Lucerne District.—Trauth, F.
- , Brenta Canal.—Del Campana, D., 2.
- , Germany (N.).—Stolley, E., 3.
- , Greece.—Renz, C., 5.
- , Himalayas.—Diener, C., 2.
- , Küküllö R.—Vadász, M. E.
- , Portugal.—Choffat, P., 3.
- , Sicily.—Limanovski, M.
- , Spain.—Nicklés, R.
- , Teutoburg Forest.—Wetzel, W.
- , Tongking.—Mansuy, H., 2.
- , Tyrol.—Crick, G. C.; Trener, G. B., 2.
- , Venetia.—Dal Piaz, G.
- , Württemberg.—Tornquist, A., 6.
- Libertad (Peru).—Bois Lukis, E. du; Marsters, V. F., 2.
- Libyan Desert (Egypt).—Beadnell, H. J. L., 2.
- Lich-Grünberg Ry. (Hesse).—Schottler, W.
- Lichenopora*.—Canu, F.
- Licques (Picardy).—Briquet, A., 9.
- Liège (Belgium).—Destinez, P.; Fourmarier, P., 1, 4, 6, 9, & 11; Fraipont, C., 1 & 2; Lohest, M., 1-3 & 8; Munck, E. de, 2; Renier, A., 3; Velge, G.
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- Life, origin of.—Biddlecombe, A.; Suess, E., 3.
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 Lignites, Dutch Limburg.—Briquet, A., 5.
 —, Rhine Valley.—Holzapfel, E.
 —, United States.—Campbell, M. R.
 —, Victoria.—Dunn, E. J., 10.
 Liguria (Italy).—Roccati, A.; Rovereto, G.; Sacco, F.; Steinmann, G., 7; Zaccagna, D.
Lilangina.—Diener, C., 3.
 Lille, coal museum, 1907.—Bayet, L.
Lima.—Diener, C., 3; Grønwall, K. A., 2; Krause, P. G.; Mansuy, H., 2; Newton, R. B., 2; Trabucco, G.
 Limagne (Auvergne).—Glangeaud, P.
Limatulina.—Girty, G. H., 2.
 Limburg (Belgian & Dutch).—Briquet, A., 4, 5, & 10; Klein, W. C.
 Limestone, Contes-les-Pins.—Grossouvre, A. de, 3.
 — geodes, Ain.—Gonnard, F., 4.
 — pebbles, Bunter Conglomerate.—Martin, E. C.
 — plateau, Szilicze.—Böckh, H. von.
 — unconformities.—Dixon, E. E. L.
 Limestones, Belgium.—Cosyns, G., 4.
 —, cavernous, Tuscany.—Fucini, A., 2 & 3; Lotti, B., 4.
 —, Belgian Devonian.—Andrimont, R. d', 2; Delhay, F.; Van den Broeck, E.
 —, Derbyshire.—Arnold-Bemrose, H. H.
 —, Fontainebleau Sands &.—Dollfus, G. F., 4.
 —, Indiana.—Greene, F. C.
 —, marine deposition of.—Philippi, E.
 —, Moldavian Sarmatian.—Simionescu, I.
 —, Mte. Malbe Jurassic.—Merciai, G.
 —, origin of.—Andrée, K., 2.
 —, Pienza Pliocene.—Stefani, C. de, 2.
 —, Pyrenees.—Mengel, O., 2 & 3.
 —, Simbirsk, Permian.—Krotov, P.
 —, water in.—Andrimont, R. d', 2; Putzeys, E., 2.
 —, weathering of Scottish metamorphic.—Tyrrell, G. W.
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 Linarite, California.—Eakle, A. S.
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 Lipari Is. (Mediterranean).—Bergeat, A.; Billows, E., 2; Lacroix, A., 13; Platania, G., 1 & 3.
Lepidophloios.—Gordon, W. T., 2.
 Lippe R. (Germany).—Krusch, P., 3.
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Lisca.—Sellards, E. H.
 Liscard (Cheshire).—Greenwood, H. W.
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Lithapium.—Principi, P., 2.
Lithtractus.—Principi, P., 2.
 Lithium minerals.—Hartley, W. N.
Lithothamnion.—Lemoine, (Mme) P.; Silvestri, A., 2.
Lithomitra.—Principi, P., 2.
Lithophaga.—Newton, R. B., 2.
Lithophyllum.—Lemoine, (Mme) P.
Lithostrotion.—Douglas, J. A.; Grosch, P.
 Littleton Hill (Ayr).—Mort, F., 2.
 Liverpool (Lanes).—Travis, W. G., 2.
 Liverwort, Tertiary.—Knowlton, F. H.
 Lizards, Tertiary.—Leriche, M., 5; Nopsca, F. von.
 Llallagua (Bolivia).—Endter, A.
 Llanberis (Carnarvon).—Fearnside, W. G.
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Lobites.—Kittl, E.
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 Lochs, glacial origin of some.—Eisenmenger, G., 2.
 —, Scotland.—Renwick, J.
 Lodes, Dartmoor.—MacAlister, D. A.
 Lodin, Mts. (Carnic Alps).—Vinassa de Regny, P. E., 3.
 Löss, Argentina.—Lehmann-Nitsche, R., 2.
 —, Germany (N.).—Dames, W.; Dammer, B.; Linstow, O. von, 3.
 —, Hungary.—Horusitzky, H., 1 & 2.
 —, Moravia.—Rzehak, A., 2.
 —, Rhenish Prussia.—Fenteu, J.; Rauff, H.
 —, Thuringia & Harz.—Wuest, E., 4.
 'Löss man,' Nebraska.—Shimek, B.
 Lofty, Mt. (S. Austral.).—Woolnough, W. G.
 Logrosan (Spain).—Choffat, P., 5.
 Loh Velo (Java).—Niethammer, G.
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- Loire (France).—Lemoine, P., 13.
LOMAS, J., bibliogr. of papers by.—
 Lomas, J., 2.
 —, *Obit.*—Anon., 11; Kendall, P. F.,
 2; Sollas, W. J.
Lomatopteris.—Salfeld, H., 2.
 Lombardy (Italy).—Artini, E.; Mariani,
 E.; Meli, R., 4; Patrini, P.; Prever,
 P. L.; Repossi, E.; Tilmann, N.
 Lomond, Loch (Scotland).—Renwick, J.;
 Eisenmenger, G., 2.
 London.—See **LONDON**, Imp. Internat.
 Exhib., Metropol. Water Board, &c.
 — Basin, Tertiaries.—Court, G.
 Londonderry (Ireland).—Wilkinson, S.
 B.
 Long I. (N.Y.).—Crosby, W. O.
 Long, Loch (Scotland).—Stark, J., 2.
 Long Meg (Cumberland).—Woolacott,
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 Longhurst (Belfast).—Wright, J.
 Longprao (Tongking).—Mansuy, H.
 Longwy (French Lorraine).—Anon., 38.
Lonsdaleia.—Grosch, P.; Mansuy, H.,
 2.
 Loose Valley (Kent).—Bennett, F. J.,
 2.
Lophiostomus.—Woodward, A. S., 2.
LORIOU, P. DE, *Obit.*—Anon. 12; Chof-
 fat, P., 2; Sarasin, C., 2; Sollas, W.
 J.
 Lorraine (French).—Anon., 38; Le-
 moine, P., 10; Schumacher, E.; Van
 Werveke, L., 2.
 Loser (Salzburg).—Haas, O.
 Lossiemouth (Elgin).—Watson, D. M.
 S.
 Lot (France).—Viré, A.
 Louisiana (U.S.A.).—Harris, G. D.;
 Maury, C. J.
 Loup Fork Beds, Kansas.—Andrews, C.
 W., 3.
 Louveigné (Liège).—Fourmarier, P., 6.
Lovenia.—Lambert, J., 3.
Loxococoncha.—Mêhes, G.
Loxonema.—Ahlburg, J.; Diener, C.,
 2; Longstaff, J., 1 & 2; Reed, F. R.
 C.; Sommer, K.
 Loxonematidae, Palæozoic.—Cossmann,
 M., 2.
 Lualaba R. (Congo).—Cornet, J., 10.
 Lucerne, Lake of (Switzerland).—
 Oppenheimer, J.; Schmidt, W.;
 Trauth, F.
 Lucette mine (Mayenne).—Douxami,
 H.
Lucina.—Dollfus, G. F.; Krause, P. G.;
 Tæger, H.; Toulou, F., 4.
 Lüderitz Bay (S.W. Afr.).—Lotz, H.;
 Merensky, H.; Range, P.
 Ludian, Paris Basin.—Boussac, J., 2;
 see also Tertiary.
 Lughezza (Rome).—Meli, R., 3.
 Lugton (Ayrshire).—Gregory, J. W.
 Luing I. (Argyll).—Peach, B. N., 2.
 Lujaurite, Transvaal.—Brouwer, H. A.
 Lüneburg district (Hanover).—Gagel,
 C., 1 & 2; Olbricht, K., 1 & 2.
Lunulites.—Canu, F., 1 & 2.
 Lunz Beds, Austria.—Krasser, F.
 Lutetium.—Urbain, G.
LUTHER, M., *Biogr.*—Raymond, R.
 W., 3.
 Luxemburg (Belgian & Dutch).—Andri-
 mont, R. d., 2; Cornet, J., 11;
 Cosyns, G., 2; Lohest, M., 1 & 6;
 Malaise, C., 2; Van Werveke, L., 2.
Lychnocanium.—Principi, P., 2.
 Lycopodiaceæ, Palæozoic.—Arber, E. A.
 N., 3.
 —, Triassic.—Fliche, P.
 Lyme Regis (Dorset).—Anon., 29;
 Cameron, A. C. G.; Jukes-Browne,
 A. J.
Lymnocyon.—Matthew, W. D.
 Lynn (Norfolk).—Whitaker, W.
 Lyons (Rhône).—Lemoine, P., 13.
 Lysa Mts. (Radom).—Guerich, G.
Lytoceras.—Jacob, C., 2; Jeannet, A.
 Maas R. (Netherlands).—Tesch, P.; see
 also Meuse Valley.
 Macaluba (Upper Tiber Valley).—Saba-
 tini, V.
MACFARLANE, T., *Obit.*—McGill, A.
Machæroides.—Matthew, W. D.
Macoma.—Dall, W. H., 2; Toulou, F., 4.
 Macquarie R. (N.S.W.).—Harper, L. F.
Macrocephalites.—Bøhm, G.
Macrocheilina.—Girty, G. H., 2.
Macroodus.—Clarke, J. M., 2; Sommer,
 K.
Macropneustes.—Tæger, H.
Macropoma.—Woodward, A. S., 2.
 Macrospores of Triassic plants.—Wuest,
 E.
 Madagascar.—Bauer, M.; Bourdariat,
 A.; Dacqué, E.; Douvillé, R., 4;
 Lacroix, 3-5, 8-10, & 16; Lemoine,
 P., 1 & 14.
 Madeira I.—Ackermann, E.
 Madonna, della Catena (Sicily).—Sil-
 vestri, A., 3.
 Madre, Sierra (Mexico).—Herricks, R.
 L., 3.
Mæandrostia.—Girty, G. H.
Mæniceras.—Sobolev, D.
 Magdeburg (Germany).—Hind, W.;
 Richter, P. B.
 Magellan District (S. Am.).—Penrose,
 R. A. F., *fil.*
 Maggio, Mte. (Apennines).—Sangiorgi,
 D.
 Magione (Umbria).—Vimassa de Regny,
 P. E., 2.
 Magmas, igneous rock.—Bergt, W., 4;
 Evans, J. W., 7; Golfier, J.; Harker,
 A., 1 & 2.
 —, solidification of.—Aston, J.
 Magmatic segregation.—Beck, R.
 Magnetic dichroism of minerals.—Mes-
 lin, G.
 — iron-pyrites, Piedmont. — Prie-
 hæusser, M.
 Magnesian Limestone, Durham. —
 Woolacott, D., 2.

- Magnesian rocks, New Zea land.—Finlayson, A. M.
- Magnetite, California.—Hess, F. L.
- , Germany, Spain, Styria, Sweden, & Urals.—Redlich, K. A., 4 & 5.
- , India.—Holland, Sir T. H., 2.
- , Tyrol.—Hammer, W.; Redlich, K. A., 5.
- Magnesium in rocks & water.—Schwarz, E. H. L., 4.
- Magnetism, basalt &.—Allen, G. E.
- Magnetite, Blagodot.—Lœwinson-Lessing, F., 2.
- , Pennsylvania.—Spencer, A. C.
- , Vaspatak.—Hotz, W.
- Magnetometer & iron-ores.—Rauw, H. de.
- Magnolia*.—Engelhardt, H.
- Magwe (Burma).—Pascoe, E. H.
- Mahuida (Argentina).—Michaelis, S.
- Maidenhead (Berks).—Treacher, L., 2.
- Maidstone (Kent).—Bennett, F. J., 2.
- Maillargues (Cantal).—Gonnard, F., 3.
- Main Valley (Germany).—Engelhardt, H.
- Maine (U.S.A.).—Bastin, E. S., 2; Clapp, F. G., 2; Clarke, J. M., 2; Emmons, W. H.
- Mainflingen a. M. (Hesse).—Haupt, O.
- Mainz Basin (Germany).—Kobelt, W.
- Majella, Mte. (Abruzzo).—Sacco, F., 8 & 9.
- Majorca (Balearic Is.).—Bate, D. M. A.
- MAKOWSKY, A., *Obit.*—Tietze, E.
- Mälaren, Lake (Sweden).—Teiling, E.
- Malaspina glacier (Alaska).—Martin, L.
- Malay States.—Crook, T.; Evans, J. W., 8; Scrivenor, J. B., 1-5.
- Malbe, Mte. (Perugia).—Merciai, G.
- Malcolm, Mt. (W. Austral).—Woodward, H. P.
- Malenco, Val (Lombardy).—Artini, E.
- Malham (Yorks).—Johns, C.
- Malise (Italy).—Sacco, F., 10.
- Malla Johar (Himalayas).—Diener, C., 1 & 2.
- Malongulli (N.S.W.).—Etheridge, R., *fl.*, 2.
- Maltese Miocene echinoderms in the Museum of Geology, Florence.—Stefanini, G.
- Malvern Hills.—Suess, E., 2; Thompson, W.
- Mammalia, migrations of.—Anon., 37.
- , origin of.—Ameghino, F.; Steinmann, G., 9.
- , Quaternary.—Bate, D. M. A.; Broom, R., 3 & 4; Clerici, E.; Collett, R.; Conzatti, C.; Fraipont, J.; Gidley, J. W., 2; Glauert, L.; Grieg, J. A.; Hagmann, G., 1 & 2; Haupt, O.; Hay, O. P., 6; Jacob, C.; Lehmann-Nitsche, R.; Linstow, O. von; McClung, C. E., 2; Menzel, H.; Mourlon, M., 3, 4, & 5; Pohlig, H., 1 & 2; Pontier, G., 2-5; Reynolds, S. H.; Ridgeway, W.; Schlosser, M., 2; Vollosvich, K.; Wuest, E., 2.
- Mammalia, Tertiary.—Abel, O., 3; Ameghino, F., 1, 2, & 7; Andrews, C. W., 3; Athanasiu, S. C.; Bach, F., 2-4; Barbiani, A.; Cook, H. J.; Depéret, C., 2; Gidley, J. W.; Lambe, L. M.; Matarazzi, G.; Matthew, W. D.; Mayet, L.; Newton, E. T.; Olcott, T. F.; Osborn, H. F.; Petersen, O. A.; Pilgrim, G. E.; Pontier, G., 1-5; Roman, F.; Roth, S.; Ryabiniin, A.; Schlosser, M.; Stehlin, H. G.; Stromer, E.; Zdarsky, A.
- , Triassic.—Broom, R., 6.
- Mammoth, Brabant.—Mourlon, M., 5.
- , Selsey.—Abbott, W. J. L.
- , Siberia.—Nasonov, N. V.; Vollosvich, K.
- Man, origin of.—Rutot, A., 2.
- , *See also* Homo, *§c.*
- Manasquan Inlet (N.J.).—Kuemmel, H. B.
- Manganese, Baden.—Seebach, M.
- , Caucasus.—Hæinig, I. A.
- , Couthuin.—Staimer, X.
- , Georgia.—Watson, T. L.
- , India (S.).—Ahlers, R. O.
- , Piedmont.—Prießhæusser, M., 2.
- , Rumania.—Butureanu, V. C., 2.
- , Uganda.—Roccati, A., 2.
- , United States.—Hayes, C. W.
- , minerals.—Fermor, L. L.
- , nodules, Pacific Ocean.—Murray, J.
- Mangishlak Peninsula (Caspian).—Sinzov, I., 2; Sokolov, D. N., 5; Vasilievski, M. M.
- MANGLES, H. A., *Obit.*—Herries, R. S., 2.
- Manitoba (Canada).—BRIT. ASSOC., 2-4; Dowling, D. B.
- Manjak, Trinidad.—Guppy, R. J. L.
- Manorca (Balearic Is.).—Tornquist, A., 7.
- Mansfeld (Pr.-Saxony).—Fulda, E., 2.
- Manzonina*.—Giattini, G. B., 2; Lambert, J., 3.
- Maps, palæogeographical.—Willis, B.

MAPS.

AFRICA (EAST).

GERMAN EAST. S.E. of Victoria Nyanza. $\frac{1}{500,000}$; & Sekenke. 1 inch = about $1\frac{1}{2}$ kilom. 1909.—Kuntz, J., 2.

AFRICA (NORTH).

ALGERIA. Carte géologique détaillée.

$\frac{1}{50,000}$
52. Smendou. 1907.—Joleaud, J.

81. Warnier. 1908.—Brives, A.
153. Oran. 1908.—Doumergue, F.

EGYPT. Libyan Desert south of the Oasis of Kharga. $\frac{1}{300,000}$. 1909.—Beadnell, H. J. L.

MOROCCO. Angad. Beni Snassen Massif. $\frac{1}{300,000}$. 1908.—Gentil, L., 5.

AFRICA (SOUTH). 1 inch = 78.88 miles. 1909.—Hatch, F. H., 4.
 —. —. 1 inch = 80 miles. 1909.—Stott, C. H.
 CAPE COLONY. 1 inch = about 55 miles. 1909.—Rogers, A. W., 5.
 —. Karroo Poort. 1 inch = 20 km. 1909.—Suess, E., 2.
 RHODESIA. Karroo System in Northern. 1 inch = 80 miles. 1909.—Molyneux, A. J. C., 2.
 TRANSVAAL. 1 inch = 19.7 miles. 1909.—Hatch, F. H., 4.
 —. (Central). 1 inch = 50 miles. 1909.—Hall, A. L.
 —. Waterberg and Rustenburg Districts, including the Potgietersrust tinfields. 1 inch = 7½ miles & 1 inch = about 2½ miles. 1909.—Kynaston, H., 2.
 —. Witwatersrand Goldfields. 1 inch = about 19 miles. 1909.—Denny, G. A.
 ZULULAND. 1 inch = about 8 miles. 1909.—Newton, R. B., 2.
 AMERICA (CENTRAL).
 MEXICO. Sierra de Concepción del Oro. $\frac{1}{25,000}$. 1909.—Bergeat, A., 3.
 WEST INDIES. Haitian Republic (Central). $\frac{1}{150,000}$. 1909.—Tippenhauer, L. G.
 AMERICA (NORTH).
 ALASKA. Chitina copper-belt. 1 inch = 4 miles. 1909.—Moffit, F. H.
 —. Gold-placers, copper & coal localities (*various*). 1909.—Brooks, A. H., 2.
 —. Ketchikan & Wrangell Districts (*various*). 1908.—Wright, F. E., 4.
 —. Porcupine R. 1 inch = 10 miles. 1908.—Kindle, E. M.
 —. Seward Peninsula. 1 inch = 16 miles. 1908.—Knopf, A.
 —. Yukon-Tanana Region. 1 inch = 4 miles. 1909.—Prindle, L. M.
 Lake Superior pre-Cambrian. 1 inch = 70 miles. 1909.—Van Hise, C. R., 3.
 Palaeogeographic maps (*various*). 1909.—Willis, B.
 Pre-Cambrian Geology. 1 inch = 250 miles. 1909.—Van Hise, C. R., 3.
 CANADA. 1 inch = 100 miles. 1909.—See BRITISH ASSOC., 2.
 —. Alberta, Manitoba, & Saskatchewan Cretaceous Coal-Areas. 1 inch = 35 miles. 1909.—Dowling, D. B.
 —. British Columbia. Alberni District. 1 inch = 3 miles. 1908.—See BRIT. COLUMB., 4.
 —. Nova Scotia (*various*). 1909.—Woodman, J. E., 2.
 —. Ontario. Algoma & Thunder Bay. 1 inch = 8 miles. 1909.—Wilson, W. J.
 —. —. (Eastern). 1 inch = 20 miles. 1908.—Adams, F. D., 3.

AMERICA (NORTH).

CANADA. Ontario (Eastern). Gowganda Mining District. 1 inch = 1 mile. 1909.—Collins, W. H.
 —. —. Lake Wendigokan Region. 1½ inches = 1 mile. 1909.—Moore, E. S.
 —. —. Matawin R. Iron-Ores. 2 inches = 1 mile. 1908.—Hille, F.
 —. Yukon Territory. Whitehorse Copper-Belt (*various*). 1909.—McConnell, R. G. [See also Alaska.]
 UNITED STATES.
 ARIZONA (Western). 1 inch = 18 miles. 1908.—Lee, W. T.
 ARKANSAS. 1 inch = 23 miles. 1908.—Branner, J. C., 2.
 —. Caddo Mts. 1 inch = 2 miles; & Ouachita Mts. 1 inch = about 7 miles. 1909.—Purdue, A. H.
 CALIFORNIA. Coalinga Oil-District. 1 inch = 2 miles. 1908.—Arnold, R., 6.
 —. Taylorsville Region. 1 inch = 20 miles; Honey Lake. 1 inch = 4 miles; & Indian Valley. 1 inch = 1 mile. 1908.—Diller, J. S., 2.
 CAROLINA (North). Cid District. 1 inch = 2¼ miles. 1909.—Pogue, J. E., *fil.*
 COLORADO. Boulder Co. 1 inch = 1 mile. 1909.—George, R. D.
 —. Empire District. 1 inch = 600 yards; & Georgetown District. 1 inch = 1 mile. 1908.—Spurr, J. E., 4.
 — & UTAH. Book Cliffs Coalfield. 1 inch = 6 miles. 1909.—Richardson, G. B.
 IDAHO (Northern) & MONTANA (North-Western). 1 inch = 22 miles. 1909.—Calkins, F. C.
 KENTUCKY. Kenova. 1 inch = 2 miles. 1908.—Phalen, W. C.
 MAINE. 1 inch = 23 miles. 1909.—Clapp, F. G., 2.
 MISSOURI. Morgan Co. 1 inch = 1½ miles. 1909.—Marbut, C. F.
 —. Pike Co. 1 inch = 1½ miles. 1908.—Rowley, R. R.
 —. St. François & Washington Cos. (*various*). 1909.—Buckley, E. R.
 MONTANA. Great Falls Coalfield. 1 inch = 2 miles. 1909.—Fisher, C. A., 2.
 —. Great Falls District. 1 inch = 4 miles. 1909.—Fisher, C. A., 3.
 NEBRASKA. South Dakota & Wyoming Tertiary Deposits. 1 inch = 30 miles. 1909.—Osborn, H. F.
 NEVADA. Tonopah. 1 inch = 640 yards. 1909.—Burgess, J. A.
 NEW JERSEY. 1 inch = 12 miles. 1909.—Lewis, J. V.
 NEW YORK. Brewster District. 2 inches = 1½ miles. 1909.—Kæberlin, F. R.

AMERICA (NORTH).

UNITED STATES.

- NEW YORK. Iron-Ore Districts (*various*). 1908.—Newland, D. H., 3.
 —. Lake Seneca, Geneva & Ovid. 1 inch = 1 mile. 1909.—Luther, D. D.
 —. Remsen District. 1 inch = 1 mile. 1909.—Miller, W. J., 2.
 —. Theresa. 1 inch = 2 miles. 1909.—Cushing, H. P.
 OREGON. Harney Basin. 1 inch = 6 miles. 1909.—Waring, G. A., 2.
 —. Portland. 1 inch = 1 mile. 1909.—Darton, N. H., 2.
 PENNSYLVANIA. Cornwall District (*various*). 1908.—Spencer, A. C.
 — (S.E.). Newark Series. 1 inch = 6 miles. 1908.—Wherry, E. T.
 UTAH. Uinta Mts. (Western). 1 inch = 2 miles, $3\frac{1}{2}$ inches = about 53 miles. 1909.—Atwood, W. W.
 WESTERN STATES. Coal & Lignite Districts (*various*). 1909.—Campbell, M. R.
 WYOMING. Casper & Laramie. 1 inch = 20 miles; & Embar and Landar. 1 inch = 16 miles. 1908.—Darton, N. H.
 —. Laramie Basin. 1 inch = miles. 1909.—Darton, N. H., 3.

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- ARGENTINA. Buenos Aires. $\frac{1}{1,900,000}$
 1907.—Lehmann-Nitsche, R.
 —. Mahuida plumbiferous deposits. $\frac{1}{25,000}$. 1909.—Michaelis, S.
 BRAZIL. Bahia. 1 inch = 65 miles. 1909.—Branner, J. C.
 —. Mato Grosso. $\frac{1}{2,000,000}$. 1908.—Lisboa, M. A. R.
 — (South). Coalfields. $\frac{1}{2,000,365}$. 1908.—See BRAZIL.
 BRITISH GUIANA. 1 inch = 10 miles. 1906.—Harrison, J. B., *ſc*.
 PERU. Mrococha District. $\frac{1}{50,000}$. 1908.—Jochamovitz, A.

ARCTIC REGIONS.

- GREENLAND. East Coast. $\frac{1}{2,000,000}$. 1909.—Nordenskjöld, O.
 WEST SPITZBERGEN. $\frac{1}{2,000,000}$. 1909.—Geer, G. de.

ASIA.

- DUTCH EAST INDIES. Sumatra. Batak District. $\frac{1}{400,000}$. 1909.—Stegmann, H.
 INDIA. Burma. Ondwe & Yenangyaung. 1 inch = 4 miles; Ondwe, 1 inch = 1 mile. 1909.—Pascoe, E. H.
 —. Payagyigon-Ngashandaung Oil-field. 1 inch = 8 miles & 1 inch = 1 mile. 1909.—Cotter, G. de P.
 —. Himalaya Mts. 1 inch = 40 miles. 1908.—Burrard, S. G.
 —. Rajpipla State. 1 inch = 4 miles. 1908.—Bose, P. N.
 —. Shan States. Bawdwin. 1 inch = 2 miles. 1909.—La Touche, T. D.

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 —. —. —. Zone 13, col. ix. Wajima, by T. Ogawa. 1908. See JAPAN. [With explanations in Japanese] & 1 toponr.
 PERSIA (North - West). $\frac{1}{840,000}$. 1909.—Stahl, A. F.
 SIBERIA. $\frac{1}{3,800,000}$ & $\frac{1}{12,500,000}$. 1909.—Launay, L. de.
 —. Amur District. $\frac{1}{3,800,000}$. 1909.—Launay, L. de.
 —. —. Amgun Basin. $\frac{1}{210,000}$. 1908.—Khlaponin, A.
 —. —. Angara Basin $\frac{1}{2,500,000}$; Kirghiz Steppe $\frac{1}{3,000,000}$; Lena District $\frac{1}{2,300,000}$; Tomsk Gov. $\frac{1}{1,680,000}$; & Yenisei District $\frac{1}{3,500,000}$. 1909.—Launay, L. de.
 —. —. Zeia R. $\frac{1}{84,000}$. 1908.—Khlaponin, A., 2.
 —. Vladivostok District. 1 inch = about 30 miles. 1909.—Wittenburg, P. von, 2 & 4.
 —. Yenisei Gov., Achinsk District. $\frac{1}{210,000}$. 1909.—Edelstein, I., 3.
 —. —. S. W. District. $\frac{1}{210,000}$. 1908.—Meister, A.
 TURKESTAN. Derwaz District. 1 inch = 10 versts. 1908.—Edelstein, I.
- AUSTRALASIA.
 NEW SOUTH WALES. Bathurst & Mudgee Districts, with part of N.E. watershed of the Macquarie River. 1 inch = 12 miles. 1909.—Harper, L. F.
 —. Canobolas Mts. 1 inch = 1 mile. 1909.—Süssmilch, C. A.
 NEW ZEALAND. 1 inch = 100 miles. 1908.—Marshall, P.
 —. Mount Bonar District; Murray & Waitaha Districts; Toarohoa District; Totara District; and Whitecombe Pass District, all 1 inch = 1 mile. 1908.—Morgan, P. G.
 —. Otago. Dunedin. Signal Hill. 1 inch = about $\frac{1}{2}$ mile. 1909.—Cotton, C. A.
 —. —. Mid-Wakatipu, 1 inch = 1 mile; Shotover, 1 inch = 1 mile; Skipper's Creek & Soho, 1 inch = 1 mile; & Skipper's Point Alluvial Goldfield, 4 inches = $\frac{1}{2}$ mile. 1909.—Park, J.
 QUEENSLAND. Cloncurry copper-district. 1 inch = 8 miles. 1908.—Ball, L. C.
 —. Mt. Flinders & Fassifern Districts. 1 inch = 4 miles; Mt. Flinders, 1 inch = 1 mile. 1909.—Jensen, H. I., 5.

AUSTRALASIA.

- SOUTH AUSTRALIA.** Mount Lofty. 2 inches = 9 miles. 1908.—Woolnough, W. G.
- TASMANIA.** Leven River & Gunn's Plains. 4 inches = 1 mile. 1909.—Twelvetrees, W. H., 4.
- Lisle District. 1 inch = 2 miles, & 2 inches = 1 mile. 1909.—Twelvetrees, W. H., 3.
- North Dundas District. 2½ inches = about 1 mile. 1909.—Ward, L. K.
- N. W. Coast, from R. Tamar to Circular Head. 1 inch = 3 miles. 1909.—Stephens, T.
- VICTORIA.** Department of Mines (*various*). 1909.—*See* VICTORIA.
- Gippsland. Wellington R. & Dolodrook Creek. 1 inch = ½ mile. 1909.—Dunn, E. J., 14.
- Mornington Co. Wonthaggi, &c., nos. 67. N.E., S.E., & 76. S.W. 1 inch = ½ mile. 1909.—Ferguson, W. H.
- Stawell, Ararat, Beaufort, Avoca, and Ballarat West; Bendigo, Huntly, & Malmsbury; Pitfield, Rokewood, & Trentham; Dargo & Bogong. *All* 1 inch = 2 miles. 1909.—Hunter, S.
- WESTERN AUSTRALIA.** 1 inch = 150 miles. 1908.—Maitland, A. G.
- Coolgardie Goldfield. Bonnievale. 1 inch = 20 chains; & Kunaling, 1 inch = 40 chains. 1908.—Gibson, C. G.
- Greenbushes Tinfield. 4 inches = 1 mile; & Yilgarn Goldfield. Southern Cross. 4 inches = 1 mile. 1908.—Woodward, H. P.
- Kanowna. North Lead. 1 inch = 8 chains. 1908.—*See* W. AUSTRAL.
- Kanowna to South Australia (proposed line of railway). 1 inch = 20 miles. 1909.—Gibson, C. G., 3.
- Murchison Goldfield. Barambie. 1 inch = 20 chains; & Wiluna. 1 inch = 20 chains. 1908.—Gibson, C. G., 2.

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- BOHEMIA.** Böhmisch-Wernersdorf. $\frac{1}{25,000}$. 1909.—Petrascheck, W., 2.
- Deutschbrod iron-districts. $\frac{1}{30,000}$. 1909.—Hinterlechner, K.
- Mittelgebirge. Lebositz. $\frac{1}{25,000}$. 1909.—Irgang, G.

EUROPE.**AUSTRIA-HUNGARY.**

- CARNIC ALPS.** $\frac{1}{25,000}$. 1909.—Spitz, A.
- Adarnello Group. $\frac{1}{75,000}$. 1908.—Salomon, W.
- DALMATIA.** $\frac{1}{1,300,000}$. 1909.—Schubert, R. J.
- Dinaric slopes. $\frac{1}{600,000}$. 1909.—Cvijić, J., 2.
- Kain. 1 inch = about 2 miles. 1909.—Schubert, R. J., 2.
- GORITZ.** Ternover Plateau. $\frac{1}{23,000}$. 1909.—Kossmat, F.
- SALZBURG.** Radstadt and Radstädter Tauern. $\frac{1}{20,000}$. 1908.—Uhlig, V.
- STYRIA.** Sausal District. $\frac{1}{50,000}$. 1909.—Leitmeier, H.
- Weitendorf. $\frac{1}{75,000}$. 1909.—Leitmeier, H., 2.
- TYROL.** Jackel Mt. or Endkopf. $\frac{1}{20,000}$. 1908.—Lachmann, R.
- Vorarlberg. Brezgenzer Wald. $\frac{1}{25,000}$. 1908.—Wepfer, E.
- HUNGARY.** Hermannstadt District. $\frac{1}{75,000}$. 1909.—Phleps, O.
- Hunyad Co. Vaspatak iron-ore deposits. $\frac{1}{30,000}$ & $\frac{1}{2,000}$. 1909.—Hotz, W.
- Krassó-Szörény Kom. (*various*). 1908.—Rozloznik, P.
- Northern Carpathian Mts. 1 inch = about 35 miles. 1907.—Uhlig, V.
- Vertes Mts. $\frac{1}{75,000}$. 1908.—Tager, H.
- BAVARIA.** Franconian Alps. $\frac{1}{600,000}$. 1908.—Reuter, L.
- Bad Steben & Lichtenberg District. $\frac{1}{95,000}$. 1908.—Walther, K.
- BELGIUM.** Campine Pliocene. $\frac{1}{500,000}$. 1908.—Rutot, A.
- Liège. Chanxhe-Sprimont. $\frac{1}{40,000}$. 1909.—Frapont, C.
- Louveigné. $\frac{1}{40,000}$. 1909.—Fourmarier, P., 6.
- Namur. Wépion & Fosse District. $\frac{1}{40,000}$. 1908.—Fourmarier, P., 5.
- DENMARK.** Geologiske Undersøgelse. $\frac{1}{100,000}$. Faxø Bay & Stevns Klint. 1908.—Milthers, V.
- Jütland, Fyen & Zealand Paleocene Clays. $\frac{1}{2,000,000}$. 1907.—Grønwall, K. A., 2.
- FRANCE.** Service de la Carte géologique. Carte géologique détaillée de la France. $\frac{1}{80,000}$. Aug. M. Lévy (Directeur).
21. Montdidier. 1909.—Mercey, — de.
42. Tréguier. 1909.—Barrois, C.
178. Grenoble. 1909.—Kilian, W.
198. Privas. 1909.—Boule, M.

