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GEOLOGICAL AND NATURAL HISTORY SURVEY OF MINNESOTA.

N. H. WINCHELL, STATE GEOLOGIST.

THE BIBLIOGRAPHY
OF THE
FORAMINIFERA

RECENT AND FOSSIL,

INCLUDING EOZOON AND RECEPTACULITES.

1865 - JAN. 1 1886.

By ANTHONY WOODWARD.

*Part VI of the annual report of progress for the year
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NOTE.—This paper is introductory to a contemplated work on the foraminifera and other microscopic organisms of the Cretaceous of Minnesota. According to present plans this work will be done by Messrs. Woodward and Thomas, jointly, and it will be published in one of the volumes of the final report of the survey.

N. H. W.

PREFACE.

This bibliography, which is the result of five years of research, is based largely on facilities afforded by the libraries of the American Museum of Natural History and of the New York Academy of Sciences,—facilities which are not enjoyed by many scientific students. At the beginning I had no idea of presenting this work to the scientific world. When I began the study of the foraminifera I had no knowledge whatever of that which had been done in this branch of science. After I commenced looking up the subject the references accumulated so rapidly that I thought it might be well to collect and put them in shape so that they might be useful to others as well as to myself.

After three years' labor I applied to Mr. H. B. Brady, F. R. S., for information pertaining to the subject. He at once informed me that he had in press a bibliography of the same character, and kindly offered to give me any assistance he could.

When the British Association for the Advancement of Science met at Montreal, in 1884, I met in New York Mr. James Thomson, F. G. S., a member from Scotland, to whom I spoke of my work, asking his advice about proceeding with it. He urged me to continue, and to finish it, as it would become accessible to a great number of workers who could not possess the valuable monograph of Mr. H. B. Brady.

I do not presume that this list is complete; since titles are liable to be found in obscure publications that have not fallen

under my notice. Some of those that are here listed may at first appear not to pertain to the subject, but many of the discussions, criticisms, notes, etc., to which reference has been made, although some of them are in general works on microscopy, are of much interest and value to the student, and will be found useful to those who have not access to large libraries.

The list is divided under the following heads:

(1)—Eozoon. (2)—North and South America, Bermuda, Leeward and Windward Islands. (3)—England, Ireland, Scotland and Wales. (4)—France and Italy. (5)—Austro-Hungary, Belgium, Denmark, Finland, Germany, Holland, Netherlands, Norway, Sweden, Switzerland. (6)—Russia and Turkey. (7)—Africa and Asia. The authors' names are then arranged alphabetically and their works according to the date of publication.

I must ask those who may notice omissions or detect errors, to kindly inform me of the same so that I may be able to make corrections in a completed supplement.

I am under great obligations, and return my sincere thanks to the following gentlemen who have rendered me invaluable assistance in sending manuscript lists of their papers.

Rev. P. B. Brodie, M. A., F. G. S., R. V., Warwick, England; Dr. R. Haensler, Sussex, England; Prof. W. C. Williamson, Manchester, England; H. J. Carter, F. R. S., Budleigh, Salterton Devon, England; Joseph Wright, F. G. S., Belfast, Ireland; Sir J. W. Dawson, Montreal, Canada; R. J. Lachmere Guppy, F. L. S., F. G. S., Trinidad; M. O. Terquem, Paris, France; Dr. A. Schneider, Breslau; Prof. Dr. H. B. Geinitz, Dresden, Germany; Prof. Dr. Leopold Auerbach, Breslau, Germany; Prof. Hertwig, Bonn, Germany; Prof. Dr. Carl W. Gumbel, Munich, Germany; Prof. Dr. Haeckel, Jena, Germany; Prof. Dr. Valerian Moeller, St. Petersburg, Russia.

It is hoped that this bibliography will be of some service to the student. The writer will then feel that his years of tedious and constant labor have been well repaid.

ANTHONY WOODWARD.

New York, March 1, 1886.

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- VI. Russia and Turkey.
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PART I.

EOZON.



EOZOON.

- ANON. Anorganischer Ursprung des Eozoon. <*Verhandl. d. geol. k. k. Reichsanst.*, p. 58. 1872.
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- BURBANK, L. S. On Eozoon canadense in the crystalline Limestones of Massachusetts. <*Amer. Nat.*, vol. v, pp. 535-539. 1871.
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CARPENTER, W. B. Further Observations on the Structure and Affinities of *Eozoon canadense*. In a letter to the president. <*Proc. Roy. Soc. Lond.*, vol. xxv, pp. 503-508. 1867.

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The author treats more especially of the nummuline layer and the canal-system of the "intermediate skeleton," and concludes by summarizing the general evidence in favor of the organic origin of *Eozoon*. (Nicholson in White and Nicholson's Bib. p. 87.)

CARPENTER, W. B. Final Note on *Eozoon canadense*. <*Ann., and Mag. Nat. Hist.*, ser. 4, vol. xiv, pp. 371-372. 1874.

CARPENTER, W. B. Remarks on Mr. H. J. Carter's Letter to Prof. King on the Structure of the so-called *Eozoon canadense*. <*Ann., and Mag. Nat. Hist.*, ser. 4, vol. xiii, pp. 277-284 with 2 engravings. 1874.

A recapitulation of the principal facts in support of the belief that *Eozoon canadense* is a *Foraminifer*. (White's Bib. p. 87.)

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CARPENTER, W. B. The *Eozoon canadense*. <*Nature*, vol. xx, pp. 328-330. 1879.

CARPENTER, W. B. *Eozoon canadense*. <*The Microscope and its Revelations*, Sixth Edition, pp. 587-592. 1881.

