

XVII. *On the Physiological Action of the Bark of Erythrophleum Guinense, generally called Casca, Cassa, or Sassy Bark.* By T. LAUDER BRUNTON, M.D., F.R.S., and WALTER PYE, Esq. page 627

XVIII. *Further Observations on the Locomotor System of Medusæ.* By GEORGE J. ROMANES, M.A., F.L.S., &c. Communicated by Professor HUXLEY, LL.D., Sec. R.S. 659

Index 753

ERRATA.

Page 464, line 19. Aji Bārang, for Lat. 2° 25' S. read 7° 25' S.

Page 475, line 2. Declination. At sea—Lat. 17° 15' S., Long. 292° 45' E. should be expunged.

XIII. *Contributions to Terrestrial Magnetism.*—No. XV.

By General Sir EDWARD SABINE, R.A., K.C.B., F.R.S.

Received June 14,—Read June 15, 1876.

[PLATES 17-19.]

THE paper now offered to the Society forms the XVth and last of a series of papers printed in the Philosophical Transactions, entitled “Contributions to Terrestrial Magnetism.” The whole Fifteen Numbers are related to each other as “Contributions to the Magnetic Survey of the Globe.” Four of them (viz. XI., XIII., XIV., and the present paper) contain the complete statement of this Survey in the double form of “Catalogue” or “Tables” and of “Magnetic Maps;” of these maps there are twelve, one for each of the three magnetic elements in each of the four papers. The present paper consists (as did its last predecessor, No. XIV.) of four zones, each 10° in breadth:—

Zone 1,	comprehending	from the equator	to 10° S.	
Zone 2,	„	„	lat. 10° S.	„ 20° S.
Zone 3,	„	„	lat. 20° S.	„ 30° S.
Zone 4,	„	„	lat. 30° S.	„ 40° S.

In the Tables the observations are entered in each zone in the succession of their longitudes, beginning with the meridian of Greenwich. The statements in the introduction to No. XIII. regarding the different magnetic elements apply to the present paper, as they did also to the preceding paper (No. XIV.).

The question of correction for secular change next presents itself. Happily the greater part of the observations were made within, or very near to, the “mean epoch,” viz. 1840–1845. Sea observations were not generally corrected for differences of epoch in the previous papers; but in the present paper such corrections have been introduced for observations within the range of places (land stations) where the rate of secular change has been sufficiently established.

Nos. XI. & XIII., published earlier, comprise the northern and southern portions of the globe, from either pole to lat. 40° . These are the regions which have long been recognized as offering to the magnetician at once the most arduous and the most important field of research. In the middle or equatorial portions of the globe, comprised in the last and present papers, the magnetic relations are simpler, and the laying down of the lines representing them derives much aid from the adjacent portions of the North and South Polar Maps. Therefore, both as regards observations and treatment, less abundant as well as less exact evidence may, it may be hoped, suffice.

SOUTH EQUATORIAL ZONE I.—Equator to 10° S.

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.	
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.		
Anno Bona	0 28	5 38	1829	21 01 w.	.....	21 0 w.	.....	.....	.....	.....	.....	.....	Boteler.
Cape Lopez	0 36	8 40	1826	19 48 w.	.....	19 8 w.	.....	.....	.....	.....	.....	.....	Owen.
Magumba	3 23	10 35	1826	21 24 w.	.....	21 4 w.	.....	.....	.....	.....	.....	.....	Owen.
Loango	4 40	11 42	1826	20 36 w.	.....	20 6 w.	.....	.....	.....	.....	.....	.....	Owen.
St. Paul de Loanda ...	8 46	13 09	1825	22 00 w.	.....	22 0 w.	.....	.....	.....	.....	.....	.....	Owen.
Congo River	6 05	13 12	1826	21 42 w.	.....	21 7 w.	.....	.....	.....	.....	.....	.....	Owen.
Assumption Island ...	9 46	46 28	1824	12 54 w.	.....	12 9 w.	.....	.....	.....	.....	.....	.....	Owen.
Providence Island.....	9 14	51 05	1824	8 54 w.	.....	8 9 w.	.....	.....	.....	.....	.....	.....	Owen.
Seychelles	4 36	55 31	1825	6 30 w.	.....	6 5 w.	.....	.....	.....	.....	.....	.....	Owen.
			1830	7 31 w.	7 5 w.	Laplace.
			1842	2 01 w.	2 0 w.	5 3 w.	Belcher.
At sea (2 observations)	9 39	81 52.	1837	0 25 w.	.....	0 4 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	7 37	82 52	1857	0 19 w.	.....	0 3 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea (5 observations)	0 39	82 52	1857	0 29 E.	.....	0 5 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea (2 observations)	7 06	83 33	1837	0 48 E.	.....	0 8 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (2 observations)	1 35	83 40	1857	0 16 E.	.....	0 3 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea (2 observations)	2 32	84 05	1857	0 50 E.	.....	0 8 E.	.....	.....	.....	.....	.....	.....	Novara.
Balembangan	0 12	100 10	1847	1 37 E.	.....	1 6 E.	16 47 s.	.....	16 8 s.	.....	.....	.....	Elliot.
Peesang	0 08	100 12	1847	1 47 E.	.....	1 8 E.	16 33 s.	.....	16 5 s.	.....	.....	.....	Elliot.
Bonjol	0 01	100 14	1847	1 36 E.	.....	1 6 E.	16 39 s.	.....	16 7 s.	.....	.....	.....	Elliot.
Menindjo	0 13	100 14	1847	1 32 E.	.....	1 5 E.	17 01 s.	.....	17 0 s.	.....	.....	.....	Elliot.
Fort de Kock.....	0 13	100 27	1847	1 09 E.	.....	1 1 E.	17 00 s.	.....	17 0 s.	.....	.....	.....	Elliot.
Padang	0 59	100 31	1847	1 24 E.	.....	1 4 E.	18 32 s.	.....	18 5 s.	8 40	.....	8 40	Elliot.
Padang Panjang	0 22	100 43	1847	1 34 E.	.....	1 6 E.	17 48 s.	.....	17 8 s.	.....	.....	.....	Elliot.
Solok	0 47	100 56	1847	1 39 E.	.....	1 7 E.	17 51 s.	.....	17 9 s.	.....	.....	.....	Elliot.
Fort Vande Capellen...	0 28	101 03	1847	1 28 E.	.....	1 5 E.	17 12 s.	.....	17 2 s.	.....	.....	.....	Elliot.
Payacombo	0 13	101 05	1847	1 30 E.	.....	1 5 E.	16 38 s.	.....	16 6 s.	.....	.....	.....	Elliot.
Bua Pānjāng	0 28	101 08	1847	1 22 E.	.....	1 4 E.	17 11 s.	.....	17 2 s.	.....	.....	.....	Elliot.
Sijonjong	0 42	101 20	1847	1 22 E.	.....	1 4 E.	17 50 s.	.....	17 8 s.	.....	.....	.....	Elliot.
At sea (2 observations)	8 49	101 33	1851	0 24 w.	.....	0 4 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (2 observations)	7 58	102 19	1826	0 22 w.	.....	0 4 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
Bencoolen	3 54	102 29	1847	1 05 E.	.....	1 1 E.	23 54 s.	.....	23 9 s.	8 66	.....	8 66	Elliot.
At sea (2 observations)	7 30	102 44	1851	0 17 w.	.....	0 3 w.	.....	.....	.....	.....	.....	.....	Kellett.
Lingim	0 12	104 37	1846	1 19 E.	.....	1 3 E.	.....	.....	.....	.....	.....	.....	Elliot.
At sea (2 observations)	9 21	105 17	1829	1 13 w.	.....	1 2 w.	.....	.....	.....	.....	.....	.....	Lütke.
Lampungo.....	5 26	105 20	1847	1 13 E.	.....	1 2 E.	26 16 s.	.....	26 3 s.	8 83	.....	8 83	Elliot.
Cheringin	6 22	105 47	1846	0 51 E.	.....	0 9 E.	27 34 s.	.....	27 6 s.	8 90	.....	8 90	Elliot.
Chebiliang	6 47	105 49	1846	0 21 E.	.....	0 3 E.	28 41 s.	.....	28 7 s.	8 83	.....	8 83	Elliot.
Palambangan.....	6 31	105 55	1846	0 59 E.	.....	1 0 E.	28 09 s.	.....	28 1 s.	8 91	.....	8 91	Elliot.
Anjeer	6 03	106 00	1842	1 07 E.	.....	1 1 E.	26 38 s.	.....	26 6 s.	.....	.....	.....	Belcher.
			1846	0 58 E.	1 0 E.	26 32 s.	26 5 s.	26 6 s.	8 82	8 82	Elliot.
At sea (5 observations)	2 08	106 00	1824	0 36 w.	.....	0 6 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (2 observations)	0 18	106 01	1841	.....	.....	.....	13 50 s.	.....	13 8 s.	.....	.....	.....	Stanley.
Gonong Dādap	6 28	106 06	1846	0 53 E.	.....	0 9 E.	27 32 s.	.....	27 5 s.	8 96	.....	8 96	Elliot.
Chelangahan	6 54	106 07	1846	0 14 E.	.....	0 2 E.	28 24 s.	.....	28 4 s.	8 84	.....	8 84	Elliot.
Woorong Goonong ...	6 11	106 10	1846	0 40 E.	.....	0 7 E.	27 33 s.	.....	27 5 s.	8 92	.....	8 92	Elliot.
At sea (5 observations)	4 34	106 13	1845	1 45 E.	.....	1 7 E.	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
Ceram	6 07	106 15	1846	0 34 E.	.....	0 6 E.	27 14 s.	.....	27 2 s.	8 83	.....	8 83	Elliot.
Pangangbahan	7 31	106 19	1846	0 10 E.	.....	0 2 E.	29 44 s.	.....	29 7 s.	9 11	.....	9 11	Elliot.
At sea (2 observations)	1 25	106 25	1858	1 00 E.	.....	1 0 E.	.....	.....	.....	.....	.....	.....	Novara.
Chebrānok	6 57	106 26	1846	0 35 E.	.....	0 6 E.	28 31 s.	.....	28 5 s.	9 01	.....	9 01	Elliot.
Chilotoe.....	7 11	106 27	1846	0 28 E.	.....	0 5 E.	28 54 s.	.....	28 9 s.	9 02	.....	9 02	Elliot.
At sea (2 observations)	4 41	106 34	1842	.....	.....	.....	22 47 s.	.....	22 8 s.	.....	.....	.....	Belcher.
Wyn Cooper's Bay	7 05	106 37	1846	0 32 E.	.....	0 5 E.	29 22 s.	.....	29 4 s.	9 03	.....	9 03	Elliot.
Mooaro Chikasso	7 28	106 38	1846	0 13 E.	.....	0 2 E.	30 08 s.	.....	30 1 s.	9 04	.....	9 04	Elliot.
Knyper Island	6 02	106 41	1828	0 31 E.	.....	0 5 E.	25 33 s.	.....	25 5 s.	.....	.....	.....	Blosseville.
Karang Teugga.....	6 58	106 48	1846	1 13 E.	.....	1 2 E.	28 24 s.	.....	28 4 s.	9 02	.....	9 02	Elliot.
At sea (3 observations)	4 57	106 54	1858	0 26 E.	.....	0 4 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea (2 observations)	1 32	106 57	1842	.....	.....	.....	16 40 s.	.....	16 7 s.	.....	.....	.....	Belcher.
Batavia	6 10	106 58	1828	0 31 E.	.....	0 5 E.	25 56 s.	.....	25 9 s.	.....	.....	.....	Blosseville.
			1846	0 47 E.	0 8 E.	27 05 s.	27 1 s.	26 9 s.	8 87	8 87	Elliot.
			1858	1 05 E.	1 1 E.	27 35 s.	27 6 s.	Novara.

SOUTH EQUATORIAL ZONE I.—Equator to 10° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	
At sea (2 observations)	2 21	106 59	1858	1 42 E.	.....	1·7 E.	.....	.....	.....	.....	.....	.....	Novara.
Tegu	6 43	106 59	1846	0 12 E.	.....	0·2 E.	28 45 s.	.....	28·7 s.	.....	.....	.....	Elliot.
Pangerango	6 51	106 59	1846	.....	.....	.....	29 46 s.	.....	29·8 s.	.....	.....	.....	Elliot.
Bejong Petair	7 14	107 02	1846	0 16 E.	.....	0·3 E.	29 37 s.	.....	29·6 s.	9·11	.....	9·11	Elliot.
Sidang Bārang	7 30	107 10	1846	0 05 E.	.....	0·1 E.	30 15 s.	.....	30·3 s.	9·01	.....	9·01	Elliot.
Chunjūr	6 50	107 10	1846	1 35 E.	.....	1·6 E.	28 26 s.	.....	28·4 s.	8·97	.....	8·97	Elliot.
Bandong	6 56	107 41	1846	0 26 E.	.....	0·4 E.	28 34 s.	.....	28·6 s.	9·04	.....	9·04	Elliot.
Permangpek	7 39	107 45	1846	0 20 E.	.....	0·3 E.	30 15 s.	.....	30·3 s.	9·06	.....	9·06	Elliot.
Garoot	7 14	107 55	1846	0 25 E.	.....	0·4 E.	29 02 s.	.....	29·0 s.	9·06	.....	9·06	Elliot.
Samadang	6 51	108 05	1847	0 30 E.	.....	0·5 E.	28 00 s.	.....	28·0 s.	9·00	.....	9·00	Elliot.
Kandang Aur	6 24	108 05	1847	0 18 E.	.....	0·3 E.	.....	.....	.....	.....	.....	.....	Elliot.
Cherūgnūktok	7 38	108 10	1847	0 18 E.	.....	0·3 E.	30 11 s.	.....	30·2 s.	9·13	.....	9·13	Elliot.
Chāwee	7 10	108 23	1847	0 33 E.	.....	0·5 E.	28 42 s.	.....	28·7 s.	9·07	.....	9·07	Elliot.
Indramāyu	6 20	108 26	1847	0 41 E.	.....	0·7 E.	27 31 s.	.....	27·5 s.	8·96	.....	8·96	Elliot.
Cheribon	6 44	108 42	1847	0 32 E.	.....	0·5 E.	27 52 s.	.....	27·9 s.	.....	.....	.....	Elliot.
Banjeer	7 23	108 42	1847	0 28 E.	.....	0·5 E.	29 10 s.	.....	29·2 s.	.....	.....	.....	Elliot.
Kalipoochen	7 39	108 53	1847	0 58 E.	.....	1·0 E.	29 54 s.	.....	29·9 s.	9·12	.....	9·12	Elliot.
Chilāchap	7 44	108 57	1847	0 37 E.	.....	0·6 E.	29 46 s.	.....	29·8 s.	9·12	.....	9·12	Elliot.
Aji Bārang	2 25	109 04	1847	0 55 E.	.....	0·9 E.	27 22 s.	.....	27·4 s.	.....	.....	.....	Elliot.
Tegal	6 52	109 16	1847	0 38 E.	.....	0·6 E.	28 05 s.	.....	28·1 s.	9·01	.....	9·01	Elliot.
Kārang Bolong	7 46	109 27	1847	0 32 E.	.....	0·5 E.	29 56 s.	.....	29·9 s.	9·16	.....	9·16	Elliot.
Pantiānak	0 01	109 30	1846	1 31 E.	.....	1·5 E.	12 45 s.	.....	12·7 s.	8·33	.....	8·33	Elliot.
At sea (2 observations)	3 24	109 45	1841	.....	.....	.....	19 40 s.	.....	19·7 s.	.....	.....	.....	Stanley.
Succadāna	1 16	109 57	1846	1 23 E.	.....	1·4 E.	17 02 s.	.....	17·0 s.	8·46	.....	8·46	Elliot.
Munoori	7 35	110 04	1847	0 18 E.	.....	0·3 E.	29 21 s.	.....	29·3 s.	9·13	.....	9·13	Elliot.
Pulo Kumpal	2 44	110 07	1840	0 39 E.	.....	0·7 E.	19 49 s.	.....	19·8 s.	8·74	.....	8·74	Belcher.
Ambarawa	7 16	110 29	1847	0 33 E.	.....	0·5 E.	29 28 s.	.....	29·5 s.	9·15	.....	9·15	Elliot.
Samarang	7 00	110 31	1847	0 24 E.	.....	0·4 E.	27 05 s.	.....	27·1 s.	8·92	.....	8·92	Elliot.
Balembang	7 24	110 37	1847	.....	.....	.....	29 02 s.	.....	29·0 s.	.....	.....	.....	Elliot.
Japara	6 36	110 38	1847	0 25 E.	.....	0·4 E.	27 30 s.	.....	27·5 s.	8·98	.....	8·98	Elliot.
Solo	7 35	110 54	1847	0 36 E.	.....	0·6 E.	29 13 s.	.....	29·2 s.	9·12	.....	9·12	Elliot.
Patchitan	8 13	111 06	1847	0 20 E.	.....	0·3 E.	30 36 s.	.....	30·6 s.	9·16	.....	9·16	Elliot.
Nyāwee	7 24	111 29	1847	0 29 E.	.....	0·5 E.	29 00 s.	.....	29·0 s.	9·19	.....	9·19	Elliot.
Kedeeri	7 48	112 00	1847	0 28 E.	.....	0·5 E.	29 52 s.	.....	29·9 s.	9·12	.....	9·12	Elliot.
Bankāwa, Solo River	7 00	112 21	1847	0 29 E.	.....	0·5 E.	27 47 s.	.....	27·8 s.	9·07	.....	9·07	Elliot.
Soorabāya	7 16	112 45	1844	0 58 E.	.....	1·0 E.	28 48 s.	.....	28·8 s.	8·81	.....	.....	H.M.S. 'Fly.'
			1847	0 52 E.	.....	0·9 E.	28 53 s.	.....	28·9 s.	9·22	.....	.....	Elliot.
			1860	1 20 E.	.....	1·3 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (4 observations)	7 18	112 59	1860	1 15 E.	.....	1·2 E.	.....	.....	.....	.....	.....	.....	Denham.
Bezooke	7 43	113 43	1847	0 30 E.	.....	0·5 E.	27 08 s.	.....	27·1 s.	9·00	.....	9·00	Elliot.
Sūmenap	7 00	113 51	1847	0 44 E.	.....	0·7 E.	27 46 s.	.....	27·8 s.	9·10	.....	9·10	Elliot.
At sea (10 observations)	7 20	114 19	1845	0 46 E.	.....	0·8 E.	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
Solombo Island	5 35	114 23	1840	1 24 E.	.....	1·4 E.	24 16 s.	.....	24·3 s.	8·99	.....	8·99	Belcher.
At sea (4 observations)	8 22	114 41	1860	0 44 E.	.....	0·7 E.	.....	.....	.....	.....	.....	.....	Denham.
Kangelang Island	6 48	115 00	1825	0 00	.....	0·0	.....	.....	.....	.....	.....	.....	Bougainville.
Pulo Kuneang	6 52	115 17	1847	0 32 E.	.....	0·5 E.	27 26 s.	.....	27·4 s.	9·09	.....	9·09	Elliot.
At sea (2 observations)	9 14	115 39	1860	1 24 E.	.....	1·4 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	9 28	117 29	1860	1 00 E.	.....	1·0 E.	.....	.....	.....	.....	.....	.....	Denham.
Macassar	5 08	119 23	1840	0 29 E.	.....	0·5 E.	23 42 s.	.....	23·7 s.	8·98	.....	8·98	Belcher.
At sea	6 11	121 59	1824	1 00 E.	.....	1·0 E.	24 02 s.	.....	24·0 s.	.....	.....	.....	Duperrey.
At sea	8 25	124 19	1827	0 16 E.	.....	0·3 E.	.....	.....	.....	.....	.....	.....	D'Urville.
On shore (2 observns.)	8 22	124 52	1840	.....	.....	.....	30 06 s.	.....	30·1 s.	.....	.....	.....	Stanley.
At sea (6 observations)	9 55	125 45	1848	.....	.....	.....	31 00 s.	.....	31·0 s.	.....	.....	.....	Rattlesnake.
At sea (6 observations)	9 31	126 55	1848	.....	.....	.....	30 35 s.	.....	30·6 s.	.....	.....	.....	Rattlesnake.
Bouro Island	3 23	127 06	1848	1 06 E.	.....	1·1 E.	20 23 s.	.....	20·4 s.	8·84	.....	8·84	Belcher.
Cayeli	3 22	127 21	1823	0 32 E.	.....	0·5 E.	20 08 s.	.....	20·1 s.	.....	.....	.....	Duperrey.
At sea (6 observations)	9 12	127 38	1848	.....	.....	.....	30 10 s.	.....	30·2 s.	9·40	.....	9·40	Rattlesnake.
Amboyna	3 42	128 10	1823	0 28 E.	.....	0·5 E.	20 32 s.	.....	20·5 s.	.....	.....	.....	Duperrey.
			1840	1 14 E.	.....	1·2 E.	21 10 s.	.....	21·2 s.	8·94	.....	8·94	Belcher.
At sea (6 observations)	9 48	128 33	1843	1 19 E.	.....	1·3 E.	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
At sea (6 observations)	9 20	128 52	1848	.....	.....	.....	30 27 s.	.....	30·5 s.	9·26	.....	9·26	Rattlesnake.
On shore (2 observns.)	4 07	129 07	1841	.....	.....	.....	22 34 s.	.....	22·6 s.	.....	.....	.....	Stanley.

SOUTH EQUATORIAL ZONE I.—Equator to 10° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	
At sea.....	1 21	329 39	1830	9 19 w.	1 27 w.	10.8 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	0 36	329 43	1830	9 51 w.	1 27 w.	11.3 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea (3 observations)	0 19	329 48	1832	8 26 w.	1 13 w.	9.7 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	0 28	330 02	1840	.....	.....	.....	24 28 N.	.....	24.5 N.	7.19	.....	7.19	Ross.
At sea (2 observations)	8 06	330 02	1840	11 01 w.	0 17 w.	11.3 w.	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	0 46	330 03	1846	10 54 w.	0 24 E.	10.5 w.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea.....	0 07	330 08	1840	10 35 w.	0 17 w.	10.9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	4 15	330 40	1848	.....	.....	.....	15 19 N.	.....	15.3 N.	.....	.....	.....	Stanley.
At sea.....	7 47	330 48	1847	13 41 w.	0 31 E.	13.2 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	7 41	330 53	1847	.....	.....	.....	10 26 N.	.....	10.4 N.	6.76	.....	6.76	Rattlesnake.
At sea.....	5 59	331 08	1842	13 04 w.	.....	13.1 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea (2 observations)	8 10	331 16	1842	12 00 w.	.....	12.0 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (2 observations)	6 53	331 23	1830	9 30 w.	1 27 w.	10.9 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (2 observations)	9 25	331 32	1842	11 14 w.	.....	11.2 w.	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
At sea.....	1 00	332 08	1838	.....	.....	.....	20 13 N.	.....	20.2 N.	.....	.....	.....	Stanley.
At sea (3 observations)	4 58	332 12	1847	.....	.....	.....	14 58 N.	.....	15.0 N.	6.89	.....	6.89	Rattlesnake.
At sea.....	8 56	332 50	1843	10 12 w.	.....	10.2 w.	7 24 N.	.....	7.4 N.	.....	.....	.....	Ross.
At sea.....	7 01	332 56	1843	11 52 w.	.....	11.9 w.	11 01 N.	.....	11.0 N.	.....	.....	.....	Ross.
At sea (2 observations)	3 46	333 00	1847	14 30 w.	0 31 E.	14.0 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	5 26	333 06	1843	11 10 w.	.....	11.2 w.	13 25 N.	.....	13.4 N.	.....	.....	.....	Ross.
At sea.....	3 47	333 13	1843	11 36 w.	.....	11.6 w.	16 15 N.	.....	16.3 N.	.....	.....	.....	Ross.
At sea (2 observations)	7 52	333 26	1842	13 46 w.	.....	13.8 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea.....	6 06	333 27	1842	.....	.....	.....	13 48 N.	.....	13.8 N.	6.74	.....	6.74	H.M.S. 'Fly.'
At sea.....	1 53	333 39	1843	12 48 w.	.....	12.8 w.	19 59 N.	.....	20.0 N.	.....	.....	.....	Ross.
At sea (3 observations)	2 25	333 53	1847	.....	.....	.....	17 58 N.	.....	18.0 N.	6.94	.....	6.94	Rattlesnake.
At sea.....	0 19	334 00	1847	12 51 w.	0 31 E.	12.3 w.	22 34 N.	.....	22.6 N.	.....	.....	.....	Ross.
At sea (3 observations)	2 11	334 23	1826	11 24 w.	1 55 w.	13.3 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea (2 observations)	7 00	334 34	1836	12 38 w.	0 45 w.	13.4 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	2 48	334 43	1842	14 27 w.	.....	14.5 w.	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
At sea (3 observations)	1 50	334 56	1842	15 15 w.	.....	15.3 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (3 observations)	6 34	335 13	1850	.....	.....	.....	11 20 N.	.....	11.3 N.	6.93	.....	6.93	Rattlesnake.
At sea (3 observations)	4 01	335 20	1850	.....	.....	.....	15 21 N.	.....	15.3 N.	7.22	.....	7.22	Rattlesnake.
At sea (8 observations)	2 43	335 34	1830	13 52 w.	1 27 w.	15.3 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (3 observations)	0 28	335 42	1847	.....	.....	.....	20 10 N.	.....	20.2 N.	7.04	.....	7.04	Rattlesnake.
At sea (3 observations)	9 21	335 44	1850	.....	.....	.....	6 36 N.	.....	6.6 N.	6.90	.....	6.90	Rattlesnake.
At sea.....	7 48	335 46	1842	14 29 w.	.....	14.5 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea.....	0 19	335 50	1847	15 05 w.	0 34 E.	14.5 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (6 observations)	0 34	336 00	1850	.....	.....	.....	20 40 N.	.....	20.7 N.	7.50	.....	7.50	Rattlesnake.
At sea.....	6 20	336 05	1822	11 30 w.	2 33 w.	14.1 w.	11 07 N.	.....	11.1 N.	.....	.....	.....	Duperrey.
At sea (2 observations)	3 42	336 23	1822	12 00 w.	2 33 w.	14.5 w.	16 44 N.	.....	16.7 N.	.....	.....	.....	Duperrey.
At sea (3 observations)	8 01	336 33	1826	11 30 w.	2 03 w.	13.5 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea (2 observations)	0 57	336 52	1822	13 12 w.	2 33 w.	15.7 w.	19 09 N.	.....	19.1 N.	.....	.....	.....	Duperrey.
At sea (2 observations)	2 35	337 44	1839	15 23 w.	0 24 w.	15.8 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	9 45	337 53	1831	.....	.....	.....	3 09 N.	.....	3.1 N.	.....	.....	.....	Dunlop.
At sea (6 observations)	0 56	338 00	1846	.....	.....	.....	18 33 N.	.....	18.5 N.	7.12	.....	7.12	H.M.S. 'Fly.'
At sea (4 observations)	2 00	338 40	1829	15 24 w.	1 40 w.	17.1 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea (2 observations)	2 26	338 43	1836	14 33 w.	0 48 w.	15.3 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	3 18	338 45	1839	15 58 w.	0 24 w.	16.4 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	1 05	338 52	1842	.....	.....	.....	.....	.....	.....	7.43	.....	7.43	Lefroy.
At sea (2 observations)	2 31	339 02	1826	13 10 w.	2 03 w.	15.2 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	8 10	339 50	1831	.....	.....	.....	5 12 N.	.....	5.2 N.	.....	.....	.....	Dunlop.
At sea (6 observations)	2 50	340 10	1851	18 07 w.	1 20 E.	16.8 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (3 observations)	3 10	340 14	1846	.....	.....	.....	11 35 N.	.....	11.6 N.	6.80	.....	6.80	H.M.S. 'Fly.'
At sea (2 observations)	1 48	340 39	1846	17 32 w.	0 26 E.	17.1 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	6 02	341 02	1831	.....	.....	.....	8 24 N.	.....	8.4 N.	.....	.....	.....	Dunlop.
At sea.....	3 00	341 04	1842	.....	.....	.....	.....	.....	.....	7.01	.....	7.01	Lefroy.
At sea.....	4 29	341 16	1839	16 33 w.	0 27 w.	17.0 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea (3 observations)	2 47	341 20	1846	18 02 w.	0 28 E.	17.6 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	4 03	341 37	1831	.....	.....	.....	11 28 N.	.....	11.5 N.	.....	.....	.....	Dunlop.
At sea (2 observations)	9 49	341 45	1836	15 57 w.	0 51 w.	16.8 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (4 observations)	8 42	342 02	1846	18 08 w.	0 28 E.	17.7 w.	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
At sea.....	3 58	342 04	1842	.....	.....	.....	.....	.....	.....	6.79	.....	6.79	Lefroy.