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- FRANCE. Auvergne volcanoes. $\frac{1}{1,000,000}$;
& Mont-Dore Massif. $\frac{1}{320,000}$ 1909.
—Glangeaud, P., 4.
—Puy-de-Dôme. $\frac{1}{500,000}$
1909.—Glangeaud, P., 3.
—Chaine volcanique de
la Sioule. $\frac{1}{200,000}$ 1909.—Glangeaud,
P., 4.
—Nord coalfield. $\frac{1}{160,000}$ 1909.
—Barrois, C., 11.
—1908.—Defline, —.
—Paris Basin. Hypsometrical
map of the Surface of the Chalk.
1 inch=about 52 miles. 1909.—
Dollfus, G. F.
—Provence. Rognes earthquake.
 $\frac{1}{250,000}$ 1908.—Lemoine, P., 4.
—Pyrenees. Belcaire & Pui-
laurens District, also Caudiès &
Lesquerde Districts, both $\frac{1}{80,000}$
1908.—Carez, L.
—(Central and Eastern).
 $\frac{1}{2,000,000}$ 1908.—Bertrand, L., 2.
—Vendée coalfield. $\frac{1}{40,000}$ & $\frac{1}{160,000}$
1907.—Laromiguière, J.
—& SPAIN. Eastern Pyrenees &
Catalonia. 1 inch=about 16 miles.
1909.—Mengel, O.

GERMANY. Potassic Salt - Districts
(various). 1907.—Beyschlag, F.,
2.

BADEN. Geologische Landesanstalt.
Geologische Karte, $\frac{1}{25,000}$ no. 23.
Heidelberg. 1909.—Andreae, A.

HANOVER. Bremen & Lauenburg.
 $\frac{1}{750,000}$ 1908.—Schucht, F.
—Hildesheim District. $\frac{1}{100,000}$
1909.—Windhausen, A.

RHENISH PRUSSIA. Nenwied.
 $\frac{1}{100,000}$ 1908.—Mordziol, C.

SAXONY. Freiberg Mining District.
 $\frac{1}{35,000}$ 1909.—Beck, R.

—Meissen. 1 inch = about
1 mile. 1909.—Barwitzke, J. E.

SILESIA. Oppeln District. Dzieck-
owitz. $\frac{1}{25,000}$ 1906.—Ahlburg, J.

—Upper Lausitz: Görlitz Dis-
trict. $\frac{1}{100,000}$ 1909.—Pietzsch, K.

—& BOHEMIA. Friedland,
Wünschelburg, & Braunau Dis-
trict. $\frac{1}{100,000}$ 1908.—Berg, G.

THURINGIA (or Saxe - Weimar).
Apolda. $\frac{1}{50,000}$ 1908.—Compter,
G.

MERSEBURG (or Thuringia). Kyff-
häuser District. $\frac{1}{200,000}$ 1909.—
Fulda, E.

WESTPHALIA. Münster Basin.
(various). 1908.—Krusch, P.,
1 & 2.

GREECE. Cyclades. Naxos, 1 inch=
 $1\frac{1}{2}$ miles. 1909.—Papavasiliou, S. A.

HOLLAND, Belgium, & Westphalia.
Coalfields (various). 1909.—Gracht,
W. A. J. M. Van W. van den.

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HOLLAND, Belgium, &c. Meuse Valley.
 $\frac{1}{1,500,000}$ 1908.—Briquet, A., 10.

ITALY. Abruzzi. Majella Group.
 $\frac{1}{100,000}$ 1909.—Sacco, F., 9.

—Liguria. Albenga, Tanaro
District, and the Neva Valley.
 $\frac{1}{100,000}$ 1909.—Zaccagna, D.

—Lombardy. Monte Guglielmo.
 $\frac{1}{150,000}$ 1909.—Tilmann, N.

—Molise. $\frac{1}{500,000}$ 1909.—Sacco,
F., 10.

—Umbria. Rosia. $\frac{1}{30,000}$ 1908.
—Vinassa de Regny, P. E.

—Sardinia. Alghera copper-
district. $\frac{1}{100,000}$ 1909.—Stella, A.

—Venetia. Veronese Alps.
Negrar Valley District. $\frac{1}{37,500}$ 1908.
Boden, K.

SICILY. Peloritani Hills & Taormina
District. $\frac{1}{25,000}$ 1909.—Limanowski,
M.

NORWAY. Bergen District. 1 inch=
15 kilom. 1909.—Kolderup, C. F., 3.

RUMANIA. Dobrudsha District.
 $\frac{1}{200,000}$ 1908.—Kittl, E.

—Tulcea District.
 $\frac{1}{200,000}$ 1908.—Pascu, R.

—Moldavia. Cadăesti & Rădu-
caneni District. $\frac{1}{200,000}$ 1909.—Se-
vastos, R.

—Walachia. Dambovitz & Oltu
Valleys. $\frac{1}{500,000}$ 1909.—Popescu-
Voitesti, I., 2.

—Ploesti District. $\frac{1}{500,000}$
1909.—Teisseyre, W.

RUSSIA. Baltic Provinces. $\frac{1}{1,500,000}$
1909.—Doss, B.

—Caucasus. Gov. Baku. Swya-
toï. 1 inch = 250 yards. 1908.—
Golubyatnikov, D., 2.

—Gov. Tiflis. Chatma.
1 inch = 2 versts. $\frac{1}{64,000}$ 1907.—Ka-
litzki, K.

—Finland. Finnish Lapland:
auriferous districts. $\frac{1}{100,000}$ 1907.—
Fiercks, C.

—Lake Ladoga. Pit-
käranta District. $\frac{1}{40,000}$ 1907.—
Tanner, V.

—Uleborg (various).
1907.—Leiviskä, I., 1 & 2.

—Finnoscandia. $\frac{1}{8,000,000}$ 1908.—
Sederholm, J. J.

—Kharkov. 1 inch = 10 versts.
 $\frac{1}{80,000}$ 1908.—Yakovlev, N., 2.

—Kuban District. Nephthyanya
& Shirvanskaya. $\frac{1}{42,000}$ 1909.—
Chernotzki, S. I.

—Perm. Nijni Tagilsk. 1 inch
= 10 versts. 1908.—Koninchevski,
L.

—Nijni Tagilsk. $\frac{1}{810,000}$
1909.—Lannay, L. de.

—Samara Gov., Uzen. $\frac{1}{840,000}$
1909.—Tikhonovitch, N.

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- RUSSIA. Ufa. Arkhangelski Mines. 1 inch = 3 verst. $\frac{1}{126,000}$. 1908.—Konichevski, L.
- , Urals. Wichéra R. District. $\frac{1}{168,000}$. 1909.—Duparc, L., 2.
- SPAIN. Cadiz. Puerto de Sta. Maria, Jerez de la Frontera, & Arcos de la Frontera. $\frac{1}{300,000}$. 1909.—Bonarelli, G., 2.
- SWEDEN. Dalsland. Stora Strand District (*various*). 1909.—Johansson, H. E.
- , Jemtland (glacial maps, *various*). 1909.—Carlzon, C.
- , Jemtland, Östersund, Offerdal, Ånn. $\frac{1}{1,000,000}$ & $\frac{1}{200,000}$. 1909.—Hægbohm, A. G.
- , Norrland. Nordingrå. 1 inch = 5 kilom. 1909.—Hægbohm, A. G., 2.
- , Stone Industry Districts. $\frac{1}{3,000,000}$. 1909.—Hedström, H.
- SWITZERLAND. $\frac{1}{1,500,000}$. 1908.—Schardt, H.
- , Aar massif (Western). 1 inch = 7 kilom. 1909.—Buxtorf, A., 2.
- , Bernese Alps. Hornfluh. $\frac{1}{50,000}$. 1904.—Jaccard, F.
- , Berne. Lauterbrunnen Valley. $\frac{1}{50,000}$. 1905.—Helgers, J. H. E.
- , Meiringen. $\frac{1}{50,000}$. 1901.
- , Lugeon, M., 2.
- , Fribourg. Montreux. $\frac{1}{25,000}$. 1901.—Lugeon, M., 2.
- , Valais. Binn Valley. 1 inch = 3 kilom. 1909.—Desbuissons, L.
- , St. Maurice. $\frac{1}{50,000}$. 1901.—Lugeon, M., 2.
- , Vaud. Rubli - Gummfluh. $\frac{1}{25,000}$. 1908.—Jaccard, F., 4.
- TURKEY. Rumelia. Pliocene valley. $\frac{1}{250,000}$. 1909.—Cvijić, J.

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- ENGLAND AND WALES. Geological Survey. 1-inch Geological Map. New Series.
- Sheet 34. Redcar (Drift). 1909.—Barrow, G.
- 35 & 44. Robin Hood's Bay & Whitby (Drift). 1909.—Strangways, C. Fox.
43. Pickering Moor (Drift). 1909.—Strangways, C. Fox.
53. Stonegrave (Drift). 1909.—Strangways, C. Fox.
54. Scarborough (Drift). 1909.—Strangways, C. Fox.
55. Speeton Cliff (Drift). 1909.—Strangways, C. Fox.
63. York (Drift). 1909.—Strangways, C. Fox.
65. Bridlington Quay (Drift). 1909.—Strangways, C. Fox.
71. Selby (Drift). 1909.—Strangways, C. Fox.

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- , Cardiganshire. Plynlimon & Port Erwyd. $1\frac{1}{2}$ inches = 1 mile; also Rheidol Gorge between Port Erwyd and Parson's Bridge. 12 inches = 1 mile. 1909.—Jones, O. T.
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- , Truro District. 1 inch = 4 miles. 1909.—Green, U.
- , Cumberland. Peers Gill and Kirk Fell. 6 inches = 1 mile. 1909.—Dwerryhouse, A. R.
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- , Shetland (S.E. end of). 1 inch=3½ miles. 1908.—Dron, R. W.
- ICELAND. $\frac{1}{2,000,000}$. 1908.—Pjeturs-son, H.
- , Kjalvegur. $\frac{1}{35,000}$. 1908.—Kornowicz, M. von.
- MADAGASCAR $\frac{1}{5,000,000}$ northern part $\frac{1}{500,000}$ & Diego-Suarez $\frac{1}{200,000}$. 1908.—Lemoine, P.
- WORLD, distribution of gold (*various*). 1908.—Maclaren, J. M.
- Máramaros Ko. (Hungary).—Posewitz, T.
- Marattiopsis.—Seward, A. C.
- Marau Valley (Tyrol).—Blaas, J.
- Marbela (Trinidad).—Guppy, R. J. L.
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- , Sweden.—Hedstræm, H.
- , works, Messrs. Farmer & Brindley's.—Howe, J. A.

- Marble Arch Caves (Fermanagh).—Brodrick, H., 2.
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- Marche (Belgium).—Andrimont, R. d', 2; Putzeys, E.
- Marches (Italy).—Ugolini, R.
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- Maros Valley (Hungary).—Kadić, O.; Pálfy, M. von, 2.
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- , Siena.—Barbiansi, A.
- , Styria.—Bach, F., 2 & 4.
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- , Tongking.—Deprat, J., 2.
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- , Siebengebirge basalt.—Bleibtreu, K.
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- , Cold Bokkeveld.—Stuart, M., 2.

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 —, Mysore.—See MYSORE.
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 —, Ontario.—Corkill, E. T.
 —, recording geological data in.—Field, T. F.
 —, Rhodesia.—See RHODESIA, Chamber of Mines.
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 —, metalliferous.—Louis, H.
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 —, America(N.).—Arnold, R., 2; Dall, W. H., 2; Olcott, T. F.; Willis, B.
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 —, France.—Bézier, T.; Douvillé, R.; Glugeaud, P., 2; Joleaud, L., 2; Mayet, L.; Roman, F.
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 —, Bluff-Deposits, Wisconsin.—Squire, G. H.
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 —, R. (U.S.A.).—Duncanson, H. B.
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 —, New York State.—Clarke, J. M.
 —, Paris Natural History.—*See* PARIS.
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- Neu-Diepenbrock Pit (Selbeck).—Bartling, R., 2.
- ‘Neues Jahrbuch f. Geologie,’ 1807–1907.—Nægele, E.
- Neuquen (Argentina).—Burckhardt, C., 3; Kurtz, F., 2; Roth, S., 2.
- Neurod (Silesia).—Tannhauser, F.
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- Neuwied (Rh.-Pruss.).—Mordziol, C.
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- Nevada (U.S.A.).—Burgess, J. A.; Chase, E. E.; Gidley, J. W.; Hayes, C. W.; Jenney, W. P.; Kraus, E. H.; Larsh, W. S.; Mendenhall, W. C., 3; Palache, C.; Ransome, F. L.
- Nevada, Sierra (Mex.).—Freudenberg, W., 4.
- New Amsterdam (Indian Ocean).—Drygalski, E. von.
- New Brunswick (Canada).—Ells, R. W., 1 & 2; Lambe, L. M., 2.
- New Caledonia (Pacific).—Piroutet, M.
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- New Guinea (Pacific).—Bøhm, G.; Nicholls, C. H.
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- New Mexico (U.S.A.).—Campbell, M. R.; Ford, W. E., 4; Girty, G. H., 2; Keyes, C. R., 1–5.
- New Rand (O.R.C.).—Sawyer, A. R.
- New Red Sandstone, Devon.—Thomas, H. H.
- New South Wales.—Cambage, R. H.; Card, G. W.; Chapman, F., 3 & 4; Cotton, L. A., 1 & 2; David, T. W. E., 1 & 4; Dun, W. S.; Etheridge, R., *fl.*, 1–4; Hall, T. S.; Harper, L. F.; Jensen, H. I., 1–4; Kraus, E. H.; Laseron, C. F.; Mingaye, J. C. H.; Pittman, E. F.; Süßmilch, C. A.; Thomson, J. A.; Woodward, A. S., 5; *see also* NEW SOUTH WALES.
- New Uln (Minn.).—Sardeson, F. W., 2.
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- , sub-Antarctic Is.—Farr, C. C.
- Newark (Pa.).—Wherry, E. T.
- Newbury (Berks.).—White, H. J. O.
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- Newcastle-upon-Tyne (Northumberland).—Merrick, E.
- Newfoundland.—Symons, B.
- Newport (Mon.).—Strahan, A. H.
- Ngashandaung (Burma).—Cotter, G. de P.
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- Niagara Falls (N. Am.).—Spencer, J. W.
- Niagaran, Tennessee.—Pate, W. F.
- dolomites, Ontario.—Brassler, R. S. [Bassler].
- Nickel, Broken Hill (N.S.W.).—Mingaye, J. C. H.
- , Ontario.—Blake, G. S.
- , Piedmont.—Priechausser, M.
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- Nordingrå (Norrlund).—Hægbohm, A. G., 2.
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- Norian river-delta, Tyrol.—Schaffer, F. X.
- Noric fauna, Spiti.—Diener, C., 3.
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- Norrland (Sweden).—Hægbohm, A. G., 2.
 Northampton (W. Austral.).—See WESTERN AUSTRALIA, 2.
 Northamptonshire.—Andrews, C. W., 1 & 2; Barrow, G.
 North Carolina.—See Carolina.
 North I. (N.Z.).—Marshall, P., 5.
 North Sea, basin of.—Kendall, P. F., 4.
 North Third Farm (Stirling).—Martin, N.
 Northumberland.—Heslop, M. K.; Merri-
 cke, E.; Woolcott, D., 4-6.
 Northwood (Middlesex).—Kidner, H.
 Norway.—Andersson, J. G.; Collett,
 R.; Grieg, J. A.; Holmquist, P. J.;
 Kolderup, C. F., 1-3; Rekstad, J.;
 Sederholm, J. J.; Stutzer, O., 2; see
also NORWAY.
 Norwich (Norfolk).—Long, S. H.
 Notched fossilized wood.—Rutot, A., 6.
Notothyris.—Girty, G. H., 2.
 Nottinghamshire.—Vernon, R. D.
 Nova Scotia (Canada).—Fletcher, H.;
 Twenhofel, W. H.; Woodman, J. E.,
 1 & 2; see *also* NOVA SCOTIA.
 Novara Prov. (Piedmont).—Prießhauser,
 M.
 Novaya Zemlya (Arctic).—Roussanov,
 V.; Thoulet, J.
 Novo Uzenski (Samara Gov.).—Tikhonovitch, N.
Nubecularia.—Chapman, F., 4.
 Nubian Sandstone, Egypt.—Beadnell,
 H. J. L.; Newton, R. B.
Nucleospira.—Reed, F. R. C.; Vinassa
 de Regny, P. E., 4.
Nucula.—Benecke, E. W.; Girty, G.
 H., 2; Healey, M.; Krause, P. G.;
 Reed, F. R. C.; Wollemann, A.
 Numidia (Algeria).—Daresté de la Cha-
 vanne, J., 2.
Nummulina.—Heim, Arn.
Nummulites.—Douville, H., 4; Popescu-
 Voitesti, J., 1 & 3; Provale, I.; Sil-
 vestri, A., 3; Tæger, H.
 Nummulites, abnormal forms of.—
 Popescu-Voitesti, J., 1 & 3.
 Nummulitic beds, E. Europe.—Boussac,
 J., 5; Douville, H., 3.
 ———, France.—Boussac, J., 3 & 4;
 Degrange-Touzain, A., 1 & 5.
 ———, Italy.—Douville, R., 2.
 Nyadidæ, Tertiary.—Kobelt, W.
Nyctitherium.—Matthew, W. D.
 Nyergesújfalu (Hungary).—Liffa, A.
 NYHOLM, E. T., *Obit.*—Borgstrøm, L.
 H.
 Nyiresfalva (Hungary).—Schafarzik, F.,
 2.
Nyssites.—Engelhardt, H.
 Oases, formation of.—Bennett, F. J.
 Oaxaca Valley (Mex.).—Conzatti, C.
 Oban (Argyll).—Kynaston, H.
 Oberscheld (Hesse).—Bunneller, C.
 Obertiefenbach (Styria).—Bach, F., 2.
 Obi-Nioy Basin (Bokhara).—Edelstein,
 I., 2; Kler, M. O.
Obolus.—Moberg, J. C.
 Obsidian, Malay Peninsula.—Scrivenor,
 J. B., 5.
 Obsidianites, Victoria.—Grant, K.; Sum-
 mers, H. S.
 Oceans, age of the.—Sollas, W. J., 2.
 Oceanic deposits.—Burnet, A., 2; Thou-
 let, J.
 Ocellar structure in dolerite.—Macnair,
 P., 2.
 Ochoz (Moravia).—Křiz, M.
 Ochre, Kemberg.—Linstow, O. von, 2.
 Oddáhraun (Iceland).—Erkes, H.
 Odenwald (Germany).—Becker, E., 1 &
 2; Freudenberg, W., 5; Kleinm, G., 1
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Odontaspis.—Leriche, M., 9; Trabucco,
 G.
Odontocaulis.—Brassler, R. S. [Bassler].
Odontopteris.—Arber, E. A. N.; Schus-
 ter, J., 2.
Odontopteryx.—Pycraft, W. P.
Odontostoma.—Grünwall, K. A., 2.
 Ofen Mts. (Hungary).—Lœrenthey, I.
 von, 2.
 Offerdal (Jemtland).—Hægbohm, A. G.
Ogmophis.—Lambe, L. M.
 Ogowe (French Congo).—Arsandaux, H.
 Ohio (U.S.A.).—Carney, F.; Condit, D.
 D.; Færste, A. F.; Lane, A. C., 3;
 Phalen, W. C.; Prosser, C. S.
 Oignies (Namur).—Maillieux, E., 9.
 Oil-shales.—Caldwell, W.; Woodward,
 A. S., 5; see *also* NEW SOUTH WALES
 & Petroleum.
 Oise R. (France).—Briquet, A., 7;
 Morellet, L.
 Okapi & fossil Giraffidæ.—Fraipont, J.
 Oklahoma (U.S.A.).—Girty, G. H., 3;
 Gould, C. N.
 O Le Munga Mu (Savaii).—Furlong, G.
 Old Hall Mine (Victoria).—Dunn, E. J.,
 3.
 Old Red Sandstone, Caithness.—Carn-
 thers, R. G., 2.
 ———, Carrick.—Smith, J., 2.
 ———, Selkirk.—Pringle, J., 2.
 ———, Shetland.—Flett, J. S.;
 Traquair, R. H.
 Oldenburg (Germany).—Scholz, E.
 Oldhamite in Allegan meteorite.—
 Tassin, W.
 Oligocene, Algeria.—Savornin, J., 2.
 —, Alsace.—Færster, B., 2.
 —, Belgium.—Fraipont, C.; Leriche,
 M., 13; Schmitz, G.
 —, France.—Gaillard, C.; Glangeaud,
 P., 2; Vasseur, G.
 —, Madagascar.—Douville, R., 4.
 —, Palermo.—Silvestri, A., 3.
 —, Toledo.—Douville, H., 2.
 —, Westphalia.—Destinez, P.
 —. See *also* Tertiary.
 Oligoclase, melting-point of.—Schmidt,
 Marg.
Olivea.—Toula, F., 4.
 Olivine-crystals.—Gonnard, F., 2 & 3.
 — group.—Backlund, H., 2.

- Olloy (Namur).—Maillieux, E., 9.
 Olmütz (Moravia).—Trauth, F., 2.
 Olne (Liège).—Renier, A., 3.
 Olonetz Gov. (Russia).—Vollosov, K. A.;
 Walter, W.
 Oltu Valley (Rumania).—Popescu-
 Voitesti, J., 2.
 Olympic Mts. (Wash.).—Arnold, R.
Ommatodiscus.—Principi, P., 2.
Omphalocyclus.—Silvestri, A., 2.
Omphaloptycha.—Ahlburg, J.
Omphalotrochus.—Girty, G. H.
Omphyma.—Stepanov, P.
 Ondwe (Burma).—Pascoe, E. H.
Oncocylus.—Dal Piaz, G.
Oncophora deposits, Brünn. — Ržehák,
 A.
 Oncosine, Aosta Valley.—Piolti, G.
 Onega, Lake (Russia).—Walter, W.
 Onkuparinga R. (S. Austral.).—Wool-
 nough, W. G.
 Onondaga Co. (N.Y.).—Smith, B., 2.
 Ontario (Canada).—Adams, F. D., 3;
 Blake, G. S.; Brassler, R. S. [Bassler];
 Coleman, A. P., 2; Collins, W. H., 1 &
 2; Corkill, E. T.; Grant, C. C., 1 & 2;
 Gray, A.; Hille, F.; Moore, E. S.;
 Wilson, W. J.; *see also* BRITISH
 Assoc., 4.
 —, Lake (N. Am.).—Wilson, A. W. G.
Onychodus.—Eastman, C. R.
Oödictes.—Mathews, W. D.
 Oolites, Cracow.—Wójcik, K.
 —, Somerset.—Pringle, J.; Richard-
 son, L., 9.
 —, origin of.—Andrée, K., 2; Philippi,
 E., 2.
 —, siliceous.—Briquet, A., 4; Pohlig,
 H., 3.
 —, Whitby.—Brodrick, H., 1 & 4.
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 ziol, C., 3.
 — iron-ores.—Cayeux, L., 1 & 2; Mar-
 kov, K.
Operculina.—Trabucco, G.
 Ophiolitic rocks.—Jaccard, F., 2.
 Ophite, Portugal.—Souza-Brandão, V.
 Ophiuridea, Silurian.—Parks, W. A.; *see*
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Opis.—Krause, P. G.
Oppelia.—Haas, O.; Krause, P. G.;
 Rothpletz, A.; Steinmann, G., 6.
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 Oradna (Hungary).—Rozloznsnik, P.
 Oran (Algeria).—Flamand, G. B. M., 2-
 4; Jourdy, E., 1 & 2.
 Orange Grove (Transvaal).—Horwood,
 C. B.
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 Orbitoidae, Tertiary.—Prever, P. L., 3;
 Provale, I.
Orbitoides.—Guppy, R. J. L., 2; Silves-
 tri, A., 2.
Orbitolites.—Trabucco, G.
 Ordovician, America (N.).—Grabau, A.
 W., 1 & 2; Willis, B.
 Ordovician, Ayr.—Reed, F. R. C., 5.
 —, Belgium.—Malaise, C.
 —, Carnarvon.—Elles, G. L.; Travis,
 C. B., 3.
 —, Cardiganshire.—Jones, O. T.
 —, Grand-Manil.—Malaise, C., 2.
 —, Ireland.—Gardiner, C. I., 1 & 2;
 Reed, F. R. C., 2.
 —, Missouri.—Rowley, R. R.
 —, New South Wales.—Hall, T. S.
 —, New Zealand.—Isaacson, E. D.
 Ore-deposits, Algeria & Tunisia.—Sim-
 mersbach, B., 2.
 —, Colorado.—Loughlin, G. F.; Spurr,
 J. E., 1 & 2.
 —, contact - metamorphism & —
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 —, epochs of.—Lindgren, W., 2.
 —, Finland.—Trustedt, O.
 —, geology of.—Thomas, H. H., 3.
 —, German S.W. Africa.—Gagel, C.
 —, Hungary.—Rozloznsnik, P.
 —, India.—Holland, Sir T. H., 2.
 —, Japan.—Simmersbach, B.
 —, Madeira.—Ackermann, E.
 —, Mexico.—Ordóñez, E., 1 & 2;
 Villarello, J. D.
 —, oxidation-zone of.—Cornu, F., 4.
 —, Peru.—Jimenez, C. P.
 —, shoots in.—Chase, E. E.; Jen-
 nings, E. P.
 —, Siberia.—Launay, L. de.
 —, Switzerland.—Holz, W., 2.
 —, textbooks on.—Beck, R.; Maclaren,
 J. M.
 —, Tongking.—Dupouy, G.
 —, water &.—Cornu, F., 3.
 —, unsolved problems of. — Louis,
 H.
 —, values in.—Lindgren, W.
 —, volcanic action &.—Hixon, H. W.
 —. *See also* Gold, Iron, &c.
 Örebro (Sweden).—Johansson, H. E., 2;
 Munthe, H.
 Oregon (U.S.A.).—Arnold, R., 4; Camp-
 bell, M. R.; Dall, W. H., 2; Darton,
 N. H., 2; Diller, J. S.; Hayes, C. W.;
 Waring, G. A., 1 & 2.
 Organ Mts. (N. Mex.).—Ford, W. E., 4.
 Organic world, development of the.—
 Sollas, W. J., 2.
 Orleanais (France).—Combes, P.; Mayet,
 L.
 Ornamental stones, Sweden.—Hedström
 H.
 Orpington (Kent).—Dibley, G. E., 3.
Orta.—Sellards, E. H.
 Orthez (Basses-Pyrénées).—Degrange-
 Touzin, A., 1 & 3.
Orthis.—Mansuy, H., 2; Reed, F. R. C.;
 Sommer, K.
 Orthite.—Chernik, G. P., 1 & 2.
Orthoceras.—Clarke, J. M., 2; Girty, G.
 H., 2 & 3; Reed, F. R. C.; Sommer,
 K.
 Orthoclase.—Brauns, R., 3 & 4; Dittler,
 E., 3; Ford, W. E., 3; Paul, F.;
 Vigier, A.; *see also* Felspars.

- Orthonota*.—Mansuy, H., 2.
Orthophragmina.—Heim, Arn.
Orthotetes.—Girty, G. H., 2; Mansuy, 2; Reed, F. R. C.; Sommer, K.
 Ortler Alps (Tyrol).—Hammer, W.
Ortonia.—Reed, F. R. C.
 Oruro (Bolivia).—Ender, A.
Osmunda.—Penhallow, D. P.
 Osmundaceæ, Permian-Carboniferous. — Kidston, R., 2.
 —, Triassic. — Gwynne-Vaughan, D. T.
Osmundites.—Kidston, R., 2.
 Osnabrück (Hanover).—Haarmann, E., 1 & 2.
 Ossiferous fissures, Ightham.—Hinton, M. A. C.
 Östersund (Jemtland). — Hægbohm, A. G.
Osthimosia.—Canu, F., 2.
 Ostracoda, Carboniferous.—Girty, G. H., 2 & 3.
 —, Jurassic.—Chapman, F., 4; Dun, W. S.
 —, Silurian.—Chapman, F., 3; Første, A. F.; Stepanov, P.; Ulrich, E. O.
 —, Tertiary.—Mêhes, G.
 Ostrau (Silesia).—Canaval, R.; Kukuk, —.
Ostrea.—Burckhardt, C., 2; Krause, P. G.; Lemoine, P., 16; Newton, R. B., 2; Niedzwiedzki, J.; Tæger, H.; Toula, F., 4.
 — *latimarginata* in Burma.—Vredenburg, E.
 Ostricourt (Nord).—Barrois, C., 4; Bertrand, P., 4; Dollé, L.
 Otago (N.Z.).—Cotton, C. A.; Finlayson, A. M., 3; Park, J.
 Otford (Kent).—Chandler, R. H., 5.
Otodus.—Leriche, M., 9; Tæger, H.
Otolithus.—Toula, F., 4.
Ottokaria.—See BRAZIL.
 Ouachita Mts. (Ark.).—Purdue, A. H.
 Oubanghi River (Sudan).—Lacroix, A., 14; Lemoine, P., 15.
 Ouenza, Jebel (Algeria).—Gourguechon, G.
 Oulx (Piedmont).—Colombo, L., 3.
 Ourthe R. (Belgium).—Fourmarier, P., 9; Fraipont, C.
 Overthrusts, mechanics of.—Reade, T. M.
 —, Scandinavian.—Gregory, J. W., 8.
 —, Tintagel.—Dewey, H.
 Ovid (N.Y.).—Luther, D. D.
 Ovrutsk (Volhynia).—Sinzov, I., 4.
 Oxidation-zone of ore-deposits.—Cornu, F., 4.
 Oxford Clay, Huntingdonshire & Northants.—Andrews, C. W., 1 & 2; Auer, E.
 Oxfordshire.—Barrow, G.; Bayzand, C. J.; Davies, A. M., 2; Douglas, J. A., 2.
Oxygnathus.—Broom, R.
Oxyoticerias.—Diener, C., 2.
Oxyrhina.—Tæger, H.; Trabucco, G.
Oxytoma.—Borisjak, A., 5.
 Ozieri (Sardinia).—Serra, A., 3.
Pachypora.—Reed, F. R. C.
Pachysystropus.—Cockerell, T. D. A.
 Pacific, ancient continent.—Burckhardt, C.
 — coast, Tertiary faunas, N. America. — Arnold, R., 4; Dall, W. H., 1 & 2.
 — Ocean deposits.—Murray, Sir J.
 —, seismology of.—Gerland, G.
 Paderborn (Westphalia).—Stille, H., 5.
 Padru (Sardinia).—Serra, A., 3.
Pagelius.—Leriche, M., 9.
Pagiophyllum.—Salfeld, H., 2.
 Paimpont Forest (Britanny).—Kerforme, F.
 Paintings, palæolithic.—Franchet, L.
Palæanthropus.—Bonarelli, G.
Palæarctonyx.—Matthew, W. D.
Palæaster.—Wood, E.
 Palæobotanical museums. — Nathorst, A. G., 5.
 Palæobotany, 1901–1906.—Zeiller, R., 2.
 —, S. Russia.—Palibin, I. V.
 Palæocene, Denmark.—Grønwall, K. A., 2.
 Palæoconchology.—Cossmann, M., 2.
Palæocypris.—Salfeld, H., 2.
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 Palæogene, Slaviansoserbsk. — Mushketov, D. J.
 Palæogeographical maps of N. America. — Willis, B.
Palæolagus.—Lambe, L. M.
Palæolima.—Hand, W., 3.
 Palæolithic drawings.—Franchet, L.
 — gravels, Cambridge.—Marr, J. F.
 — implements, Zambesi Valley. — Codrington, T.; see also Implements.
 — man, Rhenish Bavaria.—Freudenberg, W., 2; see also Homo.
Palæolobium.—Tæger, H.
Palæomastodon.—Osborn, H. F., 2;
 Pontier, G.
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Palæoneilo.—Clarke, J. M., 2; Healey, M.; Mansuy, H., 2; Reed, F. R. C.
 Palæoniscidæ, Carboniferous.—Traquair, R. H.
 Palæontological —.—Buckman, S. S.
 — Society.—Stanton, T. W., 2.
 Palæontology, Carboniferous horizons & — Renier, A., 8.
 —, Herefordshire.—Lydekker, R.
 —, New Zealand.—Wilckens, O., 3.
 —, North of England, 1902–1908.—Sheppard, T., 3.
 —, Styria, 1906–08.—Hilber, V., 2.
 —, textbook of.—Woods, H.
 —, Wales.—See WALES.
Palæosphæroma.—Remeš, M.
Palæospina.—Dean, B.
Palæostachys.—Zaleski, M. D.
Palæotaxus.—Nathorst, A. G.
 Palæozoic, Ardennes.—Poskin, A., 2.