CARPENTER, W. B., and J. W. Dawson. The *Eozoon canadense*. <*Nature*, vol. xx, p. 328. 1879.

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Gives reasons for believing that *Eozoon* is not of organic origin. (Nicholson in White and Nicholson's Bib. p. 88.)

CARTER, H. J. On the structure called *Eozoon canadense* in the Laurentian Limestones of Canada. < *Ann., and Mag. Nat. Hist.*, ser. 4, vol. xiii, pp. 376-378, with 1 engraving. 1874.

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Discusses the minute structure of the test of recent *Foraminifera*, as bearing on the nature of *Eozoon canadense*. (Nicholson in White and Nicholson's Bib. p. 88.)

CARTER, H. J. *Eozoon canadense* not a Foraminifer or calcareous Rhizopod secretion. < *Amer. Journ. Sci.*, vol. vii, 3d ser., pp. 437, 438. 1874.

CREDNER, H. Die Gliederung der eozoischen (vorsilurischen) Formationsgruppe Nord-Amerikas. < *Zeit. Gesam. Naturwissenschaften*, 32, pp. 352-405. 1868.

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This article appears in the Journal without a name; *i. e.* editorially. This history embraces a full discussion of the subject, and includes a complete description and illustration of the structure of the fossil, and the chemical composition of specimens. (White in White and Nicholson's Bib. p. 22.)

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D'ARCHIAC. Note sur l'existence des restes organiques dans les Roches Laurentiennes du Canada. < *Comptes Rendus*, vol. liii, pp. 192-194. 1865.

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The author gives a detailed description of the structure of the bodies described by Sir. William Logan as being organic and as occurring in the Lower Laurentian Limestones. (*Quart. Journ. Geol. Soc.*, vol. xxi, p. 45.) The generic name of *Eozoon* is proposed for these, and the single form described is discussed under the name of *Eozoon canadense*. The author further concludes that *Eozoon* is probably to be regarded as an ancient type of the *Foraminifera*. (Nicholson in White and Nicholson's Bib. p. 93.)

DAWSON, J. W., and W. B. CARPENTER. Notes on Fossils recently obtained from the Laurentian Rocks of Canada, and on objections to the Organic nature of *Eozoon*. < *Quart. Journ. Geol. Soc. Lond.*, vol. xxiii, pp. 257-265, 2 plates. 1865.

DAWSON, J. W. Notes on fossils recently obtained from the Laurentian Rocks of Canada, and objections to the Organic nature of *Eozoon*. < *Amer. Journ. Sci.*, vol. xlv, 2d ser., pp. 367-376. 1867.

The article also contains notes by W. B. Carpenter; and "Summary" and "conclusion" of King and Rowney, on the same subject; the latter gentlemen opposing, and the former advocating, the organic origin of *Eozoon*. (White in White and Nicholson's Bib. p. 22.)

DAWSON, J. W. On certain Organic remains in the Laurentian Limestone of Canada. <*Canad. Nat.*, new ser., vol. 11, pp. 99-111, 127, 128. 3 wood cuts. 1865.

A reprint from the *Quart. Journ. Geol. Soc. Lond.*, 1865, with some additional notes. A short appendix to the paper follows at pp. 127, 128. (Nicholson in White and Nicholson's Bib. p. 93.)

DAWSON, J. W. Notes on fossils recently obtained from the Laurentian Rocks of Canada, and on objections to the Organic nature of Eozoon, with notes by W. B. Carpenter, M. D., F. R. S. <*Quart. Journ. Geol. Soc. Lond.*, vol. xxiii, pp. 257-265, pls. xi, xii. 1867.

In the first part of this memoir, Dr. Dawson gives an account of the general appearance and microscopic structure of a specimen of *Eozoon canadense*, found in the Laurentian rocks at Tndor, in which the chambers of the skeleton are filled with a dark colored coarse limestone. The author next deals with certain specimens from Long Lake and Wentworth, and also from Madoc, and concludes by reviewing the objections brought forward by Professors King and Rowney to the organic nature of Eozoon. Dr. W. B. Carpenter adds a note on the appearances presented by thin slices of specimens of Eozoon in which the canal-system has been infiltrated with transparent carbonate of lime. (Nicholson in White and Nicholson's Bib. p. 93.)

DAWSON, S. W., and W. B. CARPENTER. Notes on Fossils recently obtained from the Laurentian Rocks of Canada, and objections to the organic nature of Eozoon. <*Amer. Journ. Sci.*, vol. xlv, 2d ser., pp. 367-376. 1867.

DAWSON, J. W., and W. B. CARPENTER. On new specimens of Eozoon canadense, with a reply to the objections of Professors King and Rowney. <*Amer. Journ. Sci.*, vol. xlvi, 2d ser., pp. 245-255, 2 plates. 1868.

DAWSON, J. W. On new specimens of Eozoon canadense, with a reply to Professors King and Rowney; with notes by W. B. Carpenter. <*Amer. Journ. Sci.*, vol. xlvi, 2d ser., pp. 245-257, 2 plates. 1868.

The authors advocate the organic origin of Eozoon. (Nicholson in White and Nicholson's Bib. p. 22.)

DAWSON, J. W. Remarks on Eozoon canadense. <*Nature*, vol. x, p. 103. 1 wood cut. 1874.

DAWSON, J. W. Notes on the occurrence of Eozoon canadense, at Cote St. Pierre. <*Nature*, vol. xii, p. 79. 1875. (Abstract.)