SOUTH EQUATORIAL ZONE I.—Equator to 10° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.			
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.				
At sea (3 observations)	5 06	342 08	1846	.....	.....	.....	6 45 N.	.....	6 8 N.	6 62	.....	6 62	H.M.S. 'Fly.'
At sea.....	1 52	342 31	1831	.....	.....	.....	14 40 N.	.....	14 7 N.	.....	.....	.....	Dunlop.
At sea.....	4 41	342 49	1842	.....	.....	.....	.....	.....	.....	6 68	.....	6 68	Lefroy.
At sea (2 observations)	7 58	343 10	1824	15 45 w.	2 32 w.	18 3 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (2 observations)	6 34	343 20	1839	19 15 w.	0 27 w.	19 7 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (2 observations)	5 42	343 28	1846	19 14 w.	0 27 E.	18 8 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (6 observations)	6 23	343 32	1846	.....	.....	.....	3 04 N.	.....	3 1 N.	6 48	.....	6 48	H.M.S. 'Fly.'
At sea.....	9 17	343 44	1843	19 09 w.	.....	19 1 w.	0 30 N.	.....	0 5 N.	.....	.....	.....	Ross.
At sea (4 observations)	6 17	344 04	1851	20 01 w.	1 20 E.	18 7 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (3 observations)	7 04	344 06	1846	.....	.....	.....	1 54 N.	.....	1 9 N.	6 43	.....	6 43	H.M.S. 'Fly.'
At sea.....	0 53	344 36	1831	.....	.....	.....	17 22 N.	.....	17 4 N.	.....	.....	.....	Dunlop.
At sea (3 observations)	1 50	344 40	1837	17 45 w.	0 44 w.	18 5 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (2 observations)	8 02	344 48	1832	17 21 w.	2 44 w.	20 1 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (2 observations)	6 55	344 57	1839	18 39 w.	0 27 w.	19 1 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea (6 observations)	8 03	345 08	1846	.....	.....	.....	0 40 s.	.....	0 7 s.	6 36	.....	6 36	H.M.S. 'Fly.'
At sea.....	7 59	345 25	1843	.....	.....	.....	0 19 N.	.....	0 3 s.	.....	.....	.....	Ross.
At sea (6 observations)	8 35	345 32	1846	.....	.....	.....	1 50 s.	.....	1 8 s.	6 29	.....	6 29	H.M.S. 'Fly.'
Ascension *	7 54	345 36	1830	20 10 w.	1 12 w.	21 4 w.	Foster.		
			1834	1 57 N.	-2 3	0 1 s.	Allen.		
			1836	17 36 w.	0 36 w.	18 2 w.	1 39 N.	-1 34	0 1 N.	FitzRoy.		
			1839	18 31 w.	0 18 w.	18 8 w.	0 06 N.	-0 51	0 7 s.	Du Petit Thouars.		
			1842	0 08 s.	0 1 s.	Allen.	
			1842	19 16 w.	6 61	6 61	Belcher.
			1846	19 16 w.	0 24 E.	18 9 w.	Bérard.
			1861	21 45 w.	Denham.
1863	21 38 w.	.....	.....	.....	.....	.....	4 47 s.	.....	.....	6 08	.....	6 08	H.M.S. 'Hecate.'
1864	.....	.....	.....	.....	.....	.....	5 57 s.	.....	.....	6 33	.....	6 33	Rokeyby.
At sea (4 observations)	7 29	345 37	1834	18 57 w.	1 16 w.	20 2 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (5 observations)	7 45	345 43	1829	18 19 w.	2 01 w.	20 3 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea (3 observations)	7 04	345 44	1837	18 41 w.	0 48 w.	19 5 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	8 42	345 44	1846	19 21 w.	0 31 E.	18 8 w.	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
At sea.....	8 07	345 50	1843	.....	.....	.....	0 17 N.	.....	0 3 N.	.....	.....	.....	Ross.
At sea (4 observations)	8 08	345 55	1851	21 00 w.	1 30 E.	19 5 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (2 observations)	8 04	346 03	1846	19 21 w.	0 31 E.	18 8 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	6 11	346 05	1842	.....	.....	.....	.....	.....	.....	6 59	.....	6 59	Lefroy.
At sea.....	9 38	346 22	1842	.....	.....	.....	.....	.....	.....	6 18	.....	6 18	Lefroy.
At sea (2 observations)	8 55	346 31	1836	17 40 w.	0 58 w.	18 6 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (6 observations)	9 59	346 44	1846	.....	.....	.....	4 48 s.	.....	4 8 s.	6 30	.....	6 30	H.M.S. 'Fly.'
At sea (2 observations)	9 03	347 02	1839	19 16 w.	0 31 w.	19 8 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	9 30	347 47	1846	19 17 w.	0 31 E.	18 8 w.	.....	.....	.....	.....	.....	.....	Bérard.

* The effects of local disturbance on land being so great, the mean Declination is assumed from results of observations made on board ships in the anchorage.

SOUTH EQUATORIAL ZONE II.—Lat. 10° to 20° S.

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	
At sea (3 observations)	19 43	0 44	1846	.....	.....	.....	30 57	.....	31-0 s.	6-23	.....	6-23	H.M.S. 'Fly.'
Cape Negro	15 47	11 46	1825	23 00 w.	1 10 w.	24-2 w.	.....	.....	.....	.....	.....	.....	Owen.
Cape Frio	18 23	11 57	1825	23 18 w.	1 10 w.	24-5 w.	.....	.....	.....	.....	.....	.....	Owen.
Benguela	12 34	13 14	1825	22 00 w.	1 10 w.	23-2 w.	.....	.....	.....	.....	.....	.....	Owen.
Tette	16 09	33 28	1858 1859	15 07 w.	.....	15-1 w.	48 10	.....	48-2 s.	7-83	.....	7-83	Livingstone. Livingstone.
Dakanamois Island	16 02	35 01	1859	14 56 w.	.....	14-9 w.	48 41	.....	48-7 s.	7-86	.....	7-86	Livingstone.
Expedition Island	18 25	35 51	1858	14 57 w.	.....	15-0 w.	51 10	.....	51-2 s.	7-74	.....	7-74	Livingstone.
Quillimane	18 01	36 56	1825	21 00 w.	.....	21-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Juan de Nova	17 15	42 30	1825	18 00 w.	.....	18-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Coffin Island	17 29	43 42	1825	18 00 w.	.....	18-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Barren Island	18 41	43 53	1825	17 48 w.	.....	17-8 w.	.....	.....	.....	.....	.....	.....	Owen.
Comoro	12 10	44 20	1825	12 30 w.	.....	12-5 w.	.....	.....	.....	.....	.....	.....	Owen.
Bembatoo-ka	15 43	46 15	1825	15 00 w.	.....	15-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Majambo Bay	15 14	47 00	1842	12 10 w.	.....	12-2 w.	48 19	.....	48-3 s.	8-46	.....	8-46	Belcher.
Glorious Islands	11 35	47 19	1825	13 00 w.	.....	13-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Passandava	13 28	48 10	1825	12 30 w.	.....	12-5 w.	.....	.....	.....	.....	.....	.....	Owen.
Manocroo	19 55	48 47	1825	12 00 w.	.....	12-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Tamatave	18 10	49 31	1825	13 00 w.	.....	13-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Diego Suarez	12 15	49 34	1825	11 00 w.	.....	11-0 w.	.....	.....	.....	.....	.....	.....	Owen.
St. Mary's Island	17 00	49 49	1825	14 00 w.	.....	14-0 w.	.....	.....	.....	.....	.....	.....	Owen.
N'Goney	15 14	50 25	1825	13 00 w.	.....	13-0 w.	.....	.....	.....	.....	.....	.....	Owen.
Sandy Island	15 54	54 21	1830	11 00 w.	.....	11-0 w.	.....	.....	.....	.....	.....	.....	Laplace.
At sea	19 54	57 55	1845	9 27 w.	.....	9-4 w.	.....	.....	.....	.....	.....	.....	Pagoda.
Gargodos-Garajos	16 22	59 44	1824	9 54 w.	.....	9-9 w.	.....	.....	.....	.....	.....	.....	Owen.
At sea (2 observations)	19 02	61 13	1836	8 35 w.	.....	8-6 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (2 observations)	18 39	62 57	1836	7 51 w.	.....	7-8 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea	19 50	65 32	1837	8 16 w.	.....	8-3 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea	19 04	68 10	1837	5 45 w.	.....	5-7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea	18 27	69 29	1837	5 54 w.	.....	5-9 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea	18 06	70 39	1837	5 02 w.	.....	5-0 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (4 observations)	17 31	70 39	1836	4 45 w.	.....	4-7 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (3 observations)	18 48	71 24	1846	.....	.....	.....	50 24	.....	50-4 s.	9-18	.....	9-18	H.M.S. 'Fly.'
At sea	17 15	71 55	1837	4 36 w.	.....	4-6 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	16 57	73 01	1836	3 40 w.	.....	3-7 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea	15 54	73 51	1837	4 09 w.	.....	4-1 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	18 00	74 52	1846	.....	.....	.....	48 40	.....	48-7 s.	9-16	.....	9-16	H.M.S. 'Fly.'
At sea (2 observations)	19 11	75 47	1834	4 46 w.	.....	4-8 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea	13 44	76 33	1837	3 36 w.	.....	3-6 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	17 55	77 49	1846	.....	.....	.....	48 52	.....	48-9 s.	9-16	.....	9-16	H.M.S. 'Fly.'
At sea (3 observations)	17 45	79 26	1846	.....	.....	.....	48 31	.....	48-5 s.	9-13	.....	9-13	H.M.S. 'Fly.'
At sea	10 12	81 02	1837	0 42 w.	.....	0-7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea	17 30	81 27	1846	.....	.....	.....	47 27	.....	47-5 s.	9-19	.....	9-19	H.M.S. 'Fly.'
At sea (4 observations)	19 57	82 56	1851	7 42 w.	.....	7-7 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea	18 33	84 03	1824	0 37 w.	.....	0-6 w.	48 23	.....	48-4 s.	.....	.....	.....	Duperrey.
At sea (2 observations)	13 59	85 10	1857	3 24 w.	.....	3-4 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea (3 observations)	17 06	85 18	1857	4 22 w.	.....	4-4 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea (3 observations)	17 23	85 20	1846	.....	.....	.....	48 30	.....	48-5 s.	9-32	.....	9-32	H.M.S. 'Fly.'
At sea (6 observations)	16 56	85 24	1833	2 40 w.	.....	2-7 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (6 observations)	18 06	87 30	1851	6 09 w.	.....	6-1 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea	17 35	89 15	1846	.....	.....	.....	48 30	.....	48-5 s.	9-43	.....	9-43	H.M.S. 'Fly.'
At sea (2 observations)	13 08	89 23	1836	0 38 w.	.....	0-6 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (2 observations)	16 20	90 16	1851	5 28 w.	.....	5-5 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (2 observations)	13 58	91 12	1827	2 21 w.	.....	2-3 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (2 observations)	14 27	93 08	1851	4 30 w.	.....	4-5 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (2 observations)	18 02	93 28	1846	.....	.....	.....	48 44	.....	48-7 s.	.....	.....	.....	H.M.S. 'Fly.'
At sea	12 21	94 04	1836	0 04 w.	.....	0-1 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (14 observations)	18 41	94 58	1860	5 35 w.	.....	5-6 w.	.....	.....	.....	.....	.....	.....	Denham.
At sea (2 observations)	13 06	95 45	1851	3 40 w.	.....	3-7 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea	19 33	96 18	1846	.....	.....	.....	48 43	.....	48-7 s.	9-88	.....	9-88	H.M.S. 'Fly.'
Keeling Islands	12 06	96 50	1836 1848	1 12 w. 1 11 w.	.....	1-2 w. 1-2 w.	39 19	.....	39-3 s.	9-40	.....	9-40	FitzRoy. Elliot.

SOUTH EQUATORIAL ZONE II.—Lat. 10° to 20° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.	
				Observed.	Correction to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.		
At sea (3 observations)	17 35	97 24	1829	3 01 w.	.....	3·0 w.	.....	.....	.....	.....	.....	.....	Lütke.	
At sea (2 observations)	11 52	97 42	1851	2 35 w.	.....	2·6 w.	.....	.....	.....	.....	.....	.....	Kellett.	
At sea (7 observations)	10 40	99 12	1851	2 01 w.	.....	2·0 w.	.....	.....	.....	.....	.....	.....	Kellett.	
At sea (9 observations)	15 45	100 40	1860	3 40 w.	.....	3·7 w.	.....	.....	.....	.....	.....	.....	Denham.	
At sea (20 observations)	14 58	103 02	1860	1 43 w.	.....	1·7 w.	.....	.....	.....	.....	.....	.....	Denham.	
At sea (3 observations)	15 37	103 17	1829	2 33 w.	.....	2·5 w.	.....	.....	.....	.....	.....	.....	Lütke.	
At sea (6 observations)	18 55	103 47	1848	.....	.....	.....	.....	46 43	.....	46·7 s.	10·15	.....	10·15	Rattlesnake.
At sea (2 observations)	13 50	105 08	1829	2 27 w.	.....	2·5 w.	.....	.....	.....	.....	.....	.....	.....	Lütke.
At sea (3 observations)	17 49	105 25	1848	.....	.....	.....	.....	44 52	.....	44·9 s.	10·16	.....	10·16	Rattlesnake.
At sea (12 observations)	14 20	107 50	1860	0 30 w.	.....	0·5 w.	.....	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	14 47	111 00	1848	.....	.....	.....	.....	39 46	.....	39·8 s.	9·93	.....	9·93	Rattlesnake.
At sea (3 observations)	13 46	113 23	1848	.....	.....	.....	.....	38 14	.....	38·2 s.	.....	.....	.....	Rattlesnake.
At sea (3 observations)	13 36	115 04	1848	.....	.....	.....	.....	37 52	.....	37·9 s.	.....	.....	.....	Rattlesnake.
At sea (6 observations)	18 19	115 05	1827	0 59 w.	.....	1·0 w.	.....	.....	.....	.....	.....	.....	.....	Dumont d'Urville.
At sea (8 observations)	12 41	116 09	1860	0 26 e.	.....	0·4 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	13 16	117 56	1848	.....	.....	.....	.....	36 53	.....	36·9 s.	9·78	.....	9·78	Rattlesnake.
At sea (3 observations)	10 21	119 11	1860	1 19 e.	.....	1·3 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	12 23	119 33	1848	.....	.....	.....	.....	35 27	.....	35·5 s.	9·70	.....	9·70	Rattlesnake.
At sea (5 observations)	16 35	120 44	1827	0 24 w.	.....	0·4 w.	.....	.....	.....	.....	.....	.....	.....	Dumont d'Urville.
At sea (6 observations)	11 52	121 05	1848	.....	.....	.....	.....	34 44	.....	34·7 s.	9·66	.....	9·66	Rattlesnake.
At sea (9 observations)	13 02	121 09	1827	0 28 w.	.....	0·5 w.	.....	.....	.....	.....	.....	.....	.....	Dumont d'Urville.
Point Swan	16 21	123 03	1838	.....	.....	.....	.....	43 07	.....	43·1 s.	9·92	.....	9·92	Wickham.
Port Usborne	16 39	123 34	1838	.....	.....	.....	.....	43 26	.....	43·4 s.	10·04	.....	10·04	Wickham.
Timor, Koepang Fort	10 10	123 36	1863	1 24 e.	.....	1·4 e.	.....	32 58	.....	33·0 s.	9·58	.....	9·58	H.M.S. 'Hecate.'
At sea (3 observations)	10 33	124 01	1848	.....	.....	.....	.....	32 27	.....	32·5 s.	9·55	.....	9·55	Rattlesnake.
Port George IV.	15 20	124 40	1838	.....	.....	.....	.....	41 29	.....	41·5 s.	10·00	.....	10·00	Wickham.
At sea (6 observations)	10 06	124 57	1848	.....	.....	.....	.....	31 24	.....	31·4 s.	9·47	.....	9·47	Rattlesnake.
At sea (4 observations)	11 25	125 59	1860	1 07 e.	.....	1·1 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	11 13	128 57	1860	2 21 e.	.....	2·4 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
At sea (8 observations)	10 53	131 45	1848	.....	.....	.....	.....	33 12	.....	33·2 s.	9·38	.....	9·38	Rattlesnake.
Port Essington, on shore	11 23	132 12	1845	2 10 e.	.....	2·2 e.	.....	35 21	.....	35·3 s.	9·49	.....	9·49	H.M.S. 'Fly.'
Port Essington, on shore (3 obsrvtns.)	11 23	132 12	1848	.....	.....	.....	.....	35 15	.....	35·3 s.	9·68	.....	9·68	Rattlesnake.
Port Essington, on board (6 obsrvtns.)	11 14	132 12	1848	.....	.....	.....	.....	33 48	.....	33·8 s.	9·44	.....	9·44	Rattlesnake.
Hammond Island	10 32	142 12	1860	4 44 e.	.....	4·7 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
Evans Bay, C. York	10 44	142 31	1848	.....	.....	.....	.....	33 11	.....	33·2 s.	9·41	.....	9·41	Rattlesnake.
Mount Adolphus	10 39	142 40	1843	6 25 e.	.....	6·4 e.	6·4 e.	32 45	.....	32·8 s.	9·43	.....	9·43	H.M.S. 'Hecate.'
Sir C. Hardy's Islet	11 56	143 39	1843	4 00 e.	.....	4·0 e.	.....	33 48	.....	33·8 s.	9·43	.....	9·43	H.M.S. 'Fly.'
Claremont Isld., No. 5	13 39	143 45	1848	3 12 e.	.....	3·2 e.	.....	35 31	.....	35·5 s.	9·68	.....	9·68	H.M.S. 'Fly.'
R. Sir Ch. Hardy	11 56	143 47	1831	.....	.....	.....	.....	38 12	.....	38·2 s.	.....	.....	.....	Rattlesnake.
Raine Island (3 obs.)	11 36	144 02	1860	5 30 e.	.....	5·5 e.	.....	.....	.....	.....	.....	.....	.....	Richardson.
Raine Island (1 obs.)	11 36	144 02	1844	5 21 e.	.....	5·3 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
Lizard Island, Torres Straits	14 40	145 28	1843	4 00 e.	.....	4·0 e.	.....	35 01	.....	35·0 s.	9·60	.....	9·60	H.M.S. 'Fly.'
			1848	6 50 e.	.....	6·8 e.	6·8 e.	39 30	.....	39·5 s.	10·04	.....	10·04	H.M.S. 'Fly.'
				.....	.....	.....	.....	39 32	.....	39·5 s.	10·12	.....	10·12	Rattlesnake.
Rockingham Bay	18 15	146 05	1843	6 53 e.	.....	6·9 e.	6·7 e.	45 01	.....	45·0 s.	10·57	.....	10·57	H.M.S. 'Fly.'
			1863	6 30 e.	.....	6·5 e.	.....	44 37	.....	44·6 s.	10·96	.....	10·96	H.M.S. 'Hecate.'
Round Islet, Rockingham Bay	17 55	146 10	1848	.....	.....	.....	.....	44 13	.....	44·2 s.	10·66	.....	10·66	Rattlesnake.
Cape Upstart	19 43	147 50	1843	6 58 e.	.....	7·0 e.	.....	47 15	.....	47·3 s.	10·67	.....	10·67	H.M.S. 'Fly.'
Willis Island (2 obs.)	16 13	150 02	1860	7 11 e.	.....	7·2 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
Barnard I. No. 2 (3 obs.)	17 40	151 13	1848	.....	.....	.....	.....	44 09	.....	44·1 s.	.....	.....	.....	Rattlesnake.
Alert Reef (2 obs.)	17 07	152 07	1860	8 03 e.	.....	8·1 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
Louisiade Archi. (2 obs.)	11 18	152 51	1849	.....	.....	.....	.....	32 42	.....	32·7 s.	.....	.....	.....	Rattlesnake.
Sand Cay (3 obsrvs.)	17 24	155 53	1860	8 30 e.	.....	8·5 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
Chesterfield Group (6 observations)	19 53	158 21	1859	9 22 e.	.....	9·4 e.	.....	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	10 17	162 40	1858	9 11 e.	0 16 e.	9·4 e.	.....	.....	.....	.....	.....	.....	.....	Novara.
At sea (6 observations)	11 59	169 24	1828	10 02 e.	0 14 w.	9·8 e.	.....	.....	.....	.....	.....	.....	.....	Dumont d'Urville.
Tanna Island	19 32	169 29	1840	11 37 e.	0 03 w.	11·6 e.	.....	39 53	.....	39·9 s.	10·40	.....	10·40	Belcher.

SOUTH EQUATORIAL ZONE II.—Lat. 10° to 20° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.																													
				Observed.	Correction to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.																														
At sea (2 observations)	10 48	214 55	1830	.....	.....	.....	17 48	.....	17-8 s.	8-16	.....	8-16	Erman.																								
At sea (7 observations)	14 26	216 30	1859	7 12 E.	.....	7-2 E.	.....	.....	.....	.....	.....	.....	Novara.																						
At sea (7 observations)	13 49	217 27	1859	6 21 E.	.....	6-3 E.	.....	.....	.....	.....	.....	.....	Novara.																						
At sea (2 observations)	12 57	217 53	1859	6 26 E.	.....	6-4 E.	.....	.....	.....	.....	.....	.....	Novara.																						
Bow Island	18 05	219 07	1840	6 43 E.	.....	6-7 E.	.....	.....	.....	.....	.....	.....	Belcher.																						
Moller Island	17 43	219 18	1823	6 32 E.	.....	6-5 E.	.....	.....	.....	.....	.....	.....	Duperrey.																						
At sea (2 observations)	14 00	219 30	1859	6 05 E.	.....	6-1 E.	.....	.....	.....	.....	.....	.....	Novara.																						
Predpriatir Island	15 58	219 54	1824	5 00 E.	.....	5-0 E.	.....	.....	.....	.....	.....	.....	Kotzebue.																						
At sea (2 observations)	15 16	220 07	1859	6 46 E.	.....	6-8 E.	.....	.....	.....	.....	.....	.....	Novara.																						
Lanciers Island	18 30	220 52	1825	7 03 E.	.....	7-0 E.	.....	.....	.....	.....	.....	.....	Beechey.																						
Narcisse Island	17 21	221 30	1823	5 22 E.	.....	5-4 E.	.....	.....	.....	.....	.....	.....	Duperrey.																						
At sea (2 observations)	15 38	222 15	1859	6 20 E.	.....	6-3 E.	.....	.....	.....	.....	.....	.....	Novara.																						
Clermont Tonnerre Isl.	18 28	223 34	1823	4 51 E.	.....	4-8 E.	.....	.....	.....	.....	.....	.....	Duperrey.																						
At sea (5 observations)	16 58	225 30	1859	6 44 E.	.....	6-7 E.	.....	.....	.....	.....	.....	.....	Novara.																						
At sea (2 observations)	19 22	227 20	1859	7 07 E.	.....	7-1 E.	.....	.....	.....	.....	.....	.....	Novara.																						
At sea	13 11	227 49	1835	6 20 E.	.....	6-3 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
At sea (2 observations)	12 00	231 58	1835	5 35 E.	.....	5-6 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
At sea (3 observations)	11 30	234 55	1835	5 14 E.	.....	5-2 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
At sea (3 observations)	10 03	240 12	1835	5 16 E.	.....	5-3 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
At sea (4 observations)	11 47	248 09	1827	5 54 E.	.....	5-9 E.	.....	.....	.....	.....	.....	.....	Lütke.																						
At sea	13 09	251 20	1827	8 05 E.	.....	8-1 E.	20 36	.....	20-6 s.	7-89	.....	7-89	Lütke.																										
At sea (5 observations)	11 23	257 05	1857	8 32 E.	.....	8-5 E.	.....	.....	.....	.....	.....	.....	Richards.																						
At sea (5 observations)	17 17	260 34	1827	9 01 E.	.....	9-0 E.	.....	.....	.....	.....	.....	.....	Lütke.																						
At sea (5 observations)	13 30	260 43	1857	9 49 E.	.....	9-8 E.	.....	.....	.....	.....	.....	.....	Richards.																						
At sea	17 23	261 08	1827	10 23 E.	.....	10-4 E.	.....	.....	.....	.....	.....	.....	Prussian ships.																						
At sea (2 observations)	15 02	263 21	1857	11 02 E.	.....	11-0 E.	.....	.....	.....	.....	.....	.....	Richards.																						
At sea (4 observations)	12 21	265 05	1825	10 03 E.	.....	10-0 E.	.....	.....	.....	.....	.....	.....	Prussian ships.																						
At sea (5 observations)	17 27	265 31	1857	11 46 E.	.....	11-8 E.	.....	.....	.....	.....	.....	.....	Richards.																						
At sea (17 observations)	19 07	268 07	1857	12 56 E.	.....	12-9 E.	.....	.....	.....	.....	.....	.....	Richards.																						
At sea (3 observations)	10 46	276 60	1830	10 33 E.	.....	10-5 E.	.....	.....	.....	.....	.....	.....	Prussian ships.																						
At sea	10 52	281 37	1836	9 02 E.	.....	9-0 E.	.....	.....	.....	.....	.....	.....	Bonite.																						
At sea (6 observations)	11 43	281 44	1832	10 31 E.	.....	10-5 E.	.....	.....	.....	.....	.....	.....	Prussian ships.																						
Huacho Pt. (3 stations)	11 12	282 24	1835	9 54 E.	.....	9-9 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
At sea	15 43	282 38	1836	11 30 E.	.....	11-5 E.	.....	.....	.....	.....	.....	.....	Bonite.																						
Callao	12 03	282 53	1823	9 30 E.	9-5 E.	8 33	8-5 s.	Duperrey.																												
			1827	10 40 E.	10-7 E.									7 03	7-0 s.	Prussian ships.																					
			1835	10 18 E.	10-3 E.																6 14	6-2 s.	7-59	FitzRoy.														
			1836	10 23 E.	10-4 E.																							6 49	6-8 s.	7-05	Bonite.							
			1838	10 44 E.	10-7 E.																														6 28	6-5 s.	Belcher.
			1838	10 17 E.	10-3 E.																																				
1866	10 30 E.	.....	10-5 E.	6 28	.....	6-5 s.	7-05	.....	.....	Harkness.																												
At sea	13 00	283 05	1823								8 02 E.	8-0 E.	8 26	8-4 s.	Duperrey.																						
Lima	12 04	283 07	1858								10 40 E.	10-7 E.	7 10	7-2 s.	7-07	7-07	Friesach.																						
At sea	14 06	283 14	1823								9 33 E.	9-5 E.	9 55	9-9 s.	Duperrey.																						
At sea	16 52	283 15	1823								9 16 E.	9-3 E.	14 50	14-8 s.	Duperrey.																						
At sea	19 43	283 19	1823								9 47 E.	9-8 E.	20 11	20-2 s.	Duperrey.																						
Sangallan Island	13 50	283 29	1823	9 33 E.	.....	9-5 E.	.....	.....	.....	.....	.....	.....	Duperrey.																						
Pisco (2 stations)	14 00	283 46	1835	10 15 E.	.....	10-2 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
At sea	17 53	284 50	1836	11 10 E.	.....	11-2 E.	.....	.....	.....	.....	.....	.....	Bonite.																						
San Juan (3 stations)	15 43	285 22	1835	10 50 E.	.....	10-8 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
At sea	19 42	286 44	1836	10 25 E.	.....	10-4 E.	.....	.....	.....	.....	.....	.....	Bonite.																						
At sea (6 observations)	16 52	286 51	1829	10 38 E.	.....	10-6 E.	.....	.....	.....	.....	.....	.....	Prussian ships.																						
Puno, Peru	15 50	287 18	1860	10 44 E.	.....	10-7 E.	7 58	.....	8-0 s.	6-77	.....	6-77	Friesach.																										
Jacua, Peru	18 01	287 28	1859	11 08 E.	.....	11-1 E.	.....	.....	.....	.....	.....	.....	Friesach.																						
Mellends	17 02	287 53	1823	10 00 E.	.....	10-0 E.	.....	.....	.....	.....	.....	.....	Lartigue.																						
Islay (4 stations)	17 05	288 14	1835	10 58 E.	.....	11-0 E.	.....	.....	.....	.....	.....	.....	FitzRoy.																						
Arequipa	16 24	288 23	1835	12 27 E.	.....	12-4 E.	10 00	.....	10-0 s.	6-75	.....	6-75	Friesach.																										
Ylo	17 36	288 35	1823	10 15 E.	.....	10-2 E.	.....	.....	.....	.....	.....	.....	Lartigue.																						
La Paz, Bolivia	16 30	288 48	1860	10 30 E.	.....	10-5 E.	8 38	.....	8-6 s.	6-71	.....	6-71	Friesach.																										
Arica	18 28	289 35	1827	10 45 E.	10-7 E.	Prussian ships.																												
			1835	11 00 E.	11-0 E.	10-9 E.	13-7 s.	FitzRoy.																											
			1858	10 53 E.	10-9 E.										13 40	13-7 s.	6-85	Friesach.																				

