

south-western part of the continent in the neighbourhood of Cape Town; it amounts to an increase of southerly dip of 8' a year. The line of no change passes through Madagascar; east of that there is a decrease of southerly dip. The annual change in the horizontal intensity shows a decrease in absolute magnitude towards the north; over the greater part of the Union it has a value of from 80 γ to 100 γ yearly, and is a decrease.

BOOKS RECEIVED.

Historical Sketches of Old Charing. By Dr. J. Galloway. Pp. 82. (London: John Bale, Ltd.) 10s. 6d. net.

Le Musée d'Histoire Naturelle Moderne. Sa Mission, son Organisation, ses Droits. By G. Gilson. Pp. xii+256. (Bruxelles: Académie Royale.)

A First Course in Plant and Animal Biology. By W. S. Furneaux. Pp. viii+232. (London: University Tutorial Press, Ltd.) 2s.

Die Europäischen Schlangen. By Dr. F. Steinheil. Sechstes Heft. Tafel 26-30. (Jena: G. Fischer.) 3 marks.

Handbuch der Pharmakognosie. By A. Tschirch. Lief. 35, 36, 37. (Leipzig: C. H. Tauchnitz.) 2 marks each Lief.

Berliner Botaniker in der Geschichte der Pflanzenphysiologie. By G. Haberlandt. Pp. 29. (Berlin: Gebrüder Borntraeger.) 1 mark.

Grundzüge der Weltpolitik in der Gegenwart. By J. J. Ruedorffer. Pp. xiii+252. (Stuttgart and Berlin: Deutsche Verlags-Anstalt.)

Principles of Metallurgy. By A. H. Hiorns. Second edition. Pp. xiv+389. (London: Macmillan and Co., Ltd.) 6s.

The Continents and their People. Africa. By J. F. and A. H. Chamberlain. Pp. vii+210. (London: Macmillan and Co., Ltd.) 3s.

Every Child's Series. How Man Conquered Nature. By M. J. Reynolds. Pp. v+249. (London: Macmillan and Co., Ltd.) 1s. 8d. net.

The Happy Golfer. By H. Leach. Pp. vii+414. (London: Macmillan and Co., Ltd.) 6s. net.

The School Algebra. By A. G. Cracknell. Pp. viii+568+lxxvii. (London: University Tutorial Press, Ltd.) 5s.

Pond Problems. By E. E. Unwin. Pp. xvi+119. (Cambridge University Press.) 2s. net.

Handbuch der Morphologie. Edited by A. Lang. Vierter Band. Arthropoda. Vierte Lief. Pp. 421-640. (Jena: G. Fischer.) 5 marks.

Roberts-Austen: a Record of his Work. Compiled and edited by S. W. Smith. Pp. x+382+xxiii plates. (London: C. Griffin and Co., Ltd.) 21s. net.

Historical Account of Charing Cross Hospital and Medical School. By Dr. W. Hunter. Pp. xxi+309+xl plates. (London: J. Murray.) 21s.

County Borough of Halifax. Bankfield Museum Notes. Second series. No. 4. Coptic Cloths. By L. E. Start. Pp. 37. (Halifax: King and Sons.) 2s. 6d.

Memoirs of the Geological Survey. England and Wales. The Water Supply of Nottinghamshire from Underground Sources. By G. W. Lamplugh and B.

Smith. Pp. iv+174. (London: H. M. Stationery Office.) 5s.

Memoirs of the Geological Survey. Summary of Progress of the Geological Survey of Great Britain and the Museum of Practical Geology for 1913. Pp. iv+107. (London: H.M. Stationery Office.) 1s.

CONTENTS.

	PAGE
History and Philosophy of Mathematics	475
Precursors of Christianity. By A. E. Crawley	476
Haberlandt's Plant Anatomy. By J. B. F.	477
Electrotechnics	477
Our Bookshelf	478
Letters to the Editor:—	
Active Nitrogen.—Prof. H. B. Baker, F.R.S., Dr. Erich Tiede, Hon. R. J. Strutt, F.R.S., Emil Domcke	478
The Horns of the Okapi.—R. Lydekker, F.R.S.	478
Thorium Lead—An Unstable Product.—Robert W. Lawson	479
Radio-activity and Atomic Numbers.—Dr. A. van den Broek	480
Seeing and Photographing Very Faintly Illuminated Objects.—Prof. P. G. Nutting	480
June Meteors.—W. F. Denning	480
Inorganic "Feeding." (<i>Illustrated.</i>)—Chas. R. Darling	481
Experimental Demonstration of an Ampere Mole- cular Current in a Nearly Perfect Conductor	481
Memorial Statue of Capt. Cook. (<i>Illustrated.</i>)	481
The Wilds of New Zealand. (<i>Illustrated.</i>)	482
Recent Progress of the Metric System	483
Notes	484
Our Astronomical Column:—	
A Faint New Comet (1914c)	488
Opposition of Eros (433) this Year	488
Recent Publications of the Allegheny Observatory	488
The Variable Satellites of Jupiter and Saturn	489
Third International Congress of Tropical Agri- culture	489
International Commission for Scientific Radio- telegraphic Researches	490
The Research Defence Society	491
The Synthetic Power of Protoplasm. By E. F. A.	491
Transpiration in Plants	492
The American Philosophical Society	492
X-Rays and Crystalline Structure. By Prof. W. H. Bragg, F.R.S.	494
University and Educational Intelligence	498
Societies and Academies	498
Books Received	500

Editorial and Publishing Offices:

MACMILLAN & CO., LTD.,
ST. MARTIN'S STREET, LONDON, W.C.

Advertisements and business letters to be addressed to the
Publishers.

Editorial Communications to the Editor.

Telegraphic Address: PHUSIS, LONDON.

Telephone Number: GERRARD 8830.