- Palaeozoic, Carinthia.—Angelis d'Ossat, G. de, 3.
 — coral-reefs.—Tallgren, B.
 — faunas, evolution of.—Walcott, C., D., 1 & 2.
 —, Japan.—Karpinsky, A. P., 3.
 —, Killary.—Carruthers, R. G., 3.
 —, Malay Peninsula.—Scrivenor, J. B., 4.
 —, N. America.—Brooks, A. H.; Darton, N. H.; Grabau, A. W., 1 & 2.
 —, Sarthe.—Ehlert, D. P.
 —, Tunis.—See TUNIS.
 —. See also Cambrian, Carboniferous, &c.
 Palermo (Sicily).—Silvestri, A., 2 & 3.
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 Palladium, New South Wales.—Mingay, J. C. H.
 Palmas, Mte. (Sardinia).—Millosevich, F., 2.
Palmatopteris.—Zaleski, M. D.
 Palmerite.—Gaubert, P., 3.
Paludestrina.—Caziot, E.
Paludina.—Hennig, E.
 — Sand, Berlin.—Sænderop, F.; Werth, E., 2.
 Pampas Formation (or Pampean), Argentina.—Ameghino, F., 3; Ihering, H. von; Lehmann-Nitsche, R., 2; Outes, F. F., 2 & 3.
 Panama Canal (C. Am.).—Toula, F., 4.
Pangium.—Raciborski, M.
 Pannonian, Hungary.—Lœrenthey, I. von.
Panomya.—Dall, W. H., 2.
Panopœa.—Lemoine, P., 2; Woods, H., 2.
 Pantellaria I. (Mediterranean).—Sællner, J.; Washington, H. S.
Pantolestes.—Matthew, W. D.
Paracettites.—Girty, G. H., 2.
Paracyclas.—Reed, F. R. C.
Parahoplites.—Sinzov, I., 2.
 Parallel growths on crystals.—Kreutz, S., 2.
Parallelodon.—Girty, G. H., 2 & 3.
 Parametres, eruptive rocks.—Golfier, J.
 Paraná R. (S. Am.).—Barclay, W. S.; Bross, H.
Paraortyx.—Gaillard, C.
Paratibetites.—Diener, C., 3; Mansuy, H., 2.
Paratropites.—Diener, C., 3.
 Pargasite.—Kreutz, S.; Woolnough, W. G.
 Paris Basin (France).—Boussac, J., 2 & 4; Cossmann, M., 3; Courty, G.; Dollfus, G. F., 2, 6, & 7; Lemoine, P., 7 & 8; Ramond, G.; Welsch, J., 3.
Parkinsonia.—Borisnyak, A., 3.
 Parma (Emilia).—Sangiorgi, D.
 Parnassus, Mt. (Greece).—Reuz, C., 6.
 Parnes, Mt. (Greece).—Ktenas, K. A., 2.
 Pasco, Cerro de (Peru).—Gastelmendi, A. C.
 Pas-de-Calais (France).—Briquet, A., 6; Bertrand, P., 5; Carpentier, A., 4 & 6; Dollé, L., 2; Gosselet, J.; Leprince-Ringuet, F.; Leriche, M., 1 & 8.
 Patagonia (S. Am.).—Jacob, C.; Kurtz, F.; Leriche, M., 2; see also Argentina.
Patella.—Ahlburg, J.; Girty, G. H., 2; Remeš, M.
 Paterson, Cape (Vict.).—Ferguson, W. H.
Pattalophyllia.—Felix, J., 2.
 Paulsborn (Brandenburg).—Hennig, E.
 Pavia (Lombardy).—Meli, R., 4.
 Payagygon (Burma).—Cotter, G. de P.
 Pays de Caux (Normandy).—Babeau, L.
 Peak District (Derby).—Terry, H. L.
 Pearls in Chalk.—Dibley, G. E.
 Peat, Alaska.—Brooks, A. H., 2.
 —, bibliography of.—Ryan, H.
 —, Canada.—Nystrom, E.
 —, Dogger Bank.—Whitehead, H.
 —, England & Scotland.—Lewis, F. J.
 —, Germany (N.).—Stoller, J., 2; Stremme, H., 3.
 —, Hungary.—Lászlo, G.
 —, Ireland.—Ryan, H.
 —, Maine.—Bastin, E. S., 2.
 —, method of disintegrating.—Reid, E. M.
 —, origin of.—Haglund, E.; Schwarz, E. H. L., 5.
 —, plants in.—Gibson, R. J. H.
 —, Stuttgart.—Stoller, J., 3.
 Peat-bogs, Europe (N.).—Geer, G. de, 2.
 —, Gothland.—Sernander, R.
 Pebble-bed, Ardennes, Carboniferous.—Carpentier, A., 8.
 Pebbles, action of torrents on.—Rutot, A., 3.
 —, Bunter Conglomerate.—Martin, E. C.
 —, faceted.—Gagel, C., 3; Hæberle, D.; Koken, E., 5.
 —, impressed.—Dum, E. J., 24.
 —, in coal.—Barrois, C., 1, 3, 4, 9, & 11; Gresley, W. S.; Heim, Alb.
 —, Permo-Carboniferous faceted.—Koken, E., 5; Walther, J.
 Pechish (Kazan).—Samoilov, J.
Pecopteris.—Schuster, J., 2; Zaleski, M. D.
Pecten.—Benecke, E. W.; Diener, C., 3; Grœnwall, K. A., 2; Healey, M.; Krause, P. G.; Mansuy, H., 2; Tæger, H.; Toula, F., 4 & 5; Trabucco, G.; Trauth, F.; Ugolini, R., 2; Wittenburg, P. von.
 — *vasseli*-beds, Tanga I.—Kert, W.
Pectunculus.—Clarke, J. M., 2; Dollfus, G. F.; Toula, F., 4.
 Pegmatite, Ille-et-Vilaine.—Bézier, T., 2.
 —, Madagascar.—Lacroix, A., 16.
 —, Massachusetts.—Warren, C. H.
 —, origin of.—Hastings, J. B., 2.

- Pegmatite, Sulitjelma Mt.—Stutzer, O., 2.
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 Pegu inlier, Ondwe.—Pascoe, E. H.
 Peine (Hanover).—Mayer, L. M.
 Pelagosit, Capri.—Belluni, R.
Pelamys.—Leriche, M., 9.
Pelargopsis.—Gaillard, C.
 Pelé, Mt. (Martinique).—Grossmann,
 A. de, 4; Heilprin, A.; Hovey, E. O.,
 2; Lacroix, A.
Peloneustes.—Jaccard, F., 3.
 Peloponnesus (Greece).—Ktenas, K. A.;
 Négris, P., 5 & 6.
 Peloritan Mts. (Sicily).—Limanowski,
 M.
Peltoceras.—Borisysak, A., 3; Krause,
 P. G.
Peltosaurus.—Lambe, L. M.
 Pembrokeshire.—Chandler, R. H., 2;
 Leach, A. L.
 Pencaitland (Haddington).—Whalley,
 E. B.
 Pène-Blanche massif (Haute-Garonne).
 —Martel, E. A., 3.
 Penlee stone-quarries (Cornwall).—Els-
 den, J. V., 2.
 Pennavara Valley (Liguria).—Zaccagna,
 D.
 Pennsylvania (U.S.A.).—Chance, H. M.;
 Munn, M. J.; Raymond, P. E.;
 Spencer, A. C.; Stose, G. W.;
 Wherry, E. T.; White, D.
 Pennsylvanian, N. America.—Willis, B.
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 D., 3.
Pentamerus.—Første, A. F.; Hyde, J. E.;
 Maillieux, E., 4 & 10; Reed, F. R. C.;
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Pentemites.—Wood, E.
 Perak (Malay States).—Scrivenor, J.
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 Perched blocks, Valais.—Schardt, H., 3.
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Perisphinctes.—Borisysak, A., 3;
 Krause, P. G.; Rothpletz, A.
Pertitochia.—Girty, G. H., 2.
 Perm Gov. (Russia).—Knox, H. H.;
 Krasnopolski, A.; Launay, L. de;
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 Permian, Altenburg.—Schucht, F., 2.
 —, Baden.—Seebach, M.
 —, Bohemia.—Petrascheck, W., 2.
 —, Durham.—Woolcott, D.
 —, Hanover.—Grupe, O., 1 & 2.
 —, Kansas.—Sellards, E. H.
 —, Merseburg.—Fulda, E.
 —, Rhenish Bavaria.—Schuster, J.,
 1 & 2.
 —, Simbirsk Gov.—Krotov, P.
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 Cantrill, T. C.
 —, Texas.—Cummins, W. F.; Wel-
 ler, S., 2.
 Permian, Timor.—Gerth, H.
 —, Uralsk.—Sokolov, D. N.
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 —, footprints in.—Hickling, G.;
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 —, Falkland Is.—Skottsberg, C.
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 —, New South Wales.—Etheridge,
 R., *fil.*, 4; Laseyron, C. F.
 —, Queensland.—Etheridge, R., *fil.*,
 4.
 —, Salt Range.—Koken, E., 5; Wal-
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 —, Tasmania.—David, T. W. E., 2;
 Twelvetrees, W. H.
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 —, Turkestan.—Edelstein, I.
 —, glaciation.—Howchin, W., 1 & 2;
 Koken, E., 1, 5, & 6; Walther, J.
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 C.
 —, Rhodesia.—Molyneux, A. J. C.,
 1 & 2.
 —, Wyoming.—Darton, N. H.
Perna.—Healey, M.; Toula, F., 5.
 Pernelle R. (Namur).—Fourmarier, P.,
 7.
Pernipecten.—Girty, G. H., 2.
 Péroune (Somme).—Douxami, H., 5.
 Perranzabuloe (Cornwall).—Bullen, R.
 A., 1 & 2.
 Persia.—Oldham, R. D., 2; Stahl, A. F.
 Perthshire (Scotland).—Davison, C., 3.
 Pertre (Ille-et-Vilaine).—Bézier, T., 2.
 Peru (Nebraska).—Duncanson, H. B.
 Peru (S. Am.).—Adams, G. I.; Bois
 Lukis, E. du; Diaz, L. F.; Dueñas,
 E. I.; Gastelumendi, A. C.; Herrera,
 C.; Jimenez, C. P.; Jochamovitz,
 A.; Marsters, V. F., 1 & 2; Stein-
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 Perugia (Umbria).—Merciai, G.; Prin-
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 Peter the Great Gulf (E. Asia).—Wit-
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 Peterborough (Northants).—Andrews,
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- Petroleum, Galicia. — Dalton, L. V.; Noth, J.
 —, India.—Holland, Sir T. H., 2.
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 —, Mexico.—Villarelo, J. D., 2.
 —, Rumania.—Dalton, L. V.; Edeleanu, L., 1-3; Rakusin, M. A., 2.
 —, Sakhalin.—Hodgson, R. M.
 —, Trinidad.—Evans, J. W.
 —, Turkestan.—Blanc, E.
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 Pickens Co. (Georgia).—McCallie, S. W.
 PICKERING, W. H.—Ebert, H.
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 Piedmont (Italy).—Colomba, L., 3 & 4; Ferrero, L.; Piolti, G.; Prever, P. L., 1 & 3; Prießner, M., 1 & 2; Sacco, F., 1, 4, & 5; Trabucco, G.
 Piedra Pintada (Argentina).—Burckhardt, C., 3; Kurtz, F., 2; Roth, S., 2.
 Pienza (Tuscany).—Stefani, C. de, 2.
 Pierre des Marmettes (Valais).—Schardt, H., 3.
 Pierrefitte (Hautes-Pyrénées).—Van Ness, W. W.
 Piesberg Ridge (Hanover).—Haarmann, E.
 Pietersburg (Transvaal).—Hall, A. L., 4.
 PIETE, E., *Obit.*—Donxami, H., 2.
 Piggoreet (Vict.).—Dunn, E. J., 3.
 Pike Co. (Mo.).—Rowley, R. R.
 Pilsandsberg (Transvaal).—Brouwer, H. A.
 Pilgrim s Rest (Transvaal).—Dessauer, A. von.
 Pilsborosjenö (Hungary).—Schréter, Z.
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- Pinako leudson.*—Cambier, R.
 Pine Mt. (Vict.).—Dunn, E. J., 22.
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Pinus.—Engelhardt, H.; Menzel, P., 2; Penhallow, D. P.
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 —, in limestone.—Dixon, E. E. L.
Pirus.—Engelhardt, H.
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 —, Siberia.—Jachevski, L.
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 Plagioclase felspar.—Colomba, L.; Dittler, E., 3.
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Planera.—Engelhardt, H.
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 —, Cretaceous.—Menzel, P., 2; Leriche, M., 14; Lignier, O., 2; Richter, P.; Stopes, M. C., 1 & 2.
 —, Devonian.—Gilkinet, A.; White, D.
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 —, Dogger Bank 'moorlog.'—Whitehead, H.
 —, Jurassic.—Chapman, F., 5; Diller, J. S.; Dun, W. S.; Kurtz, F., 2; Lignier, O., 1 & 2; Nathorst, A. G., 1-3; Salfeld, H., 2; Seward, A. C.
 —, Permian.—Schuster, J., 1 & 2; White, D.
 —, Permo-Carboniferous.—Kidston, R., 2; see also BRAZIL.
 —, Quaternary.—Engelhardt, H.; Gibson, R. J. H.; Lewis, F. J.; Stoller, J., 1-3.
 —, Tertiary.—Caspary, R.; Engelhardt, H.; Fritel, P. H.; Jentzsch, A.; Knowlton, F. H.; Kurtz, F.; Lignier, O., 2; Menzel, P., 1 & 2; Palibin, I. V.; Penhallow, D. P.; Raciborski, M.; Schindheruette, G.; Stoller, J.; Tager, H.
 —, Triassic.—Arber, E. A. N., 2; Fliche, P.; Gwynne-Vaughan, D. T. Krasser, F.; Stark, P.; Wuest, E.
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Platanus.—Schindheruette, G.
 Plateau-gravel, Upper Austria.—Angerer, P. L.
 Platinum, Broken Hill (N.S.W.).—Mingaye, J. C. H.
 —, Russia.—Hauptick, E. de.
 Plattensee (Styria).—Preiss, C.
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Platyceras.—Clarke, J. M., 2; Vinassa de Regny, P. E., 4.
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- Pleuracanthites*.—Diener, C., 2.
- Pleurocora*.—Grosch, P.
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- Pleuromya*.—Ahlburg, J.; Newton, R. B., 2; Trauth, F.; Wittenburg, P. von, 4; Woods, H., 2.
- Pleuropholis*.—Johnston, M. S.
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- Pleurotomaria*.—Girty, G. H., 2; Hilber, V.; Reed, F. R. C.; Toula, F., 4; Wollemann, A.
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- Pliocene, America (S.).—Toula, F., 4.
- , Belgium. — Briquet, A., 1 & 7; Rntot, A.
- , Cheleken I.—Ryabinin, A.
- , France. — Briquet, A., 1 & 7; Matte, H.
- , Frankfurt a. M.—Engelhardt, H.
- , Hungary.—Méhes, G.; Vitalis, S.
- , Italy.—Stefani, C. de, 2; Van de Wiele, C.
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- , rocks, classification of.—Hatch, F. H., 1 & 2.
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- Podozamites*.—Chapman, F., 5; Salfeld, H., 2; Seward, A. C.
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- , Geological Survey.—Beyschlag, F.,
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- (E.), Caspary, R.; Cockerell, T. D.
A., 4 & 5; Conwentz, H., 1 & 2;
Jonas, R.; Johnsen, A., 1 & 2; Krause,
P. G.; Tornquist, A., 1-5.
- Psephodus*.—Leriche, M., 10.
- Pseudoannicola*.—Pavlović, P. S.
- Pseudochatetes*.—Prever, P. L., 2.
- Pseudo-gaylussite. — Revuckaja, E. D.;
Stolley, E., 2.
- Pseudomelania*.—Jackson, J. W.
- Pseudomonotis*.—Borisjak, A., 5; Mansuy,
H., 2; Wittenburg, P. von, 1 &
4.
- Pseudomorphs.—Dittler, E., 2.
- Pseudomurchisonia*.—Wittenburg, P.
von.
- Pseudonyssa*.—Engelhardt, H.
- Pseudo-pirssonite.—Stolley, E., 2.
- Pseudotissotia*.—Kler, M. O.
- Pseudovirgula*.—Girty, G. H., 2.
- Pteria*.—Girty, G. H., 2; Healey, M.
- Pterichthys*.—Hoffmann, G.
- Pterinea*.—Clarke, J. M., 2; Mansuy,
H., 2; Williams, H. S., 2.
- Pterinopecten*.—Clarke, J. M., 2.
- Pteris*.—Engelhardt, H.
- Pterocarya*.—Engelhardt, H.; Menzel,
P.
- Pteroceras*.—Remeš, M.
- Pterodactylus*.—Pycraft, W. P.
- Pteronitella*.—Clark, J. M., 2.
- Pteronites*.—Sommer, K.
- Pterotheca*.—Reed, F. R. C., 5.

- Ptilograptus*.—Brassler, R. S. [Bassler].
Ptychites.—Diener, C., 3; Wittenburg, P. von, 4.
Ptychodus.—Eastman, C. R.
Ptychomphalia.—Toula, F., 5.
Ptychospira.—Reed, F. R. C.
Pucherite, W. Australia.—Griffith, E.
Puerta de Arauco (Argentina).—Ducoux, E. H., 3.
Pugnax.—Girty, G. H., 1 & 2.
Puigmal massif (Pyrenees).—Mengel, O., 3.
Pulkowa Observatory, St. Petersburg.—Galitzin, Prince B., 1-4.
Pulvinulina.—Chapman, F., 4.
Pumice, Vesuvius.—Johnston-Lavis, H. J.
Purbeck, I. of.—Keeping, H.
Purpura.—Dall, W. H., 2.
Purpurinidae, Palæozoic.—Cossmann, M., 2.
Purpuroidea.—Remeš, M.
Pursa.—Sellards, E. H.
Puy de Barneire (Auvergne).—Lacroix, A., 11.
Puy de Dôme (France).—Barbier, P., 1 & 2; Brunhes, B.; Glangeaud, P., 3; Gonnard, E., 2; Nicolas, A.; Vigier, A., 1 & 2.
Puzosia.—Chatwin, C. P.
Pycnodus.—Woodward, A. S., 1 & 2; Tæger, H.
Pygaulus.—Faas, A.
Pylaiella.—Teiling, E.
Pyramidellidae, Tertiary.—Bush, K. J.
Pyrenees.—Suess, E., 2.
— (Central).—Eyduox, D., 3.
— (French).—Bertrand, L., 2; Bous-sac, J., 3; Carez, L.; Mengel, O., 2 & 3; Degrange-Touzin, A., 3.
—, Karst phenomena in the.—Martel, E. A., 2.
— (Spanish).—Mengel, O.
Pyrite, Bosnia.—Katzer, F.
—, Crimea.—Popov, S. P.
—, Elba.—Panichi, U.
—, Mexico.—Hijar y Haro, L.
—, Piedmont.—Prießhauser, M.
—, Sulitjelma Mt.—Stutzer, O., 2.
—, Utah.—Rogers, A. F.
Pyrogenetic epidote.—Butler, B. S.
Pyromorphite.—Brauns, R.
—, British Columbia.—Bowles, O.
Pyroxene-rocks, Bohemia.—Bergt, W., 1, 2, & 4.
Quarries, falls in.—Cornet, J., 3.
—, Great Britain.—See GREAT BRITAIN, Home Office, 1-4.
Quarrying, New York.—Newland, D. H., 2.
Quaternary, Africa (E.).—Werth, E.
—, America & Europe.—Salisbury, R. D.
—, America (N.).—Willis, B.
—, Argentina.—Lehmann-Nitsche, R., 2; Outes, F. F., 2 & 3.
—, Baltic Provinces.—Tornquist, A.
Quaternary, basalt, Silesia.—Jahn, J. J., 1907.
—, Brabant. — Mourlon, M., 3-5; Rutot, A., 7.
—, Carpathians.—Sawicki, L. R. von.
—, Cornwall.—Bullen, R. A., 1 & 2.
—, Denmark.—Grieg, J. A.; Jessen, A.; Johansen, A. C.; Madsen, V.
—, Dordogne.—Dalloni, M.
—, Egypt.—Greenly, E.
—, Essex.—Dalton, W. H., 2.
—, European faunas.—Menzel, H.; Reynolds, S. H.; Wollemann, A., 2.
—, Finland.—Tanner, V., 2 & 3.
—, Germany (N.).—Dames, W.; Damer, B.; Deecke, W.; Kœnen, A. von; Krause, P. G.; Olbricht, K., 1 & 2; Schucht, F.; Solger, F.; Stoller, J., 2; Tornquist, A.; Werth, E., 2.
—, Greece.—Négris, P.
—, Greenland.—Jensen, A. S.
—, Harz.—Menzel, H.
—, Hesse.—Freudenberg, W.
—, Holland.—Tesch, P.
—, Hungary.—Horusitzky, H., 1 & 2; Kormos, T., 1-3.
—, Italy.—Clerici, E.; Prever, P. L.; Verri, A., 1 & 2.
—, Main Vallev.—Haupt, O.
—, Moravia.—Ržehák, A., 2.
—, Nassau.—Neuenhaus, H.
—, Nebraska.—Shimek, B.
—, Newcastle-upon-Tyne. — Merrick, E.
—, Nord.—Briquet, A., 9.
—, Norfolk.—Harmer, F. W., 2.
—, Norway.—Grieg, J. A.
—, Oaxaca Valley.—Conzatti, C.
—, Olonetz Gov.—Vollosov, K. A.
—, Port Elizabeth.—Schwarz, E. H. L., 6.
—, Rhenish Bavaria.—Freudenberg, W., 2 & 3.
—, Rhenish Prussia.—Brockmeier, H.; Fenten, J.; Mordziol, C., 1-3; Rauff, H.
—, Savoy.—Gérardin, P.
—, Seine-et-Marne.—Jodot, P.
—, Somme Valley.—Briquet, A., 3; Commont, V., 1 & 2.
—, Spain.—Harlé, E., 1 & 2.
—, Suffolk.—Harmer, F. W., 2.
—, Surrey.—Chandler, R. H.
—, Swabia.—Dietrich, W.
—, Sweden.—Holst, N. O., 1 & 2; Munthe, H.; Tanner, V., 2; Teiling, E.
—, Tasmania.—Nœtling, F., 2.
—, Thuringia.—Compter, G.
—, Tunis.—Koken, E.
—, Victoria.—Pritchard, G. B.
—, Württemberg.—Brauhäuser, M.; Schmidt, M.; Stoller, J., 3.
—, climates, Scandinavia.—Geer, G. de, 2.
—, sands, andalusite in.—Thomas, H. H., 2.
—, See also Pleistocene.

- Quartz as a geological thermometer.—Wright, F. E., 3.
 —, Auvergne.—Vigier, A., 2.
 —, crystallization of.—Brun, A.; Michalias, R.
 — in basalt, origin of.—Bourdariat, A.
 — inclusions in Styrian basalt.—Leitmeier, H., 2.
 —, melting-point of.—Muegge, O.
 —, secondary, in oolitic iron.—Caeyeux, L.
 — porphyry, Botzen.—Wolff, F. von.
 —, Dossenheim.—Salomon, W., 2.
 —, Merseburg.—Haase, E.
 — reefs, Victoria.—Dunn, E. J., 1, 7, & 10.
 — veins, Bastogne.—Cornet, J., 11.
 —, Finistère.—Kerfome, F., 2.
 —, N.S.W.—Jensen, H. I.
 —, Otago.—Finlayson, A. M., 3.
 Quartzite' block, polished, Meneage Peninsula.—Rogers, W.
 — flakes, Tasmania.—Nøtling, F., 1, 3, & 4.
 —, Minnesota.—Sardeson, F. W., 2.
 —, Rumania.—Cadere, D.
 —, structure of.—Erdmannsdorffler, O. H., 4.
 —, Ticino.—Hezner, L.
 Quartzophyllades, Liège.—Fraipout, C., 2.
 Quebec (Canada).—Cirkel, F.; Dresser, J. A., 2.
 Quebecase, Canada.—Dresser, J. A.
 Quedlinburg (Harz).—Richter, P. B.
 Queensland.—Ball, L. C.; Cameron, W. E.; Chapman, F., 2; Etheridge, R., *fil.*, 4; Hedley, C.; Jensen, H. I., 3-5; Pearce, W. C. W.
 Queenstown (N.Z.).—Park, J.
 Quenast (Brabant).—Cosyns, G., 3.
Quenstedticeras.—Borisovak, A., 3.
Quercus.—Engelhardt, H.; Menzel, P.; Schinderhuetten, G.
 Quercy (France).—Gaillard, C.
 Quillan (Pyrénées Orientales).—Carez, L.
 Quincy (Mass.).—Warren, C. H.
 Racial persistence of ammonites in time.—Diener, C.; Steinmann, G., 4.
 Raddling of slates, Thuringia.—Zimmermann, E., 2.
 Radetheim (Carinthia).—Kern, F., 2.
 Radetzki (Turkey).—Andrumont, R. d'.
 Radio-active minerals, Madagascar.—Lacroix, A., 3.
 — waters.—Cheneveau, C.; Hurmuzescu, —; Moureu, C.; Nicolas, A.; Petrascheck, W.
 Radio-activity, earth &.—Wolff, F. von, 2.
 —, geology &.—Becker, G. F.
 —, minerals &.—Brauns, R., 3; Gray, G. J.; Lacroix, A., 3; Michalias, R.; Muegge, O., 2; Zambouini, F., 3.
 Radio-activity, rocks &.—Joly, J., 5; Mennell, F. P., 3; Strutt, Hon. R. J., 2.
 Radiolaria, Tertiary.—Principi, P., 2.
 Radiolarian cherts.—Jaccard, F., 5; Wilckens, O.
Radiolites.—Douvillé, H., 6; Parona, C. F., 2-4; Toucas, A., 3.
 Radium, colours of minerals &.—Døelter, C., 3.
 —, deep-sea deposits &.—Joly, J., 2.
 —, earth &.—Edgerton, P.
 —, igneous rocks with.—Farr, C. C.
 —, sea-water &.—Joly, J., 1 & 4.
 Radnorshire.—Richardson, L., 2.
 Radom (Poland).—Guerich, G.; Sobolev, D.
 Radstädter Tauern (Tyrol).—Uhlig, V., 2.
 Rădăcaneni (Moldavia).—Sevastos, R.
 Radulesd (Hungary).—Kadió, O.
 Ragunda (Sweden).—Hægboom, A. G., 2.
 Raibl Marls, Carinthia.—Gortani, M.
 Rainy R. (Ont.).—Hille, F.
 Raised beach, Brighton.—Martin, E. A. —, Vermont.—Merwin, H. E.
Raja.—Leriche, M., 9; Tæger, H.
 Rajmahal Hills (India).—Hayden, H. H.; Stuart, M., 1, 3, & 4.
 Rajmahalian, Argentina.—Kurtz, F., 2.
 Rājpiplā State (India).—Bose, P. N.
 Rajputana (India).—Holland, Sir T. H., 3.
 Rákos (Hungary).—Vadász, M. E.
 Rammelsberg (Harz).—Baumhauer, H.
Ranina.—Guppy, R. J. L., 2.
 Rampart (Alaska).—Covert, C. C.
 Rapais Wood (Hainault).—Passau, G., 2.
 Rappoltsweiler (Alsace).—Bruhns, W.
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 — metals, Australia. — Simpson, E. S.
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 Réalmont (Tarn).—Termier, P.
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 Redonian, Mayenne.—Bézier, T.
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 Reef-limestones, origin of.—Andrée, K., 2; Philippi, E., 2.
 Refraction, indices of.—Brauns, R., 2.
 Reggio (Calabria).—Galitzin, Prince B., 2 & 3; Lagrange, E.; Sacco, F., 11.
 Rehburg (Hanover).—Stechow, E.
 Reims (Marne).—Leriche, M., 6 & 9.
 REINACH, A. von., *Obit.*—Leppla, A.
 Reindeer period, France.—Commont, V., 2; Lalaune, G.
Reineckia.—Benecke, E. W.
 Reiting (Styria).—Ascher, E.

- Reketyefalva (Transylvania).—Roth von Telegd, K., 3.
- Remagne (Luxemburg).—Cosyns, G., 2; Fenten, J.; Lohest, M., 6.
- Rensen (N.Y.).—Miller, W. J., 2.
- Renfrewshire (Scotland).—Carruthers, R. G.; Tyrrell, G. W., 2.
- Rensselaeria*.—Clarke, J. M., 2.
- Reutières (Puy-de-Dôme).—Gonnard, E., 2.
- RENZ, C.—Négris, P., 2.
- Reptilia, Carboniferous.—Schwarz, H.
- , Cretaceous.—Abel, O.; Broili, F., 2; Hay, O. P.; Osborn, H. F., 3; Ryabiniin, A., 2; Sauvage, H. E.; Stechow, E.; Wieland, G. R., 1 & 2; Williston, S. W.
- , Jurassic.—Abel, O., 1 & 2; Andrews, C. W., 1 & 2; Auer, E.; Gilmore, C. W.; Hay, O. P., 2, 3, & 5; Jaccard, F., 3; Rothpletz, A.; Ryabiniin, A., 2.
- , Karroo.—Rogers, A. W., 5; Seeley, H. G.
- , Permian.—Broili, F.; Cummins, W. F.; Pabst, W., 1 & 2; Williston, S. W., 3; *see also* BRAZIL.
- , Permo-Triassic.—Abel, O.; Broom, R., 2, 5, 6, & 7; *see also* Karroo.
- , Tertiary.—Hay, O. P., 5; Heritsch, F., 3; Loomis, F. B.; Nopsca, F. von.
- , Triassic.—Broom, R., 6; Huene, F. von, 1-3; Watson, D. M. S., 1 & 2; Woodward, A. S., 5.
- , classification of.—Jækel, O., 2.
- , progress of the development of fossil.—Woodward, A. S., 3.
- , teeth of fossil.—Seeley, H. G., 2; Pycraft, W. P.
- Reptilian origin of mammalia. — Ameghino, F.
- Reptomulticara & Retepora*.—Canu, F., 2.
- Resin, E. Prussia.—Caspary, R.
- Retiolites*.—Moberg, J. C., 2.
- Retzia*.—Vinassa de Regny, P. E., 4.
- Reutlingen (Würt.).—Burkhardtmaier, H.
- Reyerite.—Gaubert, P., 2.
- Reykjavik (Iceland).—Pjettersson, H., 3.
- Réz Mts. (Hungary).—Lachmann, R., 2.
- Rhabdomancy.—Poskin, A.
- Rhabdophyllia*.—Felix, J.; Haas, O., 2.
- Rhacophyllites*.—Diener, C., 2; Trauth, F.
- Rhadinichthys*.—Eastman, C. R.; Lambe, L. M., 2; Leriche, M., 10; Traquair, R. H.
- Rhetic, Burma.—Healey, M.
- , Hungary.—Tæger, H.
- , Leicestershire.—Richardson, L.
- , Switzerland.—Gerber, E.; Schmidt, W.
- Rhagatherium*.—Stehlin, H. G.
- Rhamnus*.—Menzel, P.; Penhallow, D. P.; Schinderhuetten, G.; Tæger, H.
- Rhenaster*.—Schœndorf, F., 2.
- Rheinbreitbach (Rh. Pruss.).—Brauns, R.
- Rhenish Bavaria.—Freudenberg, W., 1 & 2; Haberle, D.; Schuster, J., 1 & 2.
- Prussia.—Bærtling, R.; Bleibtreu, K.; Brauns, R.; Brockmeier, H.; Fenten, J.; Holzapfel, E., 2; Kruse, J.; Kukuk, —; Mælter, M.; Mordziol, C., 1-3; Östreich, K., 1 & 3; Rauff, H.; Renier, A., 1 & 5; Rutot, A., 5; Schuster, J., 2; Semper, M.
- brown-coal, cypridean silicite in.—Pohlig, H., 3.
- slate-district.—Fliegel, G.
- Rhinasteus*.—Lambe, L. M.
- Rhine R. (Holland).—Briquet, A., 5; Tesch, P.
- , bend at Basel.—Eisenmenger, G.
- Valley (Germany).—Fenten, J.; Freudenberg, W.; Hagmann, G.; Mordziol, C., 1-3; Östreich, K., 1 & 3; Schœndorf, F., 2.
- , lignites.—Holzapfel, E.
- , terraces.—Mordziol, C., 1-3.
- volcanoes.—Dollé, L., 3.
- Rhinoceros*.—Olcott, T. F.; Wuest, E., 3; Zdarsky, A.
- Rhinocerotidae, Tertiary.—Bach, F., 3.
- Rhipidomella*.—Clarke, J. M., 2; Færste, A. F.
- Rhizodopsis*.—Leriche, M., 10.
- Rhizograptus*.—Brassler, R. S. [Bassler].
- Rhizopteris*.—Chapman, F., 5.
- Rhode I. (U.S.A.).—Dale, T. N.
- Rhodesia (S. Afr.).—Buttgenbach, H., 2 & 7; Codrington, T.; Memell, F. P., 1 & 2; Molyneux, A. J. C., 1 & 2; *see also* RHODESIA, §c.
- Rhodizite, Madagascar.—Lacroix, A., 16.
- Rhodochroisite.—Kreutz, S., 2.
- Rhône Dep. (France).—Lemoine, P., 12.
- Rhône Valley, Upper (Valais).—Biermann, C.
- Rhönite, Auvergne.—Lacroix, A., 11.
- Rhus*.—Menzel, P.; Engelhardt, H.
- Rhyncholithes*.—Till, A., 3.
- Rhynchonella*.—Benecke, E. W.; Dautzenberg, P.; Diener, C., 3; Girty, G. H., 2; Kittl, E.; Krause, P. G.; Mansuy, H., 2; Reed, F. R. C.; Sommer, K.; Tæger, H.; Trauth, F.; Vinassa de Regny, P. E., 4.
- Rhyolite, Antarctic.—Drygalski, E. von.
- , Carnarvon.—Travis, C. B., 3.
- , Swaziland.—Henderson, J. McC.
- , Tarn.—Termier, P.
- , Utah.—Patton, H. B.
- Rhytisma*.—Engelhardt, H.
- Richmond (Quebec).—Dresser, J. A., 2.
- Richthofenia*.—Girty, G. H., 2.
- Ridges, folds &.—Spethmann, H.
- Riesengebirge (Silesia).—Rinnam, E.
- Rimkinites*.—Diener, C., 3.
- Riminhue Volcano (Chile).—Ducloux, E. H., 2.

- Rinneite.—Boke, H. E., 1 & 2; Schneider, O.
- Rio Negro Prov. (Argentina).—Burckhardt, C., 2.
- Ripley Group, Mississippi.—Slocum, A. W.
- Ripple-marks.—Cornish, V.; Dammer, B., 2; Menzel, H., 3; Schucht, F., 2; Strasser, R.
- Risellopsis*.—Cossmann, M.
- River-changes, Missouri.—Duncanson, H. B.
- flats in valleys.—Elliott, G. F. S.
- robbing, Nord.—Briquet, A., 7.
- valleys, Galicia.—Smolenski, G. von.
- , Wairarapa buried.—Hill, H.
- Rivers, Baltic & North Sea.—Hintze, V.
- , Denmark.—Harder, P.
- , England & Wales.—Richardson, L., 3; Strahan, A., 2.
- , underground.—Van den Broeck, E., 1 & 2.
- , winding of.—Davis, D. H.; Ellis, T. S.; Fourmarier, P., 8 & 9; Fraipont, C.; Verri, A., 2.
- Röbling a. See, Upper (Merseburg).—Zimmermann, E.
- Roca (Argentina).—Burckhardt, C., 2.
- Rocailles (France).—Delebecque, A.
- Rochefortia*.—Cerulli-Irelli, S.
- Rock-fragments in dyke, Barrhead.—Tyrrell, G. W., 2.
- movements, noises of.—Cornet, J., 3.
- Rock-salt, Catalonia.—Kaiser, Erich, 2.
- , Louisiana.—Harris, G. D.
- , Texas.—Harris, G. D.
- See also Salt.
- Rocking stones.—Guenther, S., 2.
- Rocks, chemical decomposition of.—Dumont, J.
- , classification of.—Grout, F. F.; Rosenbusch, H.
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- , gases in.—Chamberlin, R. T.
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- , methods of analysis of.—Bayly, P. G. W.
- , organically formed.—Stremme, H., 3.
- , origin of heat in.—Le Bel, J. A.
- , quantitative determination of composition of.—Chirvinski, P. N.
- , radio-activity &.—Mennell, F. P., 3; Strutt, R. J., 2.
- Rockwall (Texas).—Paige, S.
- Rocky Point (Vict.).—Dunn, E. J., 13.
- Rocogoe wood (Nord).—Douxami, H., 5.
- Rocourt-lez-Liége (Belgium).—Munck, E. de, 2.
- Rodderberge (Rh. Pruss.).—Rauff, H.
- Rodentia, Quaternary.—Ržehák, A., 2.
- Rödö (Norrlund).—Hæggbom, A. G., 2.
- Rœmeria*.—Stepanov, P.
- Rofna porphyry, Grisons.—Meyer, H.
- Rohitsch (Styria).—Hlawatsch, C., 3; Leitmeier, H., 3.
- Romanites*.—Kittl, E.
- Rome (Italy).—Agamennone, G.; Angelis d'Ossat, G. d', 2; Cerulli-Irelli, S., 2; Del Campana, D.; Frenguelli, G.; Meli, R., 1-3; Portis, A., 2; Sabatini, V.; Verri, A., 1 & 2.
- Roof-nodules, Japan.—Stopes, M. C.
- Rooiberg (Transvaal).—Recknagel, R.
- Rooipoort (Potchefstroom).—Anderson, W.
- Rosa & Rosellina*.—Menzel, P.
- Rosellinites*.—See BRAZIL.
- Rosia (Tuscany).—Vinassa de Regny, P. E.
- Ross (Tasmania).—Nøtting, F., 5.
- Rossberg (Hesse).—Becker, E., 2.
- Rossitz (Moravia).—Suess, F. E., 2.
- Ross-shire.—Smith, W. C.
- Rostellaria*.—Lemoine, P., 16.
- Rothamsted (Herts).—Woodward, H. B., 4.
- Rotherhithe Tunnel.—Tabor, E. H.
- Rothliegendes, Germany.—Pabst, W. 1 & 2; Seebach, H.; see also Permian, &c.
- Rotti I. (D.E.I.).—Renz, C., 3.
- Rouen (Normandy).—Anon., 36; Gros-souvre, A. de; Jourdy, E., 3.
- Rouge R. (Mich.).—Davis, D. H.
- Routt Co. (Colo.).—Herrick, R. L.
- Rouvieux (Liège).—Lohest, M., 7.
- Royat (Puy-de-Dôme).—Barbier, P.
- Rubies, artificial.—Brauns, R., 2.
- Rubli (Vaud).—Jaccard, F., 4.
- Rudistæ, Cretaceous.—Fritsch, A.; Parona, C. F., 2-4; Toucas, A., 3.
- Rumania.—Athanasiu, S. C.; Botez, G.; Butureanu, V. C., 1 & 2; Cadere, D.; Dalton, L. V.; Douvillé, H., 3; Edeleanu, L., 1-3; Hurmuzescu, —; Kittl, E.; Mrazec, L.; Nicolau, T.; Pascu, R.; Popescu-Voitesti, J., 2; Rakusin, M. A., 2; Roth von Telegd, L., 2; Sevastos, R.; Simionescu, I.; Suess, F. E., 5; Teisseyre, W.; Wiechelt, W.
- Rumelia (Turkey).—Cvijić, J.
- Runcorn (Cheshire).—Watson, D. M. S., 2.
- Rupelian, Boom.—Leriche, M., 3.
- Russia.—Borisyak, A., 2-5; Chernychev, T. N., 1-3; Fersmann, A.; Galitzin, Prince B., 1-4; Girty, G. H., 4; Hauptpick, E. de; Jonas, R.; Sinzov, I., 1, 3-6; see also Carboniferous, Geological Survey, &c.
- Rutile.—Viola, C., 2.
- Rutland.—Jukes-Browne, A. J., 3.
- Saale Valley (Germany).—Naumann, E.
- Saargemünd (Lorraine).—Schumacher, E.
- Sabandja (or Sabundja), Lake (Anatolia).—Risch, C.
- Sabinia*.—Parona, C. F., 2.