DAWSON, J. W. On the Eozoon canadense. <*Nature*, vol. iii, p. 287. 1871.

DAWSON, J. W. The Story of the Earth and Man.

(Remarks on Eozoon chapter ii, iii, pp. 17-38.) pp. 403, 800. London, 1873.

DAWSON, J. W. The Dawn of Life: being the history of the oldest known fossil remains, and their relations to geological time and to the development of the animal kingdom, pp. 239, with 8 plates and 49 wood cuts. London, 1875.

This work deals principally with the history of the discovery of *Eozoon canadense*, and with all the known facts bearing on its structure and nature. The author first gives a descriptive sketch of the Laurentian formation, accompanied by sections, and a colored map showing the distribution of the Laurentian Limestones in the counties of Ottawa and Argenteuil. Next, a history is given of the various steps which led to the discovery of Eozoon, and a record of its interpretation by Carpenter and the author

Thirdly, a chapter is devoted to a consideration of the minute structure exhibited by *Eozoon*; and this is compared with the structure of recent *Foraminifera*. The fifth chapter is concerned with the manner in which *Eozoon* has been preserved, and with a consideration of the processes of fossilization by infiltration in general. In the sixth chapter, the author deals with the successors and contemporaries of *Eozoon*, with special reference to *Archæosphærina*, *Stromatopora*, *Cæunopora*, and *Receptaculites*. Another chapter is devoted to a consideration of the various objections which have been urged against the organic nature of *Eozoon*; and a final chapter treats of certain speculative considerations which may be drawn from the study of this fossil. (Nicholson in White and Nicholson's Bib. p. 95.)

DAWSON, J. W. On Mr. Carter's objections to *Eozoon*. <Ann., and Mag. Nat. Hist., ser. 4, vol. xvii, pp. 118, 119. 1876.

DAWSON, J. W. Notes on the Phosphates of the Laurentian and Cambrian Rocks of Canada. <Quart. Journ. Geol. Soc. Lond., vol. xxxii, pp. 285-291. 1876.

Concludes that the phosphatic material found in these rocks in Canada is of organic origin, and has been produced by the agency of marine invertebrates. (Nicholson in White and Nicholson's Bib. p. 95.)

DAWSON, J. W. Notes on the Occurrence of *Eozoon canadense* at Cote St. Pierre. <Quart. Journ. Geol. Soc. Lond., vol. xxxii, pp. 66-74, plate x, with 4 wood cuts. 1876.

The author gives an account of the nature and arrangement of the strata at Cote St. Pierre, with special reference to the appearance presented by *Eozoon* as occurring *in situ*. Numerous chrysotile veins pass through the limestone, but the author concludes that they are altogether subsequent to the fossil in origin. The close resemblance of weathered specimens to *Stromatopora* is insisted upon; and two new forms of *Eozoon canadense* are described as var. *minor* and var. *acervulina*. The limestone sometimes contains numerous little globose casts of chamberlets, single or attached in groups, each of which possesses the structure of the "proper wall" of *Eozoon*. For these the author proposes the name of *Archæosphærina*. (Nicholson in White and Nicholson's Bib. pp. 95, 96.)

DAWSON, J. W. On some new specimens of Fossil Protozoa from Canada. <Proc. Am. Assoc. Adv. Sci., vol. xxiv, pp. 100-106, wood cuts. 1876.

The author gives general description and illustration of *Eozoon canadense*, and also *Foraminifera*, from Cretaceous rocks. He advocates the organic origin of *Eozoon*. (White in White and Nicholson's Bib. p. 22.)

DAWSON, J. W. New Facts relating to *Eozoon canadense*. <Proc. Am. Assoc. Adv. Sci., vol. xxv, pp. 231-234. 1876.

The fossil nature of *Eozoon canadense* is advocated. (White in White and Nicholson's Bib. p. 22.)

DAWSON, J. W. *Eozoon canadense* according to Hahn. <Ann. Mag. Nat. Hist., ser. 4, vol. xviii, pp. 29-38. 1877.

A critical notice of a memoir by Hahn (see post.) in which the latter endeavors to show that *Eozoon* is a purely mineral structure. (Nicholson in White and Nicholson's Bib. p. 96.)

DAWSON, J. W. New Facts relating to *Eozoon canadense*. *Canad. Nat. new ser.*, vol. viii, pp. 282-285. 1878.

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 [*Supposed to be *Eozoon*.]
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 A review by H. M. J.
- GUMBEL, C. W. On the Laurentian Rocks of Bavaria. *<Cand. Nat.* new series, vol. iii, pp. 81-101, 1 plate. 1868 Translated from the proceedings of the Royal Bavarian Academy for 1866, by Prof. Markgraf.
 [*EDITOR'S NOTE.—In revising and preparing this for the press, the original paper has been considerably abridged by the omission of portions, whose place is indicated in the text. Some explanatory notes have also been added.—T. S. H.]
- GUMBEL, C. W. *Eozoon* im Kornigen Kalke Schwedens. *<Leonhard und Geinitz neues Jahrbuch.* 1869. pp. 551-559. 1869.
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Plate xxx., fig. 5, *Eozoon canadense*, reputed canal system of *Eozoon*; fig. 6 the same. Both stones from which the slides were taken were collected by me in Little Nation. Let one compare the canal system of the nummulite fig. 3 with this reputed canal system! Figs. 3 and 5 should be the same thing.

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HOCHSTETTER, (Prof. V.) DR. W. B. CARPENTER IN LONDON. *Neuer Fund von Eozoon canadense*. < *K. K. geol. Reich. Ver.* 1868, pp. 69, 70. 1868.