SOUTH EQUATORIAL ZONE II.—Lat. 10° to 20° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	
Mean of (4 stations)...	19 12	289 40	1835	11 30 E.	.....	11.5 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	17 15	292 45	1837	4 36 w.	.....	4.6 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	18 25	321 05	1843	3 10 w.	.....	3.3 w.	.....	.....	.....	.....	.....	.....	Pasley.
At sea (4 observations)	17 19	321 11	1832	1 18 w.	0 59 w.	2.3 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
Abrolhos Island	17 58	321 18	1832	2 00 w.	0 59 w.	3.0 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
Bahia	12 59	321 30	1832	4 18 w.	1 16 w.	5.6 w.	4 56	4.9 N.	5.0 N.	6.43	6.33	.....	FitzRoy.
			1837	.....	.....	5 35	5.6 N.	Wickham.					
			1839	.....	.....	5 01	5.0 N.	Sullivan.					
			1842	3 30 w.	.....	3.5 w.	.....	Bérard.					
			1865	7 57 w.	3 00 E.	5.0 w.	4 24	4.4 N.					Harkness.
At sea (5 observations)	14 48	321 30	1832	2 19 w.	1 19 w.	3.6 w.	.....	.....	.....	.....	.....	FitzRoy.	
At sea (4 observations)	13 23	321 32	1832	1 52 w.	1 18 w.	3.2 w.	.....	.....	.....	.....	.....	FitzRoy.	
At sea (4 observations)	17 36	321 32	1832	1 56 w.	1 19 w.	3.2 w.	.....	.....	.....	.....	.....	FitzRoy.	
At sea (4 observations)	18 01	321 39	1832	2 19 w.	1 19 w.	3.6 w.	.....	.....	.....	.....	.....	FitzRoy.	
At sea (3 observations)	13 12	321 43	1842	4 50 w.	.....	4.8 w.	.....	.....	.....	.....	.....	Bérard.	
At sea (2 observations)	15 24	322 05	1842	3 45 w.	.....	3.7 w.	.....	.....	.....	.....	.....	Bérard.	
At sea (5 observations)	12 46	322 18	1836	3 15 w.	0 52 w.	4.1 w.	.....	.....	.....	.....	.....	FitzRoy.	
At sea.....	13 36	322 20	1839	.....	.....	.....	4 22	4.4 N.	.....	6.61	6.61	.....	Sullivan.
At sea (3 observations)	15 43	322 46	1832	3 17 w.	1 18 w.	4.6 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	18 35	323 00	1838	.....	.....	.....	.....	.....	.....	6.61	6.61	.....	Sullivan.
At sea.....	17 47	323 24	1837	7 20 w.	0 31 w.	7.8 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	15 10	323 26	1839	.....	.....	.....	1 37	1.6 N.	.....	6.50	6.50	.....	Sullivan.
At sea (2 observations)	18 50	323 26	1842	4 08 w.	.....	4.1 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (4 observations)	17 13	323 29	1829	0 26 w.	1 40 w.	2.1 w.	.....	.....	.....	.....	.....	.....	Rumker.
At sea (2 observations)	12 49	323 37	1836	4 18 w.	0 49 w.	5.1 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	16 00	323 42	1838	.....	.....	.....	1 25	1.4 s.	.....	6.61	6.61	.....	Sullivan.
At sea.....	17 41	323 43	1847	7 00 w.	0 34 w.	6.6 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	17 35	323 47	1847	.....	.....	.....	4 17	4.3 s.	.....	6.33	6.33	.....	Rattlesnake.
At sea.....	15 44	323 58	1839	.....	.....	.....	0 22	0.4 s.	.....	6.47	6.47	.....	Sullivan.
At sea (2 observations)	16 28	324 04	1837	7 28 w.	0 42 w.	8.2 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea (2 observations)	18 10	324 04	1832	3 02 w.	1 18 w.	4.3 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	18 48	324 16	1836	3 41 w.	0 42 w.	4.4 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	12 01	324 17	1842	8 00 w.	.....	8.0 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	17 52	324 36	1839	.....	.....	.....	3 37	3.6 s.	.....	6.40	6.40	.....	Sullivan.
At sea.....	13 50	324 41	1838	.....	.....	.....	1 50	1.8 N.	.....	6.60	6.60	.....	Sullivan.
At sea (4 observations)	12 39	324 42	1829	3 23 w.	1 34 w.	5.0 w.	.....	.....	.....	.....	.....	.....	Rumker.
At sea.....	15 10	324 45	1837	7 35 w.	0 38 w.	8.2 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	19 45	324 50	1830	3 25 w.	1 27 w.	4.9 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea (3 observations)	17 48	324 52	1826	3 11 w.	1 55 w.	5.1 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	18 59	324 52	1830	4 39 w.	1 27 w.	6.1 w.	7 25	7.4 s.	.....	5.86	5.86	.....	Erman.
At sea.....	19 36	324 56	1830	4 06 w.	1 27 w.	5.5 w.	7 40	7.7 s.	.....	5.82	5.82	.....	Erman.
At sea (2 observations)	18 14	325 01	1829	1 34 w.	1 30 w.	3.1 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	19 56	325 05	1839	.....	.....	.....	7 07	7.1 s.	.....	6.30	6.30	.....	Sullivan.
At sea.....	18 30	325 09	1830	4 28 w.	1 45 w.	6.2 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	18 00	325 18	1830	4 40 w.	1 45 w.	6.4 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (3 observations)	14 52	325 25	1847	8 13 w.	0 24 E.	7.8 w.	0 35	0.6 s.	.....	6.37	6.37	.....	Rattlesnake.
At sea.....	16 48	325 41	1836	4 56 w.	0 45 w.	5.7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	10 08	325 42	1838	.....	.....	.....	10 50	10.8 N.	.....	6.82	6.82	.....	Sullivan.
At sea.....	17 32	325 48	1830	4 31 w.	1 27 w.	6.0 w.	4 34	4.6 s.	.....	5.73	5.73	.....	Erman.
At sea.....	11 55	325 50	1837	8 12 w.	0 38 w.	8.8 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	16 45	326 02	1830	5 15 w.	1 27 w.	6.7 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	16 07	326 26	1830	.....	.....	.....	2 00	2.0 s.	.....	5.89	5.89	.....	Erman.
At sea.....	14 59	326 40	1830	6 50 w.	1 27 w.	8.3 w.	0 27	0.4 N.	.....	6.12	6.12	.....	Erman.
At sea.....	15 12	326 51	1836	6 45 w.	0 45 w.	7.5 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (4 observations)	13 43	327 00	1823	4 55 w.	2 16 w.	7.2 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (3 observations)	12 23	327 01	1826	5 24 w.	1 55 w.	7.3 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	14 24	327 01	1830	6 08 w.	1 27 w.	7.6 w.	1 30	1.5 N.	.....	6.26	6.26	.....	Erman.
At sea.....	13 22	327 15	1830	6 43 w.	1 27 w.	8.2 w.	3 20	3.3 N.	.....	5.93	5.93	.....	Erman.
At sea.....	12 38	327 36	1830	7 16 w.	1 27 w.	8.7 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea (3 observations)	12 38	327 36	1847	9 56 w.	0 31 E.	9.4 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	11 44	327 39	1830	7 25 w.	1 27 w.	8.9 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	11 31	327 41	1830	.....	.....	.....	6 30	6.5 N.	.....	.....	.....	.....	Erman.

SOUTH EQUATORIAL ZONE II.—Lat. 10° to 20° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.	
				Observed.	Correction to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.		
At sea (3 observations)	12 40	327 43	1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rattlesnake.
At sea.....	10 49	327 45	1842	10 45 w.	.....	10-7 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	10 58	327 52	1830	7 11 w.	1 27 w.	8-6 w.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	12 48	327 58	1847	9 01 w.	0 31 E.	8-5 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (4 observations)	13 09	327 59	1828	5 25 w.	1 42 w.	7-1 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (2 observations)	16 08	328 13	1833	4 54 w.	1 15 w.	6-1 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	11 03	328 22	1839	.....	.....	.....	.....	.....	.....	6-38	.....	6-38	Erebus.
At sea.....	13 15	328 34	1836	8 06 w.	0 45 w.	8-8 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	12 32	328 57	1839	.....	.....	.....	.....	.....	.....	6-29	.....	6-29	Erebus.
At sea.....	12 28	329 00	1839	8 25 w.	0 24 w.	8-8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	18 11	329 06	1846	9 11 w.	0 24 E.	8-8 w.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea.....	12 29	329 08	1846	9 13 w.	0 24 E.	8-8 w.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea (2 observations)	12 37	329 10	1833	7 30 w.	1 15 w.	8-7 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	15 35	329 16	1846	8 31 w.	0 24 E.	8-1 w.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea.....	17 20	329 16	1846	9 01 w.	0 24 E.	8-6 w.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea.....	14 17	329 19	1846	9 00 w.	0 24 E.	8-6 w.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea.....	10 15	329 25	1847	12 28 w.	0 31 E.	12-0 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (2 observations)	13 42	329 26	1839	8 29 w.	0 24 w.	8-9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	14 00	329 28	1839	.....	.....	.....	.....	.....	.....	6-16	.....	6-16	Erebus.
At sea.....	14 55	329 53	1839	8 33 w.	0 24 w.	9-0 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	19 02	329 58	1846	8 58 w.	0 21 E.	8-6 w.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea.....	15 04	330 06	1839	.....	.....	.....	.....	.....	.....	6-16	.....	6-16	Erebus.
At sea (3 observations)	14 60	330 17	1842	.....	.....	.....	.....	.....	.....	6-50	.....	6-50	H.M.S. 'Fly.'
At sea (3 observations)	15 45	330 20	1842	.....	.....	.....	.....	.....	.....	6-41	.....	6-41	H.M.S. 'Fly.'
At sea.....	11 46	330 27	1836	8 00 w.	0 45 w.	8-7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	16 52	330 27	1839	.....	.....	.....	.....	.....	.....	6-12	.....	6-12	Erebus.
At sea.....	16 57	330 30	1839	9 09 w.	0 24 w.	9-5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	18 10	330 33	1842	.....	.....	.....	.....	.....	.....	6-30	.....	6-30	H.M.S. 'Fly.'
At sea.....	18 02	330 36	1839	9 28 w.	0 24 w.	9-9 w.	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	19 07	330 42	1839	9 48 w.	0 24 w.	10-2 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	19 01	330 45	1839	.....	.....	.....	.....	.....	.....	6-10	.....	6-10	Erebus.
At sea (3 observations)	11 30	330 48	1842	.....	.....	.....	.....	.....	.....	6-51	.....	6-51	H.M.S. 'Fly.'
At sea (2 observations)	12 08	330 55	1836	8 43 w.	0 45 w.	8-5 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	12 08	331 05	1836	8 40 w.	0 45 w.	9-4 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	10 05	331 48	1836	9 24 w.	0 45 w.	10-1 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	17 52	332 07	1826	7 18 w.	1 39 w.	9-0 w.	.....	.....	.....	.....	.....	.....	Dumont d'Urville.
At sea.....	19 47	332 45	1831	.....	.....	.....	.....	.....	.....	6-44	.....	6-44	Dunlop.
At sea.....	18 09	332 48	1831	.....	.....	.....	.....	.....	.....	6-29	.....	6-29	Dunlop.
At sea (2 observations)	11 47	333 06	1859	14 28 w.	1 55 E.	12-5 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	16 12	333 10	1831	4 02	6-59	6-59	Dunlop.
At sea.....	19 22	333 37	1859	13 52 w.	1 55 E.	12-0 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	14 31	334 30	1831	1 05	6-52	6-52	Dunlop.
At sea (2 observations)	18 44	335 34	1850	9 29	6-54	6-54	Rattlesnake.
At sea (2 observations)	15 59	336 00	1850	4 58	6-45	6-45	Rattlesnake.
At sea.....	12 51	336 10	1831	0 35	6-59	6-59	Dunlop.
At sea (2 observations)	14 20	336 14	1850	1 34	6-60	6-60	Rattlesnake.
At sea.....	11 25	336 37	1836	13 06 w.	0 52 w.	14-0 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	10 12	337 42	1831	1 38	6-52	6-52	Dunlop.
At sea.....	10 06	340 27	1842	15 23 w.	.....	15-4 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea.....	10 07	341 02	1836	15 57 w.	0 52 w.	16-8 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	11 10	342 37	1842	16 00 w.	.....	16-0 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea (4 observations)	11 38	343 46	1842	17 10 w.	.....	17-2 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea.....	11 59	344 09	1846	20 58 w.	0 28 E.	20-5 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	12 09	345 01	1842	17 36 w.	.....	17-6 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea.....	19 20	345 44	1840	18 44 w.	0 12 w.	18-9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	19 12	345 45	1840	.....	.....	.....	.....	.....	.....	6-11	.....	6-11	Terror.
At sea.....	18 53	345 46	1840	.....	.....	.....	.....	.....	.....	6-12	.....	6-12	Erebus.
At sea.....	18 43	346 00	1840	17 46 w.	0 13 w.	18-0 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	17 44	346 10	1840	.....	.....	.....	.....	.....	.....	6-12	.....	6-12	Terror.
At sea.....	17 30	346 15	1840	.....	.....	.....	.....	.....	.....	6-14	.....	6-14	Erebus.
At sea.....	17 37	346 23	1840	19 26 w.	0 13 w.	19-6 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	17 23	346 29	1840	.....	.....	.....	.....	.....	.....	6-11	.....	6-11	Terror.

SOUTH EQUATORIAL ZONE II.—Lat. 10° to 20° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.	
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At sea.....	17 11	346 40	1840	Erebus.
At sea.....	17 08	346 43	1840	20 12 w.	0 13 w.	20·4 w.	Ross.
At sea.....	13 07	347 00	1842	19 41 w.	19·7 w.	Jehenne.
At sea.....	16 43	347 02	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	16 41	347 07	1840	19 32 w.	0 15 w.	19·8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	16 30	347 17	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	16 22	347 25	1840	18 18 w.	0 15 w.	18·5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 25	347 50	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	10 34	347 54	1837	18 05 w.	0 44 w.	18·8 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	15 22	347 58	1840	20 52 w.	0 17 w.	21·1 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 30	347 58	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 15	348 01	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	15 24	348 06	1840	20 40 w.	0 17 w.	21·0 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 20	348 07	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	15 49	348 09	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	15 41	348 09	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 31	348 15	1840	20 16 w.	0 17 w.	20·5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 44	348 15	1840	19 10 w.	0 17 w.	19·4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 37	348 27	1840	19 11 w.	0 17 w.	19·5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 37	348 32	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 40	348 35	1840	18 56 w.	0 17 w.	19·2 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 30	348 51	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea (4 observations)	11 12	348 54	1851	21 52 w.	1 30 E.	20·4 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (3 observations)	12 13	349 16	1832	19 14 w.	1 24 w.	20·6 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (3 observations)	11 57	348 56	1846	.....	.....	.....	11 43 s.	.....	11·7 s.	.....	.....	.....	H.M.S. 'Fly.'
At sea.....	14 45	349 22	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	10 47	349 31	1825	18 40 w.	2 20 w.	21·0 w.	3 04 s.	.....	3·1 s.	.....	.....	.....	Duperrey.
At sea.....	11 22	349 32	1839	20 14 w.	0 28 w.	20·7 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	14 33	349 37	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	12 25	349 42	1837	18 40 w.	0 44 w.	19·4 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	14 22	349 54	1840	19 31 w.	0 17 w.	19·8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	12 53	350 08	1829	20 39 w.	1 34 w.	22·2 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	14 28	350 19	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	13 44	350 20	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 26	350 21	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 54	350 25	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 53	350 26	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 08	350 28	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 11	350 28	1840	21 24 w.	0 15 w.	21·6 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	14 38	350 30	1840	21 33 w.	0 15 w.	21·8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	14 51	350 31	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	13 37	350 33	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	14 19	350 33	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	13 02	350 53	1836	19 56 w.	0 39 w.	20·6 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (3 observations)	13 32	351 00	1846	.....	.....	.....	16 14 s.	.....	16·2 s.	.....	.....	.....	H.M.S. 'Fly.'
At sea.....	12 40	351 05	1839	21 16 w.	0 21 w.	21·6 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	13 06	351 11	1825	18 45 w.	1 45 w.	20·5 w.	8 47 s.	.....	8 8 s.	.....	.....	.....	Duperrey.
At sea (7 observations)	14 14	351 19	1840	21 13 w.	0 15 w.	21·5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	14 08	351 31	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	14 08	351 32	1840	21 32 w.	0 15 w.	21·8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	14 55	351 52	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 19	351 53	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 36	351 53	1840	21 08 w.	0 15 w.	21·4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 03	351 54	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	14 26	351 57	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	15 04	351 57	1840	21 10 w.	0 15 w.	21·4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (5 observations)	13 34	351 59	1839	21 47 w.	0 21 w.	22·1 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	13 36	352 00	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	14 11	352 00	1840	21 06 w.	0 15 w.	21·3 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	13 43	352 01	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	13 34	352 02	1840	22 09 w.	0 15 w.	22·4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 14	352 03	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.

SOUTH EQUATORIAL ZONE II.—Lat. 10° to 20° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.	
				Observed.	Correction to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.		
At sea.....	15 23	352 06	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea (2 observations)	13 42	352 12	1836	19 52 w.	0 39 w.	20·5 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	15 26	352 20	1840	21 39 w.	0 15 w.	21·9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 27	352 30	1840	21 27 w.	0 15 w.	21·7 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (4 observations)	14 31	352 31	1851	23 16 w.	1 10 E.	22·1 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea.....	15 11	352 32	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 13	352 33	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 17	352 35	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	14 30	352 40	1836	19 50 w.	0 39 w.	19·5 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	18 53	352 45	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	14 28	352 52	1839	22 18 w.	0 21 w.	22·6 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	18 33	352 52	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	18 29	352 55	1840	23 11 w.	0 15 w.	23·4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	15 00	352 58	1846	.....	.....	.....	19 53 s.	.....	19·9 s.	.....	.....	.....	H.M.S. 'Fly.'
At sea (8 observations)	16 14	353 00	1840	21 52 w.	0 15 w.	22·1 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 19	353 06	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 20	353 07	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 19	353 13	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	17 38	353 19	1840	21 37 w.	0 15 w.	21·9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 15	353 21	1840	21 29 w.	0 15 w.	21·7 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	17 26	353 28	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	17 10	353 33	1840	20 54 w.	0 15 w.	21·1 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	17 14	353 33	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 00	353 36	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 02	353 36	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 07	353 44	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	15 10	354 05	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea.....	15 21	354 07	1840	23 27 w.	0 15 w.	23·7 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	15 05	354 08	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
St. Helena Observa- tory, Longwood* }	15 55	354 17	1840	22 53 w.	.....	.....	.....	.....	.....	.....	.....	.....	Ross.
			1840	Observatory.
			1841	22 58 w.	21 15 s.	Observatory.
			1842	23 05 w.	21 26 s.	Observatory.
			1843	23 14 w.	21 25 s.	Observatory.
			1844	23 14 w.	21 45 s.	Observatory.
			1844	23 20 w.	21 56 s.	Observatory.
			1845	23 27 w.	21 55 s.	Observatory.
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Observatory.	
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Observatory.	
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Observatory.	
Sister's Walk, St. Helena.....	15 55	354 18	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Crozier.
			1840	.....	.....	.....	18 21 s.	.....	.....	.....	.....	.....	Ross.
			1842	.....	.....	.....	17 01 s.	.....	.....	.....	.....	.....	Belcher.
			1846	.....	.....	.....	19 23 s.	.....	.....	.....	.....	.....	Smythe.
Anchorage, St. Helena	15 55	354 17	1836	18 00 w.	.....	.....	.....	.....	.....	.....	.....	.....	FitzRoy.
			1839	22 17 w.	.....	.....	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
			1846	23 11 w.	.....	.....	.....	17 55 s.	.....	.....	.....	.....	Bérard.
At sea.....	15 40	354 19	1840	.....	.....	.....	.....	.....	.....	.....	.....	Terror.	
At sea.....	15 57	354 26	1836	19 43 w.	0 32 w.	20·2 w.	.....	.....	.....	.....	.....	FitzRoy.	
At sea (3 observations)	16 08	354 39	1846	.....	.....	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'	
At sea.....	16 27	355 24	1842	24 03 w.	.....	24·0 w.	.....	.....	.....	.....	.....	Jehenne.	
At sea (3 observations)	19 32	355 51	1846	22 46 w.	0 17 E.	22·5 w.	.....	.....	.....	.....	.....	Bérard.	
At sea (5 observations)	18 01	356 10	1846	23 38 w.	0 17 E.	23·3 w.	.....	.....	.....	.....	.....	Bérard.	
At sea (2 observations)	17 40	356 20	1842	24 39 w.	.....	24·6 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea (3 observations)	17 11	356 16	1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	H.M.S. 'Fly.'
At sea (3 observations)	17 33	356 21	1834	20 17 w.	0 42 w.	21·0 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (8 observations)	17 12	356 22	1851	24 53 w.	1 05 E.	23·8 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (3 observations)	17 13	356 24	1846	23 50 w.	0 18 E.	23·5 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	17 04	356 32	1837	22 28 w.	0 27 w.	22·9 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	18 19	357 08	1829	23 09 w.	1 08 w.	24·3 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	18 52	357 15	1842	25 15 w.	.....	25·3 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea (3 observations)	18 01	357 30	1829	20 36 w.	1 08 w.	21·7 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (3 observations)	18 20	358 14	1846	.....	.....	.....	27 02 s.	.....	27·0 s.	.....	.....	.....	H.M.S. 'Fly.'

* The observations at St. Helena and the adjacent anchorage being so much affected by local attraction, the only data entered in the Map are those obtained at the Observatory, the site of which (Longwood) was carefully decided on as the least objectionable place.

SOUTH EQUATORIAL ZONE III.—LATITUDE 20° TO 30° S.

Authorities.

- Bonite Voyage de la Bonite (Paris, 1842).
 FitzRoy Voyage of the 'Beagle,' 1849.
 Du Petit Thouars Sabine in Philosophical Transactions, 1849.
 Moore
 Clerk
 Dayman
 Sullivan
 Dunlop
 Pagoda
 Erebus
 Terror
 La Vénus Voyage de la Vénus (Paris, 1841).
 Bérard MSS. received from Admiral Duperrey.
 Blosserville Schlagintweit, Sci. Mission to India and High Asia (Leipzig and London, 1861).
 Novara (Austrian Frigate). Reise um die Erde (Wien, 1862-65).
 Denham { MSS. in the Magnetic Office, Kew Observatory, received from the Hydrographic Office.
 Belcher { MS. in the Mag. Office, and Contrib. to Terr. Mag. (Sabine in Phil. Trans. 1840).
 Erman { Reise um die Erde (Berlin, 1841).
 Prussian Ships
 Jehenne
 Duperrey
 Owen
 Burchell
 Dumont d'Urville
 Young { L. S. Kämtz, MSS. in the Magnetic Office, Kew Observatory.
 King
 Laplace
 Rumker
 Foster
 Biscoe
 Lütke
 Friesach Mem. Imp. Acad. of Sciences, Vienna, vols. xxix. to xlv.
 Beechey Contributions to Terrestrial Magnetism (Sabine in Phil. Trans. 1840).
 Helmreich Sabine in Phil. Trans. 1849, and L. S. Kämtz, MS.
 Harkness Smithsonian Contrib. vol. xviii.
 Stanley Sabine in Phil. Trans. 1849.
 Pasley Sabine in Phil. Trans. 1849.
 Kellett MSS. in the Magnetic Office, Kew Observatory, received from Admiral Kellett.
 Ross Sabine in Phil. Trans. 1849.
 Rattlesnake MSS. in the Hydrographic Office.
 H.M.S. 'Fly' MSS. in the Hydrographic Office.
 H.M.S. 'Hecate' MSS. in the Hydrographic Office.
 H.M.S. 'Nassau' MSS. in the Hydrographic Office.
 Richards H.M.S. 'Plumper;' MSS. in the Hydrographic Office.

