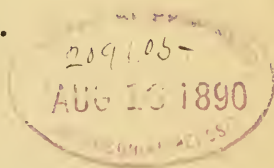


REPORT  
OF THE  
ROYAL SOCIETY  
OF  
TASMANIA

FOR THE YEAR

1885.



Tasmania:

WILLIAM THOMAS STRUTT, GOVERNMENT PRINTER, HOBART.

1886.

# ROYAL SOCIETY OF TASMANIA.

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HIS EXCELLENCY MAJOR SIR GEORGE CUMINE STRAHAN,  
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- \* Baron F. Von Müeller, K.C.M.G., M.D., F.R.S., F.L.S., &c., Government Botanist, Melbourne, Victoria.
- \* Rev. J. E. Tenison-Woods, F.L.S., F.G.S., F.R.G.S., Sydney.  
Mrs. Charles Meredith, Malunnah, Orford.
- \* Hon. W. Macleay, M.L.C., F.L.S., Sydney.  
Edward Pierson Ramsay, Esq., F.R.S.E., F.L.S., &c., Curator  
Australian Museum, Sydney, N.S.W.

### Corresponding Members.

\*Members who have contributed Papers which have been published in the Society's Transactions.

- Professor John Agardh, M.D., University of Lund, Sweden.
- W. H. Archer, Esq., Melbourne.
- \* Frederick M. Bayley, F.L.S., Brisbane, Queensland.
- \* G. Bennett, Esq., M.D., F.Z.S., Sydney, New South Wales.
- William Tompson Bednall, Esq., Adelaide, South Australia.
- John Brazier, Esq., C.M.Z.S., Sydney.
- Rev. J. J. Bleasdale, D.D., F.G.S.
- Rev. George Brown, C.M.Z.S., Sydney.
- R. J. L. Ellery, Esq., F.R.S., F.R.A.S., Government  
Astronomer, Melbourne.
- \* Robert Etheridge, jun., Esq., F.G.S., British Museum.
- Dr. Julius Haast, F.R.S., F.G.S., Director of Museum,  
Christchurch, New Zealand.
- Professor W. Harkness, U.S.N., United States Naval  
Observatory, Washington.
- Henry Heylyn Hayter, Esq., C.M.G., Government Statist,  
Melbourne.
- Sir Joseph Dalton Hooker, C.B., K.C.S.I., &c., &c.,  
London.
- \* F. W. Hutton, Esq., F.G.S., C.M.Z.S., Professor of Biology,  
Canterbury College, Christchurch, New Zealand.
- James Hector, Esq., M.D., C.M.G., F.R.S., F.G.S., Director  
Geological Survey of New Zealand, Wellington.
- \* Colonel W. V. Legge, R.A., F.Z.S., M.R.A.S., Hobart.
- Archibald Liversidge, Esq., F.R.S., F.C.S., F.G.S., F.L.S.,  
F.R.G.S., &c., &c., Professor of Chemistry and Mineralogy,  
University of Sydney.
- \* G. McIntyre, Esq., Christchurch, New Zealand.
- Professor F. McCoy, F.R.S., F.G.S., University of Melbourne.
- Professor G. Neumayer, Munich.

Rev. Charles Rogers, LL.D., Secretary Royal Historical Society, London.

Dr. W. O. Sonder, Foreign Hon. Sec. Society of Naturalists, Hamburg.

Richard Schomburg, Ph.D., C.M.Z.S., Director of Botanic Gardens, Adelaide.

\* Ralph Tate, Esq., F.L.S., F.G.S., Professor of Natural History, University of Adelaide.

C. Tomlinson, Esq., F.R.S., F.C.S., &c., Highgate, near London.

Professor G. F. H. Ulrich, F.G.S., Melbourne.

Mons. J. N. Verschaffelt, Ghent, Belgium.

W. A. Haswell, Esq., M.A., B.Sc., Edin., University of Sydney.

J. V. R. Swann, Esq., U.S. Consul, St. Petersburg, Russia.

## List of Fellows.

\*Fellows who have contributed Papers which have been published in the Society's Transactions. † Denotes Life Membership.

The addresses of Fellows residing in Hobart are omitted.

- Andrew, James.  
 \*Abbott, Francis.  
 Adams, G. Patten.  
 Adams, R. Patten.  
 \*Agnew, Hon. J. W., M.D., M.E.C., Fellow of the Linnean Society of New South Wales.  
 Aikenhead, Hon. J., M.L.C., Launceston.  
 Allport, Morton John Cecil.  
 Archer, W. Henry D., M.H.A., Brickendon, Longford.  
 Atkins, Charles J.  
 Atkinson, Thomas R.
- Barclay, C. J.  
 \*Barnard, James.  
 Barnard, C. E., M.D., F.L.S.  
 Barnes, William, Trevallyn, Launceston.  
 \*Bastow, Richard A., F.L.S.  
 \*Beddome, C. E.  
 Bedford, W. J. Guthrie, M.R.C.S., Waratah, New Town.  
 Belstead, C. T.  
 Belbin, W., M.H.A.  
 Bernacchi, Diego A. G., Maria Island.  
 Bethune, John C., Dunrobin.  
 Bidencepe, J.  
 \*Biggs, A. B., Launceston.  
 Bilton, H., Glenorchy.  
 Boyes, W. L., George's Bay.  
 Bright, R. S., M.R.C.S.  
 Brock, H. J., Campania.  
 Browne, Justin M'C.  
 Brown, Hon. Nicholas J., M.H.A., Meadow Bank, Glenora.  
 Buckland, Rev. John Vansittart.  
 Buckland, W. Harvey, B.A.  
 Butler, Francis.  
 Butler, A.  
 Burgess, Hon. W. H., M.H.A.  
 \*Charpentier, W. H.  
 Clarke, Rev. George, New Town.  
 Clark, A. I.  
 Cook, Henry.

Cook, Henry, jun.  
 Cowle, Anne Caroline, Miss.  
 \*Crawford, Lieut-Colonel Andrew, Hamilton-on-Forth.  
 Crosby, Richard.  
 Crosby, William.  
 Crowther, E. L., M.D.  
 Crowther, B., M.D.  
 Crouch, E. J., M.R.C.S.

Davies, J. George, M.H.A., Mayor of Hobart.  
 Davies, Charles Ellis.  
 Davies, J., Beaconsfield.  
 Dobson, Hon. Alfred, M.H.A.  
 Dobson, Henry.  
 Dobson, His Honor William Lambert, M.E.C., F.L.S.  
 Dodds, the Hon. J. S., M.H.A.  
 Douglas, Hon. A.  
 Duffy, W.

Edwards, G. H.  
 Eldridge, W.  
 Elliston, C. H.  
 Evans, T. M.

Facy, J. T.  
 Fincham, James.  
 Fitzgerald, George P.  
 Fysh, Hon. P. O., M.L.C.  
 Fysh, P. Oakley.

Garrard, C. W., B.A.  
 †Gellibrand, Hon. W. A. B., M.L.C., Hon. Member Leeds  
   Institute, River Ouse.  
 Giblin, Mr. Justice.  
 Giblin, Edward O., M.D.  
 Giblin, Arthur.  
 Goldsboro, Dr., New Zealand.  
 Graham, Albert W., L.S.A., M.R.C.S., Circular Head.  
 Grant, C. H.  
 Grant, James.

Hadley, J. C.  
 Hamilton, John.  
 Hardy, Wentworth.  
 Harris, Rev. R. D. Poulett, M.A.  
 \*Henry, Robert.

Hickling, Wyatt.  
 Hinsby, George.  
 Hookey, Vernon W.  
 Hunter, Henry.  
 Huybers, James Alfred.

