

To the first observation, a correction is applied, from observation at a station where the dip is accurately known, to obtain the true dip. The second being repeated at different places, the elements necessary to determine the relative intensities are known; and the approximate formula, connecting these observed elements with the relative intensities of the magnetism of the places where the change of intensity is not great, is very simple.

Prof. Bache showed an instrument, made by Robinson, of London, of the usual construction, for determining the magnetic dip, with needles for the employment of Professor Lloyd's method. He also referred to a method proposed by Professor Christie, of Woolwich, similar in principle, but differing in detail, and showed the needles for applying this method.

Prof. Bache further stated, that he had caused the method of heating these needles to the temperature of boiling water, to bring them to a permanent magnetic condition, as proposed by Prof. Christie, to be tried by Mr. Robinson. It had not proved successful.

Mr. S. C. Walker made a verbal communication on the parallax of the star, 61 Cygni, recently investigated by Mr. Bessel, and described the nature of the researches by which this important point had been established.

Stated Meeting, March 1.

Present, eighteen members.

Mr. DU PONCEAU, President, in the Chair.

The following donations were received:—

FOR THE LIBRARY.

The Life of George Washington. By Jared Sparks. Boston, 1839.—
From Mr. Sparks.

The Library of American Biography, conducted by Jared Sparks.
Vols. VIII, IX, & X. Boston, 1837 & 1838.—*From the same.*

The Transylvania Journal of Medicine. Vol. XI. No. 2. For
April, May, and June. Lexington, Kentucky, 1838.—*From the
Editors.*

- The American Medical Library and Intelligencer. Edited by Rob-
ley Dunglison, M. D. Vol. II. No. 22. Philadelphia, 1839.—
From the Editor.
- Annual Report of the Watering Committee, for the year 1836, to
the Select and Common Councils of the City of Philadelphia: to
which are prefixed the Report for the year 1822, and an extract
from the Report for 1823. Philadelphia, 1837.—*From Mr. Fre-
derick Graff.*
- Annual Reports of the Watering Committee, for the years 1837 &
1838, to the Select and Common Councils of the City of Phila-
delphia. Philadelphia, 1838 & 1839.—*From the same.*
- Proceedings of the Zoological Society of London. Part V. London,
1837.—*From the Society.*
- Transactions of the Zoological Society of London. Vol. II. Parts
2 & 3. London, 1838 & 1839.—*From the same.*
- Proceedings of the Conventions of the Province of Maryland, held
at the City of Annapolis in 1774, 1775 & 1776. Baltimore,
1836.—*From the State of Maryland.*
- The History of Maryland, from its first settlement in 1633, to the
restoration in 1660. By John Leeds Bozman. Vols. I. & II.
Baltimore, 1837.—*From the same.*
- Kongl. Vetenskaps-Academiens Handlingar. For 1835. Stock-
holm, 1836.—*From the Academy.*
- Aorsberättelser om Vetenskapernas Framsteg, afgifne af Kongl. Ve-
tenskaps-Academiens Embetsmän. Stockholm, 1835.—*From
the same.*
- Second Annual Report of the Board of Education, together with the
Second Annual Report of the Secretary of the Board. Boston,
1839.—*From Mr. I. P. Davis.*
- Second Annual Report of the Geology of the Public Lands belong-
ing to the States of Maine and Massachusetts. By C. T. Jack-
son. Boston, 1838.—*From the same.*
- Letters on the Internal Improvements and Commerce of the West.
By Hon. David Henshaw. Boston, 1839.—*From the same.*
- Sixth Annual Report of the Trustees of the State Lunatic Asylum,
at Worcester, Massachusetts. Boston, 1838.—*From the same.*
- Address of the Duke of Sussex, the President, read at the Anniver-
sary Meeting of the Royal Society, 1838. London.—*From Mr.
William Vaughan.*

The Light-Houses of the British Islands. Corrected to July 1836. Hydrographic Office, Admiralty. London, 1836.—*From the same.*

French Light-Houses: translated from the "Description Sommaire des Phares et Fanaux, &c." Corrected to 1836.—*From the same.*

Letters to denote the State of the Weather, and Figures to denote the Force of the Wind. Proposed as a convenient mode of registry in the Log-book of a ship. By F. B. London.—*From the same.*

Draft of a Revised Common School Law, and of a Law relative to the preparation of Common School Teachers; with explanatory remarks, and a set of District Regulations. Prepared by Thomas H. Burrowes, Superintendent. Harrisburgh, 1839.—*From Mr. Frederick Fraley.*

A deposite for the Library was made by Mr. B. F. Mendenhall, being an illuminated manuscript in the Pali language.

Professor H. D. Rogers read a paper entitled "Contributions to the Geology of the Tertiary formation of Virginia. Second Series. By William B. Rogers, Professor of Natural Philosophy in the University of Virginia, and H. D. Rogers, Professor of Geology and Mineralogy in the University of Pennsylvania." Referred to a Committee consisting of Mr. Lea, Dr. Hays, and Dr. Patterson.

On motion of Dr. Patterson, the President of the Society was directed to unite with the Presidents of the City Councils, and with the President of the Board of Controllers of the Public Schools, in an application to the State Legislature to authorize the appointment by the Controllers, in conjunction with the American Philosophical Society, of a Director of the Philadelphia Observatory, at the Central High School.

The purchase of the bust of Doctor Nathaniel Bowditch, executed by Mr. Ball Hughes, was ordered for the Society.