SOUTH EQUATORIAL ZONE III.—Lat. 20° to 30° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.			
				Observed.	Correction to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.				
At sea.....	27 33	47 17	1837	18 52 w.	.....	18·9 w.	.....	.....	.....	.....	.....	.....	Bonite.
Manambato.....	24 17	47 20	1827	17 00 w.	.....	17·0 w.	.....	.....	.....	.....	.....	.....	Owen.
At sea (3 observations)	26 49	48 14	1824	19 43 w.	.....	19·7 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (4 observations)	26 26	48 20	1845	58 46 s.	58·8 s.	8·72	8·72	Moore.		
At sea.....	29 37	48 44	1829	24 01 w.	.....	24·0 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	25 42	49 06	1845	58 43 s.	58·7 s.	8·35	8·35	Dayman.		
At sea (4 observations)	26 25	49 12	1845	58 36 s.	58·6 s.	8·69	8·69	Clerk.		
At sea (3 observations)	26 30	49 20	1845	16 23 w.	.....	16·4 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (2 observations)	25 47	49 40	1845	15 09 w.	.....	15·1 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (5 observations)	25 39	49 47	1861	16 49 w.	.....	16·8 w.	.....	.....	.....	.....	.....	.....	Denham.
At sea (5 observations)	26 52	50 24	1829	20 10 w.	.....	20·2 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	25 13	51 29	1845	58 34 s.	58·6 s.	8·53	8·53	Dayman.		
At sea (3 observations)	23 44	51 48	1845	14 22 w.	.....	14·4 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	25 01	51 58	1837	16 45 w.	.....	16·7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (5 observations)	26 14	52 30	1851	18 24 w.	.....	18·4 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (4 observations)	21 54	53 00	1845	13 44 w.	.....	13·7 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	24 28	53 21	1837	16 12 w.	.....	16·2 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (4 observations)	21 50	53 25	1845	54 51 s.	54·8 s.	8·70	8·70	Moore.		
At sea.....	23 17	53 31	1837	15 47 w.	.....	15·8 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (4 observations)	21 44	53 34	1845	54 38 s.	54·6 s.	8·83	8·83	Clerk.		
At sea.....	24 05	54 20	1837	15 15 w.	.....	15·2 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	29 55	54 35	1846	61 59 s.	62·0 s.	9·40	9·40	H.M.S. 'Fly.'		
At sea.....	21 36	54 36	1837	13 57 w.	.....	13·9 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (4 observations)	26 30	54 52	1829	15 21 w.	.....	15·3 w.	.....	.....	.....	.....	.....	.....	Lütke.
Isle Bourbon.....	20 51	55 30	1824	13 46 w.	13·8 w.	} 14·3 w.		
			1827	14 58 w.	15·0 w.									} 55·4 s.	
			1837	14 10 w.	14·2 w.										55 33 s.	55·5 s.
			1839									55 12 s.	55·2 s.
At sea (2 observations)	20 50	55 32	1845	11 15 w.	.....	11·2 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	20 50	55 36	1837	11 04 w.	.....	11·1 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	20 59	56 09	1837	12 23 w.	.....	12·4 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (11 observations)	23 38	56 11	1861	14 06 w.	.....	14·1 w.	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	24 08	56 54	1847	56 14 s.	56·2 s.	9·21	9·21	Rattlesnake.		
At sea (6 observations)	29 22	56 58	1847	60 44 s.	60·7 s.	9·30	9·30	Rattlesnake.		
At sea.....	24 45	57 03	1845	.....	.....	.....	.....	59 13 s.	.....	59·2 s.	.....	.....	Dayman.
At sea (3 observations)	28 30	57 15	1846	60 08 s.	60·1 s.	8·95	8·95	H.M.S. 'Fly.'		
Port Louis.....	20 09	57 31	1824	13 46 w.	13·8 w.	} 11·6 w.		
			1836	11 18 w.	11·3 w.									} 53·9 s.	
			1845										53 47 s.
			1845									54 01 s.	54·0 s.
			1845									54 14 s.	54·2 s.
1847	9 44 w.	.....	9·7 w.	53 38 s.	53·6 s.										
At sea (6 observations)	21 18	57 49	1847	53 49 s.	53·8 s.	8·66	8·65	Duperrey.		
At sea (6 observations)	27 05	57 52	1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (3 observations)	26 00	58 35	1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	Clerk and Moore.
At sea.....	24 36	58 37	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	Moore.
At sea.....	21 01	58 43	1837	9 25 w.	.....	9·4 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (4 observations)	20 31	59 42	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rattlesnake.
At sea (3 observations)	20 30	59 42	1845	9 44 w.	9·7 w.	54 00 s.	54·0 s.	9·18	9·18	Rattlesnake.		
At sea.....	24 43	59 46	1845	58 52 s.	58·9 s.	9·32	9·32	Rattlesnake.		
At sea (6 observations)	26 52	60 11	1846	58 01 s.	58·0 s.	9·36	9·36	Rattlesnake.		
At sea (6 observations)	26 23	60 31	1847	58 17 s.	58·3 s.	8·83	8·83	Dayman.		
At sea (6 observations)	25 35	60 54	1851	14 41 w.	.....	14·7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (3 observations)	27 33	61 00	1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea.....	24 50	61 11	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (2 observations)	23 07	62 00	1824	12 41 w.	.....	12·7 w.	.....	.....	.....	.....	.....	.....	.....
At sea (2 observations)	23 50	62 18	1832	11 44 w.	.....	11·7 w.	.....	.....	.....	.....	.....	.....	.....
At sea (3 observations)	25 42	62 25	1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (8 observations)	22 21	62 26	1861	10 40 w.	.....	10·7 w.	.....	.....	.....	.....	.....	.....	.....
At sea.....	24 23	62 54	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (6 observations)	20 40	62 58	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (2 observations)	20 39	63 01	1845	8 27 w.	.....	8·4 w.	.....	.....	.....	.....	.....	.....	.....
At sea (3 observations)	28 02	63 15	1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (3 observations)	25 42	62 25	1846	58 22 s.	58·4 s.	9·49	9·49	H.M.S. 'Fly.'		
At sea (8 observations)	22 21	62 26	1861	10 40 w.	.....	10·7 w.	.....	.....	.....	.....	.....	.....	.....
At sea.....	24 23	62 54	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (6 observations)	20 40	62 58	1845	57 57 s.	57·9 s.	8·82	8·82	Denham.		
At sea (2 observations)	20 39	63 01	1845	8 27 w.	8·4 w.	53 53 s.	53·9 s.	8·79	8·79	Dayman.		
At sea (3 observations)	28 02	63 15	1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (3 observations)	25 42	62 25	1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (3 observations)	27 33	61 00	1847	59 06 s.	59·1 s.	9·44	9·44	Moore.		
At sea.....	24 50	61 11	1845	58 15 s.	58·3 s.	8·97	8·97	Pagoda.		
At sea (2 observations)	23 07	62 00	1824	12 41 w.	.....	12·7 w.	.....	.....	.....	.....	.....	.....	.....
At sea (2 observations)	23 50	62 18	1832	11 44 w.	.....	11·7 w.	.....	.....	.....	.....	.....	.....	.....
At sea (3 observations)	25 42	62 25	1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (8 observations)	22 21	62 26	1861	10 40 w.	.....	10·7 w.	.....	.....	.....	.....	.....	.....	.....
At sea.....	24 23	62 54	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (6 observations)	20 40	62 58	1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea (2 observations)	20 39	63 01	1845	8 27 w.	.....	8·4 w.	.....	.....	.....	.....	.....	.....	.....
At sea (3 observations)	28 02	63 15	1847	.....	.....	.....	.....	59 36 s.	.....	59·6 s.	.....	.....	.....

SOUTH EQUATORIAL ZONE III.—Lat. 20° to 30° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	
At sea (5 observations)	20 37	85 02	1845	.....	.....	.....	51 21 s.	.....	51.4 s.	9.46	.....	9.46	Moore.
At sea (4 observations)	20 38	85 26	1845	.....	.....	.....	51 14 s.	.....	51.2 s.	9.48	.....	9.48	Clerk.
At sea (3 observations)	20 37	85 32	1845	5 20 w.	.....	5.3 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	22 11	86 30	1845	.....	.....	.....	53 20 s.	.....	53.3 s.	9.55	.....	9.55	Dayman.
At sea(11 observations)	22 56	86 58	1860	7 19 w.	.....	7.3 w.	.....	.....	.....	.....	.....	.....	Denham.
At sea (5 observations)	20 38	87 50	1845	.....	.....	.....	51 33 s.	.....	51.5 s.	9.73	.....	9.73	Moore.
At sea (8 observations)	20 46	87 59	1845	.....	.....	.....	50 57 s.	.....	50.9 s.	9.70	.....	9.70	Clerk.
At sea (5 observations)	20 46	88 06	1845	4 45 w.	.....	4.7 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (4 observations)	21 44	89 38	1845	.....	.....	.....	51 45 s.	.....	51.7 s.	9.85	.....	9.85	Moore.
At sea (2 observations)	21 53	89 42	1845	4 23 w.	.....	4.4 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (4 observations)	21 50	89 44	1845	.....	.....	.....	52 17 s.	.....	52.3 s.	9.94	.....	9.94	Clerk.
At sea.....	22 17	89 57	1845	.....	.....	.....	53 11 s.	.....	53.2 s.	9.65	.....	9.65	Dayman.
At sea (9 observations)	22 46	90 40	1845	5 56 w.	.....	5.9 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (4 observations)	22 47	91 00	1845	.....	.....	.....	52 49 s.	.....	52.8 s.	9.92	.....	9.92	Clerk.
At sea.....	22 19	91 16	1845	.....	.....	.....	53 11 s.	.....	53.2 s.	9.57	.....	9.57	Dayman.
At sea (3 observations)	24 02	92 07	1845	.....	.....	.....	52 44 s.	.....	52.7 s.	10.24	.....	10.24	Moore.
At sea.....	24 05	92 11	1845	6 34 w.	.....	6.6 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	22 54	93 48	1845	.....	.....	.....	53 26 s.	.....	53.4 s.	10.02	.....	10.02	Dayman.
At sea (5 observations)	24 17	93 50	1845	.....	.....	.....	54 07 s.	.....	54.1 s.	10.13	.....	10.13	Moore.
At sea (4 observations)	24 17	94 06	1845	5 31 w.	.....	6.5 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	23 11	95 40	1845	.....	.....	.....	53 44 s.	.....	53.7 s.	10.00	.....	10.00	Dayman.
At sea (6 observations)	23 56	95 46	1845	6 10 w.	.....	6.2 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (5 observations)	23 50	95 56	1845	.....	.....	.....	54 26 s.	.....	54.4 s.	10.32	.....	10.32	Moore.
At sea (4 observations)	24 00	96 06	1845	.....	.....	.....	54 16 s.	.....	54.3 s.	10.23	.....	10.23	Clerk.
At sea (3 observations)	28 48	96 33	1848	.....	.....	.....	58 51 s.	.....	58.8 s.	11.02	.....	11.02	Rattlesnake.
At sea (6 observations)	20 33	97 11	1846	.....	.....	.....	50 14 s.	.....	50.2 s.	9.95	.....	9.95	H.M.S. 'Fly.'
At sea (4 observations)	24 01	97 25	1845	.....	.....	.....	54 18 s.	.....	54.3 s.	10.35	.....	10.35	Moore.
At sea (4 observations)	24 01	97 30	1845	.....	.....	.....	54 03 s.	.....	54.1 s.	10.33	.....	10.33	Clerk.
At sea (4 observations)	24 01	97 34	1845	7 08 w.	.....	7.1 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (9 observations)	24 51	97 34	1848	.....	.....	.....	54 51 s.	.....	54.8 s.	.....	.....	.....	Rattlesnake.
At sea (3 observations)	21 12	98 47	1846	.....	.....	.....	49 55 s.	.....	49.9 s.	10.04	.....	10.04	H.M.S. 'Fly.'
At sea (4 observations)	23 58	99 06	1845	.....	.....	.....	53 46 s.	.....	53.8 s.	10.35	.....	10.35	Moore.
At sea.....	20 11	99 13	1829	3 02 w.	.....	3.0 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea (4 observations)	23 58	99 21	1845	5 14 w.	.....	5.2 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	27 45	99 23	1827	5 30 w.	.....	5.5 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea (4 observations)	24 00	99 23	1845	.....	.....	.....	54 28 s.	.....	54.5 s.	10.24	.....	10.24	Clerk.
At sea.....	24 00	99 33	1845	.....	.....	.....	54 20 s.	.....	54.3 s.	10.54	.....	10.54	Dayman.
At sea (6 observations)	21 36	100 30	1846	.....	.....	.....	51 50 s.	.....	51.8 s.	10.19	.....	10.19	H.M.S. 'Fly.'
At sea.....	24 50	101 31	1845	.....	.....	.....	54 44 s.	.....	54.7 s.	10.60	.....	10.60	Dayman.
At sea (2 observations)	24 07	102 28	1845	5 32 w.	.....	5.5 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (3 observations)	23 02	102 50	1846	.....	.....	.....	52 44 s.	.....	52.7 s.	10.34	.....	10.34	H.M.S. 'Fly.'
At sea.....	25 52	102 58	1845	.....	.....	.....	55 50 s.	.....	55.8 s.	10.65	.....	10.65	Dayman.
At sea.....	23 22	103 18	1827	3 00 w.	.....	3.0 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea (3 observations)	24 45	103 48	1846	.....	.....	.....	55 34 s.	.....	55.6 s.	10.71	.....	10.71	H.M.S. 'Fly.'
At sea.....	26 44	104 26	1845	.....	.....	.....	56 54 s.	.....	56.9 s.	10.98	.....	10.98	Dayman.
At sea (4 observations)	25 46	104 55	1845	.....	.....	.....	55 05 s.	.....	55.1 s.	10.84	.....	10.84	Moore.
At sea.....	28 04	105 06	1845	.....	.....	.....	58 33 s.	.....	58.5 s.	11.19	.....	11.19	Dayman.
At sea (4 observations)	26 00	105 11	1845	.....	.....	.....	55 09 s.	.....	55.2 s.	11.01	.....	11.01	Clerk.
At sea (2 observations)	22 04	105 13	1836	3 40 w.	.....	3.7 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (3 observations)	26 15	105 15	1846	.....	.....	.....	56 47 s.	.....	56.8 s.	10.79	.....	10.79	H.M.S. 'Fly.'
At sea (3 observations)	26 10	105 16	1845	5 30 w.	.....	5.5 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	29 40	105 28	1845	.....	.....	.....	59 37 s.	.....	59.6 s.	11.52	.....	11.52	Dayman.
At sea (7 observations)	27 35	106 32	1845	.....	.....	.....	57 26 s.	.....	57.4 s.	11.07	.....	11.07	Moore.
At sea (2 observations)	27 41	106 35	1845	6 33 w.	.....	6.5 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (4 observations)	27 47	106 36	1845	.....	.....	.....	57 17 s.	.....	57.3 s.	11.16	.....	11.16	Clerk.
At sea (5 observations)	29 16	106 49	1845	.....	.....	.....	59 30 s.	.....	59.5 s.	11.23	.....	11.23	Moore.
At sea (2 observations)	29 20	106 55	1845	6 30 w.	.....	6.5 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (4 observations)	29 20	106 55	1845	.....	.....	.....	59 19 s.	.....	59.3 s.	11.64	.....	11.64	Clerk.
At sea (3 observations)	27 30	108 28	1846	.....	.....	.....	58 49 s.	.....	58.8 s.	11.22	.....	11.22	H.M.S. 'Fly.'
At sea (2 observations)	27 28	108 49	1836	5 09 w.	.....	5.1 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (3 observations)	29 05	111 45	1846	.....	.....	.....	57 38 s.	.....	57.6 s.	11.66	.....	11.66	H.M.S. 'Fly.'

SOUTH EQUATORIAL ZONE III.—Lat. 20° to 30° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.	Observed.	Cor. to Epoch 1842·5.	Corrected.	
At sea (3 observations)	25 50	182 55	1863	11 42 E.	.....	11·7 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (2 observations)	26 08	182 57	1863	10 39 E.	.....	10·6 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	28 39	183 02	1863	10 54 E.	.....	10·9 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (2 observations)	28 19	183 19	1863	11 45 E.	.....	11·7 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (2 observations)	28 29	183 29	1863	11 12 E.	.....	11·2 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (5 observations)	25 12	183 45	1863	10 33 E.	.....	10·5 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	26 32	183 57	1863	10 04 E.	.....	10·1 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (3 observations)	26 00	184 29	1863	9 48 E.	.....	9·8 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (4 observations)	24 34	184 59	1863	10 31 E.	.....	10·5 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (4 observations)	20 53	185 12	1827	10 48 E.	.....	10·8 E.	.....	.....	.....	.....	.....	.....	Dumont d'Urville.
At sea (2 observations)	24 36	185 18	1854	9 17 E.	.....	9·3 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (2 observations)	22 41	190 59	1835	10 58 E.	.....	11·0 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (4 observations)	20 48	195 47	1835	9 28 E.	.....	9·5 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
Rarotonga Island.....	21 12	200 14	1840	8 34 E.	0 03 E.	8·6 E.	36 09 s.	.....	36·2 s.	9·96	.....	9·96	Belcher.
At sea (3 observations)	27 25	205 59	1859	8 48 E.	9 17 W.	8·5 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	22 17	209 33	1830	.....	.....	.....	36 33 s.	.....	36·5 s.	9·00	.....	9·00	Erman.
At sea.....	23 17	209 45	1830	7 19 E.	0 12 E.	7·5 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	22 58	209 47	1859	8 56 E.	0 17 W.	8·6 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	20 11	209 51	1830	7 25 E.	0 12 E.	7·6 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	27 07	209 55	1830	8 55 E.	0 12 E.	9·1 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	26 51	210 02	1830	8 24 E.	0 12 E.	8·6 E.	43 06 s.	.....	43·1 s.	10·18	.....	10·18	Erman.
At sea.....	27 43	210 04	1830	.....	.....	.....	44 03 s.	.....	44·0 s.	10·00	.....	10·00	Erman.
At sea (2 observations)	25 03	210 07	1830	8 03 E.	0 12 E.	8·2 E.	40 20 s.	.....	40·3 s.	9·57	.....	9·57	Erman.
At sea (5 observations)	21 42	210 09	1859	7 24 E.	0 17 W.	7·1 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	26 01	210 27	1830	7 21 E.	.....	7·3 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	28 26	210 57	1830	8 16 E.	.....	8·3 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	29 00	211 08	1830	7 57 E.	.....	7·9 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	29 06	212 45	1830	7 54 E.	.....	7·9 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	28 56	213 24	1830	.....	.....	.....	45 25 s.	.....	45·4 s.	9·77	.....	9·77	Erman.
At sea (2 observations)	29 21	213 31	1830	8 40 E.	.....	8·7 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	28 37	213 42	1830	9 31 E.	.....	9·5 E.	.....	.....	.....	.....	.....	.....	Erman.
Pitcairn Island.....	25 02	226 52	1825	6 00 E.	.....	6·0 E.	.....	.....	.....	.....	.....	.....	Beechey.
At sea (2 observations)	23 57	227 10	1859	7 39 E.	.....	7·6 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea (2 observations)	27 32	229 08	1859	8 17 E.	.....	8·3 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	21 51	268 05	1827	10 45 E.	.....	10·7 E.	32 06 s.	.....	32·1 s.	8·13	.....	8·13	Lütke.
At sea (5 observations)	22 26	269 12	1827	11 26 E.	.....	11·4 E.	.....	.....	.....	.....	.....	.....	Lütke.
At sea (9 observations)	20 43	270 46	1857	13 04 E.	.....	13·1 E.	.....	.....	.....	.....	.....	.....	Richards.
At sea (3 observations)	22 15	273 23	1857	13 55 E.	.....	13·9 E.	.....	.....	.....	.....	.....	.....	Richards.
At sea.....	24 26	276 45	1857	15 10 E.	.....	15·2 E.	.....	.....	.....	.....	.....	.....	Richards.
At sea (4 observations)	27 48	277 17	1827	13 17 E.	.....	13·3 E.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	29 38	278 56	1827	12 47 E.	.....	12·8 E.	40 01 s.	.....	40 0 s.	8·96	.....	8·96	Lütke.
At sea (2 observations)	26 25	279 43	1857	16 33 E.	.....	16·5 E.	.....	.....	.....	.....	.....	.....	Richards.
At sea (2 observations)	28 27	280 47	1850	14 47 E.	.....	14·8 E.	.....	.....	.....	.....	.....	.....	Young.
At sea (3 observations)	22 34	281 59	1830	11 16 E.	.....	11·3 E.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	28 32	283 22	1857	14 58 E.	.....	15·0 E.	.....	.....	.....	.....	.....	.....	Richards.
At sea (5 observations)	27 02	286 32	1827	14 05 E.	.....	14·1 E.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	28 01	286 33	1836	12 52 E.	.....	12·9 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	25 19	286 52	1836	13 00 E.	.....	13·0 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	20 28	287 36	1836	11 08 E.	.....	11·1 E.	.....	.....	.....	.....	.....	.....	Bonite.
Coquimbo.....	29 59	288 34	1828	14 24 E.	.....	14·4 E.	.....	.....	.....	.....	.....	.....	Beechey.
			1868	14 17 E.	.....	14·3 E.	29 55 s.	.....	29·9 s.	7·31	.....	7·31	H.M.S. 'Nassau.'
Mean of 3 stations ...	29 56	288 37	1835	14 21 E.	.....	14·3 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
Huasco (3 stations) ...	28 41	288 40	1835	13 33 E.	.....	13·5 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	23 33	288 52	1836	11 30 E.	.....	11·5 E.	.....	.....	.....	.....	.....	.....	Bonite.
Mean of 3 stations ...	27 23	288 58	1835	13 31 E.	.....	13·5 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
Copiapo.....	27 13	289 02	1827	13 25 E.	.....	13·4 E.	.....	.....	.....	.....	.....	.....	Prussian ships.
Lavata (3 stations) ...	25 46	289 18	1835	13 25 E.	.....	13·4 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
Cobija (2 stations) ...	23 00	289 30	1835	12 39 E.	.....	12·6 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
Near R. Loa (2 stations)	21 44	289 46	1835	12 03 E.	.....	12·1 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
Río Parana.....	29 00	300 56	1846	10 40 E.	.....	10·7 E.	.....	.....	.....	.....	.....	.....	Sullivan.
Corrientes Fort.....	27 27	301 16	1846	9 24 E.	.....	9·4 E.	.....	.....	.....	.....	.....	.....	Sullivan.
Asuncion, Paraguay...	25 16	302 32	1860	8 29 E.	.....	8·5 E.	18 04 s.	.....	18·1 s.	6·51	.....	6·51	Friesach.

SOUTH EQUATORIAL ZONE III.—Lat. 20° to 30° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British Units.			Observers.
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	
	° ' "	° ' "		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	
At sea.....	23 05	318 09	1836	2 30 E.	0 44 W.	1.8 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	29 17	318 13	1843	0 00	.....	0.0	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	23 30	318 13	1830	1 03 E.	1 15 W.	0.2 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	28 14	318 25	1844	0 00	0 10 W.	0.2 W.	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	24 56	318 37	1836	0 23 E.	0 39 W.	0.3 W.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	27 11	318 38	1844	0 00	.....	0.0	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	23 49	318 45	1830	0 28 E.	1 15 W.	0.8 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	23 51	318 51	1830	.....	.....	.....	16 27 s.	.....	16.5 s.	.....	.....	.....	Erman.
At sea (3 observations)	22 53	319 03	1832	0 15 E.	1 03 W.	0.8 W.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	22 53	319 18	1837	2 12 W.	0 33 W.	2.7 W.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	25 59	319 19	1847	1 33 W.	0 30 E.	1.0 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	25 57	319 21	1847	.....	.....	.....	17 43 s.	.....	17.7 s.	6.54	.....	6.54	Rattlesnake.
At sea (2 observations)	24 15	319 36	1830	0 50 W.	1 15 W.	2.1 W.	16 35 s.	.....	16.6 s.	6.45	.....	6.45	Erman.
At sea.....	23 11	319 49	1826	3 18 E.	1 27 W.	2.8 W.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	24 50	320 31	1830	.....	.....	.....	17 27 s.	.....	17.5 s.	6.56	.....	6.56	Erman.
At sea.....	20 50	320 32	1843	3 00 W.	.....	3.0 W.	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	22 07	320 39	1847	3 01 W.	0 27 E.	2.6 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	22 09	320 42	1847	.....	.....	.....	10 54 s.	.....	10.9 s.	6.37	.....	6.37	Rattlesnake.
At sea (4 observations)	25 54	321 00	1829	3 24 E.	1 21 W.	2.0 W.	.....	.....	.....	.....	.....	.....	Rumker.
At sea.....	24 43	321 12	1830	1 15 W.	1 15 W.	2.5 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea (3 observations)	22 08	321 35	1826	0 09 E.	1 39 W.	1.5 W.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (3 observations)	27 26	321 49	1847	.....	.....	.....	20 31 s.	.....	20.5 s.	.....	.....	.....	Rattlesnake.
At sea.....	23 27	321 50	1839	.....	.....	.....	12 52 s.	.....	12.9 s.	6.17	.....	6.17	Sullivan.
At sea (2 observations)	21 21	321 58	1833	2 20 W.	0 57 W.	3.3 W.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	20 12	322 06	1847	5 05 W.	0 27 E.	4.6 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	20 05	322 08	1847	.....	.....	.....	8 15 s.	.....	8.3 s.	6.26	.....	6.26	Rattlesnake.
At sea.....	27 52	322 42	1847	2 20 W.	0 27 E.	1.9 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	24 58	322 46	1830	1 21 W.	1 15 W.	2.6 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea (3 observations)	27 23	322 48	1857	3 54 W.	1 27 E.	2.4 W.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	23 05	323 39	1839	.....	.....	.....	13 00 s.	.....	13.0 s.	6.09	.....	6.09	Sullivan.
At sea (3 observations)	28 23	323 47	1847	.....	.....	.....	22 36 s.	.....	22.6 s.	6.46	.....	6.46	Rattlesnake.
At sea (2 observations)	24 50	323 48	1830	2 29 W.	1 15 W.	3.7 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	24 53	324 26	1830	.....	.....	.....	18 35 s.	.....	18.6 s.	6.36	.....	6.36	Erman.
At sea.....	20 56	324 42	1830	3 45 W.	1 15 W.	5.0 W.	9 47 s.	.....	9.8 s.	6.03	.....	6.03	Erman.
At sea.....	20 10	324 52	1830	3 19 W.	1 15 W.	4.6 W.	7 56 s.	.....	7.9 s.	5.44	.....	5.44	Erman.
At sea (2 observations)	22 29	324 52	1830	3 33 W.	1 15 W.	4.8 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	22 39	324 58	1842	3 30 W.	.....	3.5 W.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (3 observations)	24 58	325 03	1830	2 49 W.	1 15 W.	4.1 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	20 29	325 07	1826	2 00 W.	1 39 W.	3.6 W.	.....	.....	.....	.....	.....	.....	Lütke.
At sea (2 observations)	24 03	325 09	1830	3 17 W.	1 15 W.	4.5 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	24 44	325 10	1830	3 05 W.	1 15 W.	4.3 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea (2 observations)	24 16	325 12	1830	.....	.....	.....	16 07 s.	.....	16.1 s.	6.05	.....	6.05	Erman.
At sea.....	23 21	325 15	1830	3 12 W.	1 15 W.	4.4 W.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	22 21	325 34	1839	.....	.....	.....	12 37 s.	.....	12.6 s.	6.00	.....	6.00	Sullivan.
At sea.....	21 40	325 55	1839	.....	.....	.....	10 55 s.	.....	10.9 s.	6.21	.....	6.21	Sullivan.
At sea (2 observations)	28 56	327 03	1857	6 36 W.	1 27 E.	5.1 W.	.....	.....	.....	.....	.....	.....	Novara.
At sea (2 observations)	26 02	328 18	1842	4 30 W.	.....	4.5 W.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	21 11	329 31	1822	3 20 W.	2 00 W.	5.3 W.	12 42 s.	.....	12.7 s.	.....	.....	.....	Duperrey.
At sea (3 observations)	28 36	329 42	1850	.....	.....	.....	20 55 s.	.....	20.9 s.	6.54	.....	6.54	Rattlesnake.
At sea.....	25 38	329 54	1826	4 55 W.	1 39 W.	6.6 W.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	22 01	330 22	1826	6 10 W.	1 39 W.	7.8 W.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	20 30	330 37	1839	8 01 W.	0 21 W.	8.4 W.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	27 28	330 38	1842	5 40 W.	.....	5.7 W.	.....	.....	.....	.....	.....	.....	Bérard.
Island of Trinidad ...	20 31	330 38	1839	.....	.....	.....	.....	.....	6.09	.....	6.09	.....	Erebus.
At sea (3 observations)	20 15	330 44	1842	.....	.....	.....	12 03 s.	.....	12.1 s.	6.23	.....	6.23	H.M.S. 'Fly.'
At sea.....	21 30	330 46	1839	9 43 W.	0 21 W.	10.1 W.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	21 31	330 47	1839	.....	.....	.....	.....	.....	6.12	.....	6.12	.....	Erebus.
At sea.....	21 47	330 50	1839	.....	.....	.....	.....	.....	6.13	.....	6.13	.....	Erebus.
At sea.....	22 40	330 52	1839	9 01 W.	0 21 W.	9.4 W.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	23 14	330 55	1839	.....	.....	.....	.....	.....	6.17	.....	6.17	.....	Erebus.
At sea.....	23 19	330 56	1839	7 45 W.	0 21 W.	8.1 W.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	20 01	331 00	1830	6 04 W.	1 15 W.	7.3 W.	.....	.....	.....	.....	.....	.....	Biscoe.