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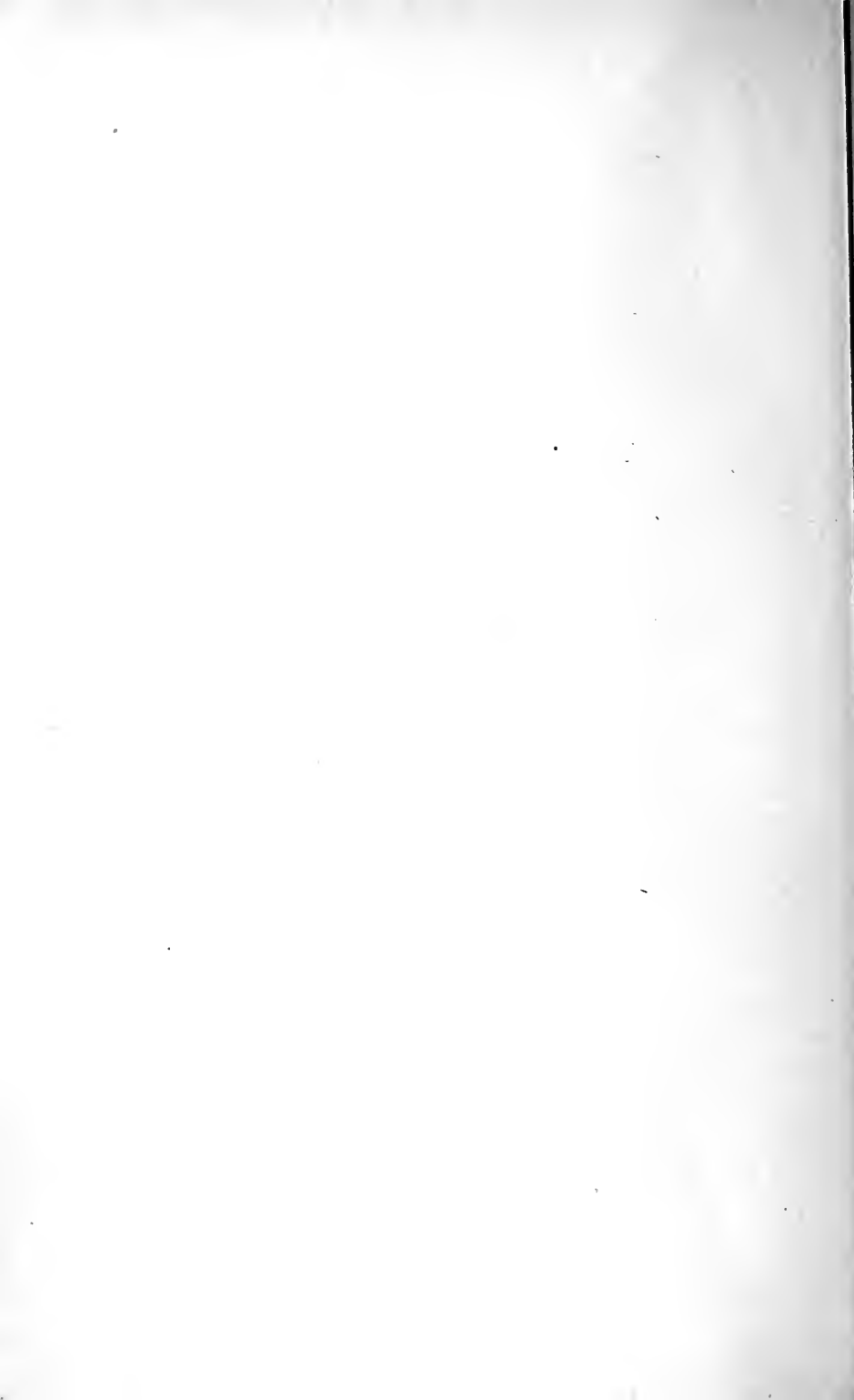
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PART II.

NORTH AND SOUTH AMERICA, INCLUDING BERMUDA,
LEEWARD AND WINDWARD ISLANDS.

NORTH AND SOUTH AMERICA.

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PART III.