Jeffrey, Molesworth, Bournbank, Lachlan.  
 \* Johnston, R. M., F.L.S.  
 Just, T. C.

\* Kent, W. Saville, F.L.S.  
 Kermode, W. A., Mona Vale.  
 \* Kingsmill, C. H., M.A.  
 Knight, William J., M.A.

Latham, G. H.  
 Legge, W. V., Colonel, R.A.  
 Little, W. P.  
 Lodder, Miss Mary, Lonah, Leven, N. W. Coast.  
 Lord, Hon. John, M.L.C.

Mace, Frederick, Buckland.  
 Macfarlane, W. H., M.B., New Norfolk.  
 Macfarlane, James  
 Macfarlane, John.

\* M'Clymont, James R., M.A., the Cascades, Tasman's  
 Peninsula.

\* M'Cance, John, F.R.A.S.

M'Mullen, J. F.  
 Macmichael, John C.  
 Maning, H. T.

Maddox, Wm. Gordon, M.R.C.S., Launceston.

Marsh, H. J.

Mather, J. B.

\* Mault, Alfred, New Norfolk.

Maxwell, C. M.

Maxwell, J. Crawford.

Milles, R., Sydney.

Moore, T. B.

\* Morton, Alexander.

Murphy, Most Rev. D., Bishop of Hobart.

\* Nairn, C. C., New Town.

Napier, G. R.

Nicholas, Wm., Nant, Bothwell.

Nicholas, Geo. C., Mill Brook, Ouse.

North, A.  
 \* Nowell, E. C.

O'Callaghan, Rev. T. M.

Park, Archibald, M.R.C.V.S.  
 Parsons, Cecil J.  
 Pedder, Frederick.  
 \* Perkins, H. A., M.D., M.R.C.S.  
 \* Petterd, W. F., C.M.Z.S., Launceston.  
 Pillinger, John, Antill Ponds.  
 Poynter, Miss E. C., Sandy Bay.

Read, R. Cartwright, Redlands, New Norfolk.  
 Rex, R. R.  
 Riddoch, Alexander.  
 Richardson, Geo.  
 Ritchie, A.  
 Roberts, H. L.  
 Rodway, Leonard.  
 Rooke, H. I., M.H.A., Launceston.  
 \* Ross, J. Clunies, B.S.C., F.G.S., &c.

Salier, Frederick J.  
 Sandford, Right Rev. D. F., LL.D., Bishop of Tasmania.  
 Seal, Matthew.  
 Seager, Philip.  
 Shann, Rev. F.  
 Sharp, John.  
 Shaw, Bernard.  
 \* Shoobridge, W. E., New Norfolk.  
 Shoobridge, R. W. G., New Norfolk.  
 \* Shortt, J., Capt. R.N.  
 Simmons, Rev. J. Wilkes.  
 \* Simson, Augustus, Launceston.  
 Smith, Hon. Sir Francis Villeneuve, Knt., M.E.C., London.  
 Smith, C. H., Launceston.  
 † Solomon, Joseph.  
 Sprent, Charles P.  
 \* Stephens, Thomas, M.A., F.G.S.  
 \* Swan, Edward D.  
 Syme, J. Wemyss.

Tabart, T. A.  
 \* Thureau, G., F.G.S., Launceston.  
 Turnbull, T.



Triffet, J. T.

\* Travers, S. Smith.

Walch, James H. B.

Walch, J. W. Henry.

Waller, G. Arthur, M.A., Cangort, New Town.

Walker, James Backhouse.

Wallack, E.

\* Ward, W. F.

Weaver, George.

\* Webster, Alex. Geo.

Weymouth, W. A.

Wilson, Edward P.

Wilson, Fleetwood P.

Wise, Fred. H.

\* Woolnough, Rev. J. B. Williams, M.A.

Wright, Stephen P. H., The Grove, Glenorchy.

Young, Russell.

### Obituary.

JOHN SWAN, aged 53, an old and much valued Fellow of the Society, and a Member of the Council. Born in Tasmania, Mr. Swan proceeded at an early age to England in order to complete his education. On his return to the Colony he engaged in pastoral pursuits. Was for many years a Member of the House of Assembly, and for some time Chairman of Committees. Resigned his seat on acceptance of the office of Inspector of Police, which he held till the period of his death, December 22nd, 1885.

Other Members who had died during the year were—the Hon. Henry Butler, F.R.C.S., Speaker of the House of Assembly ; and Dr. G. F. Story, of Swansea.

*MINUTES of the Annual General Meeting of the  
ROYAL SOCIETY OF TASMANIA, held at the Museum on  
Friday, February 5th, 1886,—THOS. STEPHENS, Esq.,  
M.A., F.G.S., Vice-President, in the Chair.*

THE under-mentioned gentlemen were elected Corresponding Members; viz.—William A. Haswell, Esq., M.A., B.Sc. Edin., Sydney University, N.S.W.; J. V. R. Swan, Esq., U.S. Consul, St. Petersburg, Russia. James Rule, Esq., Senior Inspector of Schools, Tasmania; and Edw. A. Counsel, Esq., Hobart, were elected Fellows.

In the absence of the Hon. J. W. Agnew, M.D., M.E.C., Hon. Secretary, the Chairman called upon Mr. A. Morton, Assistant Secretary and Librarian, to read the Annual Report.

Mr. Belstead, in moving the adoption of the Report, referred to the handsome legacies bequeathed to the Society by the late Dr. Milligan, and trusted it would stimulate other wealthy men in our midst to follow his example. He also made reference to the loss the Society had sustained in the death of the late Mr. John Swan.

Rev. J. W. Simmons, in seconding the motion, expressed his pleasure at the numerously attended meetings of the past session, but deplored the want of necessary space for the use of the microscope in illustrating various papers.

Mr. R. A. Bastow, F.L.S., remarked, with the permission of the Chairman, he intended early in the session to read a paper "On the Science of Sanitation," illustrated by diagrams. He went on to remark that in this colony we have a Public Health Act, as good an Act as could possibly be framed for the conservation of the health of the community, and now that the Parliament had done their part so well it remains for the community to carry out the Act in all its requirements. As yet it appears as though the science of sanitation were totally unknown in the colony except by some few gentlemen who have made the science a study, and unless the eyes of the public are opened, the dangers existing in their very homes, in the air they breathe, in the food they eat, in the rooms they sleep in, and everywhere outside their homes, in the drains and accumulations of filth visible at all times in many of our streets, the annual death rate will still continue over 24 per 1000, instead of 12 per 1000, for the registration district of Hobart,—

that is 3 per 1000 more than the deaths in that thickly populated registration district, the city of Manchester. He concluded by expressing the hope that he might be allowed a fitting opportunity to place before the Members of the Royal Society the results of his many years experience as sanitary surveyor under the Medical Health Officer of Manchester.

The Chairman stated the Society were indebted to Mr. Bastow for the promise of so interesting and valuable a paper.

#### VOTE OF THANKS TO THE HON. J. W. AGNEW, M.D.

Mr. C. T. Belstead, in rising, said the motion he had to propose was one in which all connected with the Society would acquiesce. It was,—“That a vote of thanks be recorded to the Hon. J. W. Agnew, M.D., the worthy Hon. Secretary of the Society.” Dr. Agnew, for many years past, had taken the deepest interest in the welfare of the Society, and he trusted that the Society might long enjoy the kindly attention shown by Dr. Agnew.

Rev. J. W. Simmons seconded the motion.

The Chairman, in putting the motion, which was carried by acclamation, spoke in high terms of the Honorary Secretary.

Mr. A. Morton intimated that before closing he would wish to propose a special vote of thanks to the Press for the prompt and ready manner in which they had, during the session, reported the proceedings of the Society, and the large amount of space that had been given to these reports.

