

**TRANSACTIONS AND
PROCEEDINGS OF THE
NEW ZEALAND INSTITUTE,
INDEX. VOLS. I. TO XVII.**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649430666

Transactions and Proceedings of the New Zealand Institute, Index. Vols. I. to XVII. by James Hector

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

JAMES HECTOR

**TRANSACTIONS AND
PROCEEDINGS OF THE
NEW ZEALAND INSTITUTE,
INDEX. VOLS. I. TO XVII.**

TRANSACTIONS

AND

PROCEEDINGS

OF THE

NEW ZEALAND INSTITUTE,

INDEX.

VOLS. I. TO XVII.

EDITED AND PUBLISHED UNDER THE AUTHORITY OF THE BOARD OF
GOVERNORS OF THE INSTITUTE.

BY

JAMES HECTOR, C.M.G., M.D., F.R.S.

WELLINGTON:

GEORGE DIDSBURY, GOVERNMENT PRINTER.
TRUBNER & CO., 60, PATERNOSTER ROW LONDON.

1886.

PREFACE.

THE following work includes a General Index to the first series of the Transactions and Proceedings of the New Zealand Institute, royal octavo, Vols. I. to XVII. The second series, commencing with Vol. XVIII., now in the press, will be published in demy octavo, as being more convenient and economical; the Board of Governors having decided that memoirs requiring special illustration are in future to be reserved for a publication in quarto.

As a convenient companion to this work, a classified index is also given of all papers bearing on scientific matters which have been published in the Appendices to the New Zealand Parliamentary Papers since 1861.

In preparing the original edition of this publication (1877) I received assistance from Mr. Leonard Stowe; and in compiling the present edition the valuable services of Mr. T. W. Kirk and Mr. W. E. Vaux have to be acknowledged.

Wellington, March, 1886.

JAMES HECTOR.

NEW ZEALAND INSTITUTE
TRANSACTIONS AND PROCEEDINGS.

VOLUMES I. TO XVII.

INDEX OF SUBJECTS.

SUBDIVISIONS.

ASTRONOMY, METEOROLOGY, AND GEOGRAPHY.	GEOLOGY AND PALEONTOLOGY.
PHYSICS.	MINERALOGY AND MINING.
BOTANY, HORTICULTURE, FORESTRY, ETC.	MISCELLANEOUS.
CHEMISTRY.	PROCEEDINGS.
COLONIAL INDUSTRIES.	ZOOLOGY.
ETHNOLOGICAL.	

LIST OF ABBREVIATIONS.

a. refers to the Appendix at the end of the Vol. referred to.
n.s. " New Edition of Vol. I.
p. " Proceedings, Vol. III.
n.s. before the number of Vol. means new species.

Astronomy, Meteorology, Physics—

Aerolite at Urunui, XVI., 551.

Aerolites, I., Essay on Geology, 26; n.s., I., 328.

Anemometry, IX., 293.

Apparatus for measuring Distances and Position of Double Stars, XI., 141.

Astronomy and Celestial Physics, V., a., 50.

Atmosphere, Vertical Oscillations in the, III., 306.

Astronomy, Meteorology, Physics—continued.

- Atmospheric Pressure, V., 106.
 Atmospheric Pressure of New Zealand and Great Britain compared, XI., 212.
 Auroral Display, Effect of, on Electric Telegraph, IV., 367.
 on Ships' Compasses, IV., 367.
 Biela's Comet, VII., 148.
 Birth of Nebula, XII., 197.
 Celestial Physics, V., a., 50.
 Chromatics, XIII., 438.
 Climate of New Zealand, IX.; App., XXI.
 (see *Appendix to each vol.*).
 Comet, Great, of 1882, XV., 526.
 Comets, Constitution of, XV., 477.
 Comet-seeking, XV., 524.
 Compass, Ships', Irregularity of, VI., 10.
 Currents, Ocean, III., 322.
 Declination of Magnetic Needle, VI., 3.
 Double Stars, Origin of, XIII., 160.
 Earth, New Zealand, Bad Conductor of Electricity, II., 226.
 Earthquake Disturbances in the Ocean, XVI., 553.
 Phenomena, XV., 533.
 Waves, I., 36; n.s., I., 449; I., 195; n.s., I., 146; II., 222.
 Earthquakes, I., 43; n.s., I., 436; I., 42; n.s., I., 446; I., 93;
 n.s., I., 35; I., 196; n.s., I., 147; I., Essay, Geology, 23; n.s.,
 I., 325; n.s., I., 436; II., 483; III., 355; IV., 437; V., a., 21;
 VI., a., 21; VII., a., 23; VIII., a., 23; X., a., 23; XI., a., 23;
 XII., a., 47; XIV., a., 23; XV., a., 23; XVI., a., 45; XVII., a., 47.
 Earth's Rotation affected by Volcanic Action, VIII., 352.
 Earth Tremors and Earthquakes, XVI., 549.
 Eccentricity of Planetary Orbits, Cause of, XIII., 149.
 Eclipse, 1876, IX., 640.
 Eclipses, IV., 389.
 Electric Telegraph affected by Aurora, IV., 367.
 Electricity, Conduction of, III., p. 33, 324.
 Electro-Magnetic Seismograph, IV., 380.
 Fiji, Observations in, VII., a., 30.
 Genesis of Worlds and Systems, XII., 187.
 Gravitation, Cause of, XIII., 122.
 Great Flood of 1868, XIV., 76; Discussion, 535.
 Gyration of the Wind, III., p. 36, 303.
 Heat, Latent, in Atmosphere, II., 413.
 Hot Lakes, North Island, IV., 6.
 Hot Springs, I., 36; n.s., I., 441; I., 62; n.s., I., 469; I., 71; n.s.,
 I., 477; I., 162; n.s., I., 106.
 Hammer Plain, III., 233.
 Helensville, Kaipara, IV., 396.
 Te Pua, Waikato, II., 169.
 Wataroa River, Westland, VI., 380.
 Hot Winds, Canterbury, VII., 105, 470; XVI., 562.
 Hawke's Bay, VII., 107.
 Impact, Probability of, XIII., 166.