- Sablé (Sarthe).—Ehlerst, D. P.
 Sackberge (Brunswick).—Köenen, A. von.
 SAFFORD, J. M., *Obit.*—Stevenson, J. J.
Sagana.—Diener, C., 2.
Sagaceras.—Kittl, E.
Sagenopterus.—Salfeld, H., 2.
 Saghalien or Sakhalin I.—Ahnert, E. von; Hodgson, R. M.
 Sahara (N. Afr.).—Flamand, G. B. M.; Sness, E., 2; Vischer, H.
 Saïda (Algeria).—Flamand, G. B. M., 2.
 St. Acheul (Somme Valley).—Commont, V.
 St. Anthony Falls (Minn.).—Sardeson, F. W.
 St. Bernard Saddle (N.Z.).—Gudex, M. C.
 St. Cyr en Talmondois (Vendée).—Cossmann, M.
 St. Étienne (Loire).—Annett, H. C.
 St. Eval (Cornwall).—Lamb, C. G.
 St. François Co. (Mo.).—Buckley, E. R.
 St. Gotthard (Ticino).—Hezner, L.
 St. Helena, I. of.—Melliss, J. C.
 St. Ives Bay (Cornwall).—Crook, T., 6.
 St. Joachimsthal (Bohemia).—Petrascheck, W.
 St. Marcel (Piedmont).—Priehäusser, M., 2.
 St. Martin du Vivier (Rouen).—Anon., 36.
 St. Mary's I. (Northumberland).—Woolacott, D., 6.
 St. Maur Observatory (Paris).—Angot, A., 1-11.
 St. Maurice (Valais).—Lugeon, M., 2.
 St. Michael (Azores).—Chaves, F. A.
 St. Paul (Cornwall).—Maddern, T.
 St. Paul I. (Indian Ocean).—Drygalski, E. von.
 St. Petersburg district (Russia).—Jegunov, J.
 St. Pierre (Martinique).—Hovey, E. O., 2.
 St. Sandoux (Auvergne).—Lacroix, A., 11.
 St. Sebastian (Spain).—Harlé, E.
 St. Stephen's parish (Cornwall).—Collins, J. H.
 St. Sylvestre (Alsace).—Ungemach, H., 4.
 St. Ursanne (Berne).—Buxtorf, A.
 St. Vincent (W.I.).—Anderson, T.; Hovey, E. O., 2.
 Sajóháza (Hungary).—Zimányi, K.
 Salève, Mt. (Savoy).—Joukovski, E.
 Salins (Jura).—Bourgeat, —, 2.
Salix.—Engelhardt, H.; Menzel, P.; Penhallow, D. P.
 Salmian, Liège.—Fraipont, C., 2.
 Salt, blue colour of.—Spezia, G.
 —, Catalonia.—Kaiser, E., 2.
 — crystals, plasticity of heated.—Milch, L., 4.
 — deposits, Germany.—Beyschlag, F., 2; Johnsen, A., 3.
 —, distribution of.—Sollas, W. J., 2.
 Salt, Galicia.—Pietrak, F.
 —, Hanover.—Grupe, O., 1 & 2.
 —, Harz.—Böcke, H. E., 2.
 —, hollow crystals &.—Wagner, P. A.
 — lakes, Siberia.—Thiess, F.
 —, Merseburg.—Zimmermann, E.
 —, Rajputana.—Holland, Sir T. H., 3.
 —. See also Rock-salt.
 Salt Range (India).—Koken, E., 1, 5, & 6; Walther, J.
 Salvarola (Emilia).—Pantanelli, D.
 Salzburg (Austria).—Hørnes, R.; Uhlig, V., 2.
 Salzkammergut (Styrian).—Haas, O., 2; Haug, E.
 Samara Gov. (Russia).—Tikhonovitch, N.
 Sambaqui da Villa Nova (São Paulo).—Krone, R.
 Sambre R.—Broquet, A., 7; Cornet, J., 9.
 Samland (Prussia).—Jentsch, A.
 Samoa Is. (Pacific).—Furlong, G.; Weber, M.
 Samoti (Eritrea).—Salmojrighi, F.
 Samsö (Denmark).—Greenwall, K. A.
 San Bartholomeu (Alcobaça).—Souza-Brandão, V.
 San Benito Co. (Cal.).—Bradley, W. M., 2; Ford, W. E.
 Santo Domingo I. (W.I.).—Johnston, Sir H.
 San Francisco (Cal.).—Gilbert, G. K.
 — Mt. (Arizona).—Johnson, D. W.
 San Giovanni-Campano (Rome).—Meli, R.
 San Mauro (Turin).—Ferrero, L.
 San Pablo Formation, California.—Weaver, C. E.
 San Valentino (Abruzzi).—Giattini, G. B., 1 & 2.
 Sand derived from granite.—Dawkins, W. B.; Grossouvre, A. de.
 — & lignites, Lr. Rhine.—Briquet, A., 5.
 —, musical.—Carus-Wilson, C., 2; Irving, A., 2.
 —, wind-waves on.—Cornish, V.
 — dunes, Lancashire, &c.—Ashton, W. A.
 Sands, Bois du Rapois.—Passau, G., 2.
 —, Bonnelles.—Destinez, P.
 —, detrital andalusite in.—Thomas, H. H., 2.
 —, Eritrea.—Salmojrighi, F.
 —, Rajmahal Hills.—Stuart, M.
Sandatodus.—Leriche, M., 11.
Sandlingites.—Diener, C., 3.
 Sandomierz (Radom).—Guerich, G.
 Sandstone, Cretaceous.—Andrée, K., 3
 Petrascheck, W., 4, Stille, H., 4.
 — dykes, Texas.—Paige, S.
 —, Grandglise.—Robert, M., 4.
 —, Swabian Triassic.—Lang, R., 2.
 — veins, Gothland.—Gavelin, A.

- Sandstones, Bellen.—Fritel, P. H.
 —, Bitsch.—Schumacher, E.
 —, Tadmeyt Plateau.—Flamand, G. B. M.
 —, Tunis.—Gaubert, P., 2.
 —, weathering of.—Loziński, W.
 Sandur (India).—Ahlers, R. O.
 Sanga Juriach R. (Siberia).—Nasonov, N. V.; Vollovich, K.
 Sangre de Cristo Range (Colo.).—Bagg, R. M., *fl.*
Sanguinolites.—Sommer, K.
 Sanidine, Laacher See.—Brauns, R., 3; *see also* Orthoclase.
 Sanok (Galicia).—Noth, J.
 Santa Catalina (Arizona).—Blake, W. P.
 Santa Cruz Mts. (Cal.).—Arnold, R., 2.
 Sant' Agata dei Goti (Campania).—Matarazzi, G.
 Santander (Spain).—Harlé, E., 2.
 Sawtooth Range (Washington).—Arnold, R., 3.
 São Paulo (Brazil).—Krone, R.; Lisboa, M. A. R.
Sapindus.—Täger, H.
Sapotacites.—Schlinderhuetten, G.
 Sapropel, formation of.—Stremme, H., 3.
 Saratov Gov. (Russia).—Arkhangelski, A. D.; Palibin, I. V.
 Sardinia.—Lambert, J., 3; Lincio, G.; Millosevich, F., 1-3; Serra, A., 1-3; Stella, A.; Ugolini, R., 2.
 Sardinie Creek (Vict.).—Dunn, E. J., 16.
 Sarmatian limestones, Moldavia.—Simionescu, I.
 Sarstedt (Hanover).—Salfeld, H.
 Sarthe (France).—Ehler, D. P.
 Saskatchewan (Canada).—Dowling, D. B.; Lambe, L. M.
 Sassari (Sardinia).—Millosevich, F., 2; Serra, A., 2 & 3; Stella, A.
 Sattnitz conglomerate, Carinthia.—Dreger, J.
Saurichthys, Rüdersdorf.—Henning, E., 2.
 Sauropoda, Triassic.—Huene, F. von.
 Sausal Mts. (Styria).—Leitmeiser, H.
 Savaii I. (Samoa).—Furlong, G.; Weber, M.
 SAVIN, L. H., *Obit.*—Lambert, J.
 Savoy (France).—Delebecque, A.; Gérardin, P.; Girardin, P., 2; Jonkovski, E.; Lugeon, M., 5; Révil, J.
 Saxony.—Barnitzke, J. E.; Credner, H.; Dammer, B., 2; Döring, T.; Eisel, R.; Hirsch, W.; Stremme, H., 2 & 4; Wanderer, K., 1 & 2.
Scacchia.—Cerulli-Irelli, S.
Scala.—Newton, R. B., 2.
Scalaria.—Greenwall, K. A., 2; Wollemann, A.
Scaldia.—Hind, W., 2; Sommer, K.
 Scandinavian ice-sheets & British Glacial Drifts.—Bonney, T. G.
 Scandinavian great overthrust.—Gregory, J. W., 8.
 —, Quaternary climates.—Geer, G. de, 2.
 Scania (Sweden).—Holst, N. O., 1 & 2; Moberg, J. C., 2.
Scaphander.—Dall, W. H., 2.
Scaphiocrinus.—Wood, E.
Scaphonyx.—*See* BRAZIL.
 Scapular arch, edentates & monotremes.—Ameghino, F.
 Scarba I. (Hebrides).—Peach, B. N., 2.
 Scarsdale (Vict.).—Dunn, E. J., 3.
 Scenery in relation to geology.—Avebury, Lord; Johnston, Sir H.
Scenidium.—Reed, F. R. C.
 Schaerbeek-les-Bruxelles (Brabant).—Mourlon, M., 3 & 4.
 Schafstädt (Merseburg).—Belowsky, M.
 SCHARDT, H.—Jaccard, F., 2.
 Scharzfeld (Harz).—Menzel, H., 2.
 Schatzlar Beds, Bohemia.—Petrascheck, W., 3.
 Scheelite.—Walker, T. L.
 Scheibbs (Lr. Austria).—Uhlig, V., 4.
 Schemnitz (Hungary).—Dittler, E., 2.
 Schentowitz (Styria).—Kern, F.
 Schists, crystalline, Colorado.—Berg, G., 2.
 —, St. Gotthard.—Hezner, L.
 —, Ural Mts.—Duparc, L., 1 & 2.
 —. *See also* Crystalline schists, §c.
Schizaster.—Lambert, J., 3; Weaver, C. E., 2.
Schizobrissus.—Lambert, J., 3.
Schizodus.—Girty, G. H., 2.
Schizolepis.—Seward, A. C.
Schizoporella.—Canu, F., 2.
 Schladming (Styria).—Schmidt, C.
 Schleswig-Holstein (Germany).—Wolff, W.
Schlotheimia.—Diener, C., 2.
 SCHMIDT, F., *Obit.*—Karpinsky, A. P.; Sollas, W. J.
 Schmiedeberg (Merseburg).—Linstow, O. von, 4.
 Schmiedeberg (Silesia).—Rimann, E.
 Schönberg (Moravia).—Kretschmer, F.
 SCHUETZ, O., *Obit.*—Fraas, E.
 Schwadowitz (Bohemia).—Petrascheck, W., 3.
Schwagerina.—Mansuy, H., 2; Staff, H. von.
Sciurus.—Lambe, L. M.
Scifieldia.—Ulrich, E. O.
 Scotland, albitization of feldspars.—Bailey, E. B.
 —, Carboniferous crustacea of.—Periniquière, L., 3.
 —, eenie-coal.—Clough, C. T.
 —, granites.—Mackie, W., 1 & 2.
 —, metamorphic rock-weathering.—Tyrrell, G. W.
 —, Millstone Grit fauna.—Hind, W., 3.
 —, peat-bog flora of.—Lewis, F. J.
 —, Stone-age in.—Smith, F.
Scutaster.—Pack, R. W.

- Scutella*.—Dall, W. H., 2; Weaver, C. E., 2.
- Scutellina*.—Cottreau, —.
- Scyllium*.—Leriche, M., 9.
- Scytalocrinus*.—Wood, E.
- Sea, changes of level of land &.—Gregory, J. W., 9; Gneuther, R. T.; Kranz, W.
- Sea-water, gold in.—Maclaren, J. M.
- , radium in.—July, J., 1 & 4.
- Seaford (Sussex).—Elsden, J. V.
- Sebastopol Plateau (Ballarat).—Dunn, E. J., 5.
- Secchia Valley (Italy).—Tommasi, A., 2.
- Sedgwick (Vict.).—Dunn, E. J., 8.
- Sedimentary rocks, field-work on.—Greenwood, H. W.
- Sediments, metamorphosed. — Bastin, E. S.
- Seeds, Carboniferous plant.—Bertrand, P., 4; Carpentier, A., 9.
- , peat with.—Reid, E. M.
- SEELEY, H. G., *Obit.*—Anon., 18; Karpinsky, A. P., 2; Lydekker, R., 2; Sollas, W. J.; Woodward, A. S., 4.
- Seewen (Bavaria).—Egger, J. G.
- Segregated veins.—Emmons, W. H.
- Seine-Inférieure (Normandy).—Jourdy, E., 3; Lemoine, P., 5.
- Seine-et-Marne (France).—Dollfus, G. F., 4; Jodot, P.
- Seine-et-Oise (France).—Ramond, G.
- Seismic geology, evolution &.—Hobbs, W. H.
- Seismographs.—Brunhes, B.; Eppenstein, O.; Lippmann, G.
- Seismological Association, International.—Dongier, R.
- Observatory, Vienna. — Conrad, V.
- stations, Germany. — Eppenstein, O.; Gerland, G., 2.
- Seissology.—Milne, J., 1-3; Montessus de Ballore, F., 2; Reid, H. F., 2.
- , Atlantic & Pacific Oceans.—Gerland, G.
- , building construction &. — Sacco, F., 2.
- , Catalonia.—Mengel, O.
- , France.—Angot, A., 11; Kilian, W., 3.
- , methods of observation.—Dongier, R.
- , *See also* Earthquakes.
- Selbeck (Westphalia).—Baertling, R., 2.
- Selby (Yorks).—Durnford, H. St. J.
- Selenopora*.—Reed, F. R. C.
- Selkirk (Scotland).—Pringle, J., 2.
- Sellaite.—Zambonini, F.
- Selsey (Sussex).—Abbott, W. J. L.; Heron-Allen, E.
- Selter R. (Germany).—Kœnen, A. von.
- Semele*.—Toula, F., 4.
- Seminula* Zone, Clare.—Douglas, J. A.
- Sempst (Brabant).—Mourlon, M., 5.
- Seneca, Lake (N.Y.).—Luther, D. D.
- Senegambia (W. Africa).—Fréry, R.; Lemoine, P., 13 & 14.
- Seufenberg (Westphalia).—Jentzsch, A.; Menzel, P.
- Sépey (Vaud).—Jaccard, F., 5.
- Septastrea*.—Dollfus, G. F., 3.
- Sequoia*.—Engelhardt, H.; Menzel, P.; Penhallow, D. P.
- Serbaro (Rome).—Del Campana, D.
- Serpentine, Gipspsland. — Dunn, E. J., 14.
- , Tyrol.—Young, A. P.
- , Yenisei Gov.—Jachevski, I., 2.
- Serpula*.—Dall, W. H., 2; Krause, P. G.
- Serranus*.—Woodward, A. S.
- Serre (Jura).—Borgeat, —
- Servia.—Lazarević, M.; Pavlović, P. S., 1 & 2.
- Sesia (Piedmont).—Priechausser, M.
- Sethocyrtis*.—Principi, P.
- Sette Comune (Venetia).—Dal Piaz, G.
- Settle (Yorks).—Johns, C.
- Severn River.—Ellis, T. S.; Strahan, A., 2.
- Seward Peninsula (Alaska).—Knopf, A.
- Sewickley (Pa.).—Munn, M. J.
- Seybouse Basin (Algeria).—Blayac, J., 2; Daresté de la Chavanne, J.
- Seychelles Is. (Indian Ocean).—Johnstone, S. J., 3.
- Shales, Belgium. — Delhage, F.; Mailheux, E., 3 & 5; Malaise, C.
- , bituminous, Besano.—Reposi, E.
- Transvaal.—Dessauer, A. von.
- , Tuscany, variegated.—Fucini, A., 2.
- Shallow-sea deposits, dune-packing &. — Johnsen, A., 4.
- Shan States (India).—La Touche, T. D.; Reed, F. R. C.
- Sharks, Devonian & Jurassic.—Dean, B.
- Sheffield (Cornwall).—Madderu, T.
- Shell-bed, Williamstown. — Pritchard, G. B.
- -marl, Cestes.—Degrange-Touzin, A., 2.
- Shells, high-level marine.—Gordon, T. E.
- Shepton Mallet (Somerset).—Richardson, L., 6.
- Shetland Is. (Scotland).—Dron, R. W.; Flett, J. S.; Traquair, R. H.
- Shirvanskaya (Kuban).—Chernotzki, S. I.
- Shoalhaven, R. (N.S.W.).—Laseron, C. F.
- Shoots in ore-bodies.—Jennings, E. P.; Lindgren, W.
- Shore-crumpled beds.—Heim, Arn., 3.
- -lines, Lake Champlain.—Hudson, G. H.
- -sand, St. Ives Bay.—Crook, T., 6.
- —, Selsey Bill. — Heron-Allen, E.
- Shoshone Group, use of term. — Cross, W., 2.
- Shropshire.—Cobbold, E. S.
- Siberia (Asia). — Backlund, H.; Bogachev, V., 2; Edelstein, I., 3; Jachevski, I.; Khlaponin, A., 1 & 2;

- Launay, L. de; Meister, A.; Nasonov, N. V.; Sokolov, D. N., 3; Stepanov, P.; Suess, E., 2; Thieff, F.; Tolmachev, I. P.; Volloschik, K.; Watson, E.
- Sicily.—Angot, A.; Anon., 30; Cirera, R.; Galitzin, Prince B., 2 & 3; Geikie, J.; Lagrange, E.; Limanowski, M.; Oldham, R. D., 2 & 3; Perret, F. A.; Platania, G., 4; Preziotti, A.; Ricciardi, L., 3; Sacco, F., 11; Scalia, S.; Silvestri, A., 2 & 3; Simoens, G.; *see also* Earthquakes, &c.
- Sicilian Stage.—Gignoux, M.
- Siderite, Auvergne.—Barbier, P., 2.
- , Goslar.—Baumhauer, H.
- Siderocrinites.—Wood, E.
- Siderolitic deposits, origin of.—Fleury, E.
- Siebengebirge (Rh. Prussia).—Bleibtreu, K.
- Sieberella.—Clarke, J. M., 2.
- Sieg R. (Rh. Prussia).—Kruse, J., 1 & 2.
- Siena (Italy).—Barbiani, A.; Fucini, A., 2; Vinassa de Regny, P. E.
- Sierra Nevada (Mexico).—Freundenberg, W., 4.
- Sigaretus.—Toula, F., 4.
- Sigillaria.—Arber, E. A. N., 3; Zalesski, M. D.; *see also* BRAZIL.
- Signal Hill (Otago).—Cotton, C. A.
- Silesia.—Ahlburg, J.; Berg, G.; Buttgenbach, H.; Canaval, R.; Frech, F., 2; Goetzinger, G.; Jahn, J. J.; Juettner, K.; Kukuk, —; Michael, R.; Pietzsch, K.; Rimann, E.; Russwurm, P.; Sachs, A.; Tannhauser, F.
- Silesites.—Jacob, C., 2.
- Silicate inclusions, Toluca meteorite.—Tschermak, G.
- minerals, TSCHERMAK &.—Van Bemmelen, J. M.
- Silicates, cooling of.—Fleischer, A.
- , melting - points of.—Dittler, E.; Døelter, C.; Fleischer, A.; Muegge, O.; Schmidt, Marg.
- Siliceous oolite, Meuse Valley Tertiary.—Briquet, A., 4.
- , Rhenish brown coal.—Pohlig, H., 3.
- , pebbles, Rhine Valley.—Mordziol, C., 3.
- Silicification of fossils.—Bassler, R. S.
- Silicified palm-tree with artificial notch, Java.—Rutot, A., 6.
- wood, Carboniferous & Permian.—Schuster, J.
- Silurian, America (N.).—Grabau, A. W., 1 & 2; Willis, B.
- , Ayr.—Reed, F. R. C., 5.
- , Belgium.—Malaise, C., 1 & 4.
- , Bulgaria.—Allahverdijew, D.
- , Carnarvon.—Elles, G. L.
- , Carnic Alps.—Vinassa de Regny, P. E., 4.
- , Indiana & Kentucky.—Bassler, R. S., 2; Færste, A. F.
- Silurian, Kent.—Whitaker, W., 2.
- , Lake Balkhash.—Stepanov, P.
- , Michigan.—Lane, A. C., 3; Sherzer, W. H., 2.
- , New South Wales.—Chapman, F., 3; Etheridge, R. *fil.*, 2 & 3.
- , New York.—Lane, A. C., 3.
- , Nova Scotia.—Twenhofel, W. H.
- , Novaya Zemlya.—Roussanov, V.
- , Ohio.—Færste, A. F.; Lane, A. C., 3.
- , Ontario.—Grant, C. C.
- , oolitic iron in French.—Cayeux, L., 1 & 2.
- , Picardy.—Briquet, A., 6.
- , Pilsenetz.—Zelzko, J. V.
- , Somerset.—Reynolds, S. H., 2.
- , Tennessee.—Pate, W. F.; Wood, E.
- , Tongking.—Mansuy, H., 2.
- , Venezuela.—Salomon, W., 3.
- , Victoria.—Chapman, F.
- Silver, Altai Mts.—Hotz, W., 3.
- , Canada.—*See* CANADA, 2.
- , Chile.—*See* CHILE.
- , Colorado.—Spurr, J. E., 1 & 4.
- , Hautes Pyrénées.—Van Ness, W. W.
- , Massachusetts.—Clapp, C. H.
- , Mexico.—Bordeaux, A. F. J.; Herrick, R. L., 3; Ordóñez, E., 1 & 2; Spurr, J. E., 3.
- , Nevada.—Larsh, W. S.
- , New Mexico.—Keyes, C. R., 5.
- , Peru.—Adams, G. I.; Diaz, L. F.; Dueñas, E. I.; Gastelumendy, A. C.; Herrera, C.; Jochamovitz, A.
- , Shan States.—La Touche, T. D.
- , Thuringia.—Hess von Wichdorff, H.
- , Victoria.—Dunn, E. J., 19 & 22.
- Silver Islet (Lake Superior).—McDermott, W.
- Silverton (Colo.).—Berg, G., 2.
- Simbirsk Gov. (Russia).—Krotov, P.; Palibin, I. V.
- Simolestes.—Andrews, C. W., 2.
- Sind (India).—Pilgrim, G. E.
- Sindon.—Sellards, E. H.
- Singapore.—Scrivenor, J. B., 3.
- Sinj (Dalmatia).—Kerner, F. von.
- Sinjako (Bosnia).—Katzer, F. von.
- Sinopa.—Matthew, W. D.
- Siphonodendron.—Grosch, P.
- Siphonosphera.—Principi, P., 2.
- Sirua, Jebel (Morocco).—Gentil, L., 2.
- Sitaparite.—Fermor, L. L.
- Sittard (Dutch Limburg).—Briquet, A., 10.
- Skiodroms, crystallography &.—Sommerfeldt, E.
- Sknč (Bohemia).—Fritsch, A.
- Slags, cooling of.—Fleischer, A.
- , minerals in.—Michel, L.; Schmidt, Marg.
- Slates, Arkansas.—Purdue, A. H.
- , Easdale 1.—Peach, B. N., 2.
- , Rhenish Prussia.—Fliegel, G.; (Estreich, K., 1 & 3; Wilckens, O.

- Slates, Thuringia.—Zimmermann, E., 2.
 Slaviansoserbsk (Ekaterinoslav).—Mushketov, D. J.
 Slickensides, Attenhain.—Freitag, B.
 Sluggan Bog (Antrim).—Welch, R.
 Småland (Sweden).—Arenander, E. O.
 SMEYSTERS, J., *Obit.*—Fraipont, J., 2.
 SMITH, TOULMIN. *Biogr.*—Watts, W. W.
 Smithsonite.—Serra, A., 2.
Smittia.—Canu, F.
 Snowdon (N. Wales).—Davis, W. M.
 Snowdown (Kent).—Coke, G. E.
 Snowfall, erosion &.—Lampugh, G. W.
 Snow-line, Argentine Andes.—Hauthal, R.
 Snowy R. (Vict.).—Dunn, E. J., 16.
 Soda-deposits, Argentina.—Zillnerlo, A.
 ———, Colorado.—Headden, W. P., 2.
 Sodalite, Transvaal.—Brouwer, H. A.
 Sodalite-trachyte, Teneriffe.—Preiswerk, H.
 Soils, Auvergne.—Garrigou-Lagrange, P.; Meunier, S.
 ———, Australia.—Cherry, T.
 ———, Cape Colony.—Juritz, C. F.
 ———, Finland.—Leiviskä, I., 3.
 ———, Herts.—Woodward, H. B., 4.
 ———, Hungary.—Horusitzky, H., 1 & 2;
 Timkó, E.; Treitz, P.
 ———, Morocco.—Gentil, L., 3.
 ———, Prussia (E.).—Tornquist, A.
 ———, Samara Gov.—Tikhonovitch, N.
 ———, Småland.—Arenander, E. A.
 ———, Yorkshire.—Smith, W. G.
 ———, organisms of.—Schwarz, E. H. L., 5.
 ———, origin of.—Dumont, J.
 ———, study of.—Sauer, A.
 ———, vegetation &.—Smith, W. G.
 ———, water in.—Latham, B., 3; Leather, J. W.; Richardson, L. F.
 ———. *See also* Peat, &c.
 Soimonovsk Valley (Perm).—Knox, H. H.; Nikolaev, A.
 Sokoro (Sudan).—Gentil, L., 9.
 Solander Is. (N.Z.).—Speight, R., 2.
Solecardia.—Cerulli-Irelli, S.
Solecurtus.—Toula, F., 4; Woods, H., 2.
Solen.—Dall, W. H., 2.
 Solenhofen Beds, Bavaria.—Rothpletz, A.
Solenomorpha & *Solenomya*.—Hind, W., 3.
Solenopsis.—Sommer, K.
 Solfataras, Java.—Brun, A., 3.
 Solidification, magmas &.—Aston, J.
 Solution theory, valley-formation &.—Bromehead, C. N.
 Solutions, vein deposits &.—Sullivan, E. C.
 Somaliland (E. Afr.).—Dacqué, E.
 Somersct.—Jordan, R.; Martin, E. C.; Perceval, S. G.; Pringle, J.; Reynolds, S. H., 2; Richardson, L., 4, 6, 9, & 10; Smith, H. B.; Winwood, H. H.
 Somma, Mte. (Naples).—Johnston-Lavis, H. J.
 Somme Valley (France).—Briquet, A., 3; Comment, V., 1 & 2.
 Somron Seng (Tongking).—Mansuy, H.
Sommeratia.—Sinzov, I., 2.
 Sonora (Mex.).—Herricks, R. L., 3.
Sophobombus.—Cockerell, T. D. A., 5.
 SORBY, H. C., *Obit.*—Kendall, P. F.; Sollas, W. J.
Sorbus.—Menzel, P.
 Soufrière (St. Vincent).—Anderson, T.
 South Australia.—Basedow, H., 2 & 3; Howchin, W., 1 & 2; Taylor, T. G.; Woolnough, W. G.; *see also* SOUTH AUSTRALIA, 1-3.
 South Island (N.Z.).—Finlayson, A. M.
 Southern Cross (W. Austral.).—Woodward, H. P.
 Spa (Liège).—Fraipont, C., 2.
 Spain.—Choffat, P., 5; Depéret, C.; Douvillé, H., 2; Nicklés, R.; Redlich, K. A., 5; *see also* Alicante, Cretaceous, Granada, &c.
 Spalato (Dalmatia).—Kerner, F. von.
Spaniaster.—Schoendorf, F., 1 & 2.
Spatangus.—Pack, R. W.
 Spathic iron-ore, Puy-de-Dôme.—Barbier, P., 2.
 Specular iron-ore, Dartmoor.—MacAlister, D. A.
Sphacelaria.—Teiling, E.
Sphæria.—Engelhardt, H.
Sphærodus.—Trabucco, G.
 Sphaerosiderite.—Baumbauer, H.
Spheroptera.—Meunier, F., 2.
Sphenophyllum.—Zaleski, M. D.
Sphenopteris.—Arber, E. A. N.; Chapman, F., 5; Seward, A. C.
Sphenotus.—Clarke, J. M., 2.
 Spherulites.—Chevalier, J.
 Spiazzi (Venetia).—Tommasi, A.
Spiræa.—Menzel, P.
 SPIREK, V., *Obit.*—Angelis d'Ossat, G. d'.
Spirifer.—Clarke, J. M., 2; Douglas, J. A.; Fœrste, A. F.; Girty, G. H., 2; Græber, P.; Mansuy, H., 2; Reed, F. R. C.; Somner, K.; Yakovlev, N., 3.
Spiriferina.—Dal Piaz, G.; Diener, C., 3; Girty, G. H., 2; Græber, P.; Kittl, E.; Mansuy, H., 2; Toula, F., 5; Trauth, F.; Yakovlev, N., 3.
Spiroceras.—Borisjak, A., 3.
Spirorbis.—Girty, G. H., 2; Reed, F. R. C.
 ——— -limestone, Staffordshire & Warwickshire.—Cantrill, T. C.
Spirigera.—Diener, C., 3; Vinassa de Regny, P. E., 4.
Spirina.—Vinassa de Regny, P. E., 4.
Spirula.—Dall, W. H., 2.
 Spiti (Himalayas).—Diener, C., 3.
Spiticeras.—Kilian, W.
 Spitsbergen.—Bruce, W. S.; Geer, G. de; Nathorst, A. G., 7; Sokolov, D. N., 4.

- Sponges, Carboniferous.—Girty, G. H., 1 & 2.
 —, Cretaceous.—Wanderer, K., 2.
 —, Devonian.—Mailieux, E., 5.
 —, Permian.—Gertli, H.
 —, Tertiary.—Giattini, G. B., 2.
 —, Triassic.—Travis, C. B.
Spongiomorpha.—Haas, O.
 Spongiostromides, Triassic.—Haack, W.
Spongotrochus.—Principi, P., 2.
 Spores, Triassic plant.—Wuest, E.
 Springs, ground water &.—Tornquist, A., 3.
Squamularia.—Girty, G. H., 2.
Squatina.—Leriche, M., 9 & 12.
Stachyotaxus.—Nathorst, A. G.
Stachypteris.—Salfeld, H., 2.
 Staffordshire.—Cantrill, T. C.
 Stahnsdorf (Brandenburg).—Keilhack, K., 3.
 Stainmore (Westmorland).—Gibson, R. J. H.
 Stalactites & stalagmites, Belgium.—Prinz, W.
 Stampian, Liguria.—Rovereto, G.
 STANLEY, W. F., *Obit.*—Anon., 19.
 Stanley Falls (Congo).—Passau, G.
 Stanleyville (Congo).—Cornet, J., 10.
 Start Bay (Devon).—Worth, R. H.
 Stassfurt (Germany).—Busz, K.
 Staurolite, Devon.—Thomas, H. H.
Staurolonche.—Principi, P., 2.
 Stauropol Gov. (Russia).—Sinzov, I., 5.
Staurosphaera.—Principi, P., 2.
 Stawell (Vict.).—Dunn, E. J., 2.
 Steam-coal, English.—Knowles, Sir L.; see also Anthracite.
 Steben (Bavaria).—Schwager, A.
 Steben, Bad (Bavaria).—Walther, K.
 Stegocephali.—Broili, F.; Schwarz, H.
 STEINMANN'S classification of reptilia.—Jækel, O., 2.
 Stellerite.—Morozewicz, J., 3.
Stemma.—Sellards, E. H.
Stemmatocerinus.—Wood, E.
Stenodictya.—Meunier, F., 3.
Steneosaurus.—Andrews, C. W.; Auer, E.
Stenopora.—Girty, G. H., 2; Haas, O., 2.
Stenopteris.—Chapman, F., 5; Dun, W. S.
 Stephanian, Commenyry.—Meunier, F., 2 & 3.
Stephanoblatta.—Leriche, M., 7.
Stephanoceras.—Baum, F.; Benecke, E. W.; Borisyak, A., 3.
Stephanocænia.—Felix, J.
 Steppe-hypothesis, Quaternary fauna of N. Europe.—Menzel, H.; Wollemann, A., 2.
 Sterling Hill (N.J.).—Spencer, A. C., 2.
 Stevns Klint (Denmark).—Milthers, V.
 Steyr (Upper Austria).—Till, A.
Sthenaropoda.—Meunier, F., 3.
Sthenurus.—Glauert, L.
 Stibiotantalite.—Ungemach, H.
Stichocapsa & *Stichocorys*.—Principi, P., 2.
 Stiereck (Tyrol).—Hammer, W.
Stigmaria.—Zaleski, M. D.
 —, wood of.—Weiss, F. E.
 Stinchcombe Hill (Gloucester).—Richardson, L., 5.
 Stirlingshire (Scotland).—Martin, N.
 Stockdale (Vict.).—Dunn, E. J., 24.
 Stockholm (Sweden).—Geijer, P.
Stolleyella.—Karpinsky, A. P., 3.
Stomatopora.—Cann, F., 2.
 Stone age, Africa (N.).—Chantre, E.
 —, British Is.—Smith, F.
 — circles, Keswick & Peurith. — Woolacott, D., 3.
 — industries, Sweden. — Hedström, H.
 — quarrying. — Elsdon, J. V., 2; Greenwell, A.
 — rivers, Falkland Is.—Skottsberg, C.
 'Stone-seas,' talus &.—Svenonius, F.
 Stonesfield (Oxon).—Bayzand, C. J.
 Stony Creek (Vict.).—Easton, J.
 Stora Strand (Gotthland).—Johansson, H. E.
Storthingocrinus.—Reed, F. R. C.
 Stour Valley (Essex).—Wood, J. M.
 Stowell (Somerset).—Pringle, J.
 Stramberg (Moravia).—Remesš, M.
 Streckau (Saxony).—Stremme, H., 4.
Strepsidura.—Dall, W. H., 2.
Strepsodus.—Leriche, M., 10.
Streptis.—Reed, F. R. S., 2.
Streptorhynchus.—Girty, G. H., 2; Mailieux, E., 7.
 Striae, Altenhain non-glacial.—Freitag, B.
 — on flint implements. — Clarke, W. G.
 Striated gravels, Kent.—Larkby, J. R.
 — stones, Warmakariri Valley (N.Z.). — Gudex, M. C.
Striatopora.—Reed, F. R. C.
Strigogyys.—Gaillard, C.
Stringocephalus-limestone, brachiopod fauna.—Holzapfel, E., 2.
Stromatidium.—Girty, G. H., 2.
Stromatolites.—Haack, W.
Stromatopora.—Stepanov, P.; Vinassa de Regny, P. E., 3.
Stromatoporella.—Reed, F. R. C.
 Stromboli.—Platania, G., 1 & 3.
Strombus.—Tæger, H.; Toula, F., 4.
 Strood (Kent).—Dibley, G. E., 2.
Strophalosia.—Girty, G. H., 2; Yakovlev, N.
Stropheodonta.—Clarke, J. M., 2; Færste, A. F.; Reed, F. R. C.
Strophomena.—Mansuy, H., 2; Vinassa de Regny, P. E., 4.
 Strophomenidae, Silurian. — Yakovlev, N.
Strophonella.—Reed, F. R. C.
 Stroud (Gloucester).—Richardson, L., 12.
 Stuttgart (Württemberg).—Stoller, J., 3.
Stylina.—Felix, J.
Styliola.—Mansuy, H.