ENGLAND, IRELAND, SCOTLAND
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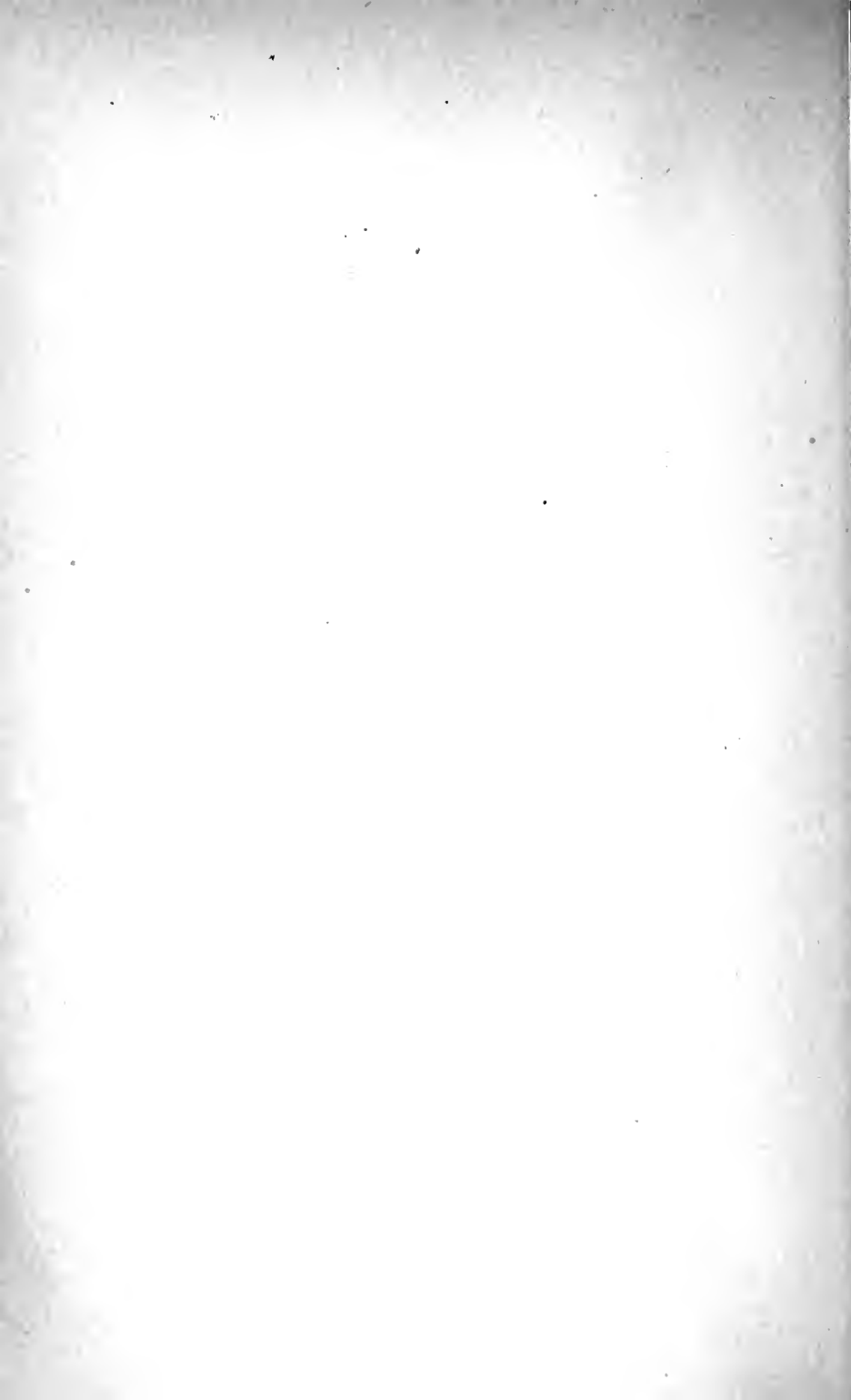
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PART IV.



FRANCE AND ITALY.

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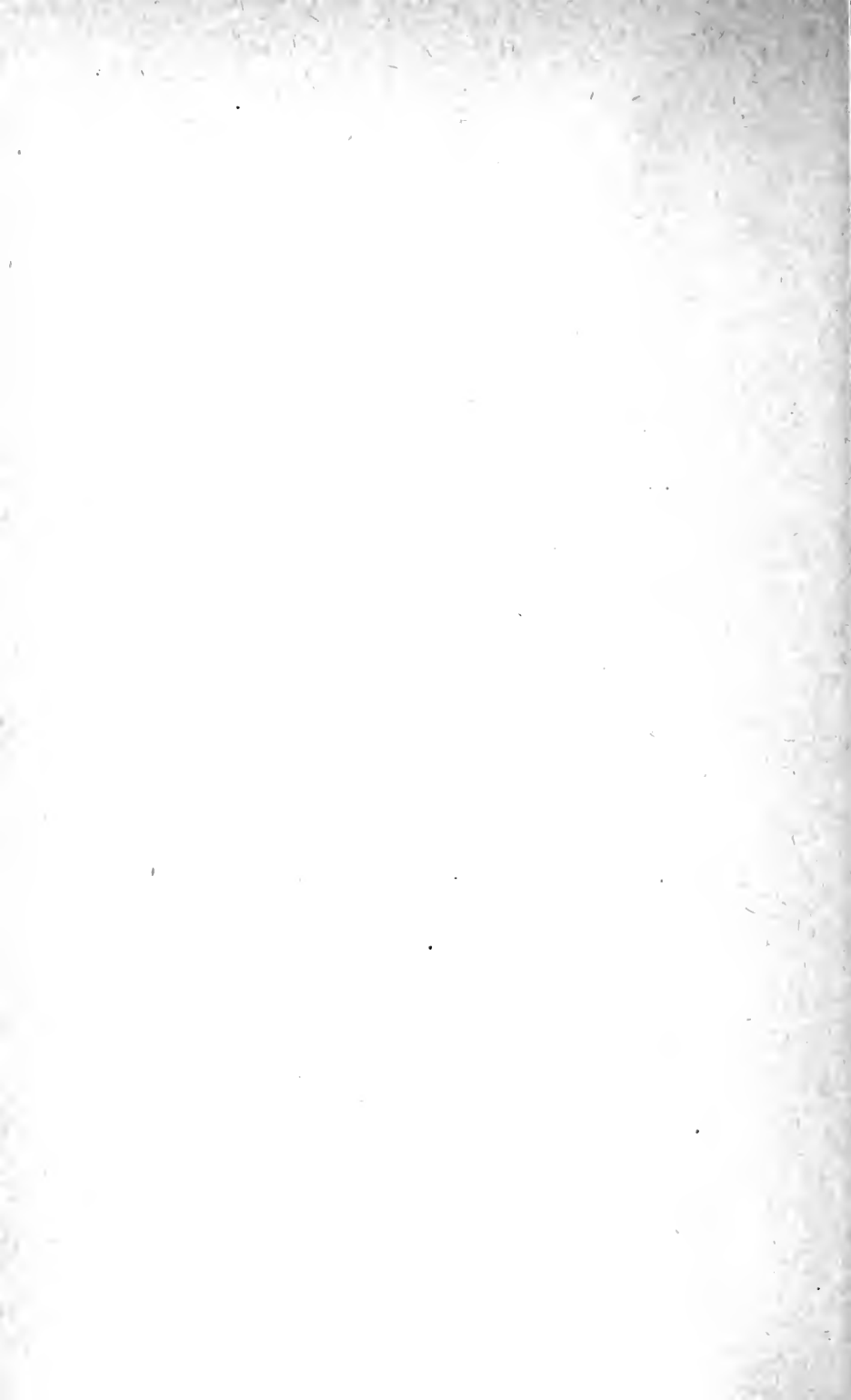
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PART V.