Astronomy, Meteorology, Physics—continued.

- Influence of Atmospheric Changes on Hot Springs, Rotorua District, IX., 37.
- Influence of Earth's Rotation on Rivers, X., 92.
- Latent Heat in Aqueous Vapour of the Atmosphere, II., 413.
- Life Germs derived from Meteors, IV., 417.
- Longitude, III., p., 82.
 " of Wellington Observatory, IX., 217.
 " Wellington, VIII., 441.
- Lunar Influences and Popular Fallacies, XVI., 571:
- Magnetic Dip, XI., 558.
 " Needle, Declination of the, VI., 3.
 " Movement of, XII., 425.
- Mean Time, I., 48; *n.e.*, I., 451.
- Meteors, I., 40; *n.e.*, I., 443; II., 402; III., p. 24, p. 76; IV. 355.
 " Germ of Life derived from, IV., 417.
- Meteorological Stations, XIII., 448.
 " Statistics (see *Appendix to each vol.*).
- Mirage, V., 457.
- Moon, and the Weather, III., p., 62.
 " Occultation of Stars by the, VI., 57.
- Mortality, Effects of Temperature upon Infant, V., a., 35.
- Motions of Earth, Method of Illustrating, XIII., 164.
- New Zealand Climate (see *Appendix to each vol.*).
 " Mean Time, I., 48; *n.e.*, I., 451.
- Observatory: Its Practical Use, V., 467.
 " Fiji, VII., a., 30.
 " Wellington, Longitude of, VII., 502.
- Ocean Currents, III., 322.
- Oscillation in the Atmosphere, III., 306.
- Oscillations of Barograph and Celestial Glows, XVI., 555.
- Perihelion, III., p., 95.
- Partial Impact, XI., 125; XII., 175, 181; XIII., 448.
 " Criticisms on, XIII., 449.
- Periodic Vertical Oscillations in Sun's Atmosphere, XIII., 91.
- Pressure of the Atmosphere, V., 106.
- Rainfall (see *Climate Tables, Appendix to each vol.*).
 " Hokitika, III., 299.
- Rain-gauge, IV., 392.
- Reciprocity of Seasons, X., 523.
- Saltness of the Ocean, III., 322.
- Science of Weather, XI., 556.
- Seismograph, Electro-Magnetic, IV., 330.
- Solar Radiation, VI., 391.
- Solar and Stellar Heat, Permanency of, XIII., 97.
 " Heat, XIV., 541.
 " System, Origin of, XIII., 154.
- Southern Stars, &c., XII., 165.
- Statistics, Meteorological (see *Appendix to each vol.*).
- Stars, Occultation of, by the Moon, VI., 57.
- Sunset Glows, XVI., 557.
- Telescope, a new, V., 119.

Astronomy, Meteorology, Physics—continued.