- Stylocapsa*, *Stylodictya*, & *Stylosphæra*.—Principi, P., 2.
- Stylocenia*.—Felix, J., 2.
- Stylophyllum*.—Haas, O., 2.
- Styria (Austria).—Ascher, E.; Bach, F., 2 & 4; Beundorf, H.; Haas, O., 2; Hauptmann, L.; Heritsch, F., 2 & 3; Hilber, V., 2; Kern, F.; Leitmeiser, H., 1-3; Preiss, C.; Redlich, K. A., 3, 4, & 5; Rožič, J.; Schmidt, C.; Sigmund, A., 2; Stiny, J., 3; Wellik, A.; Zdarsky, A.
- Styrianautilus*.—Diener, C., 2 & 3.
- Subiaco, Pietra di (Rome).—Parona, C. F., 2.
- Submarine eruptions, Mediterranean.—Washington, H. S.
- Succinite, amber &.—Jonas, R.
- Sudan (N. Africa).—Lacroix, A., 14; Lemoine, P., 14, 15, & 16; Garde, G., 1-3; Gentil, L., 9; Grabham, G. W.; Vischer, H.
- Sudbury (Ont.).—Blake, G. S.
- Suffolk.—Harmer, F. W., 1 & 2; Leriche, M., 5; Whitaker, W.
- Sugana Valley (Tyrol).—Trener, G. B., 2.
- Suidæ, Tertiary.—Stehlin, H. G.
- Sulitjelma Mt. (Norway).—Stutzer, O., 2.
- Sulphur, Java.—Brun, A., 3.
- , Lipari Is.—Billows, E., 2.
- , Marches (Italy).—Ugolini, R.
- , Pennsylvania.—Chance, H. M.
- Sumatra (D.E.I.).—Hœfer, H.; Stegmann, H.
- Sun, influence on earthquakes.—Cooper, A.
- Sunnyside (Utah).—Richardson, G. B.
- Süntel district (Oldenburg).—Scholz, E.
- Superior, Lake (N. Am.).—Collins, W. H., 2; Lane, A. C., 2; McDermott, W.
- Surakhani (Baku).—Golubyatnikov, D. V.; Rakusin, M. A., 2.
- Suretta massif (Grisons).—Meyer, H.
- Surface-geology, Ireland.—Cole, G. A. J., 1 & 2.
- Surrey.—Chandler, R. H., 1, 4, & 5; Clinch, G.; Hinde, G. J.; Latham, B., 1-3; Robarts, N. F.; Young, G. W., 1 & 3; *see also* INDIA, Survey.
- Survey of India.—*See* INDIA, Survey.
- Sussex.—Abbott, W. J. L.; Clinch, G.; Elsdon, J. V.; Heron-Allen, E.; Martin, E. A.; Sherborn, C. D.; Whitaker, W.
- Sussex Co. (N.J.).—Spencer, A. C., 2.
- Swabia.—Dietrich, W.; Henzel, L.; Lang, R., 2; Regelmann, C., 1 & 2.
- Swallow-holes, Hants.—Pitt, W.
- , Kent.—Bennett, F. J.
- in limestone.—Dixon, E. E. L.
- Swanscombe (Kent).—Johnston, M. S., 2.
- Swaziland (S. Afr.).—Henderson, J. McC.; Rumbold, W. R., 2.
- Sweden.—Andersson, J. G., 1 & 2; Hedström, H.; Holst, N. O., 1 & 2; Høgbom, A. G., 1 & 2; Holmquist, P. J.; Nathorst, A. G., 1, 2, & 6; Nicou, P.; Rauw, H. de; Redlich, K. A., 5; Sederholm, J. J.; Svedmark, E.; *see also* Building-stones, Cambrian, &c.
- SWEDENBERG, E., *Biogr.*—Raymond, R. W., 3.
- Swedish Explorations in Spitsbergen, 1758-1908.—Nathorst, A. G., 7.
- Switzerland.—Avebury, Lord; Fleury, E.; Forel, F. A., 1 & 2; Hotz, W., 2; Romer, E.; Sarasin, C.; Schardt, H., 1-6; Stehlin, H. G.; *see also* Alps, Fribourg, Fylsch, Jura, &c.
- Svyatoi I. (Baku).—Golubyatnikov, D. V., 2.
- Syenites, Ayrshire.—Tyrrell, G. W., 1 & 4.
- , Ontario.—Adams, F. D., 3.
- , Transvaal.—Brouwer, H. A.
- Symbathocrinus*.—Wood, E.
- Symphysurus*.—Reed, F. R. C., 2.
- Symplocos*.—Menzel, P.
- Syndal (Tasmania).—Nœtling, F., 5.
- Synthetodus*.—Eastman, C. R.
- Syria.—Felix, J.; Parona, C. F., 3.
- Syringium*.—Principi, P., 2.
- Syringothyris* Zone, Co. Clare.—Douglas, J. A.
- SZABÓ Monument.—Szontagh, T. von, 2.
- Szelistye (Hungary).—Halaváts, G. von.
- Szilicze plateau (Hungary).—Boeckh, H. von.
- Szörény (Hungary).—Rozlozsnik, P., 2.
- Table Cape (Tasm.).—David, T. W. E., 2.
- Tadmayt plateau (Sahara).—Flamand, G. B. M.
- Taniopodites*.—Cockerell, T. D. A., 2.
- Teniopteris*.—Chapman, F., 5; Salzföld, H., 2.
- Talavocrinus*.—Wood, E.
- Tallong (N.S.W.).—Hall, T. S.
- Talus & 'stone-seas.'—Svenonius, F.
- Tamana district (Trinidad).—Guppy, R. J. L., 2.
- Tamar R. (Tasmania).—Stephens, T.
- Tana, Lake (Abyssinia).—Duchesne-Fournet, J.
- Tanana R. (Alaska).—Covert, C. C.; Prindle, L. M.
- Tanga I. (German E. Africa).—Kört, W.
- Tautalm.—Giles, W. B.; Simpson, E. S.; Walthier, P.
- Taormina district (Sicily).—Limnanowski, M.
- Tapes*.—Cerulli-Irelli, S.; Madsen, V.
- Tapinocephalus*.—Broom, R., 7.
- Tarannellite, Piedmont.—Taccioni, E.
- Tarannon, Grand-Mamil.—Malaise, C., 2.
- Tarapacá (Chile).—Zilleruelo, A.

- Tarascon-sur-Ariège (France).—Martel, E. A.
 Tarentaise group (Savoy).—Gérardin, P.; Girardin, P., 2.
 Tarlton (Gloucester).—Upton, C.
 Tarn (Languedoc).—Gaillard, C.; Termier, P.
 Tarnagulla (Victoria).—Howitt, A. M.
 Tarnthal mass (Tyrol).—Crick, G. C.; Young, A. P.
 Tasmania.—David, T. W. E., 2; Næstling, F., 1-4; Stephens, T.; Twelvetrees, W. H., 1-4; Ward, L. K.; *see also* TASMANIA, 1-5.
 Tata (Hungary).—Koch, F.; Kormos, T., 3.
 Tatár-Szentgyörgy (Hungary).—Guell, W.
 Tatra Mts. (Hungary).—Lugeon, M., 3; Uhlig, V., 3.
 Tau Mts. (Bokhara).—Borisvák, A., 5.
 Tauern Alps (Austria).—Hauptmann, L.; Heritsch, F.
 Tauern, Hohe (Tyrol).—Sander, B.
 ——— Railway (Tyrol).—Becke, F.; Berwerth, F.
 Taunton (Somerset) Museum.—Perceval, S. G.
Taxodium.—Engelhardt, H.; Menzel, P.
 Tay, Loch (Scotland).—Eisenmenger, G., 2.
 Taya, Jebel (Algeria).—Blayac, J.
 Tayacaja (Peru).—Dueñas, E. I.
 Taylorsville (Cal.).—Diller, J. S., 2.
 TEALL, J. J. H., *Biogr.*—Anon., 23.
 Teesdale (Durham).—Gibson, R. J. H.
 Teeth, cephalopodan.—Till, A., 3.
 ———, reptilian and substitutes for.—Pycraft, W. P.
Tegula.—Dall, W. H., 2.
Tegulifera.—Girty, G. H.
 Tehuantepec (Mexico).—Toula, F., 4.
Teimostoma.—Remeš, M.
 Tektite.—Suess, F. E., 5.
Teleoceras.—Bach, F., 3; Olcott, T. F.; Zdarsky, A.
 Teleostean fins.—Dollo, L.
Telephus.—Reed, F. R. C., 2.
 Tell district (Atlas Mts.).—Joleaud, L., 4; Savornin, J.
Tellinmya.—Grønwall, K. A., 2.
Tellina.—Dall, W. H., 2; Dollfus, G. F.; Tæger, H.; Toula, F., 4.
 Tellurides, distribution of.—Lenber, V.
 Telluride-ore deposits.—Maclaren, J. M.
 Tellurium minerals, Lipari Is.—Billows, E., 2.
 Temperatures, underground.—Anderson, E. M.; Leprince-Ringuet, F.
 Templeogue (Dublin).—Cole, G. A. J., 2.
 Templeux-la-Fosse (Nord).—Douxami, H., 5.
 Tenby (Pembroke).—Leach, A. L.
 Teneriffe (Canary Is.).—Anon., 41; Boettger, O.; Preiswerk, H.; Schultze, M.
 Tennessee (U.S.A.).—Paté, W. F.; Wood, E.
Tentaculites.—Mansuy, H., 2.
 Tephrite, Franche-Comté.—Giraud, J.
 ———, German E. Africa.—Mauritz, B., 2.
Teratornis.—Miller, L. H.
Terebra.—Toula, F., 4.
Terebratula.—Dal Piaz, G.; Diener, C., 3; Trauth, F.; Wittenburg, P. von, 4.
 ———, limestone, Germany.—Henzel, L.
Terebripora.—Trabucco, G.
Teredo.—Grønwall, K. A., 2; Woods, H., 2.
 Terek (Caucasus).—Langwagen, J. V.
 Ternovan plateau (Goritz).—Kosmat, F.
Terquemia.—Toula, F., 5.
 Terrapene.—Hay, O. P.
 Teschen (Austrian Silesia).—Kukuk, —; Michael, R.
Testudo.—Lambe, L. M.
 Terrace-deposits, E. Africa.—Werth, E.
 Terraces, Hanover.—Olbricht, K., 1 & 2.
 ———, Karjel.—Tanner, V., 3.
 ———, Rhine Valley.—Freudenberg, W.; Mordziol, C., 1-3; Estreich, K., 1 & 3.
 ———, Vesdre Valley.—Renier, A., 7.
 Tertiary, Abruzzi.—Giattini, G. B., 1 & 2.
 ———, Algeria.—Dautzenberg, P.; Joly, A.; Roussel, J.
 ———, Alsace.—Førster, B., 1 & 2.
 ———, America (North).—Willis, B.
 ———, N. & S. America.—Scharff, R. F.
 ———, Basses - Pyrénées. — Degrange - Touzin, A.
 ———, Belgium.—Briquet, A., 5; Delheid, E.; Destinez, P.; Passau, G., 2; Rutot, A.; Schmitz, G.; Velge, G.
 ———, Bohemia.—Menzel, P., 2; Reininger, H.
 ———, Bovey Basin.—Jukes-Browne, A., 2.
 ———, Brandenburg.—Menzel, P.
 ———, Bridger Basin.—Matthew, W. D.
 ———, British Columbia.—Penhallow, D. P.
 ———, California.—Arnold, R., 1 & 2; Pack, R. W.; Weaver, C. E., 1 & 2;
 ———, Carpathians.—Sawicki, L. R. von.
 ———, Caucasus.—Bogachev, V.
 ———, Denmark.—Grønwall, K. A., 1 & 2.
 ———, Dutch East Indies.—Dollfus, G. F., 3.
 ———, East Prussia. — Caspary, R.; Krause, P. G.
 ———, English & Continental.—Kønen, A. von, 2.
 ———, France (S.W.).—Canu, F.; Degrange-Touzin, A., 5; Dollfus, G. F.
 ———, Greece.—Ktenas, K. A.
 ———, Holland.—Briquet, A., 5; Gracht, W. A. J. M. Van W. van der; Ravn, J. P. J.; Tesch, P.

- Tertiary, Hungary.—Roth von Telegd, K., 3; Tager, H.
- , Hampshire & London Basins.—Courty, G.
- , Hesse.—Freudenberg, W.; Schinderhuetten, G.
- , Isle of Purbeck.—Keeping, H.
- , Isle of Wight.—Boussac, J.
- , Kharga Oasis.—Beadnell, H. J. L.
- , Languedoc.—Gaillard, C.; Jo-leaud, L.
- , Madagascar.—Douville, R., 4.
- , Mainz Basin.—Kobelt, W.
- , Marne.—Leriche, M., 6 & 9.
- , Moravia.—Rzhák, A.
- , Morvan & Loire.—Lemoine, P., 13.
- , Nord.—Douxami, H., 5.
- , Norfolk & Suffolk.—Harmer, F. W.
- , Oregon.—Dall, W. H., 2.
- , Orléanais.—Combes, P.
- , Pacific Coast, N. America.—Arnold, R., 4; Dall, W. H., 1 & 2.
- , Panama.—Toula, F., 4.
- , Paris Basin.—Boussac, J., 2 & 4; Cossmann, M., 3; Courty, G.; Dolfus, G. F., 2, 6, & 7; Ramond, G.
- , Piedmont.—Prever, P. L.; Trabucco, G.
- , Pomerania.—Deecke, W.
- , Rhenish Prussia.—Brockmeier, H.; Mordziol, C., 1-3.
- , Rumania.—Botez, G.; Teisseyre, W.
- , Saratov Gov.—Arkhangelski, A. D.
- , Sardinia.—Ugolini, R., 2.
- , Saskatchewan.—Lambe, L. M.
- , Servia.—Pavlović, P. S., 1 & 2.
- , Siberia.—Bogachev, V., 2; Wittenburg, P. von, 4.
- , Spain.—Depéret, C.
- , Sudan.—Lemoine, P., 16.
- , Tasmania.—Netling, F., 2.
- , Tunis.—Fourtau, R.; Roussel, J.
- , Turkey.—Pavlović, P. S., 1 & 2.
- , Venetia.—Oppenheim, P., 2.
- , Westphalia.—Jentsch, A.
- , Wyoming.—Blackwelder, E., 3.
- , sands, andalusite in.—Thomas, H. H., 2.
- , See also Eocene, Stampian, &c.
- Tetrabelodon*.—Andrews, C. W., 3.
- Tetrahedrite.—Duerrfeld, V., 3; Ungemach, H., 4.
- Terbium.—Urbain, G.
- Teutoburg Forest (Germany).—Wegner, T. H.; Wetzel, W.
- Texas (U.S.A.).—Cunnings, W. F.; Gordon, C. H.; Harris, G. D.; Paige, S.; Udden, J. A.; Weller, S., 2.
- Tezio, Mte. (Umbria).—Principi, P.
- Thamnastræa*.—Haas, O., 2.
- Thamnisus*.—Girty, G. H., 2.
- Thamnograptus*.—Brassler, R. S. [Bassler].
- Thamnopteris*.—Gwynne-Vaughan, D. T.; Kidston, R., 2.
- Thanamites*.—Diener, C., 3.
- Thanetian, Oise.—Morellet, L.
- Thau, Lake (Hérault).—Chevallier, —; Sudry, L.
- Thecidea*.—Siemiradzki, J.
- Thecosmilæa*.—Haas, O., 2; Prever, P. L.
- Thecosphæra & Theocorys*.—Principi, P., 2.
- Theresa (N.Y.).—Cushing, H. P.
- Thermal springs, Rajmahal Hills.—Hayden, H. H.
- , waters, Budapest.—Pálffy, M. von.
- , Emilia.—Pantanelli, D.
- , France.—Launay, L. de, 3; Moureu, C.; Nicolas, A.
- , Lorraine.—Van Weerke, L., 2.
- , Rome.—Sabatini, V.
- , Venetia.—Nicolis, F. de.
- Thermometamorphism, crystallization &—Rinne, F., 3.
- Thiemella*.—Williams, H. S.
- Thinnfeldia*.—Dun, W. S.; Salfeld, H., 2.
- Thinoeyon*.—Matthew, W. D.
- Thoina (Sicily).—Scalia, S.
- Thomar (Portugal).—Choffat, P., 3.
- Thomas Range (Utah).—Patton, H. B.
- Thorianite.—Dunn, E. J., 25; Strutt, R. J.
- Thorium, earth's surface &.—Blanc, G. A.; Joly, J., 3.
- , minerals.—Gray, G. J.; Mingaye, J. C. H.
- Thornton (Yorks).—Wilmore, A.
- Thoula Creek (Vict.).—Dunn, E. J., 23.
- Thracia*.—Dall, W. H., 2; Healey, M.; Krause, P. G.; Toula, F., 4; Trauth, F.; Woods, H., 2.
- Thrusts, Jemtland.—Hægbohm, A. G.
- , Tyrol.—Gordon, M. M. O., 1 & 2.
- Thunder Bay (Ont.).—Hille, F.; Parsons, A. L.; Wilson, W. J.
- Thuringia (Germany).—Compter, G.; Eisel, R.; Hess von Wichdorff, H.; Johnsen, A., 5; Kolesch, K.; Naumann, E.; Sieburg, R.; Wuest, E., 2-4; Zimmermann, E., 2.
- Thysanura*.—Offers, E. W. M. von.
- Tian-Shan Mts. (Asia).—Græber, P.
- Tiber R. (Italy).—Verri, A., 1 & 2.
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 —, Bolivia.—Ender, A.; Rumbold, W. R.
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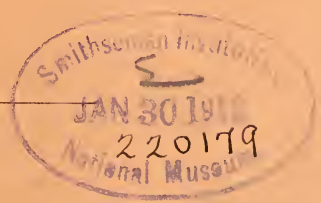
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- Arch. naturw. Landesl. Böhmen.* Archiv der naturwissenschaftlichen Landesdurchforschung von Böhmen. Prague.
- Arch. néerland. Sci.* Archives des Sciences exactes et naturelles, publiées par la Société hollandaise des Sciences à Harlem. The Hague.
- Ark. f. (Bot.; Kemi, Min. & Geol.; or Zool.) K. svenska Vet.-Akad.* Arkiv för Botanik (&c.) utgifvet af K. svenska Vetenskaps-Akademiën. Stockholm.
- Athenæum.* Athenæum. 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. ital. Progr. Sci.* Atti della Società italiana per il Progresso delle Scienze. Rome.
- Atti Soc. tosc. Sci. nat.* Atti della Società toscana di Scienze naturali. Pisa.
- 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. Österr.-Ung.* Beiträge zur Paläontologie und Geologie (Esterreich-Ungarus 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 (Baden).
- 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. Karlsruhe.
- 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 Pöftrau und der königlich ungarischen Bergakademie zu Schemnitz. Vienna.
- Bergens Mus. Aarb.* Bergens Museums Aarbog (or Aarberetning). Bergen.

- Bergw. Mitt. Berlin.* Bergwerkschaftliche Mitteilungen. Berlin. See also *Zeitschr. f. prakt. Geol.*
- Bibl. géol., Serv. géol. Belg.* Bibliographica geologica: Service géologique de Belgique. Brussels.
- Bihang k. svenska Vet.-Akad. Handl.* Bihang till kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Bol. Acad. Nac. Córdoba.* 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. Comm. geogr. e geol. S. Paulo.* Boletim da Comissão geographica e geologica do Estado de São Paulo. São Paulo (Brazil).
- 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. géol. 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.
- Bol. Soc. Nac. Minería, Santiago.* Boletín de la Sociedad Nacional de Minería. Santiago de Chile.
- Boll. Soc. geol. ital.* Bollettino della Società geologica italiana. Rome.
- Brit. Assoc. Adv. Sci.* British Association for the Advancement of Science. London.
- British Columbia, Dep. Mines.* British Columbia: Department of Mines. Victoria (B.C.).
- 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. Buffalo Soc. Nat. Sci.* Bulletin of the Buffalo Society of Natural Sciences. Buffalo (N.J.).
- 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. Conn. Geol. & Nat. Hist. Surv.* Bulletin of the Connecticut State Geological and Natural History Survey. Hartford (Conn.).
- 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.). See also *Georgia, Geol. Surv.*
- Bull. Geol. Surv. N.Z.* See *N.Z. Dep. Mines, Geol. Surv.*
- 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. Ill. Geol. Surv.* Bulletin of the Illinois State Geological Survey. Urbana (Ill.).
- Bull. Imp. Earthq. Comm. Tokyo.* Bulletin of the Imperial Earthquake Commission. Tokyo.

- Bull. Imp. Inst.* Bulletin of the Imperial Institute. London.
- Bull. Intern. Acad. Sci. Cracovie.* Bulletin International de l'Académie des Sciences. Cracow.
- Bull. Ky. Geol. Surv.* Bulletin of the Kentucky Geological Survey. Lexington (Ky.).
- Bull. Lab. de Géol. &c., Univ. Lausanne.* Bulletin des Laboratoires de Géologie, Géographie physique, Minéralogie et Paléontologie de l'Université de Lausanne. Lausanne.
- 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.Y. State Mus.* Bulletin of the New York State Museum. Albany (N.Y.).
- Bull. Phil. Soc. Wash.* Bulletin of the Philosophical Society. Washington (D.C.).
- Bull. Serv. Carte géol. France.* Bulletin des Services de la Carte géologique de la France. Paris.
- Bull. Soc. Agric. Sci. Puy.* Bulletin de la Société d'Agriculture, Science, Arts et Commerce du Puy. Le Puy.
- 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. fribourg. Sci. nat.* Bulletin de la Société fribourgeoise des Sciences naturelles. Fribourg.
- Bull. Soc. géol. France.* Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Norm.* Bulletin de la Société géologique de Normandie. Le 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. portugaise Sci. nat.* Bulletin de la Société portugaise des Sciences naturelles. Lisbon.
- 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. Spéol. 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. U.S. Nat. Mus.* Bulletin of the United States National Museum. Washington (D.C.).
- Bull. Univ. Cal.* Bulletin of the University of California. Berkeley (Cal.).
- Bull. Univ. Kansas.* See *Sci. Bull. Univ. Kansas.*
- Bull. Univ. Oklahoma.* See *Oklahoma.*
- Bull. Univ. Oregon.* Bulletin of the University of Oregon. Eugen (Or.).
- Bull. Univ. Wisc.* Bulletin of the University of Wisconsin. Madison (Wis.).
- Bull. Wash. Geol. Surv.* Bulletin of the Washington Geological Survey. Olympia (Wash.).
- 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.
- Canada, Dep. Mines.* Canada: Department of Mines. Ottawa.
- 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.
- 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 geológico de Portugal. Lisbon.
- Comm. geogr. e geol. S. Paulo.* Comissão geographica e geologica de São Paulo. São Paulo (Brazil).
- Congrès géol. Internat.* Congrès géologique International. Vienna & Stockholm.
- 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.
- C. R. Soc. helv. Sci. nat.* Compte-rendu des Travaux de la Société helvétique des Sciences naturelles. Geneva.
- 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 Geologicæ Helvetiæ. Lausanne.
- Econ. Geol.* Economic Geology. Lancaster (Pa.).
- Econ. Papers, U.S. Geol. Surv.* Economic Papers, United States Geological Survey. Washington (D.C.).
- Econ. Proc. R. Dublin Soc.* Economic Proceedings of the Royal Dublin Society. Dublin.
- Egypt, Surv. Dep.* Egypt Survey Department & Geological Survey. Cairo.
- Erläut. geogn. Karte Bayern.* Erläuterungen zu der geognostischen Karte des Königreichs Bayern. Munich.
- Erläut. geol. Karte Baden.* Erläuterungen zur geologischen Specialkarte des Grossherzogtums Baden. Heidelberg.
- Erläut. geol. Karte Ungar.* Erläuterungen zur geologischen Specialkarte der Länder der Ungarischen Krone. Budapest.
- Erläut. geol. Karte Würt.* Erläuterungen zur geologischen Specialkarte des Königreichs Württemberg. Stuttgart.
- Essex Nat.* Essex Naturalist, being the Journal of the Essex Field-Club. Stratford.
- Expl. géol. Rég. aurif. Sibérie.* Explorations géologiques dans les Régions aurifères de la Sibérie. St. Petersburg.
- 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. Assoc.* Geologists' Association. 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 Specialkarte des Grossherzogtums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
- Geol. Mag.* Geological Magazine. London.
- Geol. Rundsch., Leipzig.* Geologische Rundschau: Zeitschrift für allgemeine Geologie. Leipzig.
- 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. Paläont. Abh., Jena.* Geologische und Paläontologische Abhandlungen. Jena.
- Geol. Zentralbl.* Geologisches Zentralblatt. Leipzig.
- Georgia, Geol. Surv.* Georgia Geological Survey. Atlanta (Ga.).
- Giorn. Geol. prat.* Giornale di Geologia pratica. Catania.
- 'Glasnik' Soc. Hist. nat. Croatiaica.* Journal of the Natural History Society of Croatia. Agram.

- Great Britain & Ireland. Home Office. Mines & Quarries.* General Report and Statistics. London.
- Hull Mus. Publ.* Hull Museum Publications. Hull.
- Illinois Geol. Surv.* Illinois Geological Survey. Urbana (Ill.).
- Imp. Coll. Sci. London.* Imperial College of Science and Technology. London.
- Indian Engin.* Indian Engineering. Calcutta.
- Internat. Cat. Sci. Lit.* International Catalogue of Scientific Literature. London.
- Internat. Geol.-Kongress.* See *Congrès.*
- Iowa Geol. Surv.* Iowa Geological Survey. Des Moines (Iowa).
- Irish Nat.* Irish Naturalist. Dublin.
- Jaarb. Mijnw. Ned. O.-Ind.* Jaarboek van het Mijnuwezen in Nederlandsch Oost-Indië. Batavia.
- Jaarversl. Rijksop. Delfstoff. Amsterdam.* Jaarverslag der Rijksopsporing van Delfstoffen. 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-Alpenclubs. Bern.
- Jahresb. k.-ung. geol. Anst.* Jahresbericht der königlich ungarischen geologischen Anstalt. Budapest.
- Jahresb. naturh. Gesellsch. Hannover.* Jahresbericht der naturhistorischen Gesellschaft zu Hannover. Hannover.
- Jahresb. naturh. Gesellsch. Nürnberg.* Jahresbericht der naturhistorischen Gesellschaft. Nürnberg.
- Jahresb. niedersächs. geol. Ver.* Jahresbericht des niedersächsischen geologischen Vereins. Hannover.
- 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. Acad. Nat. Sci. Philad.* Journal of the Academy of Natural Sciences, Philadelphia.
- 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. 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 Royal 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. Årsbok.* Kongliga svenska Vetenskaps-Akademiens Årsbok. Stockholm.
- K. svenska Vet.-Akad. Handl.* Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Kansas Univ. Sci. Bull.* See *Sci. Bull. Univ. Kansas.*
- Kentucky Geol. Surv.* Kentucky Geological Survey. Report of Progress Lexington (Ky.). (See also *Bull. Ky. Geol. Surv.*)
- Knowledge.* Knowledge. London.
- 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. dansk geol. Foren.* Meddelelser fra dansk geologisk Forening. Copenhagen.
- Meddel. geogr. Fören. Finland.* Meddelanden af geografiska Föreningen i Finland. Helsingfors.
- Meddel. Grönland.* Meddelelser om Grönland, udgivne af Commissionen for Ledelsen af de Geologiske og Geographiske Undersøgelser i Grönland. Copenhagen.
- 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. Roy. Belg.* Mémoires de l'Académie Royale de Belgique. Brussels.
- 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.* Memoria descrittiva della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
- Mém. Com. géol. Russie.* Mémoires du Comité géologique. St. Petersburg.
- Mem. Geol. Inst. Explor. Netherlands.* See *Mitth. staatl. Bohrverw. Nederl.*
- 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. Indian Mus. Calcutta.* Memoirs of the Indian Museum. Calcutta.
- 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.).

- Mém. Mus. R. Hist. nat. Belg.* Mémoires du Musée Royal d'Histoire naturelle de Belgique. Brussels.
- 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. N.Y. State Mus.* See *N.Y. State Mus.*
- 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. Astron. Soc.* Memoirs of the Royal Astronomical Society. London.
- 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. fribourg. Sci. nat., Géol. et Géogr.* Mémoires de la Société fribourgeoise des Sciences naturelles. Fribourg.
- Mém. Soc. géol. Belg., Liège.* Mémoires de la Société géologique de Belgique. Liège.
- Mém. Soc. géol. France (Paléont.).* Mémoires de la Société géologique de France. Paléontologie. Paris.
- Mém. Soc. géol. Nord.* Mémoires de la Société géologique du Nord. Lille.
- 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. 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. Abtheil. k. würt. Landes.* Mittheilungen der geologischen Abtheilung des k. württembergischen Landesamtes. Stuttgart.
- Mitth. geol. Gesellsch. Wien.* Mittheilungen der geologischen Gesellschaft in 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. Berne.
- Mitth. nat. Ver. Steiermark.* Mittheilungen des naturwissenschaftlichen Vereins für Steiermark. Graz.
- Mitth. staatl. Bohrverw. Nederl.* Mittheilungen der staatlichen Bohrverwaltung in den Niederlanden (Rijksopsporing van Delfstoffen). Amsterdam & The Hague. See also *Jaarversl.*
- Mitth. Ver. Erdk. Dresden.* Mittheilungen des Vereins für Erdkunde. Dresden.
- Monatsb. deutsch. geol. Gesellsch.* Monatsberichte der deutschen geologischen Gesellschaft. Berlin. See also *Zeitschr.*
- Monogr. Paleont. Soc.* Monographs of the Paleontographical Society. London.
- Monogr. Ray Soc.* Monographs of the Ray Society. London.

- Monogr. U.S. Geol. Surv.* Monographs of the United States Geological Survey. Washington (D.C.).
- Monthly Circ. Kent Coal Concess.* Monthly Circular, Kent Coal Concessions. London.
- Mus. Lundii Afh.* E Museo Lundii. Afhandlingar. Copenhagen.
- Mysore Geol. Dep.* Mysore Geological Department. Bangalore.
- Natal Rep. Mining.* Report on the Mining Industry of Natal. Pietermaritzburg.
- Naturalist, Hull.* The Naturalist. Hull.
- Nature.* Nature. London.
- Naturen, Bergen.* Naturen. Bergen.
- Nat. Verh. Holland. Maat. Wet. Haarlem.* Naturkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen. Haarlem.
- Neue Denkschr. schweiz. Gesellsch. Naturw.* Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Basel, &c.
- N. J. f. Min.* Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Norges Geol. Undersök.* Norges Geologiske Undersökelse. Christiania.
- Norges Landbrukshöiskole.* Norges Landbrukshöiskole. Beretning. Christiania.
- 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 grossherzoglich hessischen geologischen Landesanstalt. Darmstadt.
- Nouv. Arch. Mus. Hist. nat. Paris.* Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
- Nouv. Mém. Soc. belge Géol.* Nouveaux Mémoires de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
- Nouv. Mém. Soc. Imp. nat. Moscou.* Nouveaux Mémoires de la Société Impériale des Naturalistes. Moscow.
- Nova Acta Acad. Cæs. Leop.-Car.* Nova Acta Academiae Cæsareæ Leopoldino-Carolinæ Germanicæ Naturæ Curiosorum. Halle. See also *Abh. k. Leop.-Car. deutsch. Akad. Naturf.*
- Nova Scotia, Dep. Mines.* Nova Scotia Department of Mines. Halifax (N.S.).
- N.S.W. Dep. Mines.* New South Wales Department of Mines. Sydney.
- N.Y. State Mus.* New York State Museum. Albany (N.Y.).
- Nyt Magazin.* Nyt Magazin for Naturvidenskaberne. Christiania.
- N.Z. Dep. Mines, Geol. Surv.* New Zealand Department of Mines. Geological Survey. Wellington (N.Z.).
- Occ. Papers, Boston Nat. Hist. Soc.* Occasional Papers of the Boston Natural History Society. Boston (Mass.).
- Öfvers. K. Vet.-Akad. Förh.* Öfversigt af Kongliga Vetenskaps-Akademien's Förhandlingar. Stockholm.
- Oklahoma Univ. Bull.* Oklahoma University Research Bulletin. Norman (Okla.).
- Ottawa Nat.* Ottawa Naturalist. Ottawa.
- Overs. K. danske Vidensk.-Selsk. Forh.* Oversigt over det Kongelige danske Videnskaberne-Selskabs Forhandlingar. Copenhagen.
- Paläont. Abh. Jena.* Paläontologische Abhandlungen. Jena.
- Paläont. Univ.* Paläontologia Universalis. Svo. Paris.
- Paläontographica.* Paläontographica. Stuttgart.
- Paläontographica italica.* Paläontographica 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, New Zealand. 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.
- Philippine Is., Dep. Inter., Bur. Sci.* Philippine Is., Department of the Interior. Bureau of Science. Manila.
- 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. Austral. 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. 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. Cal. Acad. Sci.* Proceedings of the California Academy of Sciences. San Francisco (Cal.).
- 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 (Ind.).
- 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. N.Z. Inst.* Proceedings of the New Zealand Institute. Wellington (N.Z.).
- 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. Roy. 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 (D.C.).
- 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.
- Queensl., Dep. Mines.* Queensland: Department of Mines. Brisbane.
- Ray Soc.* See *Monographs*.
- 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. Indian Mus.* Records of the Indian Museum. Calcutta.
- 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.
- Rec. W. Austral. Mus. Perth.* Records of the Western Australian Museum and Art Gallery. Perth (W. Austral.).
- 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 (N.S.W.).
- 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, India.* Report of the Chief Inspector of Mines in India, Department of Mines. Calcutta.
- 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. Austral.* Report of the Department of Mines, Western Australia. Perth (W. Austral.).
- 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. Rhodesia Chamb. Mines.* Report of the Rhodesia Chamber of Mines. Bulawayo.