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GERMANY, HOLLAND, NETHERLANDS, NOR-
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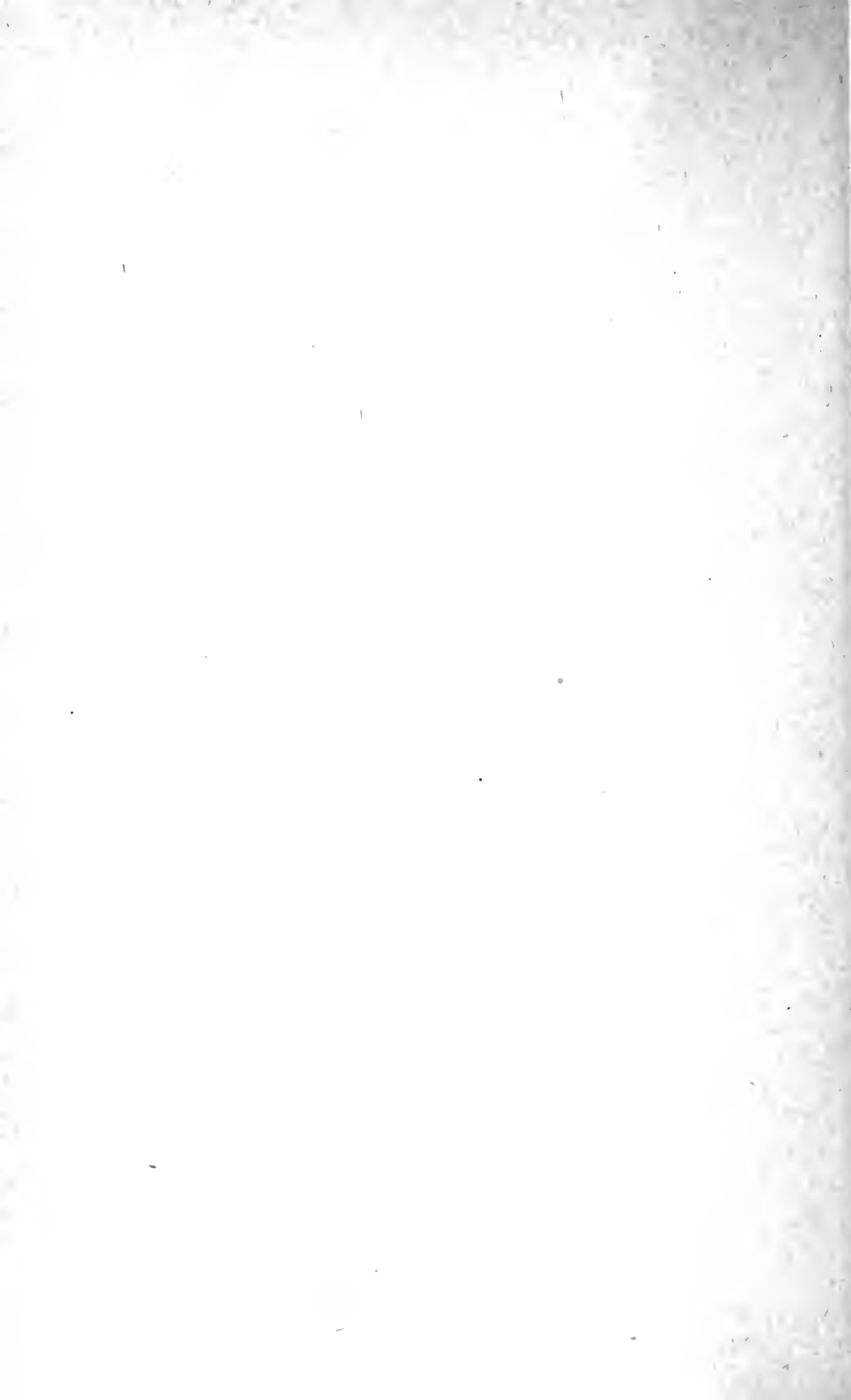
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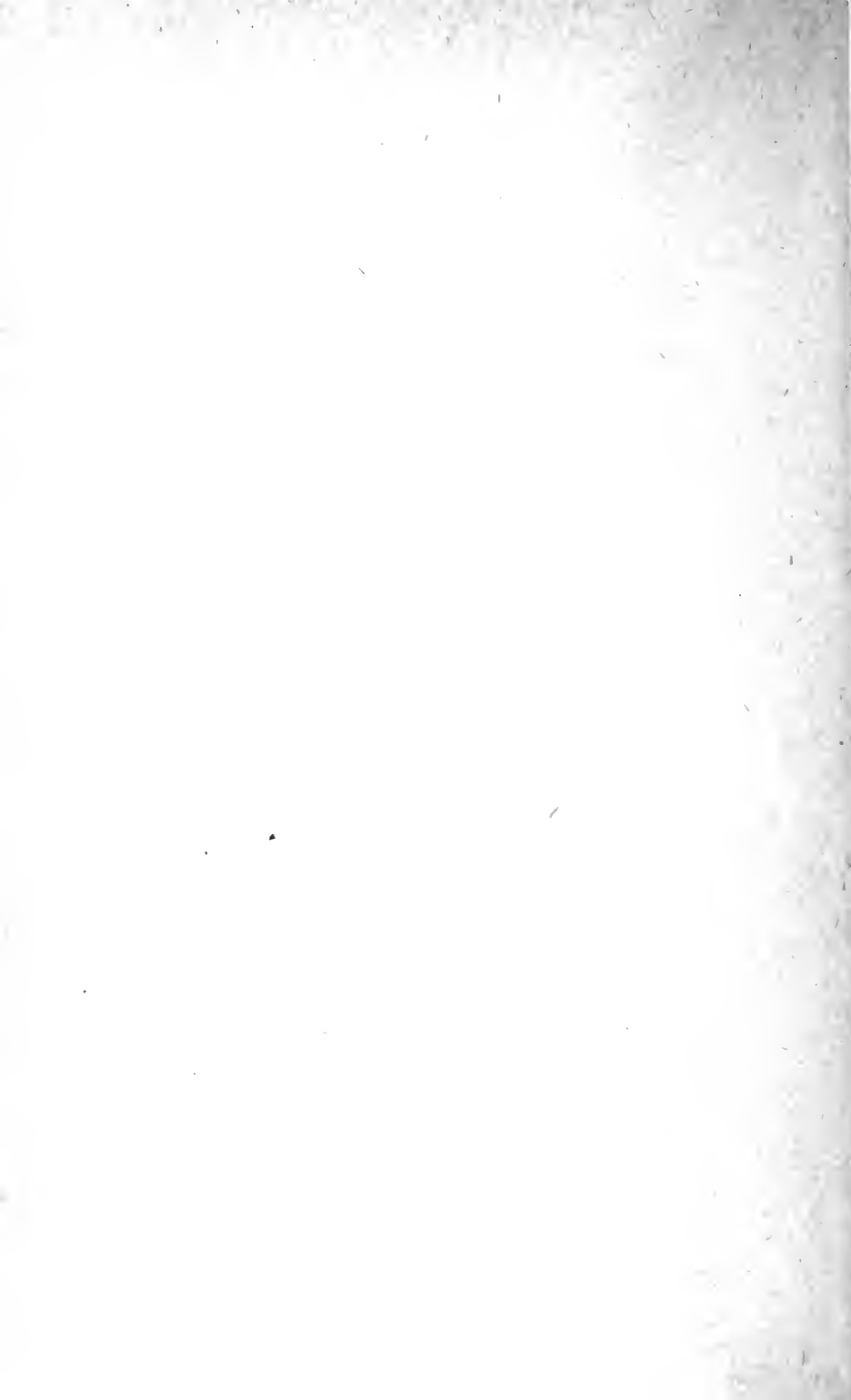