Mr. F. Abbott seconded.

The Chairman, in putting the motion, remarked that the publicity afforded by the Press was of infinite value to the Society, as otherwise its operations would be confined to a very small circle.

Mr. C. J. Atkins moved, and Rev. J. W. Simmons seconded, that a vote of thanks be recorded to the Chairman.

The meeting then adjourned.



# REPORT.

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It must be a subject for congratulation to the Fellows that the papers read during the session of 1885 were not only of great variety, but of special interest and importance. The monthly meetings were all numerously attended, and on several occasions many ladies were present.

The papers, 26 in number, were as follows:—

Zoology of Australia: by the Hon. W. Macleay, F.L.S.

“Fresh contributions to our knowledge of the character and relationship of the Upper Palæozoic and Mesozoic Formations of Tasmania with the associated Diabasic Rocks.”—“Notes regarding the Silurian Fossils of the Gordon Limestones, with generic descriptions and a specific list of the organisms already named and classified.”—“Notes on the discovery of new species of leaf impressions from the Tertiary sandstones at Mount Bischoff, belonging to the Genera *Eucalyptus*, *Laurus*, *Quercus*, *Zamia*, etc.”—“General observations regarding the classification of the Upper Palæozoic and Mesozoic Rocks of Tasmania, together with a full description of all the known Tasmanian coal plants, including a considerable number of new species.”—“Description of two new species of Tertiary fossil plants belonging to the genera *Eucalyptus* and *Taxites*.”—“Tasmanian fossil plants of the upper and lower coal measures of Tasmania.”—“Local distribution of the fossil plants of the upper and lower coal measures of Tasmania.”—“Geological table showing the proposed provisional classification of stratified rocks for Tasmania, also showing corresponding divisions elsewhere:” by R. M. Johnston, F.L.S.

“The Lunar Eclipse of 30-31st March, 1885.”—“The Tasmanian earth tremors, 1883-4-5:” by Mr. A. B. Biggs.

“*Jungemania reticulata*.”—“On the identification of Tasmanian mosses, etc.”—“Mosses of Tasmania” (continued): by R. A. Bastow, F.L.S.

"New species of Tasmanian Marine Shells."—"Description of two apparently new species of *Ancillaria*, Lam.:" by W. F. Petterd, C.M.Z.S.

"Notes on Jean Julien Houten De-Labillardiere:" by Baron F. Von Mueller, K.C.M.G., M.D.

"Remarks on Tin Ore Deposits at Mount Bischoff:" by Baron F. Von Groddeck.

"Earthquake Phenomena in Tasmania, with table:" by Captain Shortt, R.N.

"Notes on boring operations in search of Coal in Tasmania, 1884, (*continued*), with the abstracts of Records of boring in Upper Palæozoic Beds at Cascades, Hobart, 1884, and in the Coal Measures at Tarleton, Mersey, 1884:" by T. Stephens, M.A., F.G.S.

"Water and Typhoid:" by W. F. Ward, A.R.S.M.

"Iceland and the Iclander:" by the Rev. J. B. Woollough.

"Shells of the Group *Polcystina*:" by C. J. Atkins.

"The Scientific treatment of Waste Material:" by W. H. Charpentier.

"Australian Topography; Edel's Land, De Witt's Land, and Carpentaria:" by J. R. M'Clymont, M.A. Edin.

"Sketch Map General Geological Features of Tasmania:" by C. P. Sprent and R. M. Johnston.

Discussion took place, as usual, on the various papers, to some of which additional interest was lent by means of microscopic illustrations by Mr. Bastow and Mr. C. J. Atkins. In reference to the paper by the former, it may be mentioned that Mr. Bastow is at present engaged on a monograph of Tasmanian mosses, which will, no doubt, be of the greatest value to the future workers in that interesting branch of natural history.

#### LIBRARY.

The usual additions of periodic literature have been made to the Library, but special mention must be made of a valuable donation accruing from the interest on the "Morton Allport Fund," *i.e.*, seven volumes Bleeker's

Atlas Ichthyologique, two vols. Day's Fishes of India, Gunther's Fishes of Zanzibar, and 13 parts Journal Museum de Goddefroy. Of still greater importance, however, for the general interests of the Society was the receipt of the very large legacy of £350, in accordance with the will of the late Dr. Milligan. Of this valuable bequest due notice was taken at the monthly meeting held in May.

It will be noticed with much satisfaction that, for the second time at so early a period, the Transactions of the year are already bound and ready for distribution.

#### FELLOWS.

Twenty-two new Fellows have been elected, and 12 have been lost through death or resignation. The total number is now 176.

#### METEOROLOGY.

Meteorological observations have been carried on as in last year.

#### COUNCIL.

The Council have to deplore the loss of one of its oldest members, Mr. John Swan. From Mr. Swan's practical knowledge of much of the natural history of the colony, his death creates a void in the ranks of the Society not readily to be filled. Mr. R. M. Johnston, F.L.S., has been appointed to the vacant seat in the Council.

#### ELECTION OF OFFICERS.

Messrs. R. M. Johnston, F.L.S., Justin M'C. Browne, A. G. Webster, and H. A. Perkins, M.D., the retiring Members of the Council, were re-elected, as also Messrs. John Macfarlane and Francis Butler, hon. annual Auditors.

#### FINANCE.

The income has been:—Government grant in aid to Museum, £300; grant to Gardens, £800; annual subscriptions to Royal Society, £22 10s.; sale of plants, £169 7s.; legacy by the late Dr. J. Milligan, £350; making, with balance from 1885, £1871 4s. The expenditure



amounted to £1452 18s. 1*d.*; leaving a balance to credit with fixed deposit, £419 3s. 7*d.*

### MUSEUM.

The Museum has undergone a change of government, in accordance with an Act passed during the recent session of Parliament. Having by that Act been incorporated, it is now a national institution, with an annual endowment of £500. The management of its affairs is vested in a Board of Trustees, consisting of five officials, a Crown Trustee named by the Governor, and six others elected from the Council of the Society.

The fact that the Museum has thus for the first time been placed on a secure and permanent basis will unquestionably exert a happy influence over its future development. The number of visitors has been very large, including temporary residents from other colonies and passengers by the various steam routes who make a short stay on their way to and from New Zealand.

The collection is still being steadily increased, chiefly, it is pleasant to remark, by specimens illustrative of the colony. In the geological collection special to Tasmania, printed tablets, compiled by the Curator, and explanatory of the various Orders and Families, have been placed. In an educational point of view these will be found to be of the greatest value.

For a collection of New Guinea birds, in which visitors take a great interest, we are indebted to our excellent friends the Trustees of the Sydney Museum. The Trustees of the Brisbane Museum have also kindly contributed to our ornithological collection. Owing to the rapidly increasing number of specimens our space is becoming very limited, and it is therefore with great satisfaction that we have to acknowledge our obligation to Government and Parliament for a vote of £3000 for the purpose of giving largely increased accommodation.

The approximate number of visitors, including Sundays, was 27,069.

## GARDENS.

Consequent on the annual grant being increased to £800, more labour has been employed, and a marked improvement in the appearance of the Gardens has already taken place, and many urgently needed repairs and additions have been effected.

By the Act of Parliament already referred to, the Gardens have also been incorporated and placed under the same management as the Museum.

A large bush or lath house has been constructed for the combined purposes of growing the more hardy varieties of florists' flowers and general nursery stock. For both purposes the house promises to be of great utility, the plants in it having done remarkably well.

About 450 new plants have been received, and a large number of seedlings of many plants suitable for planting parks or public reserves have been raised.

The beautiful *Picea amabilis*, the Japan silver fir (*Picea*), and the Crimean fir (*Abies Nordmanniana*) are producing cones for the first time. As these three plants are much sought after for ornamental purposes, their fresh seeds will be highly valuable.