SOUTH EQUATORIAL ZONE III.—Lat. 20° to 30° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	
	° ' "	° ' "		° ' "		°							
At sea (2 observations)	24 10	343 05	1840	.....	.....	.....	.....	.....	.....	6.08	.....	6.08	Erebus.
At sea.....	22 56	343 30	1840	.....	.....	.....	.....	.....	.....	6.12	.....	6.12	Terror.
At sea.....	22 54	343 36	1840	14 59 w.	.....	15.0 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	22 41	343 42	1840	.....	.....	.....	.....	.....	.....	6.08	.....	6.08	Erebus.
At sea.....	21 43	344 13	1840	.....	.....	.....	.....	.....	.....	6.08	.....	6.08	Terror.
At sea (2 observations)	21 30	344 17	1840	.....	.....	.....	.....	.....	.....	6.07	.....	6.07	Erebus.
At sea.....	20 31	345 05	1840	.....	.....	.....	.....	.....	.....	6.00	.....	6.00	Terror.
At sea.....	20 20	345 07	1840	17 50 w.	.....	17.8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	20 20	345 12	1840	.....	.....	.....	.....	.....	.....	6.07	.....	6.07	Erebus.
At sea.....	29 56	345 53	1846	17 48 w.	.....	17.8 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	27 00	346 33	1840	17 53 w.	.....	17.9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	27 03	346 33	1840	.....	.....	.....	.....	.....	.....	6.32	.....	6.32	Erebus.
At sea.....	26 51	346 37	1840	.....	.....	.....	.....	.....	.....	6.21	.....	6.21	Terror.
At sea.....	27 54	346 42	1840	.....	.....	.....	.....	.....	.....	6.26	.....	6.26	Terror.
At sea (2 observations)	27 56	346 43	1840	.....	.....	.....	.....	.....	.....	6.25	.....	6.25	Erebus.
At sea.....	27 53	346 43	1840	18 30 w.	.....	18.5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	26 08	347 03	1840	.....	.....	.....	.....	.....	.....	6.19	.....	6.19	Erebus.
At sea.....	26 03	347 07	1840	.....	.....	.....	.....	.....	.....	6.16	.....	6.16	Terror.
At sea.....	26 10	347 18	1840	17 51 w.	.....	17.8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	25 23	347 49	1840	19 55 w.	.....	19.9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	25 38	347 41	1840	.....	.....	.....	.....	.....	.....	6.21	.....	6.21	Erebus.
At sea.....	25 18	347 54	1840	.....	.....	.....	.....	.....	.....	6.15	.....	6.15	Terror.
At sea (2 observations)	25 20	347 54	1840	.....	.....	.....	.....	.....	.....	6.14	.....	6.14	Erebus.
At sea (4 observations)	24 26	348 12	1840	.....	.....	.....	.....	.....	.....	6.14	.....	6.14	Erebus.
At sea.....	28 48	348 14	1840	18 19 w.	.....	18.3 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	28 47	348 15	1840	.....	.....	.....	.....	.....	.....	6.32	.....	6.32	Terror.
At sea (5 observations)	24 35	348 34	1840	.....	.....	.....	.....	.....	.....	6.11	.....	6.11	Terror.
At sea (2 observations)	24 33	348 39	1840	.....	.....	.....	.....	.....	.....	6.12	.....	6.12	Erebus.
At sea.....	24 41	348 39	1840	20 21 w.	.....	20.3 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	29 03	348 46	1840	.....	.....	.....	.....	.....	.....	6.26	.....	6.26	Erebus.
At sea.....	28 05	349 15	1846	19 56 w.	.....	19.9 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (3 observations)	23 47	350 29	1840	.....	.....	.....	.....	.....	.....	6.12	.....	6.12	Erebus.
At sea (4 observations)	23 37	350 35	1840	.....	.....	.....	.....	.....	.....	6.10	.....	6.10	Terror.
At sea.....	29 56	350 42	1840	.....	.....	.....	.....	.....	.....	6.27	.....	6.27	Terror.
At sea.....	29 58	350 52	1840	19 55 w.	.....	19.9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	23 32	351 04	1840	21 39 w.	.....	21.6 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	23 35	351 05	1840	.....	.....	.....	.....	.....	.....	6.14	.....	6.14	Erebus.
At sea.....	22 00	351 19	1840	22 17 w.	.....	22.3 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	22 21	351 22	1840	.....	.....	.....	.....	.....	.....	6.12	.....	6.12	Erebus.
At sea (3 observations)	22 14	351 25	1840	.....	.....	.....	.....	.....	.....	6.19	.....	6.19	Terror.
At sea (2 observations)	22 02	351 27	1840	.....	.....	.....	.....	.....	.....	6.15	.....	6.15	Erebus.
At sea (4 observations)	22 00	351 30	1840	.....	.....	.....	.....	.....	.....	6.20	.....	6.20	Terror.
At sea (2 observations)	20 51	351 54	1840	.....	.....	.....	.....	.....	.....	6.17	.....	6.17	Erebus.
At sea.....	20 15	352 04	1840	23 12 w.	.....	23.2 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	20 22	352 06	1840	.....	.....	.....	.....	.....	.....	6.14	.....	6.14	Terror.
At sea.....	24 50	353 32	1846	21 09 w.	.....	21.1 w.	.....	.....	.....	.....	.....	.....	Bérard.

SOUTH EQUATORIAL ZONE IV.—LATITUDE 30° TO 40° S.

Authorities.

- Bérard MS. received from Admiral Duperrey.
- Bonite Voyage de la Bonite (Paris, 1842).
- Novara (Austrian Frigate) Reise um die Erde (Wien, 1862-65).
- Vénus (La) Voyage de la Vénus (Paris, 1841).

Authorities (continued).

- Erman Reise um die Erde (Berlin, 1841).
- Dunlop.....
- Smith
- Moore
- Clerk
- Pagoda.....
- Erebus
- Terror
- Bethune
- Wickham.....
- Dayman
- Sullivan.....
- Stanley.....
- Ross
- Crozier
- Pasley
- Du Petit Thouars..... Sabine in Phil. Trans. 1849.
- D'Urville
- Lütke
- Prussian Ships.....
- Jehenne
- Owen
- Bellamy
- Stirling
- Duperrey
- Bougainville.....
- Herd
- Cécille
- Laplace
- King.....
- Morrell.....
- Kotzebue
- FitzRoy Voyage of the 'Beagle' (1849).
- Rattlesnake H.M.S. 'Rattlesnake,' MSS. in the Hydrographic Office.
- Belcher MSS. in the Magnetic Office, and Sabine in Phil. Trans. 1840.
- Anonymous MSS. in the Magnetic Office, received from Hydrographic Office.
- D'Orbigny L. S. Kämtz, MSS.
- Biscoe L. S. Kämtz, MSS.
- Rumker L. S. Kämtz, MSS.
- Denham MSS. in Magnetic Office, received from Hydrographic Office.
- Beechey MSS. in Magnetic Office, received from Admiral Sir E. Belcher.
- Harkness Smithsonian Contributions, vol. xviii.
- H.M.S. 'Fly' MSS. in the Hydrographic Office.
- H.M.S. 'Nassau'..... MSS. in the Hydrographic Office.
- Macrae (U.S. Navy) Astronomical Expedition from Santiago de Chilé to Buenos Ayres.
- Stokes H.M.S. 'Acheron,' MSS. in the Hydrographic Office.
- Drury H.M.S. 'Pandora,' MSS. in the Hydrographic Office.
- Kerr H.M.S. 'Pandora,' MSS. in the Hydrographic Office.
- Kellett H.M.S. 'Herald,' MSS. in the Hydrographic Office.
- Richards H.M.S. 'Hecate,' MSS. in the Hydrographic Office.

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S.

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	
At sea.....	38 44	0 16	1831	.....	.....	.....	43 44 s.	.....	43-7 s.	6-82	.....	6-82	Dunlop.
At sea.....	38 52	1 01	1847	23 41 w.	0 15 E.	23-4 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	32 00	1 48	1840	24 07 w.	0 06 w.	24-2 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	31 57	2 02	1840	.....	.....	.....	.....	.....	.....	6-64	.....	6-64	Terror.
At sea.....	32 01	2 17	1840	.....	.....	.....	.....	.....	.....	6-63	.....	6-63	Ross.
At sea.....	39 03	3 16	1831	.....	.....	.....	44 48 s.	.....	44-8 s.	6-82	.....	6-82	Dunlop.
At sea (3 observations)	38 28	3 37	1847	.....	.....	.....	48 06 s.	.....	48-1 s.	7-27	.....	7-27	Rattlesnake.
At sea.....	32 39	4 18	1840	.....	.....	.....	.....	.....	.....	6-85	.....	6-85	Ross.
At sea.....	38 00	4 20	1844	.....	.....	.....	52 00 s.	.....	52-0 s.	.....	.....	.....	Smith.
At sea.....	32 35	4 20	1840	.....	.....	.....	.....	.....	.....	6-67	.....	6-67	Terror.
At sea.....	32 41	4 24	1840	24 49 w.	0 06 w.	25-9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	35 23	4 25	1857	26 19 w.	0 44 E.	25-6 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	38 19	4 37	1847	24 30 w.	0 14 E.	24-3 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	39 45	4 40	1831	.....	.....	.....	46 24 s.	.....	46-4 s.	6-89	.....	6-89	Dunlop.
At sea.....	33 02	5 40	1840	.....	.....	.....	.....	.....	.....	6-89	.....	6-89	Terror.
At sea.....	33 09	5 48	1840	.....	.....	.....	.....	.....	.....	6-84	.....	6-84	Ross.
At sea.....	33 14	6 03	1840	26 48 w.	0 04 w.	26-9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	39 10	6 20	1831	.....	.....	.....	46 55 s.	.....	46-9 s.	6-97	.....	6-97	Dunlop.
At sea (2 observations)	35 58	7 17	1826	24 40 w.	0 33 w.	25-2 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea (2 observations)	33 25	7 30	1840	.....	.....	.....	.....	.....	.....	6-91	.....	6-91	Ross.
At sea.....	33 20	7 32	1849	.....	.....	.....	.....	.....	.....	6-88	.....	6-88	Terror.
At sea (3 observations)	37 42	7 37	1847	.....	.....	.....	49 33 s.	.....	49-5 s.	7-35	.....	7-35	Rattlesnake.
At sea.....	38 28	7 45	1844	.....	.....	.....	53 03 s.	.....	53-0 s.	.....	.....	.....	Smith.
At sea.....	33 29	7 48	1840	27 13 w.	0 04 w.	27-3 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	33 10	9 02	1840	.....	.....	.....	.....	.....	.....	6-91	.....	6-91	Terror.
At sea.....	33 21	9 04	1840	.....	.....	.....	.....	.....	.....	6-93	.....	6-93	Ross.
At sea.....	33 27	9 06	1840	28 27 w.	0 04 w.	28-5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	37 10	9 28	1847	27 12 w.	0 10 E.	27-0 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	33 01	9 52	1840	28 21 w.	0 04 w.	28-4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	33 03	9 55	1840	.....	.....	.....	.....	.....	.....	7-04	.....	7-04	Terror.
At sea.....	38 11	10 07	1842	26 00 w.	.....	26-0 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	33 08	10 11	1840	.....	.....	.....	.....	.....	.....	6-97	.....	6-97	Ross.
At sea.....	39 00	10 12	1831	.....	.....	.....	48 31 s.	.....	48-5 s.	6-97	.....	6-97	Dunlop.
At sea (3 observations)	36 48	10 19	1847	.....	.....	.....	50 27 s.	.....	50-4 s.	7-43	.....	7-43	Rattlesnake.
At sea.....	33 14	10 37	1840	29 22 w.	0 05 w.	29-5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	30 02	11 37	1839	26 21 w.	0 07 w.	26-5 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	33 08	11 43	1840	.....	.....	.....	.....	.....	.....	7-15	.....	7-15	Terror.
At sea (3 observations)	36 41	11 48	1847	.....	.....	.....	50 50 s.	.....	50-8 s.	7-48	.....	7-48	Rattlesnake.
At sea.....	33 11	11 57	1840	.....	.....	.....	.....	.....	.....	6-99	.....	6-99	Ross.
At sea.....	39 06	12 00	1844	.....	.....	.....	55 42 s.	.....	55-7 s.	.....	.....	.....	Smith.
At sea.....	36 40	12 05	1847	27 50 w.	.....	27-8 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	31 25	13 21	1839	27 19 w.	.....	27-3 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea (6 observations)	35 24	13 23	1845	.....	.....	.....	51 19 s.	.....	51-3 s.	6-99	.....	6-99	Moore.
At sea (4 observations)	37 25	13 24	1845	.....	.....	.....	51 44 s.	.....	51-7 s.	7-23	.....	7-23	Clerk.
At sea (3 observations)	35 10	13 25	1845	25 40 w.	.....	25-7 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (3 observations)	35 12	13 28	1845	.....	.....	.....	51 35 s.	.....	51-6 s.	7-12	.....	7-12	Clerk.
At sea.....	33 00	13 36	1840	28 44 w.	.....	28-7 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	34 14	13 44	1857	29 31 w.	0 15 E.	29-3 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	32 56	13 48	1840	.....	.....	.....	.....	.....	.....	7-16	.....	7-16	Terror.
At sea.....	36 20	13 48	1847	28 27 w.	.....	28-5 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	35 17	14 00	1845	27 15 w.	.....	27-3 w.	51 16 s.	.....	51-3 s.	6-92	.....	6-92	Moore and Clerk.
At sea.....	32 57	14 00	1840	.....	.....	.....	.....	.....	.....	7-09	.....	7-09	Ross.
At sea.....	39 07	14 00	1831	.....	.....	.....	49 55 s.	.....	49-9 s.	7-19	.....	7-19	Dunlop.
At sea (6 observations)	36 24	14 02	1847	.....	.....	.....	52 12 s.	.....	52-2 s.	7-60	.....	7-60	Rattlesnake.
At sea.....	30 40	14 08	1837	28 35 w.	0 05 w.	28-7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea (4 observations)	32 59	14 18	1829	27 40 w.	0 13 w.	27-9 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	32 53	14 21	1840	29 36 w.	.....	29-6 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	38 43	14 25	1845	25 09 w.	.....	25-1 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (7 observations)	38 42	14 27	1845	.....	.....	.....	53 31 s.	.....	53-5 s.	7-33	.....	7-33	Moore.
At sea (4 observations)	38 37	14 27	1845	.....	.....	.....	52 39 s.	.....	52-6 s.	7-55	.....	7-55	Clerk.
At sea (11 observations)	39 18	14 28	1845	28 20 w.	.....	28-3 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (5 observations)	33 14	14 29	1836	28 53 w.	.....	28-9 w.	.....	.....	.....	.....	.....	.....	Prussian ships.

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.		
				Observed.	Correction to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.			
At sea (7 observations)	39 10	14 38	1845	.....	.....	.....	54 12 s.	.....	54.2 s.	7.22	.....	7.22	Moore.
At sea (4 observations)	39 10	14 41	1845	.....	.....	.....	54 14 s.	.....	54.2 s.	7.41	.....	7.41	Clerk.
At sea (4 observations)	35 26	15 08	1845	28 39 w.	.....	28.7 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (6 observations)	35 29	15 09	1845	.....	.....	.....	51 27 s.	.....	51.5 s.	7.25	.....	7.25	Moore.
At sea	32 14	15 20	1840	.....	.....	.....	.....	.....	.....	7.27	.....	7.27	Terror.
At sea	32 33	15 24	1840	.....	.....	.....	.....	.....	.....	7.15	.....	7.15	Ross.
At sea	32 57	15 27	1842	31 16 w.	.....	31.3 w.	.....	.....	.....	.....	.....	.....	Jehenne.
At sea	33 21	15 38	1837	31 22 w.	.....	31.4 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea	39 42	15 44	1844	.....	.....	.....	57 06 s.	.....	57.1 s.	.....	.....	.....	Smith.
At sea	32 23	15 52	1840	29 23 w.	.....	29.4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea	33 45	15 51	1837	28 43 w.	.....	28.7 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea	32 03	15 52	1837	27 16 w.	.....	27.3 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea	33 28	15 57	1839	26 37 w.	.....	26.6 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea	39 11	15 59	1843	28 22 w.	.....	28.4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea	39 52	16 04	1843	26 38 w.	.....	26.6 w.	.....	.....	.....	.....	.....	.....	Crozier.
At sea (3 observations)	33 33	16 15	1846	.....	.....	.....	52 39 s.	.....	52.6 s.	7.24	.....	7.24	H.M.S. 'Fly.'
At sea	35 59	16 22	1843	27 50 w.	.....	27.8 w.	.....	.....	.....	.....	.....	.....	Crozier.
At sea	32 44	16 27	1840	.....	.....	.....	.....	.....	.....	7.44	.....	7.44	Terror.
At sea (6 observations)	30 39	16 28	1846	.....	.....	.....	51 03 s.	.....	51.1 s.	7.29	.....	7.29	H.M.S. 'Fly.'
At sea	37 44	16 36	1840	.....	.....	.....	.....	.....	.....	7.37	.....	7.37	Terror.
At sea	32 45	16 37	1840	.....	.....	.....	.....	.....	.....	7.12	.....	7.12	Ross.
At sea	38 26	16 39	1843	29 24 w.	.....	29.4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea	33 01	16 41	1840	.....	.....	.....	.....	.....	.....	7.31	.....	7.31	Terror.
At sea	35 42	16 44	1843	27 11 w.	.....	27.2 w.	.....	.....	.....	.....	.....	.....	Crozier.
At sea	33 03	16 46	1840	.....	.....	.....	.....	.....	.....	7.27	.....	7.27	Ross.
At sea	33 13	16 46	1840	.....	.....	.....	.....	.....	.....	7.52	.....	7.52	Terror.
At sea	32 16	16 52	1840	.....	.....	.....	.....	.....	.....	7.31	.....	7.31	Terror.
At sea	32 49	16 53	1840	29 29 w.	.....	29.5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	33 17	16 55	1840	.....	.....	.....	.....	.....	.....	7.41	.....	7.41	Ross.
At sea	32 33	16 55	1840	29 25 w.	.....	29.4 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	34 45	16 57	1846	.....	.....	.....	53 11 s.	.....	53.2 s.	7.47	.....	7.47	H.M.S. 'Fly.'
At sea	32 17	17 00	1840	.....	.....	.....	.....	.....	.....	7.22	.....	7.22	Ross.
At sea	38 47	17 00	1840	.....	.....	.....	.....	.....	.....	7.49	.....	7.49	Terror.
At sea (4 observations)	33 56	17 04	1851	29 20 w.	.....	29.3 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea	33 21	17 07	1840	29 34 w.	.....	29.6 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea	32 59	17 08	1840	29 46 w.	.....	29.8 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea	39 22	17 24	1831	.....	.....	.....	50 59 s.	.....	51.0 s.	7.34	.....	7.34	Dunlop.
At sea	37 16	17 24	1840	.....	.....	.....	.....	.....	.....	7.41	.....	7.41	Terror.
At sea	38 58	17 26	1840	.....	.....	.....	.....	.....	.....	7.64	.....	7.64	Terror.
At sea	34 16	17 34	1840	.....	.....	.....	.....	.....	.....	7.31	.....	7.31	Terror.
At sea (4 observations)	34 42	17 36	1845	29 51 w.	.....	29.9 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea	32 31	17 41	1840	.....	.....	.....	.....	.....	.....	7.11	.....	7.11	Ross.
At sea	32 31	17 45	1840	.....	.....	.....	.....	.....	.....	7.15	.....	7.15	Terror.
At sea (7 observations)	34 46	17 46	1845	.....	.....	.....	53 34 s.	.....	53.6 s.	7.38	.....	7.38	Moore.
At sea (3 observations)	34 44	17 50	1840	.....	.....	.....	52 56 s.	.....	52.9 s.	7.35	.....	7.35	Clerk.
At sea	34 37	17 51	1840	30 10 w.	.....	30.2 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea	34 20	17 57	1840	.....	.....	.....	.....	.....	.....	7.36	.....	7.36	Ross.
At sea	34 38	17 58	1839	27 45 w.	.....	27.7 w.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea	34 18	18 03	1840	29 33 w.	.....	29.5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea	33 52	18 04	1840	.....	.....	.....	.....	.....	.....	7.42	.....	7.42	Terror.
At sea (3 observations)	34 55	18 09	1857	30 58 w.	.....	31.0 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea	33 56	18 10	1840	.....	.....	.....	.....	.....	.....	7.45	.....	7.45	Ross.
At sea (3 observations)	36 10	18 22	1842	.....	.....	.....	57 29 s.	.....	57.5 s.	7.77	.....	7.77	H.M.S. 'Fly.'
At sea	36 52	18 25	1840	.....	.....	.....	.....	.....	.....	7.46	.....	7.46	Terror.
Simon's Bay	34 11	18 26	1825	28 12 w.	0 26 w.	28.6 w.	Owen.	
			1829	28 00 w.	0 20 w.	28.3 w.	Bellamy.	
			1836	28 30 w.	0 10 w.	28.7 w.	FitzRoy.
			1837	52 35 s.	+34	53.1 s.	Bethune.
			1837	28.9 w.	52 26 s.	+29	52.9 s.	Wickham.
			1839	29 09 w.	0 05 w.	29.2 w.	52 54 s.	+29	53.4 s.	Du Petit Thouars.
			1840	29 04 w.	0 04 w.	29.1 w.	53 22 s.	+18	53.7 s.	Ross.
1840	29 40 w.	0 04 w.	29.7 w.	.....	.....	53 08 s.	+13	53.3 s.	.....	.....	.....	Ross and Crozier.	

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.	
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.		
Cape of Good Hope Observatory	33 56	18 29	1841	29 07 w.	0 02 w.	29.1 w.	53 09 s.	+ 8 53.3 s.	.....	.....	.....	} 7.53	Observatory.
			1842	29 06 w.	29.1 w.	53 14 s.	53.2 s.	Observatory.
			1843	29 04 w.	29.1 w.	53 19 s.	- 2 53.3 s.	Observatory.
			1844	29 06 w.	0 02 E.	29.1 w.	53 28 s.	- 7 53.3 s.	Observatory.
			1844	53 31 s.	- 7 53.4 s.	Observatory.
			1844	53 50 s.	- 7 53.7 s.	Observatory.
			1845	53 37 s.	- 13 53.4 s.	Observatory.
			1845	53 34 s.	- 13 53.3 s.	Observatory.
			1845	53 28 s.	- 13 53.3 s.	Observatory.
			1845	29 07 w.	0 04 E.	29.1 w.	53 28 s.	- 13 53.3 s.	Observatory.
			1846	29 09 w.	0 05 E.	29.1 w.	53 33 s.	- 18 53.3 s.	Observatory.
			1847	29 12 w.	0 07 E.	29.1 w.	53 41 s.	- 24 53.3 s.	Observatory.
			1848	29 14 w.	0 08 E.	29.1 w.	53 47 s.	- 29 53.3 s.	Observatory.
			1849	29 16 w.	0 10 E.	29.1 w.	53 52 s.	- 34 53.3 s.	Observatory.
			1850	29 18 w.	0 11 E.	29.1 w.	53 58 s.	- 40 53.3 s.	Observatory.
1851	.....	.....	.....	54 02 s.	- 45 53.3 s.	.....	.....	.....	.....	Observatory.			
Cape Observatory	33 56	18 29	1842	29 10 w.	.....	29.2 w.	53 12 s.	.....	53.2 s.	.....	.....	} 7.55	Belcher.
			1845	.....	.....	.....	53 30 s.	- 13 53.3 s.	.....	.....	.....		Moore.
			1857	29 34 w.	0 22 E.	29.2 w.	54 36 s.	- 1 15 53.4 s.	Novara.
			1840	54 32 s.	54.5 s.	Ross.
At sea (2 observations)	35 14	18 27	1840	.....	.....	.....	.....	.....	.....	.....	.....	Pagoda.	
At sea (16 observations)	34 12	18 27	1845	29 15 w.	.....	29.3 w.	.....	.....	.....	.....	.....	Ross.	
At sea.....	36 11	18 35	1840	30 05 w.	.....	30.1 w.	.....	.....	.....	.....	.....	Novara.	
At sea (3 observations)	37 25	18 35	1857	29 21 w.	.....	29.3 w.	.....	.....	.....	.....	.....	Du Petit Thouars.	
At sea.....	34 18	18 40	1839	29 38 w.	.....	29.6 w.	.....	.....	.....	.....	.....	Ross.	
At sea.....	35 52	18 41	1840	30 08 w.	.....	30.1 w.	.....	.....	.....	.....	.....	Ross.	
At sea.....	35 48	18 47	1840	.....	.....	.....	54 18 s.	.....	54.3 s.	.....	.....	7.48	Ross.
At sea (2 observations)	36 00	19 00	1840	.....	.....	.....	55 24 s.	.....	55.4 s.	.....	.....	.....	Ross.
At sea (2 observations)	34 20	19 00	1851	30 18 w.	.....	30.3 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (3 observations)	35 46	19 02	1837	31 09 w.	.....	31.1 w.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	35 47	19 05	1832	28 54 w.	0 15 w.	29.1 w.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	36 04	19 19	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea (3 observations)	34 57	19 31	1846	.....	.....	.....	53 23 s.	.....	53.4 s.	.....	.....	.....	H.M.S. 'Fly.'
At sea (3 observations)	34 55	19 33	1845	28 57 w.	.....	28.9 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea.....	34 48	19 33	1845	.....	.....	.....	54 50 s.	.....	54.8 s.	.....	.....	.....	Dayman.
At sea.....	39 06	20 00	1831	.....	.....	.....	52 03 s.	.....	52.1 s.	.....	.....	.....	Dunlop.
At sea.....	36 16	20 04	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Terror.
At sea (2 observations)	35 08	20 24	1845	28 47 w.	.....	28.8 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (3 observations)	37 33	20 25	1826	29 20 w.	0 22 w.	29.7 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	39 55	20 35	1840	31 09 w.	.....	31.1 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	36 16	20 42	1840	30 15 w.	.....	30.3 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	36 11	20 42	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea.....	35 06	20 46	1845	27 56 w.	.....	27.9 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (4 observations)	35 07	20 46	1845	.....	.....	.....	55 08 s.	.....	55.1 s.	.....	.....	.....	Clerk.
At sea (2 observations)	36 07	20 55	1840	.....	.....	.....	55 50 s.	.....	55.8 s.	.....	.....	.....	Ross.
At sea (14 observations)	36 25	21 15	1840	30 40 w.	.....	30.7 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (4 observations)	36 29	21 16	1840	.....	.....	.....	55 38 s.	.....	55.6 s.	.....	.....	.....	Ross.
At sea (4 observations)	38 16	21 20	1840	32 10 w.	.....	32.2 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	36 35	21 20	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea (8 observations)	37 19	21 26	1840	30 51 w.	.....	30.9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	38 13	21 30	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea (2 observations)	37 20	21 37	1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erebus.
At sea (5 observations)	37 19	21 37	1840	.....	.....	.....	56 03 s.	.....	56.1 s.	.....	.....	.....	Ross.
At sea (2 observations)	35 40	21 37	1845	29 16 w.	.....	29.3 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (6 observations)	35 10	21 37	1846	.....	.....	.....	55 28 s.	.....	55.5 s.	.....	.....	.....	H.M.S. 'Fly.'
At sea (4 observations)	35 40	21 40	1845	.....	.....	.....	55 31 s.	.....	55.5 s.	.....	.....	.....	Moore.
At sea (4 observations)	35 36	21 40	1845	.....	.....	.....	55 18 s.	.....	55.3 s.	.....	.....	.....	Clerk.
At sea.....	34 29	21 44	1845	.....	.....	.....	55 36 s.	.....	55.6 s.	.....	.....	.....	Dayman.
At sea (8 observations)	34 37	21 50	1851	30 48 w.	.....	30.8 w.	.....	.....	.....	.....	.....	.....	Kellett.
At sea (2 observations)	38 11	22 00	1840	.....	.....	.....	55 35 s.	.....	55.6 s.	.....	.....	.....	Ross.
At sea (4 observations)	35 31	22 09	1829	28 40 w.	0 18 w.	29.0 w.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	34 04	22 45	1845	.....	.....	.....	56 43 s.	.....	56.7 s.	.....	.....	.....	Dayman.
At sea (2 observations)	34 49	22 52	1836	27 41 w.	0 09 w.	27.8 w.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	39 00	23 00	1831	.....	.....	.....	54 01 s.	.....	54.0 s.	.....	.....	.....	Dunlop.