- Rep. Rugby School Nat. Hist. Soc.* Report of the Rugby School Natural History Society. Rugby.
- Rep. S. Afr. Assoc. Adv. Sci.* Report of the South African Association for the Advancement of Science. Cape Town.
- Rep. S. Afr. Mus.* Report of the South African Museum. 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. U.S. Nat. Mus.* Report of the United States National Museum. Washington (D.C.).
- Rep. Univ. Geol. Surv. Kansas.* Reports of the University Geological Survey of Kansas. Topeka (Kan.). See also *Ann. Bull. Min. Resources, Kansas.*
- Rep. Vermont State Geol.* Report of the State Geologist of Vermont. Montpelier (Vt.).
- 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 Paléozool.* Revue critique de Paléozoologie. Paris.
- Rev. Inst. geogr. & hist. Bahia.* Revista trimensal do Instituto geographico e historico da Bahia. Bahia (Brazil).
- Rev. Minas, Santiago.* Revista de Minas. Santiago de Chile.
- Rev. Mus. La Plata.* Revista del Museo de la Plata. La Plata.
- 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 Umiejetności. 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. naturh. Ver. preuss. Rheinl.* Sitzungsberichte herausgegeben vom naturhistorischen Verein der preussischen Rheinlande und Westfalens. Bonn.
- 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. Contrib. Knowledge.* Smithsonian Contributions to Knowledge. Washington (D.C.).
- 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.
- South Australia, Dep. of Intell.* South Australia, Department of Intelligence. Adelaide.
- 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.
- Sver. geol. Undersökn., Årsb.* Sveriges geologiska Undersökning, Årsbok. Stockholm.
- Tasm. Dep. Mines.* Tasmania. Department of Mines. Hobart.
- Trans. Acad. Sci. St. Louis.* Transactions of the Academy of Science. St. Louis (Mo.).
- 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. Assoc. Water Eng.* Transactions of the Association of Water 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. Croydon Microsc., &c.*
- 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. Afr.* 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. M. E.* Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
- Trans. Inst. Mining & Metall.* Transactions of the Institution of Mining and Metallurgy. London.
- 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. N.S.W.* Transactions of the Royal Society of New South Wales. Sydney.
- Trans. Roy. Soc. S. Afr.* Transactions of the Royal Society of South Africa. Cape Town.
- Trans. Roy. Soc. S. Austral.* Transactions of the Royal Society of South Australia. Adelaide.
- Trans. Roy. Soc. Vict.* Transactions of the Royal Society of Victoria. Melbourne.
- Trans. S. Afr. 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. Wisconsin Acad. Sci.* Transactions of the Wisconsin Academy of Science, Arts, and Letters. Madison (Wis.).
- Trans. Woolhope Nat. F.-C.* Transactions of the Woolhope Naturalists' Field-Club. Hereford.
- Trans. Worcester. Nat. Club.* Transactions of the Worcestershire Naturalists' Club. Worcester.
- 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. Mus. géol. Pierre le Grand.* Travaux du Musée géologique Pierre le Grand. St. Petersburg.
- Trav. Sec. géol. Cab. Sa M., St. Pétersb.* Travaux de la Section géologique du Cabinet de Sa Majesté. St. Petersburg.
- Tufts Coll. Studies.* Tufts College Studies. Tufts College (Mass.).
- U.S. Geol. Surv.* United States Geological Survey. Washington (D.C.).
- Uppsala Univ. Årsskrift.* Uppsala Universitets Årsskrift. Uppsala.
- 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 zoologischen-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. See also *Actes Soc. helv. Sci.*
- Verh. siebenbürg. Ver. Naturw.* Verhandlungen und Mittheilungen des siebenbürgischen Vereins für Naturwissenschaften. Hermannstadt.
- Veröffentl. Inst. Meeresk. Berlin.* Veröffentlichungen des Instituts für Meereskunde und des geographischen Instituts an der Universität. Berlin.
- Victoria, Dep. Mines.* Victoria: Department of Mines. Melbourne.
- 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 (D.C.).
- Western Australia, Dep. Mines.* Western Australia: Department of Mines. Perth (W. Austral.).
- Zapisi. srpsk. geol. Drūsh.* Zapisniti srpskog geoloskog Drūstva. (Sitzungsberichte der serbisch-geologischen Gesellschaft.) Belgrade.
- Zeitschr. deutsch. geol. Gesellsch.* Zeitschrift der deutschen geologischen Gesellschaft. Berlin. See also *Monatsb. deutsch. geol. Gesellsch.*
- Zeitschr. f. Berg-, Hütt.- u. Salinew.* Zeitschrift für das Berg-, Hütten- und Salinenwesen im preussischen Staate. Berlin.
- Zeitschr. f. Gletscherk. Berlin.* Zeitschrift für Gletscherkunde. Berlin.
- Zeitschr. f. Kryst.* Zeitschrift für Krystallographie und Mineralogie. Leipzig.
- Zeitschr. f. Naturw. Halle.* Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen zu Halle a. S. Leipzig.
- Zeitschr. f. prakt. Geol.* Zeitschrift für praktische Geologie. Berlin.
- Zool. Rec.* Zoological Record. Record of Zoological Literature. London.
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- ABEL, O. Cetaceenstudien: 1. Das Skelett von *Eurhinodelphis cocheteuxi* aus dem Obermiozän von Antwerpen. 2. Die Schädel von *Sauvodelphis argentinus* aus dem Pliozän Argentinien. *Anz. k. Akad. Wissensch. Wien*, 1909, pp. 76-78 & *Sitz. k. Akad. Wissensch. Wien*, cxviii. pp. 241-253, 255-272, figs., 2 pls. 1909.
- 2. Ueber die allgemeinen Prinzipien der paläontologischen Rekonstruktion. *Verh. k.-k. zool.-bot. Gesellsch. Wien*, lx. pp. 141-186. 1910.
- . See FUCHS, T.
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- Arietites*.—Rosenberg, P.
- Arius*.—Leriche, M.
- Arizona (U.S.A.).—Davison, J. M.; Dodge, R. E.; Herrick, R. L.; Johnson, D. W., 2; Magie, W. F.; Merrill, G. P., 2; Noble, L. F.; Palache, C., 2; Robb, E. M., *fil.*; Schrader, F. C.
- Arkansas (U.S.A.).—Burgess, M. J.; Purdne, A. H.; Wittich, E., 2.
- Arkose, Ardenes.—Fourmarier, P., 2.
- , Luxemburg.—Lohest, M., 4.
- Arlberg Tunnel.—Königsberger, J., 5.
- Arle Sewer (Cheltenham).—Richardson, L., 9.
- Armenian highlands (Asia Minor).—Oswald, F.
- Armour, *Stegosaurus*.—Lull, R. S., 3.
- Arpadites*.—Diener, C.
- Arran, I.—Geikie, Sir A., 3.
- Arrino (W. Austral.).—Campbell, W. D.
- Artesian water, Meen.—Delhaye, F.
- , New Zealand.—Farr, C. C.
- , South Dakota.—Darton, N. H., 1 & 2.
- wells, British Guiana. — See BRITISH GUIANA. Artesian wells.
- , Dorset. — Hudleston, W. H., 3.
- , Illinois.—Udden, J. A.
- , London (City). — See LONDON, City of.
- , Malines.—Halet, F.
- , Paris.—Péroux, E.
- , Renaix.—Halet, F., 2.
- Arthropleura*.—André, K.
- Arthur's Seat (Edinburgh).—Peach, B. N.
- Aruwini R. (Congo).—Dewez, L.
- Arzino Group (Venetian Alps).—Gortani, M.; Vinassa de Regny, P., 5.
- Asar, Baltic Provinces.—Doss, B.
- See also Moraines, &c.
- Asbestos, Cyprus.—Zdarsky, A.
- Ascherite.—Bocke, H. E., 2.
- Ashburton goldfield (W. Austral.).—Maitland, A. G.
- Ashendon (Bucks).—Davies, A. M.
- Ashes, Argentine volcanic.—Ameghino, F., 3 & 4; Outes, F. F.
- , Vesuvius.—Casoria, E., 1, 9, 13.
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- , Central.—Lóczy, L. von.
- , Tertiary land-connection with America.—Knopf, A.
- Asia Minor.—Anon., 20; Blanck, E., 2; Frech, F.; Herzfeld, E.; Kossmat, F., 3; Leitmeier, H.; Oswald, F.; Philippson, A.
- Asphalt, California. — Miller, L. H., 1-4; Sinclair, W. J., 2.
- Aspidites*.—Krafft, A. von.
- Aspidoceras*.—Dacqué, E.
- Aspidosoma*. — Schendorf, F., 2; Schröder, H.
- Aspromonte (Calabria).—Cortese, E.
- Asse (Brunswick).—Hæhne, E.
- Assimilating tissues, Carboniferous plants.—Thomas, H. Hamslaw.
- Assuan (Egypt).—Couvert, J., 2.
- Assumption I. (Indian Ocean).—Gardiner, J. S., 2.
- Astarte*.—Cerulli-Irelli, S.; Coumillon, H.; Dacqué, E.; Etheridge, R. (*fil.*).
- Astartella*.—Lee, W. T., 2.
- Asterias*.—Schendorf, F.
- Asterocalamites*.—Renier, A., 6.
- Asterochlæna*.—Bertrand, P., 2.
- Asteroidæa, Carboniferous.—Schendorf, F., 1 & 2.
- , Permian.—Schröder, H.
- , Silurian.—Schendorf, F., 2 & 3.
- , Tertiary.—Linstow, O. von, 3.
- , Triassic.—Bather, F. A.

- Astieria*.—Baumberger, E.
 Astoria formation, Oregon.—Reagan, A. B., 2.
 Astove I. (Indian Ocean).—Gardiner, J. S., 2.
Astraliium.—Behm, J., 3.
Astrangia & *Astro-dapsis*.—Arnold, R.
Astropecten.—Bather, F. A.
 Astrophyllite, Massachusetts.—Pirsson, L. V.
 Astrorhizidæ, Pacific ooze.—Cushman, J. A.
Astyris.—Arnold, R.
 Atacamite.—Ford, W. E.
Athyris.—Kindle, E. M., 2; Weller, S.
 Atlantic Ocean, continental shelves of.—Ziemendorf, G.
 ———, dredged specimens from Irish coast.—Cole, G. A. J., 3.
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Atollites.—Zuber, R.
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Atractites.—Rosenberg, P.
 Atzgersdorf (Baden).—Fuchs, T., 2.
 Auburn (N.Y.).—Luther, D. D.
 Aubusson (Creuse).—Lauay, L. de.
 Auchineden District (Dumbarton).—Tyrell, G. W., 3 & 4.
 Auckland (N.Z.).—Bell, J. M., 3; Speight, R., 3; Stewart, J.
 Aude (France).—Bertrand, L.
 Auerschitz (Lr. Austria).—Ržehák, A.
 Augen-gneiss, Ross-shire.—Clough, C. T., 3.
 ———, Tyrol.—Hammer, W., 3.
 Augite, Rhön Mts.—Galkin, X.
 Augite-porphyrite, I. of Man.—Jones, T. A.
 Aukmanein (Burma).—Stuart, M., 2.
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 ——— veins, Loire - Inférieure. — Kerforne, F.
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 ———, Alt (Styria).—Haas, O.
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 ———, geology of.—Dicker, C. W. H.; Nøtting, F., 2.
 ———, glacial climates of. See CONGRÈS géol. Internat. XI., 2.
 ———, littoral mineral deposits.—Jack, R. L.
 ———, mining in.—Fryar, W.
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 ———, earthquake records.—Conrad, V., 1 & 2.
 ———, geological survey.—Tietze, E., 2.
 ———, iron-ores.—Tietze, E., 4.
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 ——— (Lower).—Abel, O., 2; Becke, F., 2; Fuchs, T., 1-3; Hörnes, M.; Kober, L.; Krulla, R.; Mohr, H.; Penck, A., 2; Ržehák, A.; Schaffer, F. X., 3; Spitz, A., 2; Strasser, Z.; Toula, F.
 ——— (Upper).—Geyer, G., 3; Vettors, H., 3.
 Austrian Arabian Expedition.—Kossmat, F., 2; Pelikan, A.
 Autun (Saône-et-Loire).—Jeffrey, E. C.; Thevenin, A., 1 & 4.
 Auvergne (France).—Giraud, J.; Glangaud, P., 3, 4, 6-10; Gonnard, F., 2-5; Héribaud-Joseph, —; Lacroix, A., 9; Mouret, G.
 Avalanches, Switzerland.—Buss, E.
 Avening (Gloucester).—Richardson, L., 15.
 Aveyron Valley (France).—Thevenin, A., 5.
Avicula.—Arnold, R.
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 Avonian, British Isles.—Vaughan, A.
 Axat (Aude).—Bertrand, L.
 Axes, crystalline.—Evans, J. W., 6.
 Axinite.—Fromme, J.; Hörner, T. von; Muegge, O.; Schaller, W. T., 6.
Axinus.—Bøhm, J., 3.
 Aymorés, Serra dos (Brazil).—Freise, T., 2.
 Ayrshire (Scotland).—Hind, W., 2; Tyrrell, G. W.
 Bacchus-Marsh Sandstones, Victoria.—Pritchard, G. P.
 Bachant (Nord).—Carpentier, A., 2.
Baculites.—Arnold, A.; Bøhm, J., 3; Boule, M., 7; Novak, J., 3.
 Baden (Germany).—Bräuhauser, M.; Bross, H., 2; Deecke, W.; Eck, H.; Freudenberg, W., 3; Fuchs, T., 2; Geyer, D., 2; Gøhringer, A.; Horn, E.; Kranz, W.; Menzel, H., 4; Philipp, H.; Ratzel, A.; Ruebenstrunk, E.; Schmidt, A., 4; Spiegelhalter, F.; Van Werveke, L.
 Baganza, Val (Emilia).—Anelli, M.
 Bagshot Beds, Hants & Surrey.—Mouckton, H. W., 2.
 ———, Shooter's Hill.—Leach, A. L., 4.
 Bahia (Brazil).—Brauner, J. C., 1-3 & 7.
 Bahia Blanca (Buenos Ayres).—Roth, S.
 Bahna (Rumania).—Beutler, K.; Lórenthey, I., 2; Macovei, G.
 Baidersbrunn (Württemberg).—Regelmann, K., 2.

- Baikal, Lake (Siberia).—Fersmann, A. E.
 —, Trans (Siberia).—Kuznetsov, S. D., 2.
Bairdia.—Lee, W. T., 2.
 Baisun-Tau Mts. (Turkestan).—Boris-yak, A. A., 2; Edelstein, J.
 Baked earth, Argentine Pampean.—Ameghino, F., 3 & 4; Outes, F. F.
 Bakony (Hungary).—Bather, F. A.
 Baku Gov. (Russia).—Volarovich, P. E., 1 & 2.
 Bala volcanic series.—Cope, T. H.
 Balaton Lake (Hungary).—Bather, F. A.; Lœrenthey, I.; Vitalis, S.
 Balearic Is.—Lambert, J.
 Balingier, Mt. (Württemberg).—Freudenberg, W.
 Balkan Mts.—Waagen, L.
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 Baltic Provinces (Russia).—Dess, B.; Muehlen, L. von zur.
 Baluchistan (India).—Vredenburg, E. W., 2.
 Bambanag Cliff (Himalayas).—Diener, C.
 Banat District & banatite (Hungary).—Bergeat, E.
 Banbyin (Burma).—Stuart, M., 2.
 Bancroft (Ont.).—Adams, F. D., 3.
 Banded gneisses, Ornö I.—Högbom, A. G., 3.
 Banka I. (D.E.I.).—Vermaes, S. J.
 Bann Valley (Ireland).—Jackson, J. W., 6.
 Baraboo Range (Wisc.).—Steidtmann, E.
 Barah Creek (N.S.W.).—Cotton, L. A., 2.
Barbatia.—Arnold, R.
 Barberton (Transvaal).—Hall, A. L., 3.
 Barcelona (Spain).—Oppenheim, P., 2.
 Barium, Vesuvian lavas, &c.—Casoria, E., 10.
 Barkhausen a. d. Hunte (Hanover).—Lohmann, W., 2.
 Barlik Mts. (Mongolia).—Obruchev, V., 1 & 2.
 Barnsley Seam, Yorkshire.—Culpin, H.
 Barnstaple (Devon).—Hamling, J. G.
 Barograph & seismoscope.—Montessur de Ballore, F. de.
 Barossa (S. Austral.).—Mawson, D.
 Barvaux (Namur).—Stainier, X., 2.
 Barytes.—Abraham, A.; Colomba, L., 2; Krizsó, J.; Samoïlov, J. V., 2; Steel, A. A.; Ržehák, A., 4.
 — sand, Kharga.—Pogue, J. E.
 — witherite vein, Durham.—Spencer, L. J.
 Basalt, Auvergne.—Gonnard, T., 3.
 —, Bohemia.—Cornu, F., 2.
 —, Derbyshire.—Arnold-Bemrose, H. H., 2.
 —, Dürkheim.—Schuster, M., 2.
 —, Erythraea.—Maddalena, L.
 —, Essendon (Vict.).—Armitage, R. W., 2.
 —, Heldburg.—Naumann, E.
 —, Hesse.—Schneiderhöhn, H.
 —, Limerick.—Prior, G. T., 2.
 —, Massachusetts.—Lahee, F. H.
 —, Moravia.—Jahn, J. J., 2.
 —, Mt. Gambier.—Stanley, E. R.
 —, Northumberland.—Heslop, M. K., 2; Weyman, G.
 —, Rhenish Bavaria.—Reis, O. M., 3.
 —, Rhön Mts.—Buecking, H.; Gal-kin, X.; Kallhardt, F.
 —, Sardinia.—Serra, A., 1, 2, 5.
 —, Shropshire.—Davies, E. H., 3.
 —, Silesia.—Barbier, P., 3; Jahn, J. J., 2.
 —, Solling.—Stremme, H.
 —, Styria.—Leitmeier, H., 2.
 —, Transylvanian Carpathians.—Wachner, H.
 —, Ulf Is.—Sobral, J. M.
 —, Vicenza.—Maddalena, L., 2.
 —, Weimar.—Seebach, M.
 —, Whin Sill.—Egglesstone, W. M.
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 —, olivine &.—Schwantke, A., 2.
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 —, soils, New South Wales.—Jensen, H. I., 2.
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 Bastenberg (Westphalia).—Eickhoff, A.
 Batesford Limestone, Victoria.—Chapman, F., 2.
 Bath (Somerset).—Richardson, L., 3, 8, & 11; Winwood, H. H.
Bathyrellus.—Gardiner, C. I.
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 Battenberg (Rh.-Bavaria).—Reis, O. M., 2.
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 Bauxite.—Crook, T.; Scrivenor, J. B., 4.
 Bavaria.—Ammon, L. von; Ampferer, O.; Branca, W.; Buecking, H.; Duerrfeld, V., 1 & 2; Fischer, H.; Fraas, E.; Frey, O.; Gaub, F.; Geyer, D.; Handlirsch, A.; Henglein, M.; Kœhne, W.; Muenichsdorfer, F.; Pfäff, F. W., 1-3; Rosati,

- A., 2; Schuster, M.; Schwager, A.; Seidlitz, W. von; Seyfarth, W.; Wagner, G.; *see also* Rhenish Bavaria.
- Baveno (Piedmont).—Gonnard, F., 7.
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- Beach-sands, Pacific Coast.—Bartlett, C. — surface, Leasowe old.—Greenwood, H. W., 2.
- Bear-cave, Kufstein.—Schlesinger, G.
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- Beaumontia*.—Weller, S.
- Beaurepaire (Isère).—Kilian, W., 6.
- Bégné-Ponchon caves (Gard).—Bourras, M.
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- Belemnites*.—Benecke, E. W.: Boule, M., 7; Daqué, E.; Rosenberg, P.; Spengler, E.; Weigner, S.
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- , Carboniferous Limestone.—Delépine, G., 5; Dorlodot, H. de, 4; Grabner, P.; Johns, C.; Van de Wiele, C.
- , Carboniferous zones.—Dorlodot, H. de, 3 & 4; Grabner, P.; Johns, C.
- , Devonian.—Maillieux, E., 5 & 6.
- , Oligocene fishes.—Leriche, M., 4.
- , Quaternary.—Briquet, A., 3.
- , Silurian & Cambrian districts.—Malaise, C., 1-3.
- , cave crystals.—Prinz, W.
- , — rodents.—Rutot, A.
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- , geological survey. *See* BELGIUM, Serv. géol.
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- , topography of, & erosion.—Briquet, A., 1-3.
- , underground water.—Audrimont, R. d', 3.
- , water-filtration in limestones of.—Van den Broeck, E.
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- Bentley (Yorks).—Culpin, H.
- Ber-Chogur (W. Siberia).—Nikitin, S.
- Berar Valley (India).—Bowman, H. L.
- Bergen district (Norway).—Rekstad, J., 1 & 4.
- Berkshire.—Treacher, L., 2; White, H. J. O., 3.
- Berlin (Prussia).—Hess von Wichdorff, H., 2.
- Berne (Switzerland).—Antenen, F.; Heim, Alb., 2; Lugeon, M., 2; Nussbaum, F.
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- Berry (France).—Margerie, E. de.
- BERTRAND, E., *Obit.*—*See* Wyronboff, G.
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- Beryl.—Barbier, P., 2; Duparc, L., 3 & 4; Ford, W. E., 2; Lacroix, A., 7.
- Bernese Alps (Switzerland).—Delebecque, A., 3.
- Berwick (Scotland).—Clough, C. T., 2.
- Bessarabia.—Mikhailovski, G. P.
- Betchat (Ariège).—Roussel, J.
- Betchworth (Surrey).—Dibley, G. E., 2.
- Beyrichia*.—Reed, F. R. C.
- Bielefeld (Hanover).—Stille, H., 2.
- Bielsbeck (Yorks).—Stather, J. W.
- Bilma Oasis (Sahara).—Lacroix, A., 8.
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- Biotite, Lipari Is.—Bergeat, A.
- Bipezia*.—Matthew, G. F., 3.
- Bird's feather, Tertiary ironstone of Victoria.—Chapman, F., 3.
- Birds, Quaternary.—Benham, W. B.; Campana, D. del; Miller, L. H., 1-4.
- , Tertiary.—Dollo, L.
- , extinct.—Hutchinson, H. N.; Spencer, B.
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- Birket el Qurin (Egypt).—Woodward, H.
- Birmingham (Ala.).—Burchard, E. F., 3.
- Bisbee (Ariz.).—Palache, C., 2.
- Bischoff, Mt. (Tasm.).—Millen, J. D.
- Bischofsheim v. d. Rhön (Bavaria).—Pfäff, F. W., 2.
- Biselenaria*.—Canu, F.
- Bishop Conglomerate, Wyoming.—Rich, J. L.
- Biskra (Algeria).—Nodon, A.
- Bismuth, Mexico.—Wittich, E., 3.
- , Nevada.—Schaller, W. T., 7.
- Bituminous Shale, Canada.—Ells, R. W., 1 & 2.

- Bityite, Madagascar.—Lacroix, A., 7.
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 Schwantke, A., 3.
 Black Forest (Baden).—Braeuhaeuser,
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 1 & 2.
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 K. I.
 Black Mountains (Ariz.).—Schrader, F.
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 Black Rock Creek (Queensl.).—Ball, L.
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 Black Sea.—Egunov, M.
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 H. J.
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 —, Westphalia.—Denckmann, A.
 Blinman (S. Austral.).—Benson, W. N.,
 2.
 Bloemfontein (O.R.C.).—Peet, H. F.
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 Blois (Orléanais).—Filliozat, M., 2.
 Blomstrandine (Norway).—Hauser, O.
 'Blowing wells.'—Strahan, A.
 'Blue Grass Region,' Kentucky.—
 Matson, G. C.
 Blue Hill (Maine).—Emmons, W. H.,
 2.
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 Singewald, J. T., *fl.*, 2; Slavik, A.;
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 —, Burscough.—Travis, C. B., 3.
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 —, Germany.—Ammon, L. von; Keil-
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 —, Hensies.—Cornet, J., 3.
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 —, Ingleton.—Gibson, W., 2.
 —, Lancashire.—Tonge, A. J.
 —, Oxfordshire.—Tiddeman, R. H.
 —, Paris Basin.—Lemoine, P., 3.
 —, Russia.—Oppokov, E. V.; Sinzov,
 I.
 —, Siberia.—Oppokov, E. V.
 —, Somerset.—Pringle, J.
 —, S. Australia.—Howchin, W.
 —, Stowell.—Phelps, W.
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 —, fossil.—Seward, A. C.
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 —, European erratic.—Bonney, T. G. Milthers, V.
 —, Hong Kong.—Chamberlin, T. C., 5.
 —, Newton Abbot jasper.—Lowe, H. J.
 —, Yorkshire.—Sheppard, T., 5.
Bouleicerus.—Thevenin, A., 3.
 Boulonnais (France).—Breton, L.; Olry, A.; Sauvage, H. E.
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 Bourbonne-les-Bains (Haute-Marne).—Doby, A.
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 Bove, Valle del (Etna).—Clerici, E., 2.
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 Brabant (Belgium).—Cosyns, G., 2; Malaise, C., 3 & 4; Mathieu, E.
 Brachiopoda, Cambrian.—Reed, F. R. C., 2.
 —, Carboniferous.—Greger, D. K.; Jarosz, J.; Kossmat, F., 4; Lee, W. T., 2; Lissitzyn, K. I.; Smith, S., 2; Thomas, I.; Weller, S., 1 & 2.
 —, Cretaceous.—Buckman, S. S., 3; Kossmat, F., 12; Nielsen, K. B.; Weigner, S.
 —, Devonian.—Collins, J. H.; Kindle, E. M., 2; Maillieux, E., 2 & 3; Schuchert, C.; Stauffer, C. R.; Swartz, C. K., 2; Torley, K.; Williams, H. S.
 —, Jurassic.—Borisjak, A. A., 2; Buckman, S. S., 1 & 2; Etheridge, R. (*fl.*); Principi, P., 5; Renz, C., 3; Thevenin, A., 3; Vinassa de Regny, P.
 —, Permian.—Stoyanov, A.
 —, Permo-Carboniferous. — Douvillé, H., 5.
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 —, Silurian.—Reed, F. R. C.
 —, Tertiary.—Arnold, R.; Macovei, G.
 —, Triassic.—Diener, C.; Schmidt, M., 2.
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 —, Montreal, Devonian.—Harvie, R.
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 —, Transylvanian basaltic. — Wachner, H.
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- British Guiana.—Evans, J. W., 3; Harrison, J. B.; *see also* BRITISH GUIANA, Artesian Wells, &c.
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- , Triassic fauna & flora.—Beasley, H. C., 2.
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- , erratic blocks.—Dewry-house, A. R.
- , Glacial climates.—CONGRÈS géol. Internat. XI., 2.
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- , origin of Trias in.—Horwood, A. R., 6; Wright, W. B.
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- , Cretaceous.—Brydone, R. M.; Fillozot, M.; *see also* BRITISH MUSEUM (Nat. Hist.).
- , Silurian.—Reed, F. R. C.
- , Tertiary.—Canu, F., 1-4; Maplestone, C. M.
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- Building-construction Commission, Calabria & Sicily.—Blaserna, P.
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- , Maryland.—Clark, W. B., 2.
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- Bullfrog District (Nev.).—Ransome, F. L., 3.
- Bunter, Nottingham.—Vernon, R. D.; *see also* Trias.
- Bunter Sandstone, Baden.—Menzel, H., 4; Schmidt, A., 4.
- , Thuringia.—Blanck, E.; Kolesch, K.; Weiss, F.
- , Vosges.—Van Werveke, L., 2.
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- Bushveld district (Transvaal).—Hill, A. L., 5; Humphrey, W. A.; Kynaston, H., 2.
- Butte Mts. (Cal.).—Sales, R. H.
- Byans (India).—Krafft, A. von.
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- Cairo (Egypt).—Hume, W. F., 3.
- Caithness (Scotland).—Crampton, C. B.; Pollard, W.
- Calabria (Italy).—Aloisi, P., 2; Andri-mont, R. d', 2; Blaserna, P.; Cortese, E.; Crema, C.; Novarese, V.; Omori, F.; Portis, A.; Ricciardi, L.; Stefani, C. de, 3; Stefano, Gius. de, 2.
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 —, New York.—Whitlock, H. P., 2.
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 —, earthquake of 1906.—Rothpletz, A., 2.
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 —, Ardennes.—Fourmarier, P., 2; Lohest, M., 4.
 —, Belgium.—Dorlodot, L. de; Fraipont, C.; Malaise, C., 1 & 2.
 —, Gothland.—Nathorst, A. G., 4-6 & 8.
 —, Shropshire.—Cobbold, E. S., 1 & 2.
 —, South Australia.—Taylor, T. G.
 —, Spiti.—Reed, F. R. C., 2.
 —, Sweden.—Toernquist, S. L.
 —, fauna, origin of.—Steinmann, G., 2.
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 —, medusæ.—Holtedahl, O.
 —, zones.—Reed, F. R. C., 3.
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 —, Laurentian area.—Adams, F. D.
 —, Department of Mines.—Wilson, A. W. G., 2.
 —, Geological Survey. See CANADA, Dep. Mines.
 —, geology & palæontology in 1907.—Ami, H. M.
 —, Glacial climates.—See CONGRÈS géol. Internat. XI., 2.
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- Canino-cyathophyllum*.—Gröber, P.
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 —, Bohemia.—Petrascheck, W., 5.
 —, Bristol.—Lillie, D. G., 1 & 2.
 —, Campine. — Fourmarier, P.; Schmitz, G.
 —, Canada.—Matthew, G. F., 1-3.
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 —, France.—Carpentier, A., 1 & 2; Lamay, L. de; Meunier, F.; Thevenin, A.
 —, Galicia.—Jarosz, J., 1 & 2; Petrascheck, W., 1-3.
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 —, Michigan.—Lane, A. C.
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 —, Moravia.—Schmidt, A., 2.
 —, New Mexico.—Lee, W. T., 2; Richardson, G. B.
 —, New South Wales.—Etheridge, R., *fil.*, 2.
 —, Northumberland.—Garwood, E. J., 2 & 3; Smith, S., 2.
 —, Novaya Zemlya.—Lee, G. W.; Russanov, V.
 —, Ohio.—Lamb, G. F.
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 —, Scotland.—Carruthers, R. G.; Clough, C. T.; Gordon, W. T.
 —, Spitsbergen.—Staff, H. von, 4.
 —, Texas.—Richardson, G. B.
 —, Turkestan.—Schellwien, E.; Zaleski, M. D., 2.
 —, Warwickshire.—Horwood, A. R., 1 & 9.
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 —, Westphalia.—Handlirsch, A., 5; Tietze, O., 5.
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 — breccias, Belgium.—Stainier, X., 5.
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 — —, Germany.—Böhm, Joh; Zimmermann, E.
 — —, Lancashire.—Jackson, J. W., 2; Travis, C. B., 2.
 — —, Northumberland.—Smith, S., 2.
 — —, Pembrokeshire.—Carruthers, R. G., 2.
 — —, Scotland.—Carruthers, R. G.; Dron, R. W.
 — —, Westmorland.—Jackson, J. W., 7.
 — —, Yorkshire.—Johns, C.; Wilmore, A.
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 —, Cork, Co. (Ireland).—Evans, R.; Maberly, F. H.; Moloney, H. J.; Ussher, R. J.
 —, Cuba, Mennier, S., 3.
 —, Gard.—Bourras, M.; Mazauroic, F.
 —, Harz.—Menzel, H., 3.
 —, Hungary.—Kadić, O.
 —, Lot.—Boule, M., 2.
 —, Marne.—Martel, E. A.
 —, Mentone.—Boule, M., 3.
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- , Devonian.—Collins, J. H.; Kindle, E. M., 2; Vinassa de Regny, P., 4.
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- , Antarctic.—Buckman, S. S., 3.
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- , Asia Minor.—Frech, F.
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- , Dakota.—Stanton, T. W., 1 & 2; Wieland, G. R.
- , Denmark.—Nielsen, K. B., 1 & 2.
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- , East Prussia.—Jentzsch, A., 4; Menzel, H., 5; Spulski, B., 2; Tornquist, A., 4.
- , Egypt.—Couvart, J.; Eck, O., 1 & 2; Fourtau, R.
- , Hanover.—Harbort, E., 2; Schrammen, A.; Schröder, H., 2.
- , Japan.—Yabe, H., 1 & 2.
- , Kansas.—Huene, F. von; Sternberg, C. H., 2.
- , Kent.—Withers, T. H., 2.
- , Madagascar.—Boule, M., 6 & 7; Cottreau, J.
- , Mexico.—Bæse, E.; Burckhardt, C.
- , Montana.—Stanton, T. W.; Stone, R. W.
- , Monte San Giuliano.—Cecchia-Rispoli, G., 3.
- , Moravia.—Beck, H., 2.
- , New Guinea.—Böhm, G., 5.
- , North Carolina.—Berry, E. W., 6.
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- , Poland.—Novak, J., 1-3; Rogala, W.; Sherborn, C. D.; Weigner, S.
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- Fossils, from E. Riding of Yorks., list of.—Drake, H. C.
- , apparatus for washing, &c.—Grosch, P., 2.
- , West Australian.—Glauert, L., 3.
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- , — coalfields.—Stevenson, J. J.
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- , igneous rocks of.—Lévy, Aug. M.
- , 'mattes' or cemented sand of coast of.—Thoulet, J.
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- Francia (Germany).—Fischer, H.; Geyer, D.; Handlirsch, A.; Stromer, E.; Wagner, G.
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- French Antarctic Expedition, 1908-1910.—Charcot, J. B.
- French Guinea (W. Afr.).—Lacroix, A., 14; Romeu, A. de.
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- French Street (Kent).—Martin, P. A. B.
- Freshwater limestone, in Fontainebleau Sands.—Dollfus, G. F., 3; Grossouvre, A. de, 3.
- , —, Lake Constance.—Schmidle, W., 2.
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- Gabbro, Baden.—Philipp, H.
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- , —, magmas.—Andesner, H.
- , —, origin of.—Daly, R. A., 3.
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- Gageite, New Jersey.—Phillips, A. H.
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- Galerites* Beds, Westphalia.—Læscher, W.
- Galerus*.—Arnold, R.
- Galesimorpha*.—Brues, C. T.
- Galeus*.—Leriche, M.; Stefano, Gius. de.
- Galicja (Austrian Empire).—Friedberg, W. von, 1 & 2; Grzybowski, J.; Holobek, J.; Jarosz, J., 1 & 2; Lewinski, J.; Lomnicki, M.; Loziński, W., 1, 3 & 4; Niedzwiedzki, J.; Novak, J., 1-3; Petrascheck, W., 1-3; Rogala, W.; Rozen, Z., 1 & 2; Szafer, W.; Szajnochla, L., 1-3; Weigner, S.; Zuber, R.
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- (—) fields, classification of.—Clapp, F. G.
- (—), Galicia.—Holobek, J.