The heavy rains which fell in November cut up the beds and walks, but were very beneficial to the plants generally. From the same cause the grass lawns have also remained green without artificial watering longer than in ordinary seasons.

The estimated number of visitors was 67,000.

## DOMAIN.

The improvement of the Queen's Domain has been continued so far as the funds provided for the purpose would permit. The drive leading past the new cricket ground is now complete, and promises to become very popular.



On the sides of the road for a distance of some 200 yds. Large numbers of *Cedrus deodara*, the Indian cedar, and *Abies Douglassi*, the Douglas fir, have been planted, and are looking well.

Planting and levelling have also been carried out on the ground in the vicinity of the powder jetty.

The triangular piece near the new cottage has been trenched, fenced, and planted as a mixed shrubbery. The drain creek opposite the powder jetty has been partly levelled, and planted with Norfolk Island Pines.

The palms and *Pinus insignis* trees planted on the side of the main road to Government House have generally done well, the only exceptions being where they are in the vicinity of the indigenous gums, which will therefore require removal.

J. W. AGNEW, *Hon. Secretary.*

*STATEMENT of the Funds of the ROYAL SOCIETY OF TASMANIA for the Year 1885.*

<b>Receipts.</b>		£	s	d.	£	s	d.	<b>Expenditure.</b>		£	s	d.	£	s	d.
Balance as per statement for 1884....		..			30	9	9	<i>Royal Society.</i>							
<i>Royal Society.</i>								Printing and Advertising.....		57	7	6			
Annual Subscriptions and arrears for								Collector's Commission .....		10	18	6			
1885 .....		221	10	0				Messenger, Cartage, &c. ....		2	15	1			
Legacy, Dr. Milligan .....		350	0	0				Furniture, Fittings, &c. ....		17	8	0			
					571	10	0	Library—Books, Stationery, &c....		65	2	0			
<i>Museum.</i>								Sundries, Cheque Book.....		10	10	6			
Grant in aid from Treasury.....		..			300	0	0	Water-rate, Gas, &c.....		8	10	5			
<i>Botanic Gardens.</i>								Insurance .....		4	18	6			
Grant in aid from Treasury.....		800	0	0				Fuel, &c.....		11	1	0			
Proceeds of sale of Plants, Flowers, &c.		169	0	7	969	0	7	Interest on overdrawn account ....		0	3	7	188	15	1
								<i>Museum.</i>							
								Salary of Curator .....		200	0	0			
								Wages of Attendant.....		79	0	0			
								Ditto (Sundays) .....		13	0	0			
								Purchase of Specimens.....		0	18	9			
								Sundries .....		3	14	7			
								Ironmongery, Brushware, &c.....		5	5	7			
								Freight and carriage of Specimens..		1	5	9			
								Repairs to Building, &c.....		2	13	6			
								Chemicals, &c. ....		14	4	4			
								Petty Cash.....		6	14	3	326	16	9
								<i>Botanic Gardens.</i>							
								Salary of Superintendent.....		200	0	0			
								Wages of Labourers.....		470	2	0			
								Tools and Repairs.....		2	2	6			
								Freight and carriage of Plants ....		15	15	10			
								Stationery and stamps .....		2	19	0			

Forage .....	16	0	10
Horse hire .....	6	4	0
Ironmongery and fittings.....	93	4	6
Plants and Seeds .....	3	18	3
Sundries .....	27	10	7
Water rate .....	3	3	4
Flower-pots ..	23	0	0
Sand, earth, &c. ....	10	13	0
Timber and repair of buildings ....	62	12	5
		937	6 3

£1452 18 1

Balance as per statement for 1885....	30	9	9
Receipts .....	1490	10	7
Legacy, Dr. Milligan .....	350	0	0
Expenditure .....	..	1452	18 1
Fixed Deposit Commercial Bank, due 5th November, 1886.....	..	300	0 0
Balance to Credit, as per Bank Pass Book .....	..	118	2 3

£1871 0 4 1871 0 4

Balance, as per Bank Book.....	119	3	7
Less un-presented cheque, Weaver £1 1 0 }	1	1	4
Less error petty cash..... 0 0 4 }			
		£118	2 3

£1871 0 4

*Hobart, 31st December, 1885.*

Examined and found correct.

JOHN MACFARLANE.

*12th February, 1886.*

*STATEMENT of the MORTON ALLPORT Memorial Fund, 1885.*

1886.	Dr.	£ s. d.	1885.	Cr.	£ s. d.
Jan. 1.	To Balance as per Statement for 1884 ....	58 16 3			
1885.					
Aug. 31.	Interest, Savings Bank .....	2 12 6	Nov. 30.	By Cash, Trubner & Co.'s Account .....	57 1 1
Nov. 28.	Cheque .....	10 0 0		Balance at Savings Bank to credit of Fund.	14 7 8
		<u>£71 8 9</u>			<u>£71 8 9</u>

Examined with Savings Bank Book, and found to be correct.

JOHN MACFARLANE.

12th February, 1886.

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- Descriptive Notes on Papuan Plants. From Baron F. von Müeller, K.C.M.G.
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- Report of the Superintendent of the U.S. Coast and Geodetic Survey, showing the progress of the work during the fiscal year ending with June, 1883. Part I., Text Part II. Sketches Washington, 1884. From the U.S. Survey Office.
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- Report on the Meteorology of India in 1882. By H. F. Blandford, F.R.S. From the Meteorological Department.
- Report of the Board of Governors of the Public Library, Museum, and Art Gallery of South Australia, with the Reports of the Standing Committees for 1884-5. From the Department.
- Register of Papers published in the Transactions and Proceedings of the American Philosophical Society, compiled by H. Phillips, jun. From the Society.
- Resultados del Observatorio Nacional Argentio en Cordoba. Vols. III., IV. By B. A. Gould. From the Society.
- Signal Service Tables of Rainfall and Temperature compared with the Crop Production, No. 10. From War Department, Washington.
- Smithsonian Report for 1881. From the Society.
- Studies on the Elasmobranch Skeleton. By W. A. Haswell, Esq., B. Sc. From the Author.
- Statistical Register of the Colony of Victoria for 1883, and Index. From the Government Statist.
- Scientific Transactions of the Royal Dublin Society. Vol. III., Series II., IV. Catalogue of Vertebrate Fossils, from the Siwaliks of India, in the Science and Art Museum, Dublin. By R. Lydekker, B.A. Plate and Woodcuts.
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- Synonymy of and Remarks upon the Specific Names and Authorities of Four Species of Australian Marine Shells, originally described by Dr. John Edward Gray in 1825 and 1827. By John Brazier, C.M.Z.S. From the Author.
- Statistics of the Colony of New Zealand for the year 1884. Part IV., Finance, Accumulation, and Production. From the Government.

- Systematic Census of Australian Plants, with Chronologic, Literary, and Geographic Annotations. By Baron von Müeller. Second Annual Supplement for 1884. From the Author.
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- Verhandlungen des Naturhistorischen Vereines der preussischen Rheinlande und Westfalens. By Dr. C. J. Andra. Zweite Hälfte, 1882. Erste Hälfte, 1883. Zweite Hälfte, 1883. From the Society.
- Victorian Year Book for 1883-4. By Mr. H. H. Hayter. From the Author.
- Victorian Naturalist, January, February, March, 1885. From the Society.
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- Vital and Meteorological Statistics for April. From R. M. Johnston, Government Statistician.
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- Washington Astronomical and Meteorological Observations. Vols. XXV., XXVI., 1878-9. From the Meteorological Department.
- Wood Pavement Board Report: Minutes of Proceedings and Appendix, Sydney, New South Wales, 1884. From Professor A. Liversidge.
- Wattle Bark: Report of the Board of Enquiry.
- Washington Astronomical and Meteorological Observations made during the year 1880. From the Department.