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	
At sea (3 observations)	38 16	45 23	1847	.....	.....	.....	63 20 s.	.....	63.3 s.	9.10	.....	9.10	Rattlesnake.
At sea (3 observations)	35 29	48 00	1842	.....	.....	.....	63 49 s.	.....	63.8 s.	9.18	.....	9.18	H.M.S. 'Fly.'
At sea.....	35 01	48 06	1831	.....	.....	.....	60 27 s.	.....	60.5 s.	8.84	.....	8.84	Dunlop.
At sea (3 observations)	30 21	48 15	1846	.....	.....	.....	60 35 s.	.....	60.6 s.	.....	.....	.....	H.M.S. 'Fly.'
At sea (6 observations)	30 22	51 24	1846	.....	.....	.....	62 05 s.	.....	62.1 s.	8.99	.....	8.99	H.M.S. 'Fly.'
At sea.....	36 18	52 48	1831	.....	.....	.....	62 46 s.	.....	62.8 s.	9.52	.....	9.52	Dunlop.
At sea (3 observations)	36 56	53 00	1847	.....	.....	.....	64 10 s.	.....	64.2 s.	9.45	.....	9.45	Rattlesnake.
At sea (3 observations)	34 33	54 10	1847	.....	.....	.....	64 04 s.	.....	64.1 s.	9.61	.....	9.61	Rattlesnake.
At sea (3 observations)	36 50	55 16	1842	.....	.....	.....	64 17 s.	.....	64.3 s.	9.41	.....	9.41	H.M.S. 'Fly.'
At sea.....	37 07	55 20	1831	.....	.....	.....	63 13 s.	.....	63.2 s.	9.52	.....	9.52	Dunlop.
At sea.....	37 40	59 15	1831	.....	.....	.....	63 54 s.	.....	63.9 s.	9.67	.....	9.67	Dunlop.
At sea.....	39 34	60 55	1844	.....	.....	.....	67 27 s.	.....	67.5 s.	.....	.....	.....	Smith.
At sea.....	37 46	63 38	1831	.....	.....	.....	63 51 s.	.....	63.9 s.	9.59	.....	9.59	Dunlop.
At sea (3 observations)	38 00	64 16	1826	24 38 w.	0 16 w.	24.9 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	39 00	65 44	1844	.....	.....	.....	67 19 s.	.....	67.3 s.	.....	.....	.....	Smith.
At sea.....	37 50	66 04	1831	.....	.....	.....	64 10 s.	.....	64.2 s.	9.82	.....	9.82	Dunlop.
At sea (3 observations)	31 50	67 56	1847	.....	.....	.....	65 39 s.	.....	65.7 s.	10.12	.....	10.12	Rattlesnake.
At sea.....	38 31	68 45	1844	.....	.....	.....	66 45 s.	.....	66.7 s.	.....	.....	.....	Smith.
At sea.....	38 15	69 31	1831	.....	.....	.....	65 04 s.	.....	65.1 s.	10.34	.....	10.34	Dunlop.
At sea (3 observations)	33 39	70 05	1847	.....	.....	.....	66 30 s.	.....	66.5 s.	10.23	.....	10.23	Rattlesnake.
At sea.....	38 22	70 10	1844	.....	.....	.....	67 06 s.	.....	67.1 s.	.....	.....	.....	Smith.
At sea (3 observations)	35 23	71 55	1847	.....	.....	.....	67 31 s.	.....	67.5 s.	10.35	.....	10.35	Rattlesnake.
At sea.....	38 08	73 35	1844	.....	.....	.....	66 45 s.	.....	66.7 s.	.....	.....	.....	Smith.
At sea.....	39 31	74 00	1831	.....	.....	.....	65 02 s.	.....	65.0 s.	10.27	.....	10.27	Dunlop.
At sea (3 observations)	36 04	74 02	1847	.....	.....	.....	67 36 s.	.....	67.6 s.	10.74	.....	10.74	Rattlesnake.
At sea.....	38 10	75 22	1844	.....	.....	.....	66 42 s.	.....	66.7 s.	.....	.....	.....	Smith.
At sea.....	38 25	76 44	1844	.....	.....	.....	66 54 s.	.....	66.9 s.	.....	.....	.....	Smith.
Anchored off St. Paul.	.....	.....	1842	.....	.....	.....	66 58 s.	.....	67.0 s.	11.19	.....	11.19	H.M.S. 'Fly.'
St. Paul.....	38 43	77 31	1857	23 25 w.	0 15 e.	23.2 w.	66 56 s.	.....	66.9 s.	11.33	.....	11.33	Novara.
At sea.....	38 48	77 50	1844	.....	.....	.....	67 14 s.	.....	67.2 s.	.....	.....	.....	Smith.
At sea (3 observations)	38 29	77 50	1857	21 47 w.	0 15 e.	21.5 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	39 04	79 45	1844	.....	.....	.....	67 17 s.	.....	67.3 s.	.....	.....	.....	Smith.
At sea (6 observations)	35 30	80 01	1847	.....	.....	.....	67 20 s.	.....	67.3 s.	11.00	.....	11.00	Rattlesnake.
At sea.....	39 27	81 00	1831	.....	.....	.....	66 07 s.	.....	66.1 s.	.....	.....	.....	Dunlop.
At sea (2 observations)	34 40	82 43	1857	18 12 w.	0 15 e.	17.9 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	39 58	84 00	1844	.....	.....	.....	67 43 s.	.....	67.7 s.	.....	.....	.....	Smith.
At sea (3 observations)	35 20	84 12	1847	.....	.....	.....	67 19 s.	.....	67.3 s.	11.15	.....	11.15	Rattlesnake.
At sea (2 observations)	31 50	84 34	1857	13 58 w.	0 15 e.	13.7 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea (2 observations)	36 45	85 27	1826	18 40 w.	0 16 w.	18.9 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea (3 observations)	35 34	87 32	1847	.....	.....	.....	67 37 s.	.....	67.6 s.	11.26	.....	11.26	Rattlesnake.
At sea (3 observations)	39 00	88 50	1842	.....	.....	.....	67 46 s.	.....	67.8 s.	11.18	.....	11.18	H.M.S. 'Fly.'
At sea (3 observations)	35 50	91 02	1847	.....	.....	.....	67 45 s.	.....	67.7 s.	11.52	.....	11.52	Rattlesnake.
At sea (2 observations)	35 57	92 43	1826	16 12 w.	0 08 w.	16.3 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea (3 observations)	36 15	94 42	1847	.....	.....	.....	67 55 s.	.....	67.9 s.	11.83	.....	11.83	Rattlesnake.
At sea (3 observations)	39 13	95 30	1842	.....	.....	.....	67 49 s.	.....	67.8 s.	11.82	.....	11.82	H.M.S. 'Fly.'
At sea (6 observations)	30 59	97 01	1848	.....	.....	.....	60 23 s.	.....	60.4 s.	.....	.....	.....	Rattlesnake.
At sea (3 observations)	39 43	98 10	1842	.....	.....	.....	68 33 s.	.....	68.6 s.	12.12	.....	12.12	H.M.S. 'Fly.'
At sea.....	39 52	99 22	1844	.....	.....	.....	69 00 s.	.....	69.0 s.	.....	.....	.....	Smith.
At sea.....	30 05	99 51	1827	7 02 w.	0 07 w.	7.1 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea (3 observations)	37 24	101 05	1847	.....	.....	.....	68 50 s.	.....	68.8 s.	12.46	.....	12.46	Rattlesnake.
At sea.....	39 54	102 00	1844	.....	.....	.....	69 00 s.	.....	69.0 s.	.....	.....	.....	Smith.
At sea (3 observations)	37 57	103 09	1847	.....	.....	.....	69 34 s.	.....	69.6 s.	12.47	.....	12.47	Rattlesnake.
At sea (6 observations)	35 15	104 44	1848	.....	.....	.....	64 26 s.	.....	64.4 s.	.....	.....	.....	Rattlesnake.
At sea (3 observations)	38 43	105 44	1842	.....	.....	.....	69 30 s.	.....	69.5 s.	12.28	.....	12.28	H.M.S. 'Fly.'
At sea (3 observations)	38 35	106 38	1847	.....	.....	.....	70 14 s.	.....	70.2 s.	12.66	.....	12.66	Rattlesnake.
At sea (2 observations)	35 46	107 09	1826	12 50 w.	.....	12.8 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	33 37	108 24	1845	.....	.....	.....	62 18 s.	.....	62.3 s.	12.01	.....	12.01	Dayman.
At sea (4 observations)	30 25	109 07	1845	7 20 w.	.....	7.3 w.	.....	.....	.....	.....	.....	.....	Pagoda.
At sea (3 observations)	38 57	110 20	1847	.....	.....	.....	70 28 s.	.....	70.5 s.	12.82	.....	12.82	Rattlesnake.
At sea.....	33 47	111 04	1845	.....	.....	.....	63 23 s.	.....	63.4 s.	12.06	.....	12.06	Dayman.
At sea (7 observations)	32 24	111 26	1845	.....	.....	.....	62 22 s.	.....	62.4 s.	11.79	.....	11.79	Moore.
At sea (4 observations)	32 32	111 36	1845	.....	.....	.....	62 14 s.	.....	62.2 s.	12.09	.....	12.09	Clerk.

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	Observed.	Cor. to Epoch 1842-5.	Corrected.	
At sea (11 observations)	34 31	173 28	1841	13 56 E.	.....	13-9 E.	.....	.....	.....	.....	.....	.....	Erebus.
Hokianga	35 31	173 32	1825	13 23 E.	0 17 E.	13-7 E.	.....	.....	.....	.....	.....	.....	Herd.
At sea (6 observations)	34 29	173 36	1841	.....	.....	.....	58 26 s.	.....	58-4 s.	.....	.....	.....	Erebus.
At sea (7 observations)	34 24	173 43	1841	.....	.....	.....	59 00 s.	.....	59-0 s.	12-13	.....	12-13	Terror.
At sea (5 observations)	34 32	173 47	1841	13 42 E.	.....	13-7 E.	.....	.....	.....	.....	.....	.....	Terror.
Wangaroa	35 02	173 47	1853	.....	.....	.....	58 27 s.	.....	58-4 s.	.....	.....	.....	Kerr.
At sea	33 22	173 48	1858	14 10 E.	.....	14-2 E.	.....	.....	.....	.....	.....	.....	Drury.
At sea (2 observations)	34 18	173 57	1854	12 26 E.	0 16 W.	12-2 E.	.....	.....	.....	.....	.....	.....	Novara.
			1854	13 57 E.	0 12 W.	13-7 E.	.....	.....	.....	.....	.....	.....	Denham.
			1824	13 22 E.	0 18 E.	13-7 E.	59 35 s.	.....	59-6 s.	.....	.....	.....	Duperrey.
			1827	13 08 E.	0 15 E.	13-4 E.	.....	.....	.....	.....	.....	.....	D'Urville.
			1835	14 00 E.	0 07 E.	14-1 E.	59 32 s.	.....	59-5 s.	.....	.....	.....	FitzRoy.
			1838	13 30 E.	0 04 E.	13-6 E.	.....	.....	.....	.....	.....	.....	Cécille.
			1838	13 33 E.	0 04 E.	13-6 E.	58 58 s.	.....	59-0 s.	.....	.....	.....	La Vénus.
Bay of Islands	35 16	174 00	1841	13 36 E.	.....	13-6 E.	.....	.....	59-4 s.	.....	.....	12-01	Erebus.
			1841	.....	.....	.....	59 36 s.	.....	59-6 s.	12-05	.....	.....	Terror.
			1841	.....	.....	.....	59 25 s.	.....	59-4 s.	12-06	.....	.....	Terror.
			1841	.....	.....	.....	59 31 s.	.....	59-5 s.	11-94	.....	.....	Erebus.
			1849	14 20 E.	0 07 W.	14-2 E.	.....	.....	.....	.....	.....	.....	Stokes.
			1850	13 27 E.	0 08 W.	13-3	59 33 s.	.....	59-5 s.	11-97	.....	.....	Rattlesnake.
New Plymouth	39 04	174 05	1849	14 45 E.	.....	14-7 E.	.....	.....	.....	.....	.....	.....	Stokes.
Kaipara	36 20	174 11	1852	.....	.....	.....	60 43 s.	.....	60-7 s.	12-10	.....	12-10	Kerr.
Wangaruru Harbour.	35 24	174 22	1849	14 25 E.	.....	14-4 E.	.....	.....	.....	.....	.....	.....	Stokes.
At sea (10 observations)	35 16	174 23	1841	.....	.....	.....	59 28 s.	.....	59-5 s.	.....	.....	.....	Erebus.
Wangari Harbour ...	35 51	174 32	1849	14 20 E.	.....	14-3 E.	.....	.....	.....	.....	.....	.....	Stokes.
At sea (2 observations)	35 15	174 39	1841	.....	.....	.....	.....	.....	.....	12-07	.....	12-07	Erebus.
			1841	13 53 E.	.....	13-9 E.	61 10 s.	.....	61-2 s.	12-33	.....	.....	Novara.
Auckland Harbour ...	36 50	174 49	1848	14 11 E.	.....	14-2 E.	60 43 s.	.....	60-7 s.	12-50	.....	12-41	Stokes.
			1851	.....	.....	.....	.....	.....	.....	.....	.....	.....	Kerr.
At sea (3 observations)	33 55	174 54	1854	14 03 E.	0 12 W.	13-9 E.	.....	.....	.....	.....	.....	.....	Denham.
Waiheke Island	36 49	175 11	1853	.....	.....	.....	59 56 s.	.....	59-9 s.	.....	.....	.....	Kerr.
Great Barrier Island..	36 09	175 21	1848	13 33 E.	.....	13-5 E.	.....	.....	.....	.....	.....	.....	Stokes.
At sea (6 observations)	35 53	175 26	1858	12 50 E.	0 16 W.	12-6 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea (2 observations)	32 01	175 32	1835	14 15 E.	0 07 W.	14-1 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
Mercury Bay	36 49	175 45	1852	.....	.....	.....	61 19 s.	.....	61-3 s.	.....	.....	.....	Kerr.
Tauranga Harbour ...	37 36	176 11	1853	15 00 E.	.....	15-0 E.	.....	.....	.....	.....	.....	.....	Drury.
At sea (12 observations)	36 05	176 17	1841	.....	.....	.....	59 20 s.	.....	59-3 s.	.....	.....	.....	Terror.
At sea (14 observations)	37 11	176 29	1827	14 11 E.	0 15 E.	14-4 E.	.....	.....	.....	.....	.....	.....	D'Urville.
Ahuriri	39 29	176 55	1855	16 00 E.	.....	16-0 E.	.....	.....	.....	.....	.....	.....	Drury.
Opotiki	37 58	177 18	1855	14 46 E.	.....	14-8 E.	.....	.....	.....	.....	.....	.....	Drury.
At sea	35 38	177 22	1859	13 12 E.	0 17 W.	12-9 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea (4 observations)	36 20	177 27	1841	.....	.....	.....	.....	.....	.....	12-11	.....	12-11	Terror.
At sea (5 observations)	36 27	177 34	1841	.....	.....	.....	59 54 s.	.....	59-9 s.	12-38	.....	12-08	Erebus.
At sea (11 observations)	36 39	177 58	1841	14 24 E.	.....	14-4 E.	.....	.....	.....	.....	.....	.....	Erebus.
Poverty Bay	38 45	177 59	1855	14 49 E.	.....	14-8 E.	.....	.....	.....	.....	.....	.....	Drury.
Cape Runaway	37 31	178 00	1855	14 47 E.	.....	14-8 E.	.....	.....	.....	.....	.....	.....	Drury.
At sea (3 observations)	31 31	178 05	1854	13 18 E.	0 12 W.	13-1 E.	.....	.....	.....	.....	.....	.....	Denham.
Hicks Bay	37 32	178 21	1853	.....	.....	.....	59 41 s.	.....	59-7 s.	.....	.....	.....	Kerr.
			1855	14 47 E.	.....	14-8 E.	.....	.....	.....	.....	.....	.....	Drury.
At sea (3 observations)	30 42	178 50	1854	12 12 E.	0 12 W.	12-0 E.	.....	.....	.....	.....	.....	.....	Denham.
At sea (2 observations)	38 17	179 31	1841	.....	.....	.....	.....	.....	.....	12-09	.....	12-09	Erebus.
At sea (10 observations)	38 03	179 32	1841	14 55 E.	.....	14-9 E.	.....	.....	.....	.....	.....	.....	Terror.
At sea (8 observations)	38 14	179 47	1841	.....	.....	.....	.....	.....	.....	12-24	.....	12-24	Terror.
At sea (13 observations)	38 02	179 51	1841	14 44 E.	.....	14-7 E.	.....	.....	.....	.....	.....	.....	Erebus.
At sea (6 observations)	38 17	179 51	1841	.....	.....	.....	60 34 s.	.....	60-6 s.	.....	.....	.....	Erebus.
At sea (15 observations)	38 16	179 58	1841	.....	.....	.....	60 37 s.	.....	60-6 s.	.....	.....	.....	Terror.
At sea (3 observations)	34 54	181 14	1850	.....	.....	.....	56 18 s.	.....	56-3 s.	11-32	.....	11-32	Rattlesnake.
At sea	30 29	181 20	1827	12 00 E.	0 15 E.	12-3 E.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea	33 41	181 22	1859	12 36 E.	0 17 W.	12-3 E.	.....	.....	.....	.....	.....	.....	Novara.
At sea (10 observations)	38 55	182 05	1841	.....	.....	.....	.....	.....	.....	12-29	.....	12-29	Terror.
At sea (17 observations)	38 54	182 17	1841	.....	.....	.....	61 21 s.	.....	61-3 s.	.....	.....	.....	Terror.
At sea (11 observations)	39 08	182 30	1841	.....	.....	.....	61 34 s.	.....	61-6 s.	.....	.....	.....	Erebus.

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.	
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.		
Valparaiso	33 02	288 19	1823	15 41 E.	15.7 E.	Morrell. Beechey. Lütke. King. Laplace. FitzRoy. Beechey. La Vénus. La Vénus. Novara. Harkness. H.M.S. 'Nassau.'	
			1825	15 52 E.	.....	15.9 E.	.....	.....	.....	.....	.....	.....
			1827	14 26 E.	.....	14.4 E.	.....	39 56 s.	39.9 s.	.....	.....	.....
			1830	15 18 E.	.....	15.3 E.	.....	40 11 s.	40.2 s.	.....	.....	.....
			1831	15 00 E.	.....	15.0 E.	.....	.....	.....	.....	.....	.....
			1835	15 18 E.	.....	15.3 E.	.....	38 03 s.	38.1 s.	.....	.....	.....
			1836	37 05 s.	37.1 s.	37.6 s.	7.77	
			1837	15 35 E.	15.6 E.	38 20 s.	38.3 s.
			1838	38 43 s.	38.7 s.
			1838	15 36 E.	15.6 E.	38 12 s.	38.2 s.
1859	15 40 E.	.....	15.7 E.	.....	35 40 s.	35.7 s.	.....	7.94	.....	.....		
1866	15 51 E.	.....	15.9 E.	.....	35 23 s.	35.4 s.	.....	7.76	.....	.....		
1868	.....	.....	.....	.....	34 23 s.	34.4 s.	.....	7.62	.....	.....		
Papuda Bay (2 stations)	32 19	288 27	1835	15 18 E.	.....	15.3 E.	.....	.....	.....	.....	.....	FitzRoy.
Chaco de Montenegro.	32 46	289 20	1852	16 22 E.	.....	16.4 E.	.....	35 10 s.	35.2 s.	7.94	7.94	Macrae.
Santiago	33 26	289 22	1852	16 27 E.	.....	16.5 E.	.....	35 37 s.	35.6 s.	7.94	7.94	Macrae.
Casucha de la Cumbre	32 49	289 50	1852	.....	.....	.....	.....	34 52 s.	34.9 s.	.....	.....	Macrae.
Upsallata	32 34	290 33	1852	15 06 E.	.....	15.1 E.	.....	.....	.....	7.73	7.73	Macrae.
Mendoza	32 51	291 03	1852	15 05 E.	.....	15.1 E.	.....	34 23 s.	34.4 s.	7.76	7.76	Macrae.
Acorocorto	33 26	292 18	1852	14 56 E.	.....	14.9 E.	.....	34 26 s.	34.4 s.	7.73	7.73	Macrae.
San Luis de la Punta	33 17	293 33	1852	14 40 E.	.....	14.7 E.	.....	33 25 s.	33.4 s.	7.63	7.63	Macrae.
Villa de la Concepcion	33 07	295 37	1852	13 28 E.	.....	13.5 E.	.....	32 38 s.	32.6 s.	7.50	7.50	Macrae.
Peje tree Station	32 58	297 28	1852	13 00 E.	.....	13.0 E.	.....	31 50 s.	31.8 s.	7.40	7.40	Macrae.
Colorado River (4 stations)	39 47	297 55	1835	15 40 E.	0 28 w.	15.2 E.	.....	.....	.....	.....	.....	FitzRoy.
Blanco Bay	38 57	298 01	1828	13 39 E.	0 56 w.	12.7 E.	13.5 E.	43 12 s.	43.2 s.	D'Orbigny. FitzRoy.	
			1833	15 00 E.	0 36 w.	14.4 E.								
Hermosa Mount (5 stations)	39 01	298 03	1832	15 08 E.	0 40 w.	14.5 E.	FitzRoy.	
At sea (4 observations)	39 00	298 21	1833	15 10 E.	0 36 w.	14.6 E.	FitzRoy.	
El Rosario	32 56	299 28	1852	12 01 E.	.....	12.0 E.	.....	30 57 s.	30.9 s.	7.27	7.27	Macrae.
Bahada de Santa Fé	31 41	299 34	1846	13 14 E.	0 16 E.	13.5 E.	Sullivan.	
Buenos Ayres	34 36	301 38	1829	13 10 E.	0 52 w.	12.3 E.	11.7 E.	32 11 s.	32.2 s.	D'Orbigny. FitzRoy. Macrae.	
			1833	11 40 E.	0 36 w.	11.1 E.								
			1852	11 45 E.	.....	11.8 E.							
Uruguay River	33 41	301 53	1845	12 06 E.	0 10 E.	12.3 E.	.....	.....	.....	.....	.....	Sullivan.
Sandy Island	32 20	301 55	1845	11 14 E.	0 10 E.	11.4 E.	.....	.....	.....	.....	.....	Sullivan.
Colonia	34 28	302 11	1844	11 36 E.	0 06 E.	11.7 E.	.....	.....	.....	.....	.....	Sullivan.
Cape Corrientes (4 stations)	38 00	302 21	1832	13 50 E.	0 42 w.	13.1 E.	FitzRoy.	
At sea	34 42	302 28	1832	11 33 E.	0 42 w.	10.9 E.	FitzRoy.	
Cape San Antonio (4 stations)	35 48	302 53	1832	12 37 E.	0 42 w.	11.9 E.	FitzRoy.	
At sea (7 observations)	34 51	303 10	1832	12 13 E.	0 42 w.	11.5 E.	FitzRoy.	
At sea (3 observations)	35 41	303 12	1832	11 49 E.	0 42 w.	11.1 E.	FitzRoy.	
At sea	38 50	303 20	1838	.....	.....	.....	.....	40 15 s.	40.3 s.	8.09	8.09	Sullivan.
At sea (3 observations)	36 57	303 25	1832	12 36 E.	0 40 w.	11.9 E.	FitzRoy.	
At sea (3 observations)	34 50	303 35	1833	11 46 E.	0 36 w.	11.2 E.	FitzRoy.	
At sea (3 observations)	34 57	303 42	1832	12 28 E.	0 40 w.	11.8 E.	FitzRoy.	
Monte Video	34 53	303 47	1827	12 07 E.	1 00 w.	11.1 E.	11.0 E.	36 28 s.	36.5 s.	King. D'Orbigny. Duperrey. FitzRoy. Bonite. Sullivan. Sullivan. Sullivan. Macrae. Harkness. H.M.S. 'Nassau.'	
			1829	11 43 E.	0 52 w.	10.9 E.								
			1830	11 42 E.	0 48 w.	10.9 E.								
			1833	12 40 E.	0 36 w.	12.1 E.								
			1836	10 35 E.	0 24 w.	10.2 E.								
			1838	.....	.....	.....					
			1843	10 42 E.	.....	10.7 E.							
			1844	10 53 E.	0 06 E.	11.0 E.								
			1852	10 13 E.	0 40 E.	10.9 E.								
			1866	9 21 E.	1 36 E.	10.9 E.								
1867	.....	.....	.....								
1838	.....	.....	.....	34 51 s.	34.9 s.	.....	.....	.....	.....	.....	.....
1836	.....	.....	.....	34 50 s.	34.8 s.	.....	.....	.....	.....	.....	.....
1838	.....	.....	.....	34 03 s.	34.1 s.	33.5 s.	.....	7.52	.....	7.20	.....		
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1852	.....	.....	.....	.....	.....	.....	.....	32 07 s.	32.1 s.	7.27	.....		
1866	.....	.....	.....	.....	.....	.....	.....	31 06 s.	31.1 s.	7.05	.....		
1867	.....	.....	.....	.....	.....	.....	.....	31 02 s.	31.0 s.	6.95	.....		
Gorriti	34 57	305 03	1829	13 48 E.	0 52 w.	12.9 E.	12.4 E.	35 06 s.	35.1 s.	King. FitzRoy. Bonite. Du Petit Thouars. Bonite.	
			1833	12 28 E.	0 36 w.	11.9 E.								
			1836	10 57 E.	0 24 w.	10.5 E.								
			1837	10 34 E.	0 20 w.	10.2 E.								
At sea	38 37	305 45	1837	.....	.....	.....	.....	.....	.....	.....	.....	.....
At sea	35 52	306 15	1836	8 40 E.	0 24 w.	8.3 E.	.....	.....	.....	.....	.....	.....