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ERRATA.

- Page 177, line 10 from top—before word proper insert the.
 Page 178, line 3 from top—for xxv read xv.
 Page 178, line 4 from bottom—for Rocks read Limestones.
 Page 179, line 15 from top—for xl read xl.
 Page 179, line 16 from top—for This read The.
 Page 180, line 20 from top—for S. W. read J. W.
 Page 181, line 23 from top—for appearance read appearances.
 Page 181, line 1 from bottom—for 66 read 68.
 Page 182, line 8 from bottom—for 1886 read 1868.
 Page 183, line 8 from bottom—for organic read inorganic.
 Page 185, line 22 from top—for Notizer read Notizen.
 Page 190, line 5 from bottom—for J. E. read J. W.
 Page 191, line 4 from top—for 1871 read 1875.
 Page 191, line 5 from top—for 1872 read 1876.
 Page 191, line 6 from top—for Englypha read Euglypha.
 Page 191, line 10 from top—for *Pascellas* read *Pascolus*.
 Page 191, line 16 from top—for viii read vii.
 Page 191, line 26 from top—for *Valulina* read *Valulina*.
 Page 191, line 27 from top—for *deccurrens* read *deccurrens*.
 Page 191, line 28 from top—for *plicata* read *plicata*.
 Page 191, line 30 from top—for *Rotelia* read *Rotalia*.
 Page 192, line 9 from top—for *Mantellii* read *Mantelli*.
 Page 192, line 28 from top—after Pembina insert Mountain.
 Page 193, line 18 from top—for Tadalsac read Tadoussac.
 Page 193, line 12 from bottom—for Meridinale read Meridionale.
 Page 194, line 10 from bottom—for Krede read Kreide.
 Page 194, lines 12, 13 from top—for *polythamia* read *polythalamia*.
 Page 196, line 1 from top—for 2881 read 1881.
 Page 196, line 14 from top—for *Lepidoites* read *Lepidolites*.
 Page 197, line 6 from top—for Om read On.
 Page 197, line 1 from bottom—for Carribean read Caribbean.
 Page 198, line 10 from top—for South read Southern.
 Page 198, line 8 from bottom—for Foraminifera read Foraminiferen.
 Page 200, line 2 from top—for Murry read Murray.
 Page 201, line 11 from top—for Palaontologie read Palaontologie. Analysisster read Analysisster.
 Page 204, line 17 from top—for tublos read tubulosa.
 Page 206, line 3 from bottom—for vii read iv.
 Page 208, line 23 from top—for vii read viii.
 Page 210, line 19 from top—for Polders read Polytreмата.
 Page 211, line 2 from top—for Roy read Ray.
 Page 212, line 24 from top—for Polythemata read Polytreмата.
 Page 212, line 1 from bottom—for v read iii.
 Page 213, line 13 from bottom—for 1882 read 1883.
 Page 214, line 4 from bottom—for House read Howse. Kirkly read Kirkby.
 Page 216, line 1 from top—for Prestwick's read Prestwich's.
 Page 217, line 10 from top—for Mendon read Mendon.
 Page 217, line 8 from bottom—for Tumanowlezie read Tumanowlezh.