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 —, Permo-Carboniferous.—Newton, R. B.
 —, Quaternary.—Andrews, A. R., 3; Caziot, E.; Gaál, S. von, 3 & 4; Geyer, D., 2 & 3; Hægg, R.; Jodot, P.; Kormos, T., 2 & 3; Ödhnér, N., 1 & 2; Ržehák, A., 2; Sevastos, R.; Thies, O.
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 — surveying.—Berg, G., 2; Lyman, B. S.
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- Geologist's slide-rule.—Woolnough, W. G., 2.
- Geology, America (N.), 1908.—Nickles, J. W.
- , Argentina.—Ameghino, F., 15.
- , Australia.—Nøtting, F., 2.
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- , Canada in 1907.—Ami, H. M.
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- , Germany.—Lepsius, R., 2 & 3.
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- , South Africa, &c.—Schwarz, E. H. L.
- , Styria, 1907-9.—Hilber, V., 2.
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- , text-books of.—Gregory, J. W.; Lenicque, H.
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- , Permo-Carboniferous distribution of *Carbonicola*.—Schmidt, A., 5.
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 —, India (N.).—La Touche, T. H. D.
 —, Navis Valley.—Young, A. P.
 —, New South Wales.—Marshall, P.
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 —, Switzerland.—Penck, A., 3; Gar-
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 3; Todd, J. E.
 —, Vosges.—Delebecque, A.
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 —, Kashmir.—Godwin-Austen, H. H.
 —, Norway.—Rekstad, J.; Reusch,
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 —, Piedmont.—Hotz, W.
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 —, Devon.—Dewey, H.
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 —, Massachusetts.—Pirsson, L. V.
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 —, Moldavia.—Reinhard, M.
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 —, Silurian.—Hind, W., 2.
 —, Tertiary.—Andrusov, N.; Arnold, R.; Borisjak, A. A., 3; Cerulli-Irelli, S.; Cossmann, M., 2 & 4; Dainelli, G.; Dollfus, G. F., 4; Gemmellaro, M.; Ioksimovich, Z. I.; Kranz, W., 3; Reagan, A. B.; Tomiolo, A. R.; *see also* PORTUGAL.
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Lamna.—Leriche, M.
Lamprnota.—Brues, C. T.
 Lanarkshire (Scotland).—Gregory, J. W., 4; McDonald, D. P., 3; Macnair, P.
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 — fossil forest, Tirmont.—Ledoux, A., 1 & 2.
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 — subsidence, Vienna.—Uhlig, V., 4.
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 —, Dorset.—Richardson, N. M.; Solly, H. S.
 —, France.—Descombes, P.
 —, Olympia.—Huntington, E.
 —, San Juan Mts.—Howe, E.
 —, Switzerland.—Buss, E.; Wehrli, L.
 —, Yalta.—Wiskont, K.
 —, Yukon Terr.—Tyrrell, J. B.
 —, origin of.—Rželak, A., 6.
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 —, Cameroons.—Guillemin, C., 3.
 —, Congo, Sudan, &c.—Arsandaux, H.
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 —, origin of.—Campbell, J. M.; Gagel, C., 6.
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 —, Iceland.—Beck, H.; Sapper, K.; Schneider, K.
 —, Samoa.—Jensen, H. I.
 —, Savaii.—Anderson, T.
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- Lavas, Vesuvius.—Casoria, E., 1-6, 8-18.
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 —, Arkansas.—Wittich, E., 2.
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 —, Durham.—Egglestone, W. M.
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 —, Illinois.—Grant, U. S.
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 —, Transvaal.—Hall, A. L., 6.
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 —, Leicestershire.—Horwood, A. R.
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 — deposits, Sweden.—Hœgg, R., 2.
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 —, Lower Austria.—Penck, A., 2.
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 —, Rumania.—Sevastos, R.
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 —, Transylvania.—Schæppe, W.
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MAPS.

AFRICA (CENTRAL).
 CONGO BASIN. Aruwimi R. $\frac{1}{2,000,000}$.
 1910.—Dewez, L.
 AFRICA (EAST).
 NYASALAND (*various*). 1910. —
 Andrew, A. R., 3.
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 tenburg. 2 sheets. 1 inch = 2 $\frac{1}{4}$
 miles. 1909.—Humphrey, W. A., 2.
 —. Pilgrims' Rest gold-district.
 1 inch = about 2 $\frac{1}{2}$ miles. 1910.—
 Hall, A. L., 3.
 —. Waterburg District & the
 Potgietersrust Tinfields. 1 inch =
 2 $\frac{1}{4}$ miles. 1909.—Mellor, E. T.
 —. Zoutpansberg, Waterburg, &
 Lydenburg. 1 inch = 2 $\frac{1}{4}$ miles.
 1909.—Hall, A. L., 2.
 AFRICA (WEST). Nigeria-Cameroon
 Boundary. Yola & Cross R. 1 inch
 = about 16 miles. 1910. — See
 NIGERIA.
 AMERICA (NORTH).
 CANADA. 1 inch = 100 miles. 1909.
 —Young, G. A.
 —. Geological Survey. Economic
 & geological maps. 1 inch = 100
 miles. 1909.—Young, G. A.
 —. British Columbia. $\frac{1}{6,336,000}$. 1909.
 —Cotsworth, M. B.
 —. Hedley District (*vari-
 ous*). 1910.—Comsell, C.
 —. Ontario. Clay Lake & Lake
 Sturgeon. 1 inch = 4 miles. 1909.
 —Collins, W. H.
 —. Ottawa. Haliburton. 1 inch
 = 2 miles. 1910.—Adams, F. D.,
 3.
 UNITED STATES. Coalfields. 1 inch
 = 150 miles. 1909.—See UNITED
 STATES Geol. Surv., 2.

AMERICA (NORTH).

UNITED STATES.

ALABAMA. Birmingham District (various). 1910.—Burchard, E. F., 3.

ALASKA. Yakutat Bay. 1 inch = 5 miles.—Tarr, R. S.

— Innoko R. District. 1 inch = 45 miles. 1910.—Madden, A. G.

ARIZONA (Western). 1 inch = 4 miles. 1909.—Schrader, F. C.

CALIFORNIA. Coalinga District. 1 inch = 2 miles. 1910.—Arnold, R., 2.

— McKittrick-Sunset District. 1 inch = 2 miles. 1910.—Arnold, R., 3.

COLORADO. Leadville. 1 inch = 2 miles. 1909.—Capps, S. R., *fl.*

ILLINOIS. 1 inch = 50 miles. 1909.—Bartow, E.

— 1 inch = 36 miles. 1904.—Rolfe, C. W.

— Coal Measures. $1\frac{1}{4}$ inch = about 70 miles. 1909.—See ILLINOIS.

— Davenport & Savanna Sheets. 1 inch = 1 mile. 1909.—Carman, J. E.

— & MISSOURI. St. Louis District. 1 inch = 1 mile. 1909.—Fenneman, N. M.

KANSAS. 1 inch = 24 miles. 1908.—See KANSAS, Geol. Surv.

KENTUCKY. 'Blue Grass Region.' 1 inch = about 20 miles. 1909.—Matson, G. C.

MAINE. Blue Hill District. $\frac{1}{125,000}$. 1910.—Emmons, W. H., 2.

— Moose R. District. 1 inch = 5 miles. 1909.—Clarke, J. M.

MINNESOTA & WISCONSIN. Keweenawan outcrops. 1 inch = 18 miles. 1910.—Grout, F. F., 2.

Geological Survey. Geologic Atlas. $\frac{1}{125,000}$. G. O. SMITH, Director.

160. Accident (Md.). 1908.

161. Franklin Furnace (N.J.). 1908.

162. Philadelphia (Pa.). 1909.

163. Santa Cruz (Cal.). 1909.

164. Belle Fourche (S. Dak.). 1909.

165. Aberdeen & Redfield (S. Dak.). 1909.

166. El Paso (Tex.). 1909.

167. Trenton (N.J.). 1909.

168. Jamestown & Tower (N. Dak.). 1909.

169. Watkins Glen & Catalonk (N.Y.). 1909.

170. Mercersburg & Chambersburg (Pa.). 1910.

171. Engineer Mt. (Colo.). 1910.

172. Warren (Pa.). 1910.

173. Laramie & Sherman (Wy.). 1910.

MONTANA. Lewistown Coalfield. 1 inch = 2 miles. 1909.—Calvert, R. W.

AMERICA (NORTH).

UNITED STATES.

MONTANA. Livingstone Region. 1 inch = about 14 miles. 1910.—Stone, W. R.

NEVADA. Bullfrog District. $2\frac{3}{4}$ inches = 1 mile. 1910.—Ransome, F. L., 3.

— Goldfield City District. 1 inch = 4 miles & $3\frac{1}{2}$ inches = about 1 mile. 1909.—Ransome, F. L., 3.

— (North-Eastern). 1 inch = 5 miles. 1910.—Emmons, W. H.

NEW YORK. Catalonk & Watkins Glen. 1 inch = 2 miles. 1909.—Williams, H. S., 5.

— Elizabethtown & Port Henry. 1 inch = 1 mile. 1910.—Kemp, J. F.

— Manhattan I. $1\frac{1}{2}$ inches = about 1 mile. 1910.—Berkey, C. P.

— Port Leyden. 1 inch = 1 mile. 1910.—Kemp, J. F.

— — 1 inch = 1 mile. 1910.—Miller, W. J., 2.

RHODE I. 1 inch = 5 miles & 1 inch = 2 miles. 1910.—Loughlin, G. F.

SOUTH DAKOTA. 1 inch = 20 miles & 1 inch = 40 miles. 1909.—Darton, N. H., 2.

— & WYOMING. Black Hills. 1 inch = 4 miles. 1909.—Darton, N. H.

WASHINGTON. Olympic Peninsula. 1 inch = 10 miles. 1909.—Reagan, A. B.

— Republic Mining District. 1 inch = 1 mile. 1910.—Umpleby, J. B.

AMERICA (SOUTH).

ARGENTINA. Chubut. Lake Mustero District. $\frac{1}{550,000}$. 1908.—Stapfenbeck, R., 2.

ARCTIC REGIONS.

BEAR ISLAND. $1\frac{1}{2}$ inches = about 5 kilom. 1910.—Nathorst, A. G., 3.

KING CHARLES LAND. $\frac{1}{500,000}$. 1910.—Nathorst, A. G.

SPITSBERGEN. $\frac{1}{2,000,000}$. 1910.—Nathorst, A. G., 3.

ASIA.

CASPIAN SEA. Cheleken I. $\frac{1}{21,000}$. 1909.—Weber, V., 3.

INDIA. Geological Survey. Manganese ore-districts (various). 1909.—Fermor, L. L.

— BALUCHISTAN. 1 inch = 96 miles. 1909.—Vredenburg, E. W.

— — & Western Sind. 1 inch = 16 miles. 1909.—Vredenburg, E. W., 2.

— BURMA (Lower). Padaukin, Banbyin, &c. 1 inch = 2 miles. 1910.—Stuart, M., 2.

— — (—). Western Prome & Kama. 1 inch = 1 mile. 1910.—Stuart, M.

ASIA.

INDIA. BURMA (Upper). Yenangyat. 1 inch=1 mile. 1910.—Cotter, G. de V.

— MADRAS PRESIDENCY. Sandur State iron & manganese deposits. 1 inch=about 1½ miles. 1910.—Ghose, A.

— SIND. 1 inch=32 miles & 1 inch=16 miles. 1909.—Cossmann, M., 5.

JAPAN. Imperial Geological Survey. Geological map. $\frac{1}{200,000}$.

Zone 6. Col. iv. Suonada, 1910.

Zone 6. Col. vii. Hiwasa, 1910.

Zone 20. Col. xiii. Aomosi, 1910.

[With explanations in Japanese.]

— KOREA. Holgol gold-district. $\frac{1}{50,000}$. 1910. Kotô, B.

— (Southern). $\frac{1}{1,500,000}$. 1909.—Kotô, B.

SIBERIA. Alabaz-Karaganda District. Ber-Chogur Station. $\frac{1}{120,000}$. 1909.—Nikitin, S.

— Semipalatinsk & Ill R. $\frac{1}{850,000}$. 1909.—Meister, A.

ASIA MINOR.

ARMENIA. $\frac{1}{2,510,000}$. 1910. — Oswald, F., 2.

— (Western). $\frac{1}{300,000}$. 1910. — Phillipson, A.

AUSTRALASIA.

NEW SOUTH WALES. Elsmore-Tingha tin-district. 1 inch=3 miles. 1910.—Cotton, L. A.

— Murrumbidgee River District (various). 1909.—Harper, L. F.

NEW ZEALAND. Geological Survey. Whangaroa & Kalo Districts. 1 inch=1 mile; Pupuke copper-field (Kalo District), 8 inches=1 mile; Omopere District, 1 inch=1 mile; & Ngawha Lake Basin (Omopere District), 4 inches=1 mile. 1909.—Bell, J. M., 3.

— North Islands Oilfields. 1 inch=6 miles. 1910.—Anon., 19.

— Raukumara Division. Mangatu & Waingaromia. 1 inch=1 mile. 1910.—Adams, J. H.

— Westport, Mt. Radiant. 1 inch=1 mile. 1910.—Webb, E. J. H.

QUEENSLAND. Annan R. tin-district. 1 inch=1 mile. 1910.—Ball, L. C.

— Cooktown coalfield. 1 inch=6 miles. 1910.—Ball, L. C., 4.

— Mount Flora goldfield. 1 inch=90 miles. 1910.—Ball, L. C., 3.

— South-East Moreton coalfield. 1 inch=1 mile. 1910.—Marks, E. O.

SOUTH AUSTRALIA. Houghton District. 1 inch=1 mile. 1909.—Benson, W. N.

— (N. Terr.). Pine Creek to Sturts Creek. 2½ inches=40 miles; also Mucka, Gordon, & Tanami, 1 inch=16 miles. 1909.—See S. AUSTRAL. (N. Terr.), 3.

AUSTRALASIA.

VICTORIA. Auriferous Reefs. 1 inch=16 miles. 1910.—See VICTORIA.

— Narree Worrnan. 1 inch=1 mile. 1910.—Skeats, E. W., 2.

WESTERN AUSTRALIA. Gascoyne, Ashburton & West Pilbarra Goldfields (various). 1909.—Maitland, A. G.

— Irwin River District (various). 1910.—Campbell, W. D.

— Wiluna & Hall's Creek. 1 inch=15 miles. 1910.—Talbot, H. W. B.

EUROPE. $\frac{1}{6,800,000}$. 1910. — Waagen, L., 4.

AUSTRIA-HUNGARY.

BOHEMIA. Adler Mts. $\frac{3}{4}$ inch=2 kilom. 1910.—Petrascheck, W., 4.

— Spilite in Pre-Cambrian of Kladno, &c. $\frac{1}{200,000}$. 1908.—Slavik, F.

— Turnau & Liebenau. $\frac{1}{200,000}$. 1903.—Slavik, A.

— Vostry District. $\frac{1}{25,000}$. 1910.—Liebus, A.

AUSTRIA (Lower). Schneeberg & Wechselberg. $\frac{1}{75,000}$. 1910.—Mohr, H.

— (—). Semmering District. $\frac{1}{25,000}$. 1903.—Toula, F.

— (—). Höllenstein Ridge. $\frac{1}{25,000}$. 1910.—Spitz, A., 2.

CROATIA. Stubičke Toplice. $\frac{1}{10,000}$ & $\frac{1}{2,000}$. 1910.—Gorjanović-Kramberger, K., 6.

& SLAVONIA. Geologische Uebersichts-Karte. $\frac{1}{75,000}$. Lief. 5 (Zone 22. Col. xiv). Agram, 1908; Lief. 6 (Zone 23. Col. xvi), Daruver, 1908; & Lief. 7 (Zone 28. Col. xiii), Madak & St. Rok. 1909.—Gorjanović-Kramberger, K., 3-5.

GALICIA. Krzeszowice District. $\frac{1}{75,000}$. 1903.—Szajnocha, L., 2.

— Boryslaw - Schodnica. $\frac{1}{75,000}$. 1903.—Grzybowski, J.

— Kasperowce & Zaleszczyki. $\frac{1}{75,000}$. 1903.—Szajnocha, L., 3.

— Prut Valley between Delatyn & Worochna. $\frac{1}{75,000}$. 1903.—Szajnocha, L.

SALZKAMMERGUT. $\frac{1}{200,000}$. 1903.—Kittl, E.

— Radstädter Tauern. $\frac{1}{200,000}$. 1908.—Uhlig, V., 2.

STYRIA. Erratic-block Districts of St. Stephan, & the District between the Sulm & Drau Rivers, both $\frac{1}{300,000}$. 1903.—Hilber, V.

— Gleichenberg. 1½ inches=1 kilom. 1903.—Clar, C.

TRANSYLVANIA. Aranyos Valley. $\frac{1}{300,000}$. 1910.—Schäppe, W.

TYROL. Hohe Tauern. $\frac{1}{500,000}$. 1903.—Becke, F.

EUROPE.

- AUSTRIA-HUNGARY.
 TYROL. Langkofl District. $\frac{1}{25,000}$ 1910.
 —Gordon, M. M. O.
 —. Schnalse Valley. $1\frac{1}{2}$ inches =
 1 kilom. 1910.—Hradil, G.
 —. Seisser Alp & Schlern. $\frac{1}{75,000}$
 1903.—Diener, C., 2.
 —. Vintschgan. 1 inch = 2 miles.
 1910.—Hammer, W., 3.
 BELGIUM. Liège. Ourthe fault. $\frac{1}{40,000}$
 1910.—Fourmarier, P., 5.
 FRANCE. Lot. Capelle-Marival
 District. $\frac{1}{80,000}$ 1909.—Lemoine, P.
 —. Mayenne. Lucette. $\frac{1}{80,000}$
 1907.—Douxami, H.
 —. Provence. $\frac{1}{500,000}$ & $\frac{1}{200,000}$ 1899.
 —Bertrand, M.
 —. Seine-et-Marne. Annet &
 Thorigny-Dampard. $\frac{1}{50,000}$ 1909.
 Morin, M., 4.
 GERMANY. ALSACE. Winzenheim.
 $\frac{1}{25,000}$ 1909.—Kessler, P.
 ANHALT. District of the Fläming.
 $\frac{1}{50,000}$ 1910.—Meyer, E.
 HANOVER. Borgloh. $\frac{1}{50,000}$ 1910.
 —Spulski, B.
 —. Osnabrück. Piesberg Coal-
 field. $\frac{1}{75,000}$, $\frac{1}{7,500}$ & $\frac{1}{25,000}$ 1909.—
 Haarmann, E.
 —. Wiehengebirge. $\frac{1}{50,000}$ 1910.
 —Lohmann, W.
 HESSE. Fladungen. $\frac{1}{50,000}$ 1909.—
 Wagner, W.
 MERSEBURG. Gräfenhainichen-
 Schmiedeberg Plateau. $\frac{1}{150,000}$ 1909.
 —Linstow, O. von.
 PRUSSIAN SAXONY. Mansfeld &
 Hallea.Saale District. $\frac{1}{100,000}$ 1909.
 —Siegert, L.
 RHENISH BAVARIA. Dürkheim.
 $\frac{1}{25,000}$ 1910.—Reis, O. M.
 RHENISH PRUSSIA. The Solling.
 $\frac{1}{150,000}$ 1909.—Grupe, O.
 RHÖN Mts. Spahl District. $\frac{1}{50,000}$
 1909.—Kallhardt, F.
 THURINGIA. Ilmenau. Ehrenberg.
 $\frac{1}{10,000}$ 1909.—Cronacher, R.
 WESTERWALD Mts. Wirges. Bod-
 en, & Ettinghausen. $\frac{1}{30,000}$ 1910.
 —Schneiderhöhn, H.
 WESTPHALIA. Hagen. $\frac{1}{50,000}$ 1909.
 —Haack, W.
 —. Ibbenbüren Coalfield. $\frac{1}{25,000}$
 1909.—Tietze, O.
 —. Velbert Coalfield. $\frac{1}{75,000}$ 1910.
 —Zimmermann, E.
 WÜRTEMBERG. Freudenstadt.
 $\frac{1}{25,000}$ 1907.—Schmidt, M., 6.
 HOLLAND. Coal Districts (*various*).
 1910.—See HOLLAND.
 ITALY. Calabria. Reggio Calabria.
 $\frac{1}{25,000}$ 1910.—Novarese, V.
 —. Liguria. Savona District.
 $\frac{1}{25,000}$ 1910.—Rovereto, G.

EUROPE.

- ITALY. Lombardy. Brembo Valley
 & San Pellegrino. 1 inch = about 1
 mile. 1910.—Taramelli, T.
 —. Tuscany. $\frac{1}{500,000}$ 1910.—Lotti,
 B., 3.
 NORWAY. Bergen District. Sogne-
 fjord. $\frac{1}{250,000}$ 1910.—Rekstad, J.,
 4.
 —. Søndhordland. Etne.
 1 inch = $1\frac{1}{2}$ miles. 1909.—Rekstad,
 J.
 —. Hamar. Ringsaker, Böttum,
 & Lake Mjösen. $\frac{1}{60,000}$ 1909.—
 Goldschmidt, V. M., 1 & 2.
 —. Lofoden Is. Langö. $\frac{1}{300,000}$
 1910.—Vogt, T.
 —. Stavanger District. Ryfylke.
 1 inch = 6 miles. 1909.—Rekstad, J.,
 3.
 —. Soils. $\frac{1}{50,000}$ 1910.—
 Grimnes, A.
 —. Telemarken District. $\frac{1}{300,000}$
 1910.—Werenskiold, W.
 —. Trondhjem District. Leka I.
 & Bindalsfjord. 1 inch = 3 miles.
 1910.—Rekstad, J., 4.
 —. Namsvand. 1 inch =
 3 miles. 1910.—Oxaal, J.
 — & SWEDEN. $\frac{1}{8,000,000}$ 1910.—
 Tornebohm, A. E.
 RUMANIA. $\frac{1}{2,500,000}$ 1909.—Murgoci,
 G.
 —. Moldavia. Fagaras Mts. 1
 inch = about 5 miles. 1910.—Rein-
 hard, M.
 —. Walachia. Bahna Valley.
 $\frac{1}{20,000}$ 1910.—Macovei, G.
 RUSSIA. Baku Gov. Apsheron Pe-
 nin. Kurnakul Oil-District. $\frac{1}{21,000}$
 1909.—Volarovich, P. E., 4.
 —. Chollar Village Springs.
 $\frac{1}{420,000}$ 1909.—Volarovich, P. E.
 —. Donetz Basin. Dolzhanskaia
 District. $\frac{1}{126,000}$ 1909.—Stepanov, P.
 —. Perm. Mt. Kachkanar & Old
 & New Turinsk Districts. $\frac{1}{420,000}$
 1909.—Krasnopol'ski, A.
 —. Tver Gov. $\frac{1}{840,000}$ 1909.—Khi-
 menkov, V.
 SAXONY & BOHEMIA. Erzgebirge.
 Altenberg-Zinnwald. 1 inch = $2\frac{1}{2}$
 miles; also Geyer-Ehrenfriederdsdorf.
 1 inch = about 1 mile. 1910.—Singe-
 wald, J. T., *fil.*
 SPAIN. Huelva. Rio Tinto. 1 inch
 = $\frac{3}{4}$ mile. 1910.—Finlayson, A. M.,
 4.
 SWEDEN. Gothland. Dal'sand. Dal's
 Ed. $\frac{1}{10,000}$ 1910.—Geer, G. de.
 —. Loftahammar & Väster-
 vik District. $\frac{1}{200,000}$; also Jönköping
 District. 1 inch = about 3 miles.
 1910.—Hægbohm, A. G.
 —. Scania (*various*). 1910.
 —Erdmann, E.; Moberg, J. C.

EUROPE.

- SWEDEN. Gothland. Uddevalla. $\frac{1}{5,000}$.
1910.—Geer, G. de.
- Gothland (I. of). $\frac{1}{400,000}$. 1910.
—Munthe, H.
- Jemtland. Overthrusts near
Östersund. $\frac{1}{1,000,000}$. 1910.—Hægbohm,
A. G., 4.
- Kopparberg District. Flog-
berget Iron-ores. $\frac{1}{2,000}$. 1910.—
Johansson, H. E.
- Nittsjön. $\frac{1}{50,000}$. 1910.
—Warburg, E.
- Norrland. Nordingrå. 1 inch
=3 miles. 1910.—Hægbohm, A. G.,
6.
- Norrbotten. Gellivaara. $\frac{1}{200,000}$.
1910.—Hægbohm, A. G., 5.
- Kiirunavaara District.
 $\frac{1}{100,000}$ & $\frac{1}{50,000}$. 1910.—Lundbohm, H.
- Sarek Mts. $\frac{1}{300,000}$. 1910.
—Hamburg, A., 2.
- Torneträsk District.
 $\frac{1}{200,000}$. 1910.—Holmquist, P. J.
- Ornö. $\frac{1}{15,000}$. 1910.—Hægbohm,
A. G., 3.
- Svealand, Dalecarlia. Nittsjön
District. $\frac{1}{50,000}$. 1910.—Warburg,
E.
- Grängesberg District.
 $\frac{1}{600,000}$ & $\frac{1}{10,000}$. 1910.—Johansson, H.
E., 2.
- Närke. Ammeberg
District. $\frac{1}{12,000}$. 1910.—Johansson,
H. E., 3.
- Norberg. $\frac{1}{10,000}$. 1910.
—Pettersson, W., 2.
- Wermland. Långban
District. $\frac{1}{25,000}$. 1910.—Sjögren, O.,
5.
- Persberg District.
 $\frac{1}{2,000}$. 1910.—Sjögren, O., 6.
- Stockholm Coast - Region.
 $\frac{1}{200,000}$, $\frac{1}{15,000}$, $\frac{1}{20,000}$ & $\frac{1}{4,000}$. 1910.—
Holmquist, P. J., 2.
- Ulf Is. $\frac{1}{50,000}$. 1910.—Sobral,
J. M.
- (Middle & Southern). $1\frac{1}{2}$ inch
=100 kilom. 1910.—Hægbohm, A.
G., 8.
- (—). $\frac{1}{3,500,000}$. 1910. Tørne-
bohm, A. E.

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calcaires entre la Lizerne et la
Kander, par Maurice Lugeon. $\frac{1}{50,000}$.
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— Grisons. Splügen District.
 $\frac{1}{50,000}$. 1909.—Welter, O. A.

— Lucerne District. $1\frac{1}{2}$ inches =
3 miles. 1910.—Buxtorf, A.

TURKEY. Albania (Northern). 1 inch
=about 10 miles. 1907.—Vetters,
H.

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129. 1908-9.

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Finlayson, A. M.

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Survey. 1-inch Geological Map,
New Series.

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printed. 1910.—H. H. Howell,
&c.

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Atherstone District. 1910.—
Strangways, C. F.

Sheets 141-142. Nottingham Dis-
trict. 1910.—Lamplugh, G.
W.

Sheet 142. Melton Mowbray.
1909.—Lamplugh, G. W.

Sheet 229. Carmarthen (Solid &
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Map of South Wales, 1910 (solid &
drift).

— Cheshire. Wirral District,
Heswell, &c. 1 inch = 2 miles.
1910.—Wade, A., 3.

— Cornwall. 1 inch = 10 miles.
1910.—Ussher, W. A. E.

— Cumberland. Skiddaw Dis-
trict. 1 inch = 1 mile. 1910.—
Rastall, R. H.

— Devon. Barnstaple District.
 $\frac{3}{4}$ inch = 1 mile. 1910.—Hamling,
J. G.

— Plymouth to R. Dart.
1 inch = 8 miles; also Plymouth
District. 1 inch = 4 miles & 1
inch = 20 miles. 1910.—Ussher,
W. A. E.

— Hampshire. Water-levels in
Test & Itchen Valleys. 1 inch =
 $1\frac{1}{2}$ miles. 1910.—Whitaker, W.

— Herefordshire & Worcester-
shire. Ledbury, Malvern, & Abber-
ley Hills. 1 inch = 1 mile. 1910.—
Groom, T. T.

— Leicestershire. Charnwood
Forest. 1 inch = 1 mile. 1910.—
Watts, W. W.

— Northumberland & Durham.
1 inch = 5 miles. 1910.—Garwood,
E. J., 2.

— Yorkshire. Ingleborough.
 $\frac{5}{8}$ inch = 1 mile. 1910.—Strahan,
A., 3.

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- ENGLAND AND WALES. Yorkshire. Sheffield. 1 inch=4 miles. 1910.—See BRIT. ASSOC.
- WALES. Carmarthenshire. Llansawel District. 2 inches=1 mile. 1910.—Drew, H.
- Carnarvonshire. Ynysynhaiarn District. 3 inches=1 mile. 1910.—Fearnshides, W. G.
- Glamorganshire. Swansea Bay. 1 inch=1 mile. 1910.—Jordan, H. K.
- Merionethshire. Dolgelly Gold-belt. 1 inch=2 miles & 1 inch= $\frac{3}{4}$ mile. 1910.—Andrew, A. R.
- (North & Central). 1 inch=18 miles. 1910.—Fearnshides, W. G., 2.
- Southern Coalfields. Map & Sections by H. K. Jordan. 1910.
- (South) & Southern England. 1 inch=30 miles. 1910.—Strahan, A., 2.
- IRELAND. Geological Survey. Co. Cavan. Ballyhaise Agricultural Station (soil-map). 6 inches=1 mile. 1910.—Kilroe, J. R.
- Geological Chart of Coast. 2 $\frac{1}{2}$ inches=about 70 miles. 1910.—Cole, G. A. J.
- Galway. Glensaul District. 6 inches=1 mile. 1910.—Gardiner, C. I.
- SCOTLAND. 1 inch=1 mile. (2nd edition.) 1910.—Geikie, Sir A., 2.
- Geological Survey of Scotland.—79 Sheets of the 6-inch Geological Map.
- Argyll & Inverness-shires. Loch Linnhe & Loch Leven District. 1 inch=2 miles. 1910.—Bailey, E. B.
- Central Valley. 1 inch=25 miles. 1910.—Carruthers, R. G.
- Inverness-shire. Ben Nevis. 1 $\frac{1}{2}$ inches=2 miles. 1910.—Maupe, H. B.
- Ross-shire. Augen-Gneiss District. 1 inch=about 4 miles. 1910.—Clough, C. T., 3.
- DUTCH EAST INDIES. Celebes. $\frac{1}{500,000}$. 1910.—Bœhm, G., 6.
- MADAGASCAR. Diego-Suarez Bay. $\frac{1}{100,000}$. 1906.—Boule, M., 7.
- PHILIPPINE Is. (*various*). See PHILIPPINE Is. Dep. Inter.
- Leyte. 1 inch=about 20 miles. 1909.—Adams, G. I.
- Luzon (S.W.). $\frac{1}{400,000}$. 1910.—Adams, G. I., 4.
- WORLD. Iron-ore deposits (*various*). 1910.—See CONGRÈS GÉOL. INTERNAT. XI., 3.
- Chart of Soils (Mercator's projection). 1908.—Glinka, K.
- Mar del Plata (Buenos Ayres).—Ameghino, F., 5.

- Marabastad gold-field (Transvaal).—Hall, A. L.
- Maralliaceæ, Triassic.—Krasser, F.
- Marbehan (Luxemburg).—Stainier, X., 3.
- Marble, Carinthia.—Becke, F., 5.
- , Carrara.—Aloisi, P.
- , Natal.—Hatch.—F. H., 2.
- , flow of.—Adams, F. D., 2.
- , physical properties of.—Baldwin-Wiseman, W. R.
- Marburg (Styria).—Blaschke, F.
- Marcasite, Hanover.—Schœndorf, F., 5.
- , Podolia.—Vatic, N.
- Marches (Italy).—Canavari, I., 1 & 2; Martelli, A.
- Mareuil (Dordogne).—Glangeaud, P.
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- Membranipora.—Brydone, R. M.; Canu, F.; Fillionat, M.
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- Mesozoic beds, Scania.—Moberg, J. C.
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- , Skiddaw granite.—Rastall, R. H.
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- , origin of.—Andrimont, R. d'; Greenwood, H. W.
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- , American Museum of Natural History.—Hovey, E. O., 2.
- , Chandakapur.—Bowman, H. L.
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- , Dorès de Campo.—Meunier, S.
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- , Murnpeowie (S. Austral.).—Smith, L. L.
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- , Quaternary. — Bullen, R. A., 3; Menzel, H., 6.
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- Montian, Belgium.—Cossmann, M., 2.
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- , Westphalia, &c.—Olbricht, K., 1-4; Wegner, T. H.
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- , University Museum.—Shklarevski, A.; Pavlov, M. V., 3.
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- New Mexico (U.S.A.).—Carruth, J. A.; Dodge, R. E.; Girty, G. H.; Lee, W. T., 1 & 2; Lindgren, W., 1 & 3; Richardson, G. B.; Sheridan, J. E.; Stauber, I. J.
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- Nordingrå (Sweden).—Hægbohm, A. G., 6; Sobral, J. M.
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 —, Carnic Alps.—Bather, F. A., 7.
 —, Galway.—Gardiner, C. I., 1 & 2.
 —, Illinois.—Savage, T. E.; Weller, S., 3.
 —, Michigan.—Lane, A. C.
 —, Sweden.—Törnquist, S. L.
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- Ovibos*.—Wanderer, K.
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- , Gloucestershire & Somerset.—Reynolds, S. H.
- , Graz.—Penecke, K. A.
- , Kansas.—Prosser, C. S.
- , Lake District.—Marr, J. E.
- , Madagascar.—Newton, R. B.
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- Physical geology, Franco-Belgian.—Briquet, A., 1-3.
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- , St. Louis (Ill.).—Fenneman, N. M.
- Physodon*.—Leriche, M.
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- Picardy (France).—Rutot, A., 6.
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- Pilbarra (W. Austral.).—Maitland, A. G.; Simpson, E. S.
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- Port Shepstone (Natal).—Hatch, F. H., 2.
- Porter's Landing (Georgia).—Vaughan, T. W., 2.
- Portici (Campania).—Casoria, E., 9.
- Portlandian, Aquitaine.—Glangcaud, P.
- Portmadoc (Carnarvon).—Fearnside, W. G.
- Porto Santo (Madeira).—Ioksinovich, Z. I., 1 & 2.
- Portugal.—Bensaude, A.; Choffat, P.; Ferreira, E. de B.; Finlayson, A. M., 5; Harlé, E.; Pinto, A. C. O.
- , Geological Survey.—Dollfus, G. F., 4; see also PORTUGAL.
- Portuguese E. Africa.—Krenkel, E.
- Posen (Prussia).—Jentsch, A., 2 & 3; Korn, J.; Menzel, H., 5.
- Posidonia* Shales, N. Germany.—Stolley, E., 2.
- Posidoniella*.—Furlani, M., 2.