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British Units.			Observers.
				Ob- served.	Correc- tion to Epoch 1842·5.	Corrected.	Ob- served.	Cor. to Epoch 1842·5.	Corrected.	Ob- served.	Cor. to Epoch 1842·5.	Corrected.	
At sea.....	34 05	306 48	1836	8 25 E.	0 24 W.	8·0 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	35 01	306 51	1836	10 14 E.	0 24 W.	9·8 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	34 57	307 30	1836	9 10 E.	0 24 W.	8·8 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	34 09	307 57	1832	10 27 E.	0 40 W.	9·8 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea.....	37 52	308 22	1830	12 00 E.	0 48 W.	11·2 E.	.....	.....	.....	.....	.....	.....	Biscoe.
At sea (4 observations)	37 48	308 31	1827	12 12 E.	1 00 W.	11·2 E.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	39 49	308 55	1830	11 44 E.	0 48 W.	10·9 E.	40 19 s.	.....	40·3 s.	7·36	.....	7·36	Erman.
At sea (2 observations)	33 26	309 01	1837	6 33 E.	0 20 W.	6·2 E.	.....	.....	.....	.....	.....	.....	Du Petit Thouars.
At sea.....	33 16	309 26	1836	8 18 E.	0 24 W.	7·9 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	38 29	309 31	1830	11 19 E.	0 48 W.	10·5 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	33 42	309 39	1836	6 56 E.	0 24 W.	6·5 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	38 17	309 40	1830	.....	.....	.....	37 53 s.	.....	37·9 s.	7·36	.....	7·36	Erman.
At sea (2 observations)	37 55	309 54	1830	9 44 E.	0 48 W.	8·9 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	37 09	309 55	1830	.....	.....	.....	36 42 s.	.....	36·7 s.	7·31	.....	7·31	Erman.
At sea.....	36 54	310 00	1830	9 34 E.	0 48 W.	8·8 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	35 46	310 35	1830	8 21 E.	0 48 W.	7·5 E.	34 21 s.	.....	34·3 s.	6·79	.....	6·79	Erman.
At sea.....	31 44	310 40	1838	.....	.....	.....	28 22 s.	.....	28·4 s.	7·12	.....	7·12	Sulivan.
At sea.....	34 49	310 55	1830	8 08 E.	0 56 W.	7·2 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea (3 observations)	30 18	311 33	1832	6 55 E.	0 45 W.	6·2 E.	.....	.....	.....	.....	.....	.....	FitzRoy.
At sea (3 observations)	32 02	311 37	1827	8 26 E.	1 07 W.	7·3 E.	.....	.....	.....	.....	.....	.....	Lütke.
At sea.....	30 56	311 43	1836	4 44 E.	0 27 W.	4·3 E.	.....	.....	.....	.....	.....	.....	Bonite.
At sea.....	36 46	312 10	1830	11 00 E.	0 56 W.	10·1 E.	.....	.....	.....	.....	.....	.....	Biscoe.
At sea.....	33 18	312 11	1830	7 18 E.	0 56 W.	6·4 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea.....	33 04	312 15	1830	.....	.....	.....	30 03 s.	.....	30·1 s.	6·97	.....	6·97	Erman.
At sea.....	32 18	312 43	1830	7 17 E.	0 56 W.	6·3 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea (7 observations)	33 12	312 58	1831	6 46 E.	0 52 W.	5·9 E.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea.....	30 51	313 22	1830	5 15 E.	0 56 W.	4·3 E.	.....	.....	.....	.....	.....	.....	Erman.
At sea (3 observations)	37 41	314 19	1850	.....	.....	.....	31 53 s.	.....	31·9 s.	7·46	.....	7·46	Rattlesnake.
At sea (2 observations)	37 32	315 29	1826	9 50 E.	1 06 W.	8·7 E.	.....	.....	.....	.....	.....	.....	Prussian ships.
At sea (3 observations)	36 01	315 34	1850	.....	.....	.....	30 11 s.	.....	30·2 s.	7·04	.....	7·04	Rattlesnake.
At sea (2 observations)	32 18	315 47	1830	6 15 E.	0 56 W.	5·3 E.	.....	.....	.....	.....	.....	.....	Biscoe.
At sea (3 observations)	35 19	316 03	1850	.....	.....	.....	29 04 s.	.....	29·1 s.	6·99	.....	6·99	Rattlesnake.
At sea.....	38 48	316 08	1839	.....	.....	.....	36 15 s.	.....	36·3 s.	7·35	.....	7·35	Sulivan.
At sea.....	30 23	316 15	1846	4 15 E.	0 24 E.	4·7 E.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea.....	36 10	317 05	1839	.....	.....	.....	34 30 s.	.....	34·5 s.	7·07	.....	7·07	Sulivan.
At sea.....	30 12	318 18	1843	0 00	.....	0·0	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	31 55	318 30	1844	0 00	0 06 E.	0·1 E.	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	30 06	318 45	1846	2 10 E.	0 18 E.	2·5 E.	.....	.....	.....	.....	.....	.....	Sulivan.
At sea (3 observations)	35 20	320 21	1850	.....	.....	.....	28 49 s.	.....	28·8 s.	6·97	.....	6·97	Rattlesnake.
At sea.....	31 26	320 34	1844	1 20 W.	0 06 E.	1·2 W.	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	30 22	321 00	1844	1 00 W.	0 06 E.	0·9 W.	.....	.....	.....	.....	.....	.....	Pasley.
At sea.....	31 20	322 06	1844	1 17 W.	0 06 E.	1·2 W.	.....	.....	.....	.....	.....	.....	Pasley.
At sea (6 observations)	34 31	322 41	1850	.....	.....	.....	27 40 s.	.....	27·7 s.	6·93	.....	6·93	Rattlesnake.
At sea.....	39 10	322 47	1859	2 10 W.	1 14 E.	0·9 W.	.....	.....	.....	.....	.....	.....	Novara.
At sea (3 observations)	33 10	323 06	1847	.....	.....	.....	28 00 s.	.....	28·0 s.	6·72	.....	6·72	Rattlesnake.
At sea.....	33 13	323 09	1847	2 48 W.	0 20 E.	2·5 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	30 50	323 14	1847	2 24 W.	0 20 E.	2·1 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	30 44	323 16	1847	.....	.....	.....	25 02 s.	.....	25·0 s.	6·57	.....	6·57	Rattlesnake.
At sea (2 observations)	33 34	323 46	1829	1 38 E.	1 05 W.	0·5 E.	.....	.....	.....	.....	.....	.....	Rumker.
At sea (3 observations)	38 49	324 03	1829	4 14 E.	1 05 W.	3·1 E.	.....	.....	.....	.....	.....	.....	Rumker.
At sea.....	35 07	324 14	1847	2 49 W.	0 24 E.	2·4 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	35 13	324 23	1847	.....	.....	.....	31 27 s.	.....	31·5 s.	6·87	.....	6·87	Rattlesnake.
At sea (3 observations)	32 12	325 52	1850	.....	.....	.....	24 50 s.	.....	24·8 s.	6·89	.....	6·89	Rattlesnake.
At sea (3 observations)	36 38	326 48	1847	.....	.....	.....	33 55 s.	.....	33·9 s.	6·80	.....	6·80	Rattlesnake.
At sea.....	36 37	326 57	1847	2 37 W.	0 24 E.	2·2 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	30 18	327 30	1850	.....	.....	.....	22 23 s.	.....	22·4 s.	6·67	.....	6·67	Rattlesnake.
At sea.....	37 24	328 42	1847	4 09 W.	0 24 E.	3·7 W.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	37 22	328 55	1847	.....	.....	.....	34 30 s.	.....	34·5 s.	.....	.....	.....	Rattlesnake.
At sea (3 observations)	36 51	332 00	1847	.....	.....	.....	34 52 s.	.....	34·9 s.	6·86	.....	6·86	Rattlesnake.

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Observed.	Correction to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	Observed.	Cor. to Epoch 1842.5.	Corrected.	
At sea.....	36 50	332 01	1847	6 32 w.	0 24 E.	6.1 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	36 32	333 25	1847	7 51 w.	0 24 E.	7.5 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	30 00	335 07	1857	10 51 w.	1 15 E.	9.6 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea (3 observations)	36 33	335 40	1847	.....	.....	.....	34 51 s.	.....	34.9 s.	6.83	.....	6.83	Rattlesnake.
At sea (3 observations)	38 34	336 10	1846	7 40 w.	0 20 E.	7.3 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (3 observations)	30 13	336 27	1826	7 34 w.	1 22 w.	8.9 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	36 31	336 28	1847	10 00 w.	0 23 E.	9.6 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	31 33	337 04	1842	12 40 w.	.....	12.7 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	30 18	337 05	1831	.....	.....	.....	27 11 s.	.....	27.2 s.	6.44	.....	6.44	Dunlop.
At sea.....	35 18	337 22	1846	11 03 w.	0 12 E.	10.9 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	30 47	337 26	1831	.....	.....	.....	28 05 s.	.....	28.1 s.	6.52	.....	6.52	Dunlop.
At sea.....	32 01	338 08	1831	.....	.....	.....	30 13 s.	.....	30.2 s.	6.59	.....	6.59	Dunlop.
At sea (3 observations)	32 30	338 30	1842	.....	.....	.....	31 45 s.	.....	31.8 s.	6.47	.....	6.47	H.M.S. 'Fly.'
At sea (3 observations)	36 08	338 40	1847	.....	.....	.....	35 45 s.	.....	35.7 s.	6.79	.....	6.79	Rattlesnake.
At sea.....	35 31	340 26	1847	13 07 w.	0 18 E.	12.8 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	33 39	341 00	1831	.....	.....	.....	32 46 s.	.....	32.8 s.	6.67	.....	6.67	Dunlop.
At sea (2 observations)	32 50	341 03	1846	13 10 w.	0 12 E.	13.0 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea (6 observations)	36 16	341 07	1847	.....	.....	.....	35 54 s.	.....	35.9 s.	6.74	.....	6.74	Rattlesnake.
At sea.....	37 01	341 09	1847	11 13 w.	0 18 E.	10.9 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	36 52	341 31	1847	11 58 w.	0 18 E.	11.7 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	30 03	341 51	1826	12 20 w.	1 22 w.	13.7 w.	.....	.....	.....	.....	.....	.....	D'Urville.
At sea.....	38 02	343 00	1847	13 07 w.	0 27 E.	12.7 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (6 observations)	38 08	343 31	1847	.....	.....	.....	39 32 s.	.....	39.5 s.	6.90	.....	6.90	Rattlesnake.
At sea.....	35 31	344 15	1831	.....	.....	.....	35 44 s.	.....	35.7 s.	6.59	.....	6.59	Dunlop.
At sea.....	30 41	344 37	1846	17 16 w.	0 21 E.	16.9 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	36 36	347 24	1831	.....	.....	.....	38 02 s.	.....	38.0 s.	6.59	.....	6.59	Dunlop.
At sea.....	31 36	347 32	1857	19 40 w.	1 27 E.	18.2 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	37 57	349 19	1847	14 30 w.	0 27 E.	14.1 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (2 observations)	34 32	350 20	1842	16 00 w.	.....	16.0 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	37 12	350 24	1831	.....	.....	.....	39 16 s.	.....	39.3 s.	6.74	.....	6.74	Dunlop.
At sea (2 observations)	30 15	351 37	1840	.....	.....	.....	.....	.....	.....	6.37	.....	6.37	Ross.
At sea (3 observations)	37 29	352 15	1847	.....	.....	.....	41 49 s.	.....	41.8 s.	6.89	.....	6.89	Rattlesnake.
At sea.....	37 27	352 40	1847	18 40 w.	0 27 E.	18.2 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	30 58	353 26	1840	21 48 w.	0 15 w.	22.1 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	37 37	353 36	1831	.....	.....	.....	40 50 s.	.....	40.8 s.	6.82	.....	6.82	Dunlop.
At sea.....	31 00	353 40	1840	.....	.....	.....	.....	.....	.....	6.39	.....	6.39	Terror.
At sea (4 observations)	31 08	353 56	1840	.....	.....	.....	.....	.....	.....	6.35	.....	6.35	Ross.
At sea.....	36 05	355 10	1847	20 02 w.	0 27 E.	19.6 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (6 observations)	35 27	355 21	1847	.....	.....	.....	42 19 s.	.....	42.3 s.	6.83	.....	6.83	Rattlesnake.
At sea.....	31 32	355 37	1840	21 54 w.	0 15 w.	22.1 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	34 45	355 39	1847	21 43 w.	0 27 E.	21.3 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	37 40	355 51	1831	.....	.....	.....	41 51 s.	.....	41.9 s.	6.89	.....	6.89	Dunlop.
At sea.....	34 00	356 02	1857	23 40 w.	1 13 E.	22.5 w.	.....	.....	.....	.....	.....	.....	Novara.
At sea.....	31 40	356 30	1840	.....	.....	.....	.....	.....	.....	6.39	.....	6.39	Terror.
At sea.....	31 46	356 38	1840	.....	.....	.....	.....	.....	.....	6.53	.....	6.53	Ross.
At sea.....	35 23	356 39	1847	23 08 w.	0 23 E.	22.7 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	35 24	356 45	1847	.....	.....	.....	43 33 s.	.....	43.5 s.	6.93	.....	6.93	Rattlesnake.
At sea.....	35 30	357 00	1847	22 41 w.	0 18 E.	22.4 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	35 42	357 08	1842	21 00 w.	.....	21.0 w.	.....	.....	.....	.....	.....	.....	Bérard.
At sea.....	31 13	358 26	1840	.....	.....	.....	.....	.....	.....	6.42	.....	6.42	Terror.
At sea.....	36 58	358 28	1847	22 16 w.	0 23 E.	21.9 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea (3 observations)	36 51	358 28	1847	.....	.....	.....	44 21 s.	.....	44.3 s.	7.02	.....	7.02	Rattlesnake.
At sea.....	31 13	358 38	1840	.....	.....	.....	.....	.....	.....	6.53	.....	6.53	Ross.
At sea.....	31 01	359 26	1840	23 29 w.	0 10 w.	23.7 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (2 observations)	31 08	359 26	1840	.....	.....	.....	.....	.....	.....	6.64	.....	6.64	Ross.
At sea (3 observations)	38 15	359 26	1847	.....	.....	.....	45 46 s.	.....	45.8 s.	7.16	.....	7.16	Rattlesnake.
At sea.....	31 07	359 28	1840	.....	.....	.....	.....	.....	.....	6.57	.....	6.57	Terror.
At sea.....	31 13	359 31	1840	23 02 w.	0 10 w.	23.2 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	30 30	359 36	1840	23 08 w.	0 10 w.	23.3 w.	.....	.....	.....	.....	.....	.....	Ross.

SOUTH EQUATORIAL ZONE IV.—Lat. 30° to 40° S. (continued).

Stations.	Lat. S.	Long. E.	Date.	Declination.			Inclination.			Force in British units.			Observers.
				Ob- served.	Correction to Epoch 1842·5.	Corrected.	Ob- served.	Cor. to Epoch 1842·5.	Corrected.	Ob- served.	Cor. to Epoch 1842·5.	Corrected.	
At sea.....	38 23	359 37	1847	22 28 w.	0 18 e.	22·2 w.	.....	.....	.....	.....	.....	.....	Stanley.
At sea.....	31 28	359 38	1840	23 41 w.	0 10 w.	23·9 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea (3 observations)	33 25	359 40	1842	.....	.....	.....	43 53 s.	.....	43·9 s.	6·63	.....	6·63	H.M.S. 'Fly.'
At sea.....	31 19	359 40	1840	23 08 w.	0 10 w.	23·3 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	30 37	359 48	1840	23 23 w.	0 10 w.	23·5 w.	.....	.....	.....	.....	.....	.....	Ross.
At sea.....	31 15	359 48	1840	.....	.....	.....	.....	.....	.....	6·56	.....	6·56	Terror.
At sea (4 observations)	30 20	359 50	1840	.....	.....	.....	.....	.....	.....	6·57	.....	6·57	Ross.
At sea.....	30 10	359 53	1840	.....	.....	.....	.....	.....	.....	6·39	.....	6·39	Terror.
At sea (2 observations)	31 19	359 53	1840	.....	.....	.....	.....	.....	.....	6·56	.....	6·56	Ross.
At sea.....	30 12	359 54	1840	.....	.....	.....	.....	.....	.....	6·56	.....	6·56	Terror.

In the following Tables I have placed in comparison with each other the values of the magnetic Elements at every fifth degree of latitude between the Equator and 40° S., and at every tenth degree of longitude between 0° and 360°, as shown (1) in the Table published by MM. GAUSS and WEBER, in the 'Atlas des Erdmagnetismus' (Leipsic, 1840), and (2) in the Tables and Maps of the present paper. For the values of the Magnetic Force, which in the Atlas of MM. GAUSS and WEBER are expressed in the Arbitrary Scale, of which the fundamental value is 1·372, or (as written by M. GAUSS) 1372 = the Force in London in 1836, I have substituted the Absolute Values corresponding to 10·28 as the Absolute Force in London at the same Epoch, in the scale which was originally adopted in conformity with the Report of the Committee of Physics of the Royal Society, 1840, page 21. In all the three Elements there are some blanks in the columns derived from the data in the present paper, owing to observations being either wanting or insufficient in those localities.

Declination.

Latitudes.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Latitudes.
	Long. 0° E.		Long. 10° E.		Long. 20° E.		Long. 30° E.		Long. 40° E.		Long. 50° E.		
00 s.	21 49 w.	.....	23 04 w.	19 32 w.	22 14 w.	16 31 w.	19 14 w.	13 39 w.	14 26 w.	10 54 w.	8 45 w.	7 50 w.	00 s.
05 s.	21 50 w.	.....	23 37 w.	21 15 w.	23 20 w.	18 57 w.	20 47 w.	15 47 w.	16 13 w.	12 32 w.	10 31 w.	8 50 w.	05 s.
10 s.	21 51 w.	.....	24 11 w.	22 37 w.	24 30 w.	20 56 w.	22 28 w.	18 14 w.	18 15 w.	14 21 w.	12 39 w.	10 12 w.	10 s.
15 s.	21 49 w.	.....	24 41 w.	24 04 w.	25 37 w.	22 28 w.	24 13 w.	20 34 w.	20 30 w.	17 03 w.	15 11 w.	12 43 w.	15 s.
20 s.	21 39 w.	.....	25 03 w.	25 36 w.	26 38 w.	24 11 w.	25 56 w.	22 22 w.	22 53 w.	19 43 w.	18 04 w.	15 12 w.	20 s.
25 s.	21 16 w.	.....	25 09 w.	26 47 w.	27 22 w.	25 48 w.	27 27 w.	24 18 w.	25 13 w.	22 00 w.	21 07 w.	18 14 w.	25 s.
30 s.	20 38 w.	.....	24 56 w.	27 16 w.	27 45 w.	27 25 w.	28 37 w.	26 29 w.	27 19 w.	24 14 w.	24 10 w.	21 08 w.	30 s.
35 s.	19 42 w.	.....	24 21 w.	.....	27 42 w.	29 12 w.	29 20 w.	29 08 w.	29 02 w.	27 01 w.	26 59 w.	24 04 w.	35 s.
40 s.	18 34 w.	.....	23 28 w.	26 00 w.	27 17 w.	30 00 w.	29 39 w.	31 07 w.	30 20 w.	30 00 w.	29 27 w.	26 50 w.	40 s.
	Long. 60° E.		Long. 70° E.		Long. 80° E.		Long. 90° E.		Long. 100° E.		Long. 110° E.		
00 s.	3 29 w.	4 42 w.	0 17 e.	1 44 w.	2 11 e.	.....	2 30 e.	.....	1 54 e.	.....	1 12 e.	.....	00 s.
05 s.	5 06 w.	5 23 w.	1 08 w.	2 33 w.	0 58 e.	0 21 w.	1 30 e.	.....	1 12 e.	.....	0 50 e.	.....	05 s.
10 s.	7 09 w.	6 30 w.	3 00 w.	3 37 w.	0 41 w.	1 34 w.	0 08 e.	0 41 w.	0 11 e.	0 31 w.	0 15 e.	0 10 w.	10 s.
15 s.	9 43 w.	8 05 w.	5 26 w.	4 42 w.	2 52 w.	3 05 w.	1 41 w.	2 19 w.	1 12 w.	2 00 w.	0 39 w.	1 17 w.	15 s.
20 s.	12 48 w.	10 08 w.	8 27 w.	7 00 w.	5 37 w.	4 43 w.	4 00 w.	4 05 w.	2 59 w.	3 44 w.	1 52 w.	2 31 w.	20 s.
25 s.	16 18 w.	13 51 w.	12 02 w.	9 49 w.	8 56 w.	7 50 w.	6 51 w.	6 40 w.	5 14 w.	5 52 w.	3 28 w.	4 05 w.	25 s.
30 s.	20 03 w.	17 45 w.	16 03 w.	14 32 w.	12 47 w.	12 06 w.	10 14 w.	10 10 w.	7 58 w.	8 53 w.	5 31 w.	6 08 w.	30 s.
35 s.	23 48 w.	21 20 w.	20 18 w.	19 38 w.	17 02 w.	17 29 w.	14 07 w.	15 35 w.	11 15 w.	12 52 w.	8 04 w.	9 03 w.	35 s.
40 s.	27 21 w.	24 24 w.	24 36 w.	22 56 w.	21 27 w.	21 22 w.	18 30 w.	20 00 w.	15 08 w.	16 20 w.	11 15 w.	11 36 w.	40 s.
	Long. 120° E.		Long. 130° E.		Long. 140° E.		Long. 150° E.		Long. 160° E.		Long. 170° E.		
00 s.	1 04 e.	1 09 e.	1 51 e.	.....	3 37 e.	.....	5 58 e.	.....	8 16 e.	.....	9 49 e.	.....	00 s.
05 s.	1 04 e.	.....	2 13 e.	1 46 e.	4 13 e.	3 44 e.	6 37 e.	.....	8 47 e.	.....	10 04 e.	.....	05 s.
10 s.	0 54 e.	0 11 e.	2 25 e.	1 00 e.	4 39 e.	3 45 e.	7 08 e.	5 51 e.	9 11 e.	7 27 e.	10 15 e.	8 31 e.	10 s.
15 s.	0 30 e.	0 38 w.	2 25 e.	1 08 e.	4 55 e.	4 10 e.	7 29 e.	6 40 e.	9 28 e.	8 31 e.	10 22 e.	9 26 e.	15 s.
20 s.	0 11 w.	1 33 w.	2 11 e.	0 35 e.	4 59 e.	4 38 e.	7 40 e.	7 37 e.	9 38 e.	9 20 e.	10 28 e.	10 22 e.	20 s.
25 s.	1 11 w.	2 31 w.	1 41 e.	0 11 e.	4 51 e.	7 46 e.	7 43 e.	.....	9 44 e.	10 13 e.	10 34 e.	.....	25 s.
30 s.	2 33 w.	3 28 w.	0 54 e.	0 07 w.	4 29 e.	8 36 e.	7 38 e.	8 36 e.	9 48 e.	.....	10 44 e.	.....	30 s.
35 s.	4 22 w.	4 30 w.	0 14 w.	0 13 w.	3 54 e.	5 47 e.	7 26 e.	9 30 e.	9 59 e.	.....	11 00 e.	.....	35 s.
40 s.	6 44 w.	5 55 w.	1 48 w.	0 18 w.	3 03 e.	5 49 e.	7 07 e.	10 31 e.	9 59 e.	13 17 e.	11 28 e.	14 52 e.	40 s.
	Long. 180° E.		Long. 190° E.		Long. 200° E.		Long. 210° E.		Long. 220° E.		Long. 230° E.		
00 s.	10 15 e.	.....	9 36 e.	8 00 e.	8 22 e.	.....	7 10 e.	.....	6 32 e.	.....	6 39 e.	.....	00 s.
05 s.	10 10 e.	8 29 e.	9 12 e.	8 00 e.	7 44 e.	6 47 e.	6 26 e.	5 33 e.	5 49 e.	4 14 e.	6 05 e.	3 57 e.	05 s.
10 s.	10 05 e.	8 58 e.	8 54 e.	8 08 e.	7 22 e.	6 55 e.	5 57 e.	5 52 e.	5 23 e.	5 05 e.	5 46 e.	4 53 e.	10 s.
15 s.	10 02 e.	9 29 e.	8 45 e.	8 26 e.	7 06 e.	7 20 e.	5 46 e.	6 29 e.	5 15 e.	5 58 e.	5 45 e.	5 52 e.	15 s.
20 s.	10 04 e.	10 00 e.	8 47 e.	9 00 e.	7 11 e.	7 56 e.	5 54 e.	7 16 e.	5 28 e.	6 53 e.	6 05 e.	6 51 e.	20 s.
25 s.	10 13 e.	.....	9 01 e.	.....	7 32 e.	8 43 e.	6 24 e.	8 04 e.	6 05 e.	7 47 e.	6 48 e.	7 50 e.	25 s.
30 s.	10 30 e.	.....	9 29 e.	.....	8 13 e.	9 25 e.	7 16 e.	8 43 e.	7 07 e.	8 33 e.	7 58 e.	8 34 e.	30 s.
35 s.	11 01 e.	.....	10 15 e.	.....	9 16 e.	10 08 e.	8 35 e.	9 20 e.	8 38 e.	9 20 e.	9 36 e.	9 16 e.	35 s.
40 s.	11 48 e.	.....	11 24 e.	.....	10 45 e.	.....	10 23 e.	.....	10 40 e.	.....	11 47 e.	.....	40 s.
	Long. 240° E.		Long. 250° E.		Long. 260° E.		Long. 270° E.		Long. 280° E.		Long. 290° E.		
00 s.	7 21 e.	4 46 e.	8 14 e.	6 21 e.	8 52 e.	7 53 e.	8 53 e.	.....	8 00 e.	.....	6 08 e.	6 19 e.	00 s.
05 s.	7 01 e.	5 05 e.	8 12 e.	6 38 e.	9 07 e.	8 07 e.	9 23 e.	.....	8 43 e.	.....	6 59 e.	7 17 e.	05 s.
10 s.	6 55 e.	5 54 e.	8 21 e.	7 10 e.	9 32 e.	8 44 e.	10 01 e.	10 07 e.	9 31 e.	10 14 e.	7 53 e.	8 15 e.	10 s.
15 s.	7 05 e.	6 46 e.	8 44 e.	7 53 e.	10 08 e.	9 28 e.	10 48 e.	11 05 e.	10 26 e.	11 17 e.	8 53 e.	9 25 e.	15 s.
20 s.	7 33 e.	7 37 e.	9 23 e.	8 40 e.	10 58 e.	10 18 e.	11 46 e.	12 01 e.	11 29 e.	12 22 e.	9 59 e.	10 50 e.	20 s.
25 s.	8 23 e.	8 23 e.	10 21 e.	9 28 e.	12 03 e.	11 27 e.	12 56 e.	12 57 e.	12 41 e.	13 28 e.	11 12 e.	12 20 e.	25 s.
30 s.	9 38 e.	9 05 e.	11 40 e.	10 26 e.	13 24 e.	12 36 e.	14 19 e.	13 55 e.	14 03 e.	14 34 e.	12 32 e.	13 52 e.	30 s.
35 s.	11 20 e.	9 50 e.	13 22 e.	11 50 e.	15 04 e.	13 53 e.	15 54 e.	15 00 e.	15 34 e.	.....	13 58 e.	.....	35 s.
40 s.	13 33 e.	11 21 e.	15 31 e.	13 20 e.	17 04 e.	15 14 e.	17 44 e.	.....	17 14 e.	.....	15 30 e.	.....	40 s.
	Long. 300°.		Long. 310°.		Long. 320°.		Long. 330°.		Long. 340°.		Long. 350°.		
00 s.	3 14 e.	3 44 e.	0 33 w.	0 34 e.	5 02 w.	4 53 w.	9 54 w.	10 43 w.	14 42 w.	15 39 w.	18 52 w.	19 26 w.	00 s.
05 s.	4 11 e.	4 53 e.	0 27 e.	1 26 e.	4 02 w.	3 57 w.	8 58 w.	10 00 w.	13 57 w.	15 42 w.	18 26 w.	.....	05 s.
10 s.	5 10 e.	5 50 e.	1 27 e.	2 11 e.	3 03 w.	3 10 w.	8 05 w.	9 20 w.	13 14 w.	15 23 w.	18 01 w.	.....	10 s.
15 s.	6 12 e.	6 47 e.	2 29 e.	3 02 e.	2 03 w.	2 34 w.	7 10 w.	8 42 w.	12 29 w.	14 51 w.	17 33 w.	.....	15 s.
20 s.	7 18 e.	7 53 e.	3 35 e.	4 00 e.	1 00 w.	1 57 w.	6 12 w.	8 05 w.	11 41 w.	14 07 w.	17 00 w.	20 35 w.	20 s.
25 s.	8 31 e.	9 09 e.	4 45 e.	5 13 e.	0 07 e.	1 07 w.	5 09 w.	7 18 w.	10 45 w.	13 22 w.	16 17 w.	19 47 w.	25 s.
30 s.	9 49 e.	10 38 e.	6 01 e.	6 28 e.	1 21 e.	0 00	3 58 w.	6 20 w.	9 40 w.	12 27 w.	15 22 w.	18 43 w.	30 s.
35 s.	11 10 e.	12 15 e.	7 20 e.	8 05 e.	2 38 e.	1 34 e.	2 43 w.	5 05 w.	8 27 w.	11 12 w.	14 15 w.	17 16 w.	35 s.
40 s.	12 36 e.	13 43 e.	8 42 e.	10 00 e.	3 57 e.	3 25 e.	1 24 w.	3 20 w.	7 09 w.	9 32 w.	12 59 w.	15 44 w.	40 s.

506 GENERAL SIR EDWARD SABINE ON TERRESTRIAL MAGNETISM.

Inclination.