*LIST of Donors to the Museum during 1885.*

(For particulars of Donations see Lists in Monthly Proceedings.)

Agnew, C. S.	Lord, Mrs. John
Atkinson, T. R.	Legge, Col. W. V.
Archer, —	Meredith, C.
Alomes, R.	M <sup>c</sup> Cluskey, J.
Blyth, C.	M <sup>c</sup> Clymont, J.
Brent, A.	Moore, —
Buckland, W. H.	M <sup>c</sup> Cance, J.
Bethune, R. D.	Mace, F.
Bush, —	Massey, L.
Boyes, W. L.	Morrisby, H.
Burgess, Miss	Nairn, C. C.
Bradshaw, J.	Oakley, T.
Bessitt, —	Propsting, —
Coverdale, Dr.	Propsting, Miss
Crouch, Dr. E. J.	Perkins, —
Cearns, Mrs.	Peacock, W.
Crosby, Hon. W.	Read, R.
Chapman, A. K.	Richardson, Geo.
Cole, W. H.	Seager, P.
Dunbabin, —	Shoobridge, W. E.
Davies, J.	Selfe, F.
Douglas, Hon. A.	Stannard, H.
Echlin, J.	Salmon Commissioners of
Edwards, G.	Tasmania
Easton, —	Stanfield, T.
Flexmore, —	Short, J. N.
Facy, —	Swan, Miss G.
French Brs.	Swan, Master A.
Featherston, Miss	Swan, E. D.
Gellibrand, Hon. W.	Swan, John
Gawne, E. B.	Street, —
Hull, A. F. B.	Schott, Herr
Headlam, —	Syme, J. Wemyss
Holden, Dr.	Tabart, T.
Hinsby, H.	Turvey, W.
Hedberg, O.	Triffett, T. J.
Hull, E.	Trustees Brisbane Museum
Hadley, Mrs. J. C.	Wilson, —
Johnston, R. M.	Wright, E. C.
Lester, W.	Wallack, E. T.
Lardson, L. D.	Whitehead, J. N.
Lindley, C. H.	Wilson, L.
Lovett, —	Wilkins, —

PLANTS INTRODUCED INTO THE ROYAL SOCIETY'S GARDENS  
DURING 1885.

<i>Abies brachyphylla</i>	<i>Dracocephalum nutans</i>
„ <i>dumosa</i>	<i>Eucalyptus gomocephala</i>
<i>Acacia coccinea</i>	„ <i>diversicolor</i>
„ <i>linifolia</i>	<i>Eremurus altaicus</i>
„ <i>lentis</i>	<i>Erigeron aurantiacus</i>
„ <i>speciosa</i>	„ <i>Caucasicus</i>
<i>Aciphylla Munroi</i>	„ <i>elongatus</i>
<i>Acrostichum quereifolium</i>	<i>Euchalaena luxuriens</i>
„ <i>sorbifolium</i>	<i>Eulalia zebrina</i>
<i>Adiantum caudatum</i>	<i>Fagus Solandri</i>
<i>Albertus simplicifolius</i>	<i>Gemostoma ligustrifolia</i>
<i>Alsophilla Rebeckæ</i>	<i>Gentiana Walugeri</i>
„ <i>Leichardtiana</i>	<i>Griselinia littoralis</i>
<i>Anogeissus latifolia</i>	<i>Hamanthus Catherina</i>
<i>Aotus gracillima</i>	<i>Hedera Madariensis variegata</i>
<i>Aphelaxis macrantha purpurea</i>	<i>Hedysarum neglectum clatum</i>
„ <i>rupestris grandiflora</i>	<i>Heleborus albus</i>
<i>Aristea Ecklonii</i>	„ <i>albus Otto</i>
<i>Aspidium arguta proliferum</i>	„ <i>atropurpureus</i>
„ <i>confluens</i>	„ <i>lividus</i>
„ <i>varium</i>	„ <i>niger major</i>
<i>Asplenium lessertifolium</i>	„ <i>roseus pallidus</i>
<i>Asparagus virgata</i>	<i>Hymenanthera Chatamica</i>
<i>Astelia grandis</i>	<i>Ilex Cassina</i>
„ <i>nervosa</i>	<i>Iris prismatocarpus</i>
<i>Atragene Alpina</i>	<i>Kennedia glabrata</i>
<i>Atriplex halameoides</i>	<i>Larix leptolepis</i>
„ <i>verrucosum</i>	<i>Lastrea glabellum</i>
<i>Bauhinia tomentosa</i>	<i>Lippia repens</i>
<i>Bossia linophylla</i>	<i>Littonia modesta</i>
<i>Buckinghamia populnea</i>	<i>Lonicera ruprechtiana</i>
<i>Callistemon speciosus</i>	<i>Lophospermum coccineum</i>
<i>Callixema parviflora</i>	<i>Lunaria biennis</i>
<i>Camellia reticulata</i>	<i>Lycopodium Billardieri</i>
<i>Campanula barbata alba</i>	„ <i>plegmaria</i>
„ <i>Siberica eximea</i>	<i>Macroglossa albescent</i>
„ <i>turbinata</i>	<i>Maurandya alba</i>
<i>Campsidium filicifolium</i>	<i>Medicago articularis</i>
<i>Carmichaelia Erysii</i>	<i>Melicytus ramiflorus</i>
<i>Caryota Rumphii</i>	<i>Metrosideros lucida</i>
<i>Celmisia coriacea</i>	<i>Myrsine Australis</i>
„ <i>holosericea</i>	„ <i>divaricata</i>
„ <i>petiolata</i>	<i>Myrtus obcordata</i>
„ <i>spectabilis</i>	<i>Nesodaphne Tawa</i>
<i>Coprosma fetidissima</i>	<i>Nicotiana longiflora</i>
<i>Corum alba</i>	<i>Olearea angustifolia</i>
„ <i>alternifolia</i>	„ <i>Colensoi</i>
„ <i>brachypoda</i>	„ <i>nitida</i>
<i>Cyathea Gardnerii</i>	„ <i>operima</i>
<i>Danthonia flavescens</i>	„ <i>Traillii</i>
<i>Dicksonia lanata</i>	<i>Ourisea macrophylla</i>
<i>Dictymia lanceolata</i>	<i>Oxybaphus himalensis</i>
<i>Doronicum Caucasicum</i>	<i>Oxytropis ochroleuca</i>



Panax simplex  
 Pancrateum amœnum  
     " Caribbeum  
 Panicum variegatum  
 Petalostemon Canadensis  
 Pentstemon diffusus  
 Phoenix farinifera  
 Phaseolus Caracalla  
 Phegopteris refracta  
 Phytuma orbiculare  
     " Schencherii  
 Piteairnia flavescens  
     " integrifolia  
 Pittosporum erioloma  
 Plagianthus Lyallii  
 Polypodium Richardii  
     " sorbifolium  
 Prunus Pisardi  
 Pteris lepidophylla  
     " umbrosa  
 Pyrus prunifolia cerasiformis  
 Ranunculus Lyalli  
 Rhus aromatica  
 Ribes saxatilis  
 Sanguisorba alpina

Saracenia variolaris  
 Saxifraga intermedia  
     " nivalis  
 Scrophularia laterifolia  
     " vernalis  
 Sempervivum Laggeri  
 Senecio compacta  
     " eleagnifolia  
     " Hectori  
     " Muellieri  
     " saxifragioides  
     " sciadophyllum  
 Sesamum prostratum  
 Solandra grandiflora  
 Spiraea amurensis  
     " laevigata  
     " Media  
 Statice leptostachya  
 Stilvocrarpus polaris  
 Tarratula coronata  
 Tecoma rosea  
 Teletia speciosa  
 Thysacanthus multiflorus  
 Weinmannia racemosa  
 Xylomelum reticulata