- Telescope, Eye-piece for Direct Solar Vision, VIII., 172.
 " Reflecting, V., 125.
 Temperature of Breath; Remarks on Dr. Dudgeon's Experiments, XIII., 437.
 " (see *Climate Tables, Appendix to each vol.*).
 " of the Ocean, III., 322.
 Temporary and Variable Stars, XI., 118.
 Terrestrial Radiation, VI., 391.
 Thermometer, VII., 152.
 Thermal Springs (see Hot Springs).
 Tidal Waves, I., 42; *n.e.*, I., 449; I., 65; *n.e.*, I., 472; I., 93; *n.e.*, I., 35; I., 101; *n.e.*, I., 44; I., 195; *n.e.*, I., 146; X., 520, 522; XVI., 552.
 Transit of Venus, V., 466.
 Triple Meteor, XV., 524.
 Volcanic Action, Effect of, on the Earth's Rotation, VIII., 352.
 Waterspout in Cook Strait, XV., 525.
 Weather and the Moon, III., *p.*, 62.
 " Forecast, XII., 40.
 " Health, and Forests in Mauritius, XV., 524.
 " Notes on the (see *Climate Tables, Appendix to each vol.*).
 " Reports, Telegraphic, XIV., 545.
 Wind, Force of the (see *Climate Tables, Appendix to each vol.*).
 " Gyration of the, III., *p.*, 36, 303.
 " in Southland, XVI., 571.
 Zodiacal Light, V.; *a.*, 43, 47; VII., 150.

Botany, Horticulture, Forestry, &c.—

- Acclimatization of Trees, &c., I., Essay (Ludlam); *n.e.*, I., 285.
Acianthus, VII., 349.
 Additions to New Zealand Flora, X., *a.*, 28; XIII., 437; XIV., 332, 299; XV., 298, 339; XVI., 409.
 Algae, IV., 237; VII., 369, 404.
 " Chatham Island, III., 76, 213; VI., 208.
 " Fresh Water, XIV., 287; XV., 302.
 Alpine Flora of New Zealand, XIV., 342.
 " Plants of Otago, XIII., 434.
Ammophila arundinacea, V., 111.
Amphibromus, XVI., 374.
 Apple-tree Blight, IV., 429.
Aralia lyallii, XVII., 293.
 Arboriculture Committee, III., *p.*, 53.
 Arid Island, I., 165; *n.e.*, I., 109.
 Asteliads, IV., 241, 394.
 Atropis in New Zealand, XIV., 378.
 Auckland North Districts, I., 140; *n.e.*, I., 84; II., 239, 242; III., *p.*, 86, 166, 173.
 Australian Bark for Tanning, XI., 570.
Azolla rubra, X., 522.
 Beeches, New Zealand, XVII., 296.

INDEX OF SUBJECTS.

Botany, Horticulture, Forestry, &c.—*continued.*

- Beet for Sugar, XII., 431.
 Bird-killing tree, XVI., 364.
 Black Maire, X., 523.
 Bluff Hill, Botany of, X., 400.
Baeomyces Neteromorphus, XIII., 363.
 Botany Notes, XVI., 367; XVI., 397.
 " of Kawan Island, IX., 503.
 " of New Zealand, XVI., 325.
 " of Pirongia Mountains, XII., 317.
 " of Te Aroha Mountains, XVII., 275.
 " of Thames Goldfields, XVI., 385.
 " of Waiheke, Rangitoto, &c., XI., 444.
Botrychium lunaria, XVI., 363; XVI., 366.
Brachyglottis, Poison in (see *Chemistry*).
Calceolaria repens, XI., 466.
Calostrophus lepyrodia, VI., 384, 389.
 Campbell Island and its Flora, XVI., 398.
 " Plants from, XIII., 437; XIV., 387.
Carex, n.s., XIII., 332; XV., 358.
 " Revision of, XVI., 414.
Carmichaelia, XVI., 378; n.s., XVII., 272.
Cassinea leptophylla, VI., 248.
 Catalogue of Flowering Plants and Ferns, II., 95; III., 153.
Celmisia, n.s., X., 427.
 " *sessiliflora*, XV., 359.
 Charring Timber, IX., 183.
 Chatham Island Plants, &c., III., p. 76, 213; V., 309, 320; VI., 208; VII., 333.
Cheilanthes, VI., 247.
Cladophora, XII., 397.
 Clover Dodder, V., 450.
 Composite Plant, n.s., XV., 259.
Coprosma, XI., 426; XVI., 565.
Corallos partium, XIII., 333.
Cordylina, VI., 244.
Cortaria ruscifolia, III., 237.
 Cork grown at Auckland, XV., 267.
 " Hutt, XV., 528.
Cryptogamia, IV., 231.
Cyathea dealbata, V., 347.
Cyrtostilis, VII., 349, 404.
Dacrydium, X., 383.
Desmidiæ of New Zealand, XIII., 297; XV., 297.
 Diatomaceous Deposits, XV., 340.
 Diatoms, Exhibition of, XIII., 455.
Diatoms, n.s., XIII., 448; XIV., 367.
Dicksonia antarctica, V., 345.
 " *lanata*, V., 345.
 Distribution of Plants, IV., 256.
Donatia nova-zealandia, XIII., 269.