- Posidonomya*.—Hind, W., 2.
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 —Martelli, A., 3.
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 —deposits, Lake Constance.—
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 —sulphates.—Mueller, H.
 —, Vesuvius.—Casoria, E., 3.
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 —Nacken, R.
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 L.; Kynaston, H.; Mellor, E. T.
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 arctic.—Charcot, J. B.
 Poverty Bay (N.Z.).—Adams, J. H.
 Pozzomaggiore (Sardinia).—Serra, A., 2.
 Praborna (Piedmont).—Colomba, L.
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 —Helmert, F. R.
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 —, Canada.—Coleman, A. P., 5;
 Muller, W. G.; Walcott, C. D., 2.
 —, South Australia.—Benson, W. N.
 —, Sweden.—Høegbo, A. G., 2 & 8.
 —, Tasmania.—Ward, J. K.
 —limestones, N. America.—Daly, R.
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 —Hubbard, G. D.
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 Pre-Oligocene, Solling district.—Grupe,
 O.
 Presso Valley (Lombardy).—Taramelli,
 T., 2.
 Příbram (Bohemia).—Hofmann, A.
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 J.
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 —Hinde, G. J.
- Princeton University Expeditions to
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Pristaulacus.—Brues, C. T.
 Pρίstina (Turkey).—Angel, F.
Pristis.—Leriche, M.
Proarcestes & *Proclydonautilus*.—
 Diener, C.
Proavites.—Krafft, A. von.
Proctotrypes.—Brues, C. T.
Productella.—Kindle, E. M., 2.
Productus.—Jarosz, J.; Kosmat, F.,
 4; Lee, W. T., 2; Lissitzyn, K. I.;
 Smith, S., 2; Weller, S.
Proetus.—Stauffer, C. R.; Weller, S.
Proinia.—True, F. W.
Promathildia.—Brösanilen, R.
 Prome (Burma).—Stuart, M.
Pronoella.—Benecke, E. W.
Propachastrella.—Schrammen, A.
Propalmophyllum.—Lignier, O.
Proplanulites.—Dacqué, E.; Douvillé,
 R., 7.
Proptychites.—Krafft, A. von.
Protraster.—Cottreau, J.
Prosodaena.—Andrusov, N.
Prosalodon.—True, F. W.
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Protoblattina.—Meunier, F.
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 W.
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Protopecten.—Hind, W., 2.
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Protypotherium.—Scott, W. B.
 Provence (France).—Bertrand, M.;
 Kilian, W.; Lévy, Alb. M.; Repelin,
 J., 2.
 Prussia (East).—Jentzsch, A.; Klien,
 —; Meunier, F., 2; Preuss, H.;
 Spulski, B., 2; Tornquist, A., 1, 2,
 4, & 5.
 —(West).—Jentzsch, A., 2; Preuss,
 H.
 Prussian Saxony.—Potonié, H.; Zim-
 mermann, E.
 Prut Valley (Galicia).—Szajnocha, L.
 Przedborsk Mts. (Galicia).—Lewinski, J.
Psammbolia.—Cerulli-Irelli, S.
Pseudalaria.—Brösanilen, R.
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 —Lowe, H. J.
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Pseudostega.—Brydone, R. M.
Psiloceras.—Counillon, H.; Finckh, A.;
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- Psilophyton*.—Matthew, G. F., 2.
Psymnophyllum.—Cambier, R., 2.
Pteraspis.—Leriche, M.
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Pteromalus.—Brues, C. T.
 Pteropoda, Devonian.—Torley, K.
 Pterosauria, Jurassic.—Ammon, L. von, 2.
 —, reconstruction of.—Stromer, E., 2.
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Ptychoparia.—Reed, F. R. C., 2.
Ptychospira.—Weller, S.
Ptyonius.—Moodie, R. L., 4.
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 Puget Sound (Wash.).—Bretz, J. H.
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 Punjab (India).—Daru, N. D.; La Touche, T. H. D., 2.
 Purbeck, I. of.—Hudleston, W. H., 2; Keeping, H.; Watson, D. M. S., 1 & 2.
 Purbeck Beds, Swanage.—Woodward, A. S., 2.
Purpurina.—Brøsamlen, R.
 Pay-de-Dôme (Auvergne).—Barbier, P., 2; Glaudeaud, P., 3, 4, & 6-10; Guennard, F., 5; Guild, F. N.; Héribaud-Joseph, —; see also Auvergne, &c.
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Pygaster & *Pygurus*.—Cottreau, J.
 Pyrrargyrite.—Toborffy, Z. von, 2.
 Pyrenees (French).—Bresson, A.; Carez, L., 1 & 2; Escard, J.; Lacroix, A., 1 & 2; Martel, E. A., 3 & 5; Muehlbach, —; Ritter, E.; Roussel, J., 1-3.
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 —, Huelva.—Finlayson, A. M., 4 & 5.
 —, Sajóháza.—Zimanyi, K., 2.
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 —, New York.—Newland, D. H., 2.
 Quartz, Fano Pliocene conglomerate.—Martelli, A.
 —, Kasbék.—Prendel, P.
 —, Pornello.—Principi, P., 2.
 —, Selvino.—Ponte, G. M. da.
 —, diabases, Ontario.—Collins, W. H., 2.
 Quartz-drift, Cornwall.—Whitley, D. G., 2.
 —, porphyry, Baden.—Bross, H., 2.
 —, twinning of.—Zyndel, F.
 Quartzite, Essendon (Vict.).—Armitage, R. W., 2.
 —, Morbihan.—Bullen, R. A.
 —, Moravia.—Rzehák, A., 4.
 —, knolls, Lysa Mts.—Lozinski, W. von.
 — (Wisconsin), secondary structures in.—Steidtmann, E.
 Quaternary, Alps.—Lepsius, R., 4.
 —, Amiens.—Rutot, A., 6.
 —, Antarctic.—Buckman, S. S., 3.
 —, Argentina.—Matthew, W. D.; Moreno, N. B.
 —, Baden.—Geyer, D., 2.
 —, Balearic Is.—Bullen, R. A., 3.
 —, Belgium.—Hasse, G., 5; Rutot, A., 1 & 3.
 —, Berlin.—Hess von Wichdorff, H., 2.
 —, Berne.—Antenen, F.
 —, Bessarabia.—Mikhaïlovski, G. P.
 —, Bohemia.—Fritsch, A., 2.
 —, British Is.—Hinton, M. A. C.
 —, Buenos Ayres.—Ameghino, F.
 —, Cape Colony.—Schwarz, E. H. L., 4.
 —, Cestas.—Degrange-Touzin, A.
 —, Constantine.—Joleaud, L.
 —, Dalmatia.—Schubert, R. J., 2 & 3; Stefani, C. de, 4.
 —, Dübenheide.—Linstow, O. von.
 —, Durance Basin.—Martin, D., 1 & 2.
 —, Galicia & Poland.—Lozinski, W. von, 1 & 3.
 —, Gallo-Belgian peneplain.—Briquet, A., 3.
 —, Germany (E.).—Gräbner, P.; Jentzsch, A.; Menzel, H., 6; Schulz, A.; Stoller, J., 5; Wahnschaffe, F., 1 & 2; Weber, C. A.
 —, Greece.—Négris, P.
 —, Hanover.—Gagel, C., 11; Könen, A. von, 5; Menzel, H., 2.
 —, Hesse.—Klemm, G.; Steuer, A.
 —, Holland.—Rutten, L.
 —, Hungary.—Gaál, S. von, 3; Kormos, T., 2 & 3.
 —, Iowa.—Shimek, B., 1 & 2.
 —, Italy.—Gignoux, M.
 —, Java.—Schuster, J., 1 & 2.
 —, King I. (Bass Straits).—Spencer, B.
 —, Lake-Constance district.—Schmidle, W., 2.
 —, Leadville district.—Capps, S. R.
fl.
 —, Lüneburg.—Olbricht, K., 3; Stoller, J., 2-5.
 —, Mexico.—Freudenberg, W., 2.
 —, Missonri Valley.—Miller, D. C.
 —, Nebraska.—Shimek, B., 2.
 —, Norway.—Danielsen, D.; Rekstad, J., 2.
 —, Paris Basin.—Jodot, P.

- Quaternary, Patagonia.—Halle, T. G.
 —, Pomerania.—Hess von Wichdorff, H.
 —, Rhenish Prussia.—Krauss, P. G.
 —, Rhine Valley.—Haas, F.
 —, Rumania.—Sevastos, R.
 —, Saale Valley.—Siegert, L., 3.
 —, Saxony.—Wanderer, K.
 —, Schleswig-Holstein.—Gagel, C., 7.
 —, Silesia.—Götzinger, G.
 —, Somme Valley.—Commont, V., 1-4.
 —, Sussex.—Elsden, J. V.
 —, Sweden.—Fries, T., 1 & 2; Geer, G. de; Hægg, R., 1-2; Hamberg, A.; Høgbom, A. G.; Munthe, H., 2 & 3; Nathorst, A. G.; Philip, G.; Warburg, E., 2; Wesenberg-Lund, C.
 —, Sylt.—Gagel, C., 5.
 —, Thuringia.—Naumann, E., 2; Siegert, L., 5.
 —, Tierra del Fuego.—Halle, T. G.
 —, Transylvania.—Toula, F., 2.
 —, Tunis.—Joly, A., 3.
 —, Tuscan. — Campana, D. del, 1 & 2.
 —, Wiesbaden.—Mordziol, C., 2.
 —, Würtemberg.—Geyer, D., 3; Schmidt, R. R.; *see also* Drift, Pleistocene, §c.
 —, climates.—Gladmann, R.; Krause, E. H. L.; Romer, E.; *see also* CONGRÈS GÉOL. Internat. XI., 2.
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 — —, Paris Basin.—Rutot, A., 5; *see also Homo*.
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 Quenast (Brabant).—Cosyns, G., 2; Malaise, C., 3 & 4; Mathieu, E.
 Quercy (France).—Bourgeat, F. L., 2; Fournier, E., 2; Harlé, E., 2; Nègre, G.; Thevenin, A., 5.
 Quercyite, France.—Lacroix, A., 15 & 16.
 Quesa (Spain).—Berwerth, F.
 Quicksilver, Idria.—Limanovski, M., 2.
 —, Sierra Nevada (Spain).—Lotti, B.
 —, Texas.—Hillebrand, W. F., 2.
 Quincy (Mass.).—Pirsson, L. V.
 Quiruvilca (Peru).—Santolalla, F. M.
 Quisque (Peru).—Hewett, D. F.
- Rabaka Gorge, St. Vincent.—Hovey, E. O., 4.
 Rabent Mts. (Bohemia).—Petrascheck, W., 5.
 Radau Valley (Harz).—Fromme, J.
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 — —, mineral waters, &c.—Brochet, A., 1-3; Farr, C. C.; Gudzent, —; Pinto, A. C. O.; Schlundt, H.
 — —, rock-colouring &.—Court, G.
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 Radium, Cam R. water.—Satterly, J.
 —, basalt &.—Strutt, R. J., 2.
 —, minerals &.—Kernot, G.; Piutti, A.; Russell, A. S.; Soddy, F.
 — rays, mineral colouring &.—Dælter, C., 3-5.
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 Radstädter Tauern (Austria).—Uhlig, V., 2.
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 Ragunda (Norrlund).—Høgbom, A. G., 6.
Raia.—Drevermann, F., 2; Leriche, M.; Stefano, Gius. de.
 Raibl (Carinthia).—Kossmat, F.
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 Ramsden's Cave (Victoria).—Hardy, A. D.
 Rancho La Brea (Cal.).—Merriam, J. C., 1 & 4; Miller, L. H., 1-4; Sinclair, W. J., 2.
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 Rapospalota (Hungary).—Franzenau, A.
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 Rathjordan (Limerick).—Prior, G. T., 2.
 Rathmullan (Donegal).—Cole, G. A. J., 2.
 Raton Coalfield (New Mex.).—Lee, W. T.
 Rankumara (N.Z.).—Adams, J. H.
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 Ravines, plateau.—Ivchenko, A. Th., 2.
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 —, Oklahoma.—Tarr, W. A.
 Red Chalk.—Bower, C. R.; Jackson, J. F.
 — clays, oceanic.—Caspary, W. A.
 'Red-deer' antler, Stanley Downton.—Upton, C.
 'Red Granite,' Transvaal.—Kynaston, H., 2.
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 —, Cretaceous.—Fritsch, A.: Huene, F. von; Larkin, P.; Mansel-Pleydell, J. C., 1 & 2; Nopcsa, F., 2; Sternberg, C. H., 2; Thevenin, A., 2; Williston, S. W., 6; Woodward, A. S., 8.
 —, Jurassic.—Ammon, L. von, 2; Andrews, C. W.; Bogolubov, N. N., 1-3; Dollo, L.; Fraas, E., 4; Huene, F. von, 4; Lull, R. S., 1, 3, & 4; Mansel-Pleydell, J. C., 1 & 2; Richardson, L., 3; Sauvage, H. E.; Stromer, E., 2; Thevenin, A., 2; Tornier, G., 1-3; Watson, D. M. S., 1-4; Woodward, A. S., 2, 3, & 8.
 —, Permian.—Huene, F. von, 3; Thevenin, A., 1 & 4; Williston, S. W., 1-5 & 7.
 —, Permo-Triassic.—Broom, R.
 —, Tertiary.—Fucini, A.; Heritsch, F., 5; Huene, F. von, 1-2 & 5; Jäkel, O., 2 & 3; Merriam, J. C., 3; Watson, D. M. S., 5; Wiman, C., 1 & 2; Woodward, A. S., 9.
 —, extinct.—Hutchinson, H. N.
 —, four-toed.—Jäkel, O., 2 & 3.
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 Republic City (Wash.).—Umpleby, J. B.
 Resin, Leval Tertiary.—Marty, P.
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Reticularia.—Kindle, E. M., 2.
Retzia.—Weller, S.
 Reun (Styria).—Penecke, K. A., 2.
 Réunion (Indian Ocean).—Lacroix, A., 6.
 Reuss district (Germany).—Hess von Wichdorff, H., 3.
 Revinian, Ardennes.—Malaise, C., 2.
 Rézbanya (Transylvania).—Szádeczky, G. von.
 Rhabdite, Commeny.—Oswald, —.
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 Rhætic, Arzino Group.—Gortani, M.
 —, Bavaria.—Stromer, E.
 —, Switzerland.—Argand, E.; Erni, A.
 —, Umbria.—Principi, P., 4.
Rhagasostoma.—Brydone, R. M.; Canu, F.; Filliozat, M.
Rhamphorhynchus.—Ammon, L. von, 2; Stromer, E., 2.
 Rhayader (Radnor).—Richardson, L., 5.
 Rhein-Hesse.—Steuer, A., 1-3.
 Rhenish Bavaria.—Botzong, C.; Ebler, E.; Pfäff, F. W., 3; Reis, O. M., 1-5; Salomon, W.; Schuster, M., 2; Thuerach, H.
 Rhenish Prussia.—Grupe, O.; Kessler, P., 2; Kranz, W., 1 & 2; Krauss, P. G.; Wunstorff, W.
 Rhine R. (Germany).—Chuard, E.; Siegert, L., 4.
 —, Upper (Switzerland).—Welter, O. A.
 — Valley.—Bräuhäuser, M.; Egger, E.; Haas, F.; Schmidt, R. R.
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Rhipidomella.—Williams, H. S., 4.
Rhizocorallium.—Reis, O. M., 5.
 Rhode I. (U.S.A.).—Loughlin, G. F.
 Rhodesia (S. Afr.).—Mennell, F. P., 1 & 3; Zealley, A. E. V., 1 & 2.
Rhodocrinus.—Weller, S.
 Rhodonite.—Anderson, C.; Fromme, J.
Rhombus.—Stefano, Gius. de.
 Rhön Mts. (Germany).—Buecking, H.; Galkin, X.; Kallhardt, F.; Pfäff, F. W., 2; Wagner, W.
 Rhône (France).—Douxami, H.; Gonnard, F., 6.
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 Rhynchocephalia, Triassic.—Huene, F. von, 5.
Rhynchonella.—Buckman, S. S., 1 & 2; Diener, C.; Etheridge, R., *fil.*; Nielsen, K. B.; Weigner, S.; Weller, S., 2.
Rhynchopora & *Rhynchotetra*.—Weller, S., 2.
Rhynchosaurus.—Watson, D. M. S., 5.
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 Riazan Gov. (Russia).—Prigorovski, M. M.
 Richelle (Liège).—Cosyns, G., 3.
 Richmond Park (Victoria).—Kitson, J. S.
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 Ringerike (Norway).—Reusch, H.
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 —-terraces, Hanover.—Grupe, O., 2.
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 —-water & rock analyses.—Shelton, H. S.

- Rivers, Bohemia.—Staff, H. von, 2.
 —, England, S.W. & S.—Strahan, A., 2.
 — (Marne), subterranean.—Martel, E. A.
 —, New York.—Fairchild, H. L.
 —, Weald.—Bury, H.
 —, formation & course of.—Haworth, E.; Smith, B.
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 — —, Philippines.—Adams, G. I., 2.
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 — —, Yukon Terr.—Tyrrell, J. B.
 — —movements.—Ržehák, A., 6.
 — —plasticity, mountain building &.—Deecke, W., 2; Deeley, R. M., 3.
 — —section cutting apparatus.—Grayson, H. J.
 — —sections, interference-rays &.—Genzken, E.
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- Silberberg (Bavaria).—Muenichsdorfer, F.
- Silesia.—Barbier, P., 3; Bartonec, B. F.; Beck, H., 2; Fillunger, A.; Goetzinger, G.; Guericke, G.; Haas, F., 2; Jahn, J. J., 2; Michael, R.; Milch, L., 2; Sachs, A.; Scupin, H.; Tietze, O., 2.
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- , colloidal.—Cornu, F.; Serra, A., 4.
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- Silurian, Alabama.—Burchard, E. F., 2 & 3.
- , Belgium.—Malaise, C., 1, 3, & 4.
- , Bohemia.—Želízko, J. V., 1 & 2.
- , Carnic Alps.—Bather, F. A., 6.
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- , Gothland, I.—Hedström, H.; Munthe, H.
- , Harz.—Denckmann, A., 2; Erdmannsdorffer, O. H., 2.
- , Illinois.—Savage, T. E.
- , Kellerwald.—Lepsius, R., 5.
- , Paris Basin.—Cayeux, L.

- Silurian, Sweden.—Moberg, J. C.; Törnquist, S. L.; Wiman, C., 3.
 —, Victoria.—Chapman, F., 4 & 6.
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 —, Yorkshire.—Watney, G. R.
 —, zones.—Reed, F. R. C., 3.
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 —, Chile.—Sundt, F. A.
 —, Harz.—Liebisch, T., 2;
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 —, Nevada.—Emmons, W. H.;
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 —, Washington (U.S.A.).—
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- South Australia.—Benson, W. N., 1 & 2; Brown, H. Y. L.; Crook, T., 2; Dodwell, D. F.; Howchin, W.; Mawson, D.; Smith, L. L.; Stanley, E. R.; Taylor, T. G.; *see also* SOUTH AUSTRALIA, 1-3.
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- Spiti (Himalayas).—Krafft, A. von; Reed, F. R. C., 2.
- Shales.—Uhlig, V., 5.
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- Spodumene.—Zambonini, F.
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- Stavanger district (Norway).—Grimmes, A.; Kaldhol, H.
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- Stayr Valley (Upper Austria).—Geyer, G., 3.
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- Stones embedded in wood.—Carus-Wilson, C., 1 & 2.
- Stonesfield (Oxon.).—Richardson, L., 6.
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- Straparollus*.—Kindle, E. M., 2; Stauffer, C. R.
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- Sturgeon, Lake (Ont.).—Collins, W. H.
- Stuttgart (Württemberg).—Finck, A.
- Styloleuthis*.—Fritsch, A.
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- Styria (Austria).—Bach, F., 1 & 2; Blaschke, F.; Clar, C.; Haas, O.; Heinrich, A.; Heritsch, F., 1-4; Hilber, V., 1 & 2; Hüfer, H.; Hörnes, R., 1 & 4; Leeden, R. van der, 2; Leitmeier, H., 1, 2, & 4; Penecke, K. A., 1 & 2; Redlich, K. A., 1 & 2; Rozič, J.; Vacek, M., 2.
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- Surrey.—Bury, H.; Chree, C.; Clinch, G.; Dibley, G. E., 1 & 2; Leach, A. L., 2; Leighton, D.; Martin, E. A., 4; Monckton, H. W., 2; Whitaker, W., 1 & 2.
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 —, Hanover.—Grupe, O., 2.
 —, Picentino.—Galdieri, A.
 —, Rhenish Prussia.—Krauss, P. G.
 —, Somme Valley.—Commont, V., 3.
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 —, Alsace.—Kessler, P.
 —, Aral, Sea of.—Bogachev, V., 2.
 —, Ariège.—Vasseur, G.
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- Tertiary, Belgium.—Cossmann, M., 2; Hasse, G., 2, 3, & 5; Leriche, M., 3 & 4.
- , Bessarabia.—Mikhailovski, G. P.
- , California.—Pack, R. W.
- , Carpathians (W.).—Rzehák, A.
- , Caspian.—Andersson, F.; Andrusov, N.
- , Colorado.—Brues, C. T.; Cockerell, T. D. A., 1-4.
- , Dalmatia.—Schubert, R. J., 1 & 3; Stefani, C. de, 4.
- , Darmstadt.—Schottler, W.
- , Egypt.—Fourtau, R.
- , Emilia.—Stefanini, G.
- , Galicia.—Friedberg, W.
- , German E. Africa.—Scholz, E., 2.
- , Germany (N.W.).—Harbort, E., 2; Keilhack, K., 2; Könen, A. von, von, 1-5; Nahusen, J.; Weber, C. A., 2.
- , Gironde.—Repelin, J., 3.
- , Hampshire & Surrey.—Monckton, H. W., 2.
- , Hungary.—Gaál, S. von; Kormos, T.; Lœrenthey, I.; Vitalis, S.
- , Liguria.—Rovereto, G., 2.
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- , Madeira.—Ioksimovich, Z. I., 1 & 2.
- , Mainz Basin.—Köenen, A. von, 4; Steuer, A., 1-3.
- , Marne Valley.—Morellet, L.
- , Merseburg.—Linstow, O. von, 1 & 2.
- , Nevada.—Furlong, E. L.; Kellogg, L.; Merriam, J. C., 3 & 5.
- , North Carolina & Virginia.—Miller, B. L.
- , Oregon & Vancouver.—Reagan, A. B., 2.
- , Paris Basin.—Canu, F., 1-4; Grossouvre, A. de, 3; Hamelin, L.; Leriche, M., 3.
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- , Posen.—Jentzsch, A., 3.
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- , Rumania.—Beutler, K.; Lœrenthey, I., 2; Macovei, G.; Simionescu, I., 5.
- , Russia.—Andrusov, N., 1-3; Bogachev, V.
- , Savoy.—Douxami, H., 2.
- , Sicily.—Gemmellaro, M.
- , Silesia.—Getzinger, G.
- , Sind.—Cossmann, M., 5.
- , Solling district.—Grupe, O.
- , Styria.—Bach, F., 1 & 2; Häfer, H.
- , Sussex.—Elsden, J. V.
- , Sweden.—Tørnebohm, A. E.
- , Switzerland.—Boussac, J., 1-6; Cloos, H.; Oppenheim, P.; Paulcke, W.
- , Tehnantepec.—Tonla, F., 3.
- , Thuringia.—Philippi, E., 3.
- , Toledo.—Douville, H., 3.
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- Tertiary, Tuscany.—Stefano, Gius. de.
- , Vaucluse.—Joleaud, L., 2 & 3.
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- , Victoria.—Chapman, F., 2 & 3.
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- , palaeontology.—Hutchinson, H. N.
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- Thuringia (Germany).—Cronacher, R.; Kolesch, K.; Naumann, E., 2; Philippi, E., 3; Schäfer, H. F.; Siegert, L., 5; Weiss, F.; Wuest, E.
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- Tin, Cape Colony & Zululand.—Recknagel, R.
- , Congo.—Ball, S. H.
- , Dutch E. Indies.—Vermaes, S. J.; see also DUTCH EAST INDIES.
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- , Mexico.—Wittich, E., 4.
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- Titanite, Rauris Valley.—Seisser, H.
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- Tobolsk Gov. (Siberia).—Sukachev, V. N.
- Toledo (Spain).—Douvillé, H., 3.
- Tombador escarpment (Bahia). — Branner, J. C., 2.
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- Tomsk Gov. (Siberia).—Petunnikov, G.
- Tonbridge (Kent).—Handcock, E. W.
- Tongking (Indo-China).—Deprat, J.; Mansuy, H.
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- & topology.—Berthaut, —.
- Tornatella*.—Cossman, M., 5.
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- Tooprion*.—Hay, O. P.
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- Trachyaster*.—Stefanini, G.
- Trachyceras*.—Diener, C.; Scalia, S., 4.
- Trachyderma*.—Chapman, F., 4.
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- Transvaal.—Anderson, W.; Hall, A. L., 1-6; Horwood, C. B.; Humphrey, W. A., 1 & 2; Johnson, J. P.; Kynaston, H., 1 & 2; Mellor, E. T., 1 & 2; Recknagel, R.; see TRANSVAAL, 1-3.
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- Trappau (Silesia).—Bartonec, B. F.
- Trau (Dalmatia).—Kerner, F. von, 5.
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- Trebizond (Asia Minor).—Frech, F.; Kossmat, F., 3.
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- Tremadoc Slates.—Fearnside, W. G.
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- Trépail Cavern (Marne).—Martel, E.
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 —, Bavaria.—Fischer, H.; Handlirsch, A.; Wagner, G.
 —, Congo.—Leriche, M., 2.
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 —, East Indies.—Wanner, J., 2.
 —, England.—Beasley, H. C., 2; Cresswell, F.; Horwood, A. R., 7, 10, & 11; *see also* Nottingham, §c.
 —, Germany.—Blanch, E.
 —, Greece.—Renz, C., 1-3.
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 —, Hungary.—Bather, F. A.
 —, Lorraine.—Van Werveke, L., 3.
 —, Lot.—Lemoine, P.
 —, Madagascar.—Douvillé, H., 8; Fournier, E., 6.
 —, Marbehan.—Stainier, X., 3.
 —, Molucca Is.—Böhm, G.
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 —, Nottinghamshire.—Smith, B., 2.; Swinnerton, H. H.; Vernon, R. D.
 —, Rumania.—Simionescu, I., 4.
 —, Salzburg.—Hahn, F.
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 —, South Alpine.—Kronecker, W.
 —, Spitsbergen.—Wiman, C., 1 & 2.
 —, Styria.—Haas, O.; Heinrich, A.
 —, Tunis.—Joby, A., 2.
 —, Thuringia.—Kolesch, K.; Krech, K.
 —, Tyrol.—Haberle, D.; Hammer, W., 2; Krasser, F.
 —, Vosges.—Van Werveke, L., 2.
 —, Worcestershire.—Wills, L. J., 3.
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 —, Carboniferous.—Jarosz, J., 2; Lee, W. T., 2; Weller, S.
 —, Devonian.—Stauffler, C. R.; Torley, K.
 —, Ordovician.—Gardiner, C. I.
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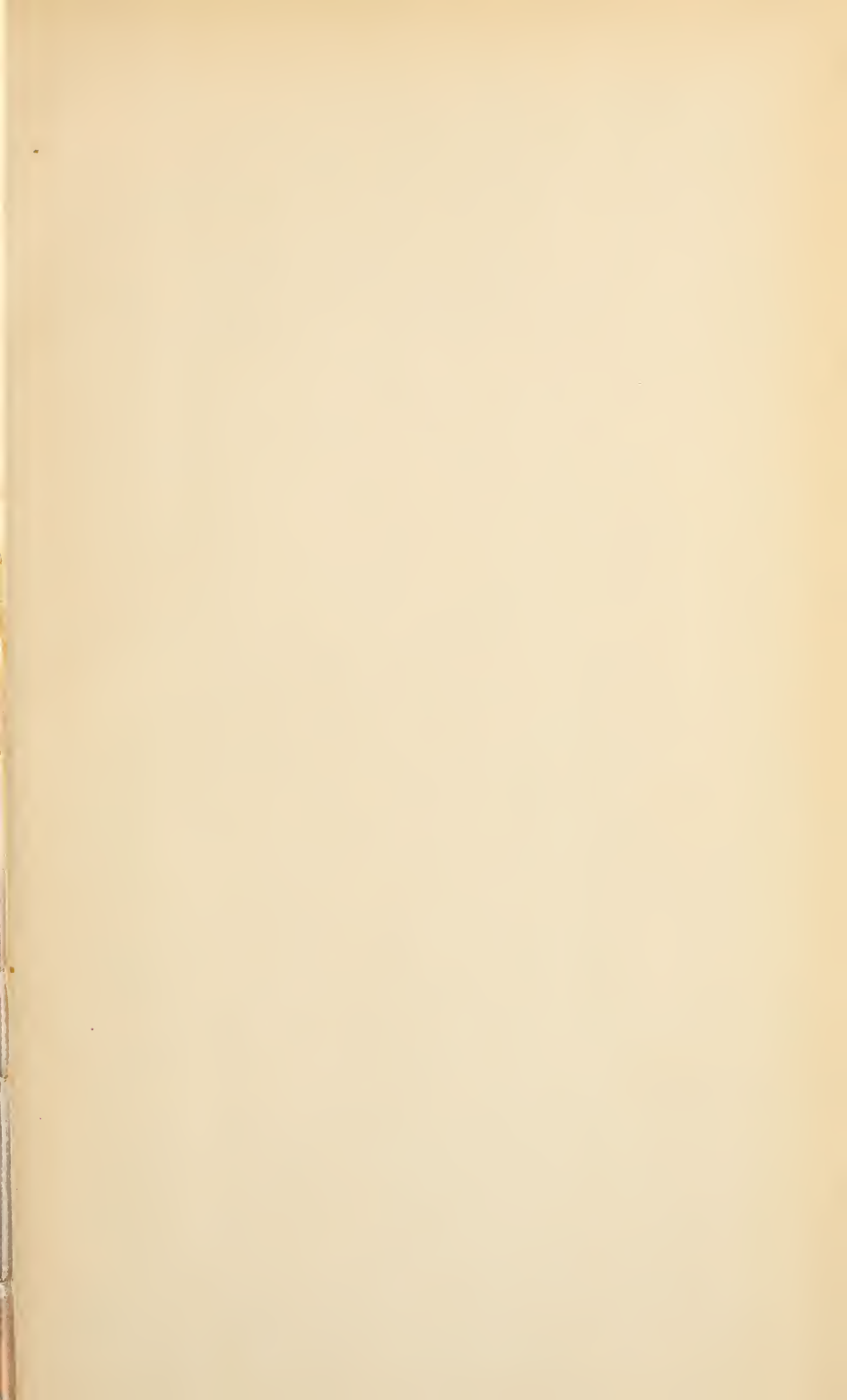
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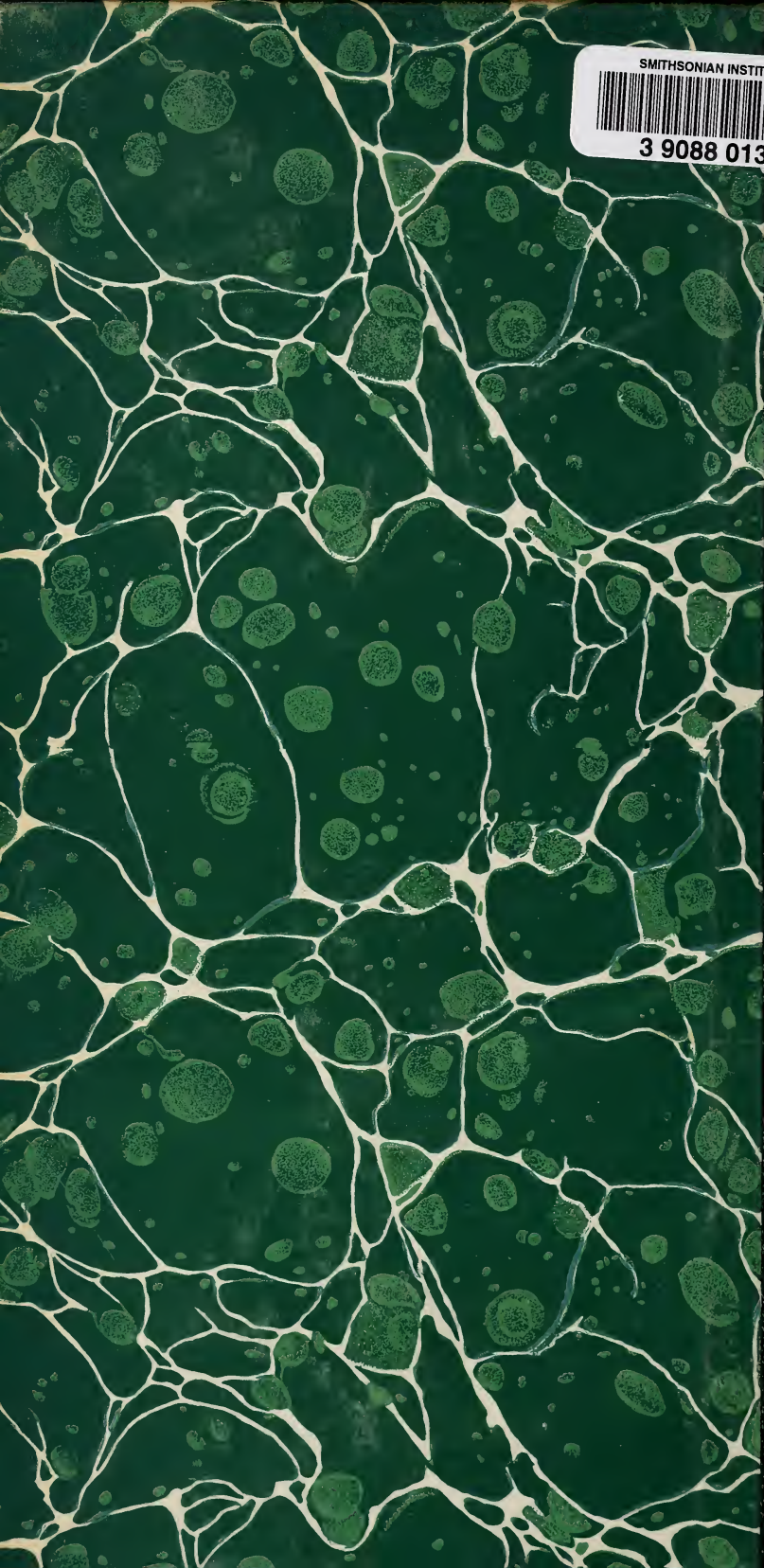
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