#### *Camellia.*

Adela Pelegi Medici  
 Belle de Fontcari  
 Bonimiana  
 Comte de Gomer  
 Comtesse Callina  
 Cup of Beauty  
 C. H. Hovey  
 Don Pedro

Flag of Truce  
 Harriet Beecher Sheather  
 Lady St. Clair  
 Madame A. Verschaffelt  
 Madame Abbe Mea  
 Prince Frederick William  
 Tabbs  
 Verschaffeltii

#### *Azalea.*

Bijou de Paris  
 Charles de Buck  
 Dame Melanie  
 Princess Charlotte  
 Helene Theleman

Imperatrice Charlotte  
 Madlle. Marie Van Houtte  
 Orango Brilliant  
 President Raphael de Smot  
 Triomph de Dbl. Blanc

#### *Roses.*

Amelia Hoste  
 Beauty of Greenmount  
 Comtesse Janconet  
 Dr. Berthet  
 Etoile de Lyon  
 Gloire de Bourg la Reine  
 Homer  
 Imperatrice Charlotte  
 Jules Finger  
 La Boule d'Or  
 Madame Justure  
 Madame Place  
 Marie Leonida

Marie Louise Pernet  
 Masterpiece  
 Merveille de Lyon  
 Mons. Cordier  
 Mons. Furtado  
 Paul Jamin  
 Prince Humbert  
 Queen of Queens  
 Souvenir d'Amiens  
 Souvenir Mdm. Rosceaux  
 Ulrich Brummer Fils  
 Vivelina  
 William Allan Richardson

*Fuchsias.*

Aurora Superba	Minerva
Avalanche (Henderson's)	Mrs. Marshall
Baroness	Mrs. Rundle
Boliviana	Phenomenon
Canary Bird	Progress
Crimson Bedder	Startler
Glory	Sylvanus
Harlequin	Tower of London
John Gibson	Triton
Lady Brideport	Try me O
Mdm. J. Chretien	Warrior Queen
Marvellous	White Giant

*Pelargoniums.*

Alfonso	Marsus
Ameythyst	Nabob
Arisha	Nelly Hayes
Dolphin	Ondine
Gidour	Pension
Grison	Rustic
Hector	Sportsman
Instance	Telemon
Lauretta	The Baron
Leonard	Treasure
Lessee	

*Pelargoniums (Fancy).*

Animation	Jewel
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*Pelargoniums (Regal).*

Duke of Bedford	Princess Beatrice
Elegantissima	Regalia
Mdm. Ch. Konig	Sultan

*Pelargoniums (Ivy-leaved).*

Isador Feral	Jeanne d'Arc
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*Dahlias.*

40 named varieties.

*Chrysanthemums.*

80 named varieties.

## FRUITS.

*Apples.*

Ben Davis	Grange's Pearmain
Fallwater	Reinette Rouge Hiver
Golden Spire	Willis's Red

*Apricot.*

Pine Apple.

*Peaches.*

Belle Bauce	Grey's late Cling
Biggs's late May	Monstreuse de Douay
Desse Tardive	Red Nectarine Peach
Early Silver	Seedling China

*Cherry.*  
Bohemian Black

*Currant.*  
Black Grape

Beurre Bachelier		Colmar de Jonghe
Beurre de l'Assumption		

*Grape Vines.*

Baxter's Sherry		Royal Ascot
Bell's Seedling.		Shipland's Reisling
Chaptal		Waltham Cross
Chasselas Musque		White Allicant
Golden Chasselas		White Morillon
La Mamelon		White Sherry

EXCHANGES PLANTS, SEEDS, &c. DURING THE YEAR 1885.

*February :*

- From C. F. Creswell—Collection imported bulbs, about 300 varieties.
- From Miss Brumby, Old Beach—8 packets seeds, Australian.
- From Messrs. Heyne & Co., Adelaide—3 varieties boronia seed.
- From Baron Ferd. Von Mueller, Victoria—14 packets seeds.
- From Miss Woodin—Seeds Japan coniferæ and lily bulbs.

*March :*

- From Messrs. Van Gert, Belgium—5 varieties seeds, coniferæ.
- From Mr. Wm. Bull, London—32 packets seeds ; 2 bulbs.
- From Miss Woodin, Hobart—25 packages seeds, Japan.

*April :*

- From the Botanic Gardens, Madras—16 packets seeds.
- From Botanic Gardens, Saharanpur, India—Seeds, abies dumosa.

*May :*

- From the Botanic Gardens, Queensland—Case plants.
- From Baron Ferd. Von Mueller, Victoria—135 packets seeds.
- From Dr. R. Schomburgk, Botanic Gardens, Adelaide—25 packets seeds.
- From Mr. G. Brunning, Nurseryman, St. Kilda—Case containing 45 plants.

*June :*

- From Agri-Horti Society, Madras—Seeds podocarpus.

*July :*

- From Mr. S. Purvis, Swanport—Plants, encryptica ; seeds, telopea.
- From Royal Botanic Gardens, Kew, London—Seeds, Buckinghamia populnea.
- From Mr. Ch. Traill, Stewart Island, N.Z.—Case containing 38 plants.
- From Botanic Garden, Cape Town—Seeds, Pentzia virgata.
- From Messrs. Shepherd & Co., Sydney—Case containing 60 plants.
- From Botanic Gardens, Bombay—Packet seeds.
- From Mr. S. Purchase, Parramatta—36 dahlia roots.

*August :*

- From Mr. J. Smith, sen., Riddell's Creek, Victoria—Case plants.
- From Botanic Gardens, Jamaica—Package seeds.
- From Mr. Elliott, Hobart—14 packages seeds.
- From Mr. Emmet, Hobart—Seeds waratah.

*September :*

- From Mr. J. Latham—24 plants.
- From Mr. S. Purchase, Parramatta—Case plants.
- From Messrs. Shepherd & Co., Sydney—14 plants.
- From Mrs. Archer, Hobart—Seeds.
- From Mr. C. Sprent—Imported seeds.

*October :*

- From Mr. Wm. Bull, New Plant Merchant, London—Case chrysanthemums, 103 sorts.
- From the Botanic Gardens, Christchurch, New Zealand—Case plants.
- From Baron Ferd. Von Mueller, Victoria—1 packet seeds ; 1 bulb.
- From Agri-Horti Society, Madras—Seeds *Phoenix paludosa*.

*November :*

- From Botanic Gardens, Calcutta—7 packets seeds.
- From Mr. H. T. Manning, Hobart—7 packets seeds, New Caledonia.
- From the Royal Gardens, Kew, London—Seeds *Phoenix paludosa*.

*December :*

- From Messrs. Vilmorin & Andrienx, Paris—26 packets seeds.
  - From Agri-Horti Society, Madras—Packet seeds.
  - From Messrs. Law, Somner, & Co., Melbourne—Case containing 66 plants.
  - From Baron Ferd. Von Mueller, Victoria—3 packets seeds.
  - From Miss Woodin, Hobart—Seeds *Rhodoleia championi*.
  - From Mr. S. Probin, Hobart—*Fuchsia* and *Pelargonium* plants.
- 

*February :*

- To Messrs. Law, Somner & Co., Melbourne : 2 mats sphagnum.

*March :*

- To Mr. Wm. Bull, London : 10 small tree ferns.
- To Dr. R. Schomburgk, Adelaide : 2 mats sphagnum.

*May :*

- To Mr. J. Smith & Sons, Riddell's Creek, Victoria : 2 mats sphagnum.
- To Messrs. Law, Somner & Co., Melbourne : 2 mats sphagnum.