- Page 218, line 10 from top—for Kirkly read Kirkby.
Page 218, line 2 from bottom—insert pp 264-266, 1 plate. For xxi read xx.
Page 219, line 11 from bottom—for Southerndoun read Southerndown.
Page 219, line 15 from bottom—for S R read St.
Page 219, line 1 from bottom—for xvi read xxvi.
Page 220, line 3 from top—for Britanica read Britannica.
Page 220, line 9 from top—for xl read xi.
Page 221, line 6 from top—for Protozon read Protozoa.
Page 222, line 5 from top—for xl read xi.
Page 222, line 6 from bottom—insert xlv.
Page 224, line 6 from top—for Snyopsis read Synopsis.
Page 224, line 19 from bottom—for 297 read 292.
Page 224, line 13 from bottom—insert Park.
Page 224, line 11 from bottom—for D read Dr.

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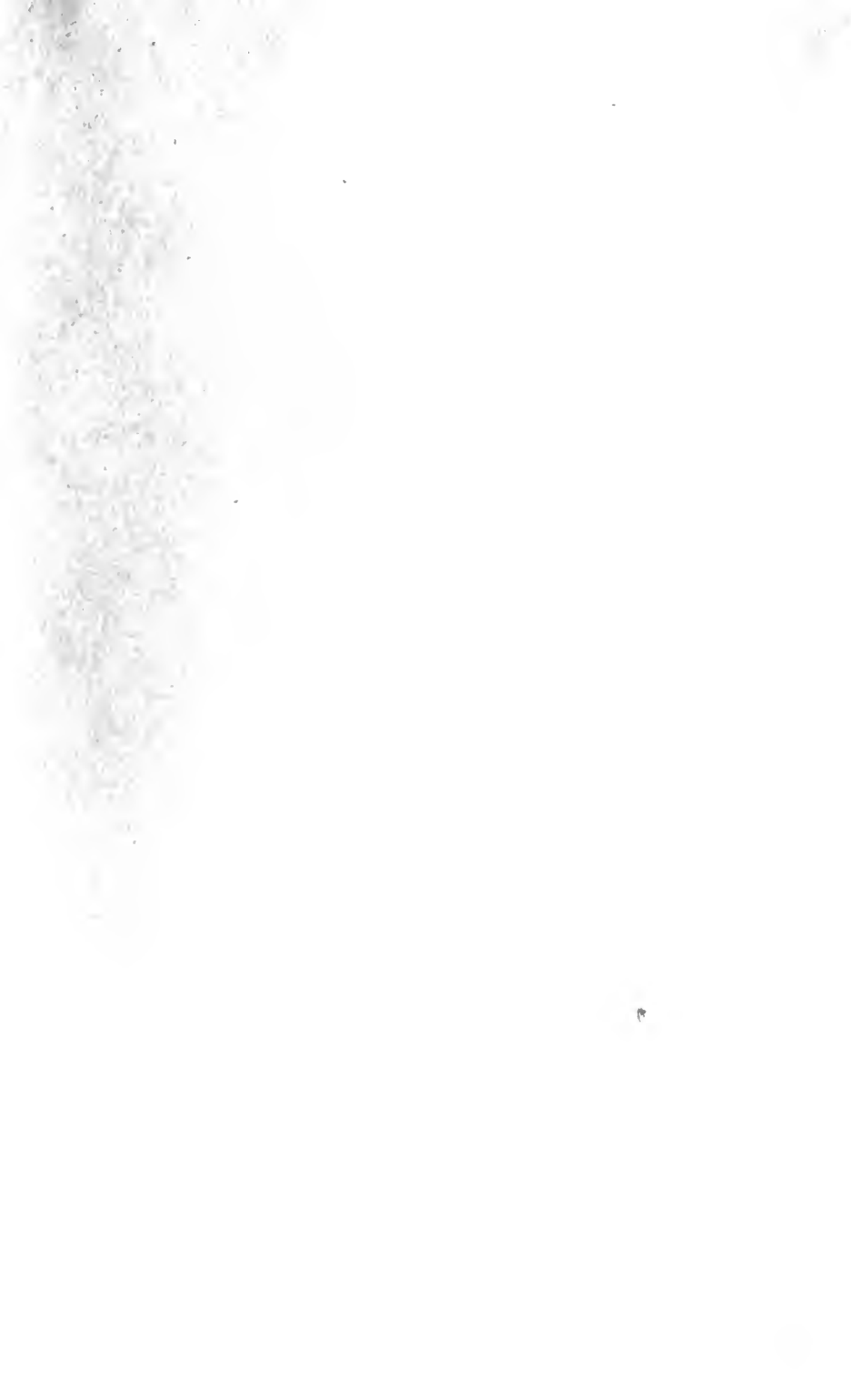
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