*June :*

- To Mr. G. Brunning, St. Kilda : box plants and cuttings.

*July :*

- To Messrs. Shepherd & Co., Sydney : 2 mats sphagnum.
- To Baron Ferd. Von Mueller, Victoria : 286 packets seeds.
- To Messrs. Shepherd & Co., Sydney : 150 packets seeds.
- To Mr. G. Brunning, St. Kilda : 40 packets seeds.

*August :*

- To Messrs. Vilmorin & Andreux, Paris : 30 packets seeds.
- To August Van Gert, Belgium : 18 packets seeds.
- To Mr. Wm. Bull, London : 16 packets seeds.
- To the Royal Gardens, Kew, London : 18 packets seeds.
- To the Botanic Gardens, Calcutta : 24 packets seeds.
- To the Botanic Gardens, Saharanpur, India : 20 packets seeds.
- To the Forest Board, Madras, India : 26 packets seeds.
- To Mr. J. Smith & Sons, Riddell's Creek, Victoria : case plants.
- To Mr. C. Traill, Stewart Island, N.Z. : case, 43 plants.
- To the Botanic Gardens, Christchurch, N.Z. : case, 40 plants.
- To Mr. S. Purchase, Parramatta : package seeds.
- To the Botanic Gardens, Melbourne : 2 mats sphagnum moss.

*September :*

- To the Botanic Gardens, Cape Town, South Africa : collection seeds.
- To the Chamber Agriculture, U. S. America : collection seeds.
- To Messrs. Smith & Adamson, Melbourne : 4 packets seeds.
- To Mr. L. Boehmer, Japan : collection seeds.
- To Miss Owen, Ireland : collection seeds.
- To Conservator Forests, Punjab : seeds eucalypti.
- To Mrs. Oliver, New Plymouth, N.Z. : collection seeds.
- To C. Moore, Botanic Gardens, Sydney : 2 mats sphagnum.
- To Messrs. Shepherd & Co., Sydney : case plants.
- To B. F. Wellington, San Francisco : Seeds eucalypti.

*October :*

- To Mr. C. F. Creswell : plants, chrysanthemums, &c.

*December :*

- To Messrs. Law, Sonner & Co. : case chrysanthemums.
- To Messrs. E. B. Heyne, Adelaide : 90 packets seeds.
- To Mr. Wm. Bull, London : case araucaria excelsa.

F. ABBOTT.

T FOR 1885.

ed to 32° Fahrenheit, and reduced to Sea Level.

YE	RAIN.		PREVAILING WINDS.				CLOUDS.	
	Total Fall.	No. of days Rain fell.	Direction.		Force.	Amount.		
18	Inches.				(0-12)	(0-10.)		
January . 88	2.40	14	S. & N.N.W.		2.3	6.7		
February . 80	1.97	18	S.S.E. & N.N.W.		2.0	7.6		
March . 77	3.51	17	S.S.W. & N.W.		2.3	7.0		
April . 85	0.70							
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# SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT HOBART FOR 1885.

Latitude, 42° 25' S. Longitude, 147° 20' E. Height of Observatory above Sea Level, 150 feet. Barometer corrected to 32° Fahrenheit, and reduced to Sea Level.

YEAR.	BAROMETER.	THERMOMETER 12 FEET.				RADIATION.		HUMIDITY.		RAIN.	PREVAILING WINDS.		CLOUDS.
		Mean.	Maximum.	Minimum.	Mean.	Solar Max.	Terrestrial Min.	Dew Point.	Electric Force of Atmosphere.		Direction.	Force.	
1885.													
January	29.652	85.0	79.5	41.7	52.1	15.4	63.8	54.0	103	0.88	S. & N. W.	8.31	5.0
February	29.638	85.0	80.1	42.8	54.2	15.0	61.5	52.0	105	0.84	S. & N. W.	2.4	6.5
March	29.635	82.0	85.3	41.2	63.8	17.0	58.5	53.0	107	0.77	S. & N. W.	2.0	7.0
April	29.651	74.0	81.2	34.7	60.9	16.3	54.0	48.5	105	0.82	S. & N. W.	1.0	7.0
May	29.620	70.8	72.2	35.7	52.9	14.2	52.2	41.0	100	0.92	S. & N. W.	2.0	7.0
June	29.637	69.0	72.0	29.8	39.5	13.5	45.7	31.0	105	0.97	S. & N. W.	2.0	6.0
July	29.610	58.4	61.5	20.2	34.2	16.3	41.2	26.0	105	0.89	S. & N. W.	2.0	4.0
August	29.671	71.0	56.5	32.0	41.0	14.9	40.5	32.0	107	0.78	S. & N. W.	2.3	6.0
September	29.601	69.3	75.5	30.8	42.8	14.7	31.2	27.0	105	0.95	S. & N. W.	2.0	7.0
October	29.608	82.0	81.1	33.7	51.4	15.4	46.0	42.0	102	0.84	S. & N. W.	2.0	8.0
November	29.608	86.2	84.1	37.0	47.4	17.0	56.6	46.0	95	0.82	S. & N. W.	2.0	7.0
December	29.601	91.0	89.1	44.3	52.8	16.3	61.6	53.0	93	0.70	S. & N. W.	2.0	6.8
Mean	29.645	..	81.4	..	45.7	15.7	54.6	..	48.15	0.91	S. & N. W.	2.2	6.8
Extremes	29.591	Dec. 8	91.0	July 1	20.2	..	..	Dec. 8	103	0.70	..	..	..

## EPITOME OF RESULTS OF METEOROLOGICAL OBSERVATIONS AT THE DIFFERENT STATIONS FOR THE YEAR 1885.

STATIONS.	BAROMETER.	THERMOMETER, 12 FEET.				RADIATION.		HUMIDITY, MEAN.		RAIN.	PREVAILING WINDS.		CLOUDS.
		Mean.	Maximum.	Minimum.	Mean.	Solar Max.	Terrestrial Min.	Dew Point.	Electric Force of Atmosphere.		Direction.	Force.	
Southport	29.609	84.0	80.0	42.7	52.6	15.9	..	..	..	117	S. & N. E.	2.8	..
Hobart	29.643	91.0	81.4	29.5	54.0	15.3	..	..	..	120	S. & N. W.	2.2	..
Outland	29.641	87.0	80.0	39.3	51.4	15.2	..	..	..	72	S. & N. W.	0.2	..
Tahamont	29.692	91.0	82.0	37.0	54.0	14.3	..	..	..	101	S. & N. W.	2.2	..
Launceston	29.618	81.0	81.5	24.5	51.0	15.0	..	..	..	102	S. & N. W.	1.8	..
Low Head	29.623	89.3	89.3	31.5	74.4	18.4	..	..	..	128	S. & N. W.	3.3	..
Circular Head	29.621	77.5	81.2	28.0	45.0	14.0	..	..	..	101	S. & N. W.	3.3	..
Cornwall	29.626	86.0	82.6	34.1	44.0	15.7	..	..	..	116	S. & N. W.	2.0	..

## MEAN AND EXTREME RESULTS FOR THE YEAR 1885.

From Observations taken at Hobart.

### Barometer—

Highest reading .. 29.652 inches, on 18th April.  
Lowest ditto .. 29.591 inches, on 14th August.  
Range for the year .. 0.061 inches.

### Thermometer—

Radiation, Solar, maximum .. 15.9, on 8th December.  
Ditto, Terrestrial, minimum .. 20.2, on 22nd July.  
Maximum in the shade .. 91.0, on 8th December.  
Minimum ditto .. 20.2, on 1st January.  
Range for year .. 70.8 inches.  
Highest mean daily reading for one month .. 63.8, in July.  
Lowest ditto .. 34.2, in July.

### Humidity—

Mean maximum for one month (saturation = 100) .. 48.15, in July.  
Minimum for the year .. 31.2, in July.

### Condensation—

Total for the year .. 28.20 inches.  
Total Number of Rainy Days .. 176  
Maximum fall for one month .. 7.30 inches, December.  
Minimum ditto .. 0.78 inches, April.  
Maximum fall in 24 hours .. 3.70 inches, 20 November.

## RAINFALL IN TASMANIA DURING THE YEAR 1885.

Showing the Latitude and Longitude, and Distance from the Sea Coast of each Station, and Number of Days Rain fell during each Month, and Total Rainfall.

Name of Station.	Latitude, South.	Longitude, East.	Distance from Sea Coast.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.		JULY.		AUGUST.		SEPT.		OCTOBER.		NOVEMBER.		DECEMBER.		TOTAL.	
				Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.		Wet Days.			
				Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.		
Southport	43 26	0 147 1	0	15	1.50	10	1.82	11	1.18	12	3.07	7	0.51	8	0.80	11	1.28	8	0.66	15	0.88	15	4.25	6	0.96	15	8.81	156 120	
Franklin	43 5	0 147 3	0	10	1.10	10	2.84	20	3.57	10	6.01	11	1.31	10	1.11	15	3.50	10	1.10	15	3.75	10	5.01	10	1.10	15	1.10	107 107	
Mount Nelson	42 55	0 147 21	0	7	14	2.53	15	3.01	10	3.42	7	0.85	9	1.00	9	1.57	5	0.78	10	0.81	15	3.71	6	2.22	11	7.40	211 122		
Clarence Plains	44 8	0 147 24	0	11	3.06	14	2.00	11	2.39	6	0.75	6	0.75	6	0.75	10	1.02	10	0.62	10	0.62	10	0.62	10	0.62	10	0.62	112 112	
Hobart	42 33	0 147 21	0	10	2.10	18	1.97	17	3.51	7	0.78	14	0.89	17	1.76	17	0.93	18	1.17	17	4.12	10	1.13	15	7.39	11	1.72	176 28.2	
Begonia	42 52	0 147 20	0	10	1.82	11	1.18	12	3.07	7	0.51	8	0.80	11	1.28	8	0.66	15	0.88	15	4.25	6	0.96	15	8.81	8	1.56	120 81	
New Norfolk	42 37	0 146 56	0	12	3	1.93	10	1.34	4.62	1	0.56	12	0.84	10	1.12	7	0.79	10	1.10	15	3.50	6	0.96	15	8.81	5	1.44	120 20.0	
Richmond	42 45	0 147 30	0	10	2.80	15	1.41	15	3.57	1	0.50	8	0.95	8	1.40	5	0.64	12	0.77	10	2.70	8	1.05	15	5.80	9	1.98	107 41.15	
Geelong Plains	42 8	0 147 53	0	2	11	3.98	21	4.08	15	6.02	12	1.85	17	2.84	15	0.56	15	2.42	13	1.63	10	2.70	10	1.56	15	7.61	11	1.99	172 1.70
Sand Bay	42 8	0 148 7	0	10	2.80	5	2.35	4	2.80	3	0.75	5	0.95	3	1.41	5	0.91	4	0.71	9	2.20	8	1.42	3	2.75	107 1.70			
Hamilton	42 31	0 146 02	0	30	11	1.97	7	1.29	11	4.12	1	0.22	11	1.38	12	1.50	7	0.63	11	1.56	16	3.57	9	1.16	12	4.27	8	1.98	115 3.9
Macquarie Plains	42 43	0 147 2	0	38	8	2.18	13	2.84	4	0.65	8	0.65	8	1.20	9	1.48	8	0.95	5	0.95	9	1.59	5	0.94	9	4.30	1	1.62	79 2.5
Outland	42 18	0 147 24	0	30	6	2.72	10	1.98	11	4.12	1	0.22	11	1.38	12	1.50	7	0.63	11	1.56	16	3.57	9	1.16	12	4.27	7	1.98	115 3.9
Campbell Town	41 56	0 147 24	0	30	6	2.72	10	1.98	11	4.12	1	0.22	11	1.38	12	1.50	7	0.63	11	1.56	16	3.57	9	1.16	12	4.27	7	1.98	115 3.9
Finch	41 40	0 147 48	0	13	6	2.37	8	1.91	9	4.16	3	0.52	6	1.01	11	1.45	5	1.08	13	2.21	8	1.47	7	0.60	13	3.46	6	1.01	87 1.7
Kellys, Finch	41 35	0 148 10	0	9	0	1.85	12	1.43	11	1.83	7	0.92	6	1.41	12	3.94	8	0.43	8	1.56	13	4.15	7	0.60	10	4.29	2.66	163	100 10.0
Geelong Plains	41 32	0 148 1	0	10	3	1.93	10	1.34	4.62	1	0.56	12	0.84	10	1.12	7	0.79	10	1.10	15	3.50	6	0.96	15	8.81	5	1.44	120 20.0	
Bushyella	40 13	0 148 0	0	13	5	2.16	13	6.02	12	3.15	5	1.19	11	1.60	12	3.94	8	0.43	8	1.56	13	4.15	7	0.60	10	4.29	2.66	163	100 10.0
Low Head	41 30	0 147 50	0	11	3	2.80	6	1.42	2.50	5	1.10	7	2.40	12	6.06	6	1.56	17	6.04	13	4.25	6	2.10	5	0.71	9	3.21	37 112	
Lawson	41 14	0 146 35	0	23	7	1.61	8	1.79	12	3.74	1	0.14	9	2.85	12	4.26	8	0.43	12	3.94	13	4.89	7	1.42	8	1.70	4	2.82	135 2.66
Deer Creek	41 30	0 147 10	0	23	7	1.61	8	1.79	12	3.74	1	0.14	9	2.85	12	4.26	8	0.43	12	3.94	13	4.89	7	1.42	8	1.70	4	2.82	135 2.66
Extrem	41 14	0 146 35	0	23	7	1.61	8	1.79	12	3.74	1	0.14	9	2.85	12	4.26	8	0.43	12	3.94	13	4.89	7	1.42	8	1.70	4	2.82	135 2.66
Finch Bay	41 14	0 146 35	0	23	7	1.61	8	1.79	12	3.74	1	0.14	9	2.85	12	4.26	8	0.43	12	3.94	13	4.89	7	1.42	8	1.70	4	2.82	135 2.66
Brownish Hill	41 15	0 145 46	0	15	5	2.51	15	3.63	10	1.96	10	1.39	16	6.13	16	6.34	15	5.02	15	6.66	9	2.76	7	2.76	1	2.76	1	2.76	153 153
East Bay	41 26	0 145 34	0	28	21	3.94	23	7.96	10	3.80	21	11.32	23	3.50	21	11.32	23	6.17	20	6.63	14	3.47	4	2.76	4	2.76	4	2.76	153 153
West Bay	41 26	0 145 34	0	28	21	3.94	23	7.96	10	3.80	21	11.32	23	3.50	21	11.32	23	6.17	20	6.63	14	3.47	4	2.76	4	2.76	4	2.76	153 153
East Bay	41 14	0 145 34	0	28	21	3.94	23	7.96	10	3.80	21	11.32	23	3.50	21	11.32	23	6.17	20	6.63	14	3.47	4	2.76	4	2.76	4	2.76	153 153
East Bay	41 14	0 145 34	0	28	21	3.94	23	7.96	10	3.80	21	11.32	23	3.50	21	11.32	23	6.17	20	6.63	14	3.47	4	2.76	4	2.76	4	2.76	153 153