Latitudes.	Gauss.		Sabine.		Gauss.		Sabine.		Gauss.		Sabine.		Gauss.		Sabine.		Latitudes.
	Long. 0° E.		Long. 10° E.		Long. 20° E.		Long. 30° E.		Long. 40° E.		Long. 50° E.						
00 s.	7 36 N.	.....	2 38 s.	.....	12 58 s.	.....	21 44 s.	.....	27 42 s.	.....	30 24 s.	.....	00 s.	.....	.....	00 s.
05 s.	1 18 s.	8 31 s.	11 27 s.	.....	21 30 s.	.....	29 58 s.	.....	35 45 s.	.....	38 29 s.	.....	05 s.	.....	.....	05 s.
10 s.	9 57 s.	16 11 s.	19 36 s.	.....	29 04 s.	.....	36 59 s.	.....	42 28 s.	.....	45 11 s.	41 44 s.	10 s.	.....	.....	10 s.
15 s.	18 03 s.	23 40 s.	26 53 s.	.....	35 30 s.	.....	42 45 s.	.....	47 53 s.	.....	50 33 s.	47 50 s.	15 s.	.....	.....	15 s.
20 s.	25 21 s.	30 18 s.	33 10 s.	37 29 s.	40 49 s.	.....	47 19 s.	.....	52 03 s.	51 47 s.	54 41 s.	52 23 s.	20 s.	.....	.....	20 s.
25 s.	31 40 s.	34 56 s.	38 24 s.	41 46 s.	45 02 s.	48 04 s.	50 48 s.	52 22 s.	55 07 s.	54 42 s.	57 42 s.	56 13 s.	25 s.	.....	.....	25 s.
30 s.	37 03 s.	39 31 s.	42 42 s.	45 31 s.	48 21 s.	51 10 s.	53 22 s.	54 50 s.	57 17 s.	57 34 s.	59 50 s.	60 06 s.	30 s.	.....	.....	30 s.
35 s.	41 33 s.	.....	46 11 s.	49 37 s.	50 55 s.	53 49 s.	55 14 s.	57 32 s.	58 44 s.	60 41 s.	61 12 s.	.....	35 s.	.....	.....	35 s.
40 s.	45 19 s.	.....	49 03 s.	52 19 s.	52 57 s.	56 19 s.	56 37 s.	60 18 s.	59 46 s.	.....	62 11 s.	.....	40 s.	.....	.....	40 s.
	Long. 60° E.		Long. 70° E.		Long. 80° E.		Long. 90° E.		Long. 100° E.		Long. 110° E.						
00 s.	30 04 s.	.....	27 29 s.	.....	23 47 s.	.....	20 09 s.	.....	17 27 s.	.....	16 03 s.	.....	00 s.	.....	.....	00 s.
05 s.	38 22 s.	32 22 s.	36 08 s.	30 35 s.	32 50 s.	.....	29 33 s.	.....	27 04 s.	24 14 s.	25 41 s.	22 18 s.	05 s.	.....	.....	05 s.
10 s.	45 18 s.	40 34 s.	43 27 s.	38 59 s.	40 37 s.	37 28 s.	37 46 s.	35 28 s.	35 34 s.	33 19 s.	34 16 s.	32 02 s.	10 s.	.....	.....	10 s.
15 s.	50 54 s.	46 47 s.	49 28 s.	45 25 s.	47 09 s.	44 18 s.	44 46 s.	42 54 s.	42 54 s.	41 22 s.	41 44 s.	40 00 s.	15 s.	.....	.....	15 s.
20 s.	55 17 s.	52 11 s.	54 18 s.	51 11 s.	52 31 s.	50 22 s.	50 38 s.	49 19 s.	49 09 s.	47 59 s.	48 11 s.	46 44 s.	20 s.	.....	.....	20 s.
25 s.	58 33 s.	57 00 s.	58 05 s.	56 07 s.	56 52 s.	55 19 s.	55 31 s.	54 35 s.	54 27 s.	53 50 s.	53 43 s.	53 13 s.	25 s.	.....	.....	25 s.
30 s.	60 56 s.	61 47 s.	60 58 s.	61 07 s.	60 21 s.	60 14 s.	59 35 s.	59 41 s.	58 58 s.	59 17 s.	58 32 s.	59 07 s.	30 s.	.....	.....	30 s.
35 s.	62 37 s.	.....	63 09 s.	.....	63 10 s.	.....	63 00 s.	.....	62 51 s.	.....	62 45 s.	.....	35 s.	.....	.....	35 s.
40 s.	63 51 s.	.....	64 52 s.	.....	65 30 s.	.....	65 52 s.	.....	66 13 s.	.....	66 29 s.	.....	40 s.	.....	.....	40 s.
	Long. 120° E.		Long. 130° E.		Long. 140° E.		Long. 150° E.		Long. 160° E.		Long. 170° E.						
00 s.	15 41 s.	13 34 s.	15 45 s.	13 15 s.	15 27 s.	13 25 s.	14 07 s.	.....	11 25 s.	.....	7 35 s.	.....	00 s.	.....	.....	00 s.
05 s.	25 10 s.	21 54 s.	24 56 s.	22 16 s.	24 18 s.	22 15 s.	22 37 s.	21 18 s.	19 44 s.	18 16 s.	15 53 s.	13 07 s.	05 s.	.....	.....	05 s.
10 s.	33 39 s.	31 32 s.	33 10 s.	31 44 s.	32 18 s.	31 43 s.	30 22 s.	31 00 s.	27 26 s.	27 25 s.	23 44 s.	22 19 s.	10 s.	.....	.....	10 s.
15 s.	41 04 s.	39 25 s.	40 27 s.	39 22 s.	39 19 s.	39 19 s.	37 21 s.	38 57 s.	34 30 s.	35 44 s.	31 03 s.	31 44 s.	15 s.	.....	.....	15 s.
20 s.	47 33 s.	46 39 s.	46 49 s.	46 40 s.	45 37 s.	46 47 s.	43 39 s.	46 06 s.	40 57 s.	43 45 s.	37 49 s.	40 00 s.	20 s.	.....	.....	20 s.
25 s.	53 09 s.	51 59 s.	52 26 s.	53 08 s.	51 14 s.	53 01 s.	49 22 s.	52 31 s.	46 52 s.	51 11 s.	44 05 s.	48 03 s.	25 s.	.....	.....	25 s.
30 s.	58 07 s.	59 06 s.	57 29 s.	58 57 s.	56 21 s.	58 37 s.	54 36 s.	58 05 s.	52 21 s.	56 44 s.	49 54 s.	54 13 s.	30 s.	.....	.....	30 s.
35 s.	62 33 s.	.....	62 03 s.	.....	61 03 s.	.....	59 28 s.	.....	57 28 s.	.....	55 19 s.	60 20 s.	35 s.	.....	.....	35 s.
40 s.	66 34 s.	.....	66 15 s.	.....	65 25 s.	.....	64 03 s.	.....	62 18 s.	.....	60 24 s.	.....	40 s.	.....	.....	40 s.
	Long. 180° E.		Long. 190° E.		Long. 200° E.		Long. 210° E.		Long. 220° E.		Long. 230° E.						
00 s.	3 21 s.	.....	0 22 N.	.....	2 55 N.	.....	4 14 N.	.....	4 45 N.	.....	5 12 N.	.....	00 s.	.....	.....	00 s.
05 s.	11 48 s.	6 40 s.	8 20 s.	.....	6 08 s.	.....	5 15 s.	6 17 s.	5 08 s.	5 45 s.	5 04 s.	5 13 s.	05 s.	.....	.....	05 s.
10 s.	19 56 s.	16 45 s.	16 51 s.	19 40 s.	15 02 s.	18 37 s.	14 29 s.	16 17 s.	14 44 s.	15 27 s.	15 02 s.	14 41 s.	10 s.	.....	.....	10 s.
15 s.	27 38 s.	26 43 s.	24 58 s.	27 20 s.	23 30 s.	26 27 s.	23 15 s.	25 17 s.	23 42 s.	24 30 s.	24 09 s.	.....	15 s.	.....	.....	15 s.
20 s.	34 50 s.	35 35 s.	32 33 s.	34 46 s.	31 22 s.	35 42 s.	31 16 s.	32 56 s.	31 50 s.	32 00 s.	32 24 s.	.....	20 s.	.....	.....	20 s.
25 s.	41 29 s.	43 46 s.	39 32 s.	42 18 s.	38 34 s.	41 04 s.	38 33 s.	40 00 s.	39 06 s.	38 50 s.	39 38 s.	.....	25 s.	.....	.....	25 s.
30 s.	47 38 s.	51 05 s.	45 58 s.	49 17 s.	45 08 s.	47 36 s.	45 06 s.	46 04 s.	45 32 s.	44 57 s.	45 58 s.	.....	30 s.	.....	.....	30 s.
35 s.	53 21 s.	57 25 s.	51 53 s.	55 11 s.	51 07 s.	53 42 s.	51 00 s.	.....	51 15 s.	51 20 s.	51 30 s.	.....	35 s.	.....	.....	35 s.
40 s.	58 40 s.	.....	57 22 s.	.....	56 36 s.	.....	56 21 s.	.....	56 23 s.	.....	56 23 s.	.....	40 s.	.....	.....	40 s.
	Long. 240° E.		Long. 250° E.		Long. 260° E.		Long. 270° E.		Long. 280° E.		Long. 290° E.						
00 s.	6 15 N.	.....	8 15 N.	.....	11 15 N.	.....	14 59 N.	.....	19 00 N.	.....	22 46 N.	.....	00 s.	.....	.....	00 s.
05 s.	4 19 s.	4 40 s.	2 29 s.	3 47 s.	0 31 N.	1 42 s.	4 26 N.	1 03 N.	8 45 N.	9 10 N.	12 56 N.	10 54 N.	05 s.	.....	.....	05 s.
10 s.	14 31 s.	14 19 s.	12 54 s.	13 28 s.	10 01 s.	11 00 s.	6 08 s.	7 55 s.	1 41 s.	3 53 s.	2 43 N.	2 05 N.	10 s.	.....	.....	10 s.
15 s.	23 55 s.	.....	22 33 s.	.....	19 54 s.	21 47 s.	16 11 s.	17 29 s.	11 50 s.	12 50 s.	7 25 s.	6 49 s.	15 s.	.....	.....	15 s.
20 s.	32 19 s.	.....	31 09 s.	.....	28 47 s.	.....	25 21 s.	26 55 s.	21 15 s.	21 43 s.	17 01 s.	15 42 s.	20 s.	.....	.....	20 s.
25 s.	39 36 s.	.....	38 36 s.	.....	36 28 s.	.....	33 22 s.	.....	29 37 s.	30 00 s.	25 42 s.	23 43 s.	25 s.	.....	.....	25 s.
30 s.	45 54 s.	.....	44 58 s.	.....	43 03 s.	.....	40 15 s.	.....	36 52 s.	38 40 s.	33 18 s.	31 01 s.	30 s.	.....	.....	30 s.
35 s.	51 19 s.	.....	50 23 s.	.....	48 37 s.	.....	46 04 s.	.....	43 01 s.	.....	39 48 s.	40 17 s.	35 s.	.....	.....	35 s.
40 s.	56 01 s.	.....	55 02 s.	.....	53 20 s.	.....	50 59 s.	.....	48 13 s.	.....	45 20 s.	.....	40 s.	.....	.....	40 s.
	Long. 300° E.		Long. 310° E.		Long. 320° E.		Long. 330° E.		Long. 340° E.		Long. 350° E.						
00 s.	25 49 N.	.....	27 41 N.	.....	28 00 N.	.....	26 25 N.	.....	22 35 N.	.....	16 16 N.	9 47 N.	00 s.	.....	.....	00 s.
05 s.	16 22 N.	15 19 N.	18 36 N.	18 19 N.	19 10 N.	19 16 N.	17 42 N.	13 09 N.	13 51 N.	11 04 N.	7 27 N.	2 02 N.	05 s.	.....	.....	05 s.
10 s.	6 27 N.	7 25 N.	8 57 N.	10 41 N.	9 46 N.	11 34 N.	8 29 N.	8 36 N.	4 46 N.	2 26 N.	1 30 s.	5 41 s.	10 s.	.....	.....	10 s.
15 s.	3 35 s.	1 07 s.	0 53 s.	1 37 N.	0 08 N.	2 43 N.	0 56 s.	0 37 s.	4 23 s.	6 26 s.	10 13 s.	13 41 s.	15 s.	.....	.....	15 s.
20 s.	13 12 s.	10 18 s.	10 31 s.	7 10 s.	9 21 s.	6 36 s.	10 09 s.	9 41 s.	13 10 s.	14 22 s.	18 23 s.	21 22 s.	20 s.	.....	.....	20 s.
25 s.	22 08 s.	19 20 s.	19 29 s.	16 29 s.	18 14 s.	15 47 s.	18 45 s.	17 42 s.	21 16 s.	21 36 s.	25 42 s.	27 52 s.	25 s.	.....	.....	25 s.
30 s.	30 01 s.	26 21 s.	27 31 s.	24 01 s.	26 14 s.	23 15 s.	26 29 s.	24 16 s.	28 28 s.	28 00 s.	32 06 s.	33 05 s.	30 s.	.....	.....	30 s.
35 s.	36 50 s.	34 38 s.	34 31 s.	31 19 s.	33 14 s.	29 48 s.	33 14 s.	30 53 s.	34 42 s.	33 46 s.	37 34 s.	38 11 s.	35 s.	.....	.....	35 s.
40 s.	42 40 s.	.....	40 32 s.	.....	39 15 s.	.....	39 03 s.	.....	40 02 s.	.....	42 12 s.	.....	40 s.	.....	.....	40 s.

Force in British Units.

Latitudes.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Gauss.	Sabine.	Latitudes.
	Long. 0° E.		Long. 10° E.		Long. 20° E.		Long. 30° E.		Long. 40° E.		Long. 50° E.		
00 s.	6.55	.....	6.47	.....	6.56	.....	6.79	.....	7.07	.....	7.32	.....	00 s.
05 s.	6.32	.....	6.34	.....	6.54	.....	6.85	.....	7.19	.....	7.48	.....	05 s.
10 s.	6.18	.....	6.28	.....	6.57	.....	6.94	.....	7.33	.....	7.66	8.0	10 s.
15 s.	6.12	.....	6.31	.....	6.63	.....	7.05	.....	7.47	.....	7.84	8.2	15 s.
20 s.	6.15	.....	6.37	.....	6.73	.....	7.16	.....	7.61	8.0	8.02	8.4	20 s.
25 s.	6.25	.....	6.49	.....	6.86	7.2	7.29	7.7	7.76	8.2	8.21	8.7	25 s.
30 s.	6.43	.....	6.67	.....	7.03	7.3	7.47	7.8	7.95	8.4	8.44	8.9	30 s.
35 s.	6.70	.....	6.92	7.0	7.27	7.6	7.70	8.1	8.19	8.7	8.72	9.3	35 s.
40 s.	7.06	.....	7.27	7.5	7.60	7.9	8.02	8.5	8.52	9.0	9.08	9.6	40 s.
	Long. 60° E.		Long. 70° E.		Long. 80° E.		Long. 90° E.		Long. 100° E.		Long. 110° E.		
00 s.	7.51	.....	7.62	.....	7.72	.....	7.80	.....	7.89	.....	7.96	.....	00 s.
05 s.	7.69	8.1	7.83	.....	7.93	.....	8.04	.....	8.16	.....	8.26	.....	05 s.
10 s.	7.91	8.3	8.08	8.6	8.24	.....	8.39	.....	8.56	9.2	8.71	9.3	10 s.
15 s.	8.13	8.5	8.38	8.8	8.60	9.0	8.82	9.3	9.06	9.5	9.27	9.7	15 s.
20 s.	8.37	8.8	8.69	9.0	9.00	9.5	9.31	9.8	9.63	10.0	9.91	10.3	20 s.
25 s.	8.63	9.0	9.03	9.5	9.44	9.9	9.85	10.4	10.25	10.7	10.61	11.0	25 s.
30 s.	8.92	9.4	9.41	9.9	9.91	10.5	10.41	11.0	10.91	11.4	11.34	11.7	30 s.
35 s.	9.26	9.8	9.83	10.4	10.42	11.0	11.01	11.6	11.58	12.0	12.09	12.4	35 s.
40 s.	9.68	10.2	10.31	10.8	10.97	11.5	11.63	12.1	12.26	12.5	12.83	13.0	40 s.
	Long. 120° E.		Long. 130° E.		Long. 140° E.		Long. 150° E.		Long. 160° E.		Long. 170° E.		
00 s.	7.97	.....	7.90	.....	7.76	.....	7.55	.....	7.33	.....	7.15	.....	00 s.
05 s.	8.31	8.9	8.28	.....	8.15	9.1	7.94	9.0	7.69	.....	7.46	.....	05 s.
10 s.	8.81	9.4	8.81	9.5	8.68	9.6	8.49	9.5	8.21	.....	7.94	.....	10 s.
15 s.	9.42	9.9	9.46	10.0	9.37	10.1	9.16	10.1	8.88	9.9	8.57	.....	15 s.
20 s.	10.13	10.5	10.21	10.7	10.15	10.7	9.96	10.7	9.66	10.5	9.34	10.2	20 s.
25 s.	10.88	11.3	11.02	11.4	11.00	11.4	10.83	11.4	10.55	11.1	10.22	10.8	25 s.
30 s.	11.68	12.0	11.87	12.1	11.90	12.2	11.76	12.1	11.51	11.8	11.18	11.4	30 s.
35 s.	12.49	12.7	12.73	12.9	12.81	12.8	12.72	12.7	12.49	12.4	12.19	12.0	35 s.
40 s.	13.28	.....	13.57	.....	13.70	.....	13.66	.....	13.48	12.9	13.20	.....	40 s.
	Long. 180° E.		Long. 190° E.		Long. 200° E.		Long. 210° E.		Long. 220° E.		Long. 230° E.		
00 s.	7.04	.....	7.05	.....	7.15	.....	7.32	.....	7.53	.....	7.74	.....	00 s.
05 s.	7.30	.....	7.23	.....	7.27	.....	7.38	.....	7.54	.....	7.70	.....	05 s.
10 s.	7.72	9.0	7.59	.....	7.57	.....	7.63	8.2	7.74	8.0	7.86	.....	10 s.
15 s.	8.30	9.5	8.13	9.2	8.05	.....	8.05	8.7	8.12	8.5	8.19	.....	15 s.
20 s.	9.04	9.9	8.81	9.6	8.69	9.3	8.64	9.1	8.65	8.9	8.66	.....	20 s.
25 s.	9.90	10.5	9.63	10.1	9.46	9.9	9.36	9.7	9.31	9.5	9.26	.....	25 s.
30 s.	10.85	11.0	10.56	10.7	10.33	10.3	10.18	10.2	10.06	10.0	9.94	.....	30 s.
35 s.	11.86	11.6	11.54	11.3	11.28	10.9	11.07	10.8	10.88	10.6	10.69	.....	35 s.
40 s.	12.88	.....	12.56	.....	12.26	.....	11.99	.....	11.73	.....	11.47	.....	40 s.
	Long. 240° E.		Long. 250° E.		Long. 260° E.		Long. 270° E.		Long. 280° E.		Long. 290° E.		
00 s.	7.92	.....	8.06	.....	8.15	.....	8.19	.....	8.19	.....	8.13	.....	00 s.
05 s.	7.83	.....	7.91	.....	7.93	.....	7.89	.....	7.81	.....	7.70	.....	05 s.
10 s.	7.94	.....	7.95	.....	7.89	.....	7.77	.....	7.61	.....	7.42	.....	10 s.
15 s.	8.21	.....	8.16	.....	8.03	.....	7.82	.....	7.58	.....	7.31	6.9	15 s.
20 s.	8.63	.....	8.52	.....	8.31	.....	8.03	.....	7.70	.....	7.37	6.8	20 s.
25 s.	9.16	.....	8.98	.....	8.71	.....	8.36	.....	7.97	7.7	7.56	7.0	25 s.
30 s.	9.78	.....	9.53	.....	9.20	.....	8.79	.....	8.33	8.1	7.87	7.5	30 s.
35 s.	10.45	.....	10.14	.....	9.75	.....	9.29	.....	8.79	.....	8.29	8.1	35 s.
40 s.	11.16	.....	10.79	.....	10.35	.....	9.85	.....	9.32	.....	8.78	.....	40 s.
	Long. 300° E.		Long. 310° E.		Long. 320° E.		Long. 330° E.		Long. 340° E.		Long. 350° E.		
00 s.	8.03	.....	7.87	.....	7.65	.....	7.38	.....	7.07	.....	6.77	.....	00 s.
05 s.	7.56	.....	7.38	.....	7.17	6.9	6.92	6.9	6.67	6.7	6.44	.....	05 s.
10 s.	6.48	6.9	7.02	6.8	6.80	6.6	6.58	6.5	6.37	6.4	6.21	.....	10 s.
15 s.	7.06	6.7	6.81	6.6	6.57	6.4	6.36	6.2	6.18	.....	6.09	.....	15 s.
20 s.	7.04	6.6	6.75	6.5	6.49	6.3	6.27	.....	6.12	.....	6.07	.....	20 s.
25 s.	7.18	6.8	6.83	6.6	6.54	6.4	6.32	.....	6.18	.....	6.15	6.2	25 s.
30 s.	7.44	7.0	7.05	6.8	6.73	6.6	6.49	6.4	6.35	.....	6.33	.....	30 s.
35 s.	7.81	7.5	7.39	.....	7.04	6.8	6.78	6.7	6.63	.....	6.60	.....	35 s.
40 s.	8.28	.....	7.83	.....	7.46	.....	7.19	.....	7.02	.....	6.98	.....	40 s.

In the preceding Numbers of these Contributions the great assistance received for many years past from the Hydrographic Office of the Admiralty has been thankfully acknowledged. In tracing now the last lines of the present number, which completes the series, these acknowledgments must be expressed anew, and with redoubled earnestness; for without the cordial and truly invaluable assistance of Captain EVANS, and of Staff-Commander E. W. CREAK of his Department, its preparation, under the weight of broken health and increasing weakness, would have been impossible.

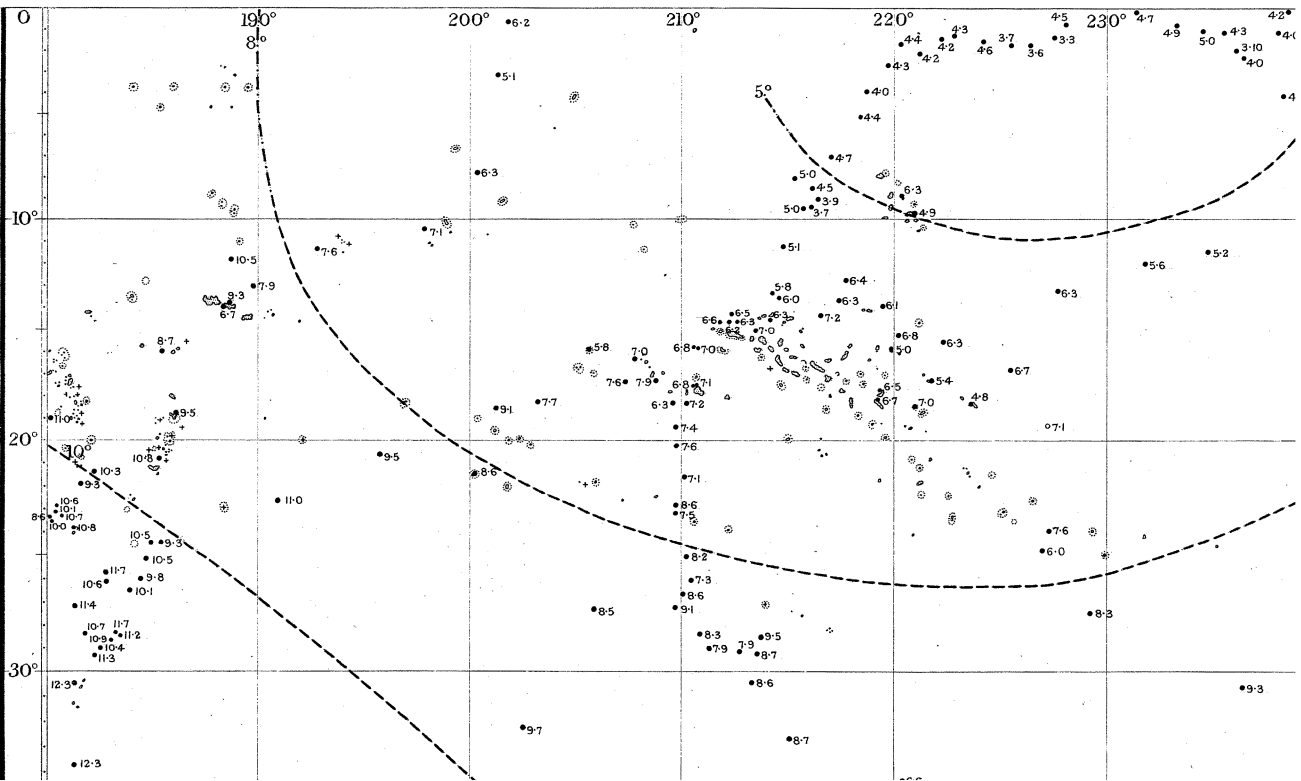
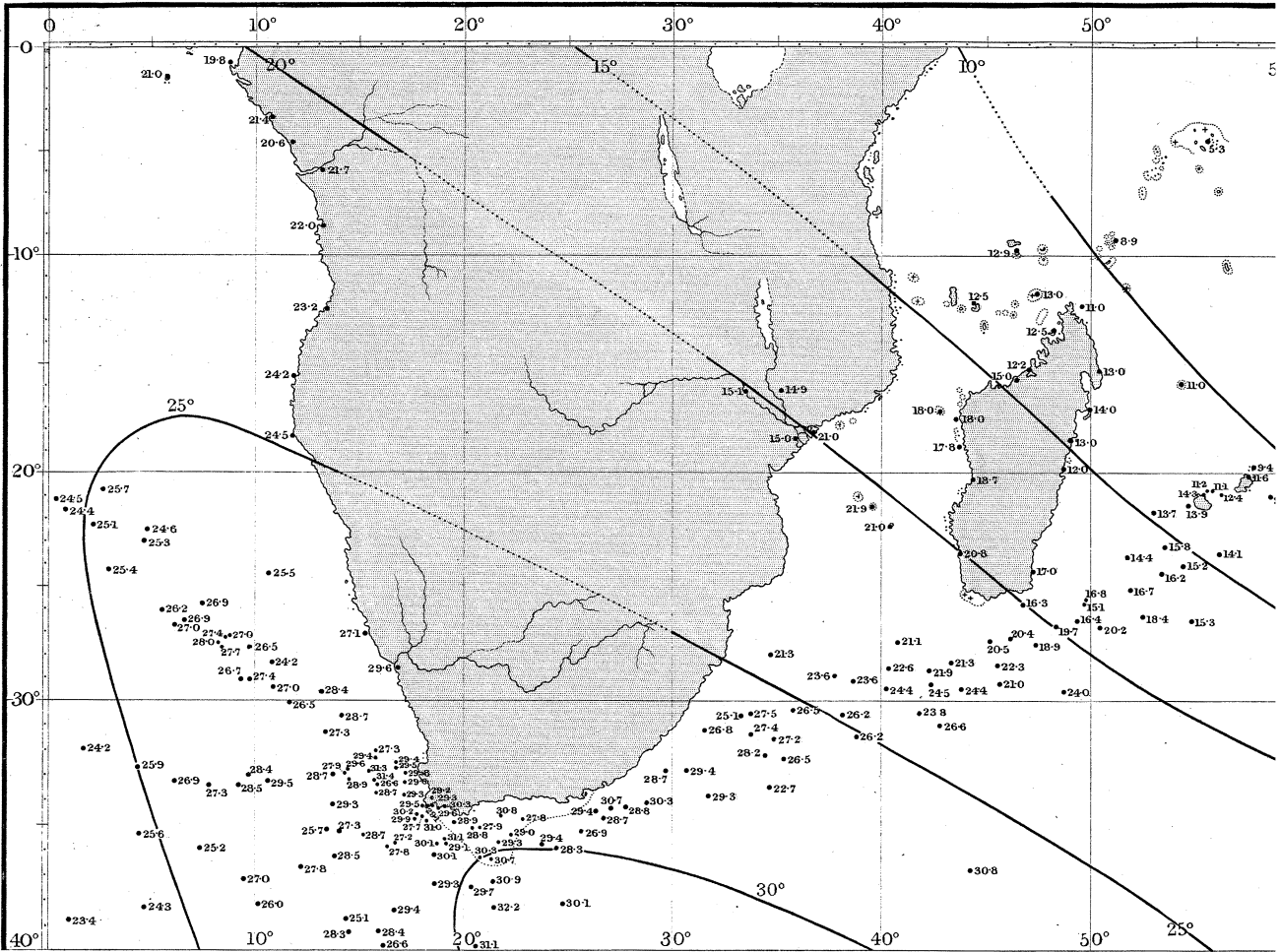
ERRATA IN CONTRIBUTION No. XV.

Page 464, line 19. Aji Bārang, *for* Lat. $2^{\circ} 25'$ S. *read* $7^{\circ} 25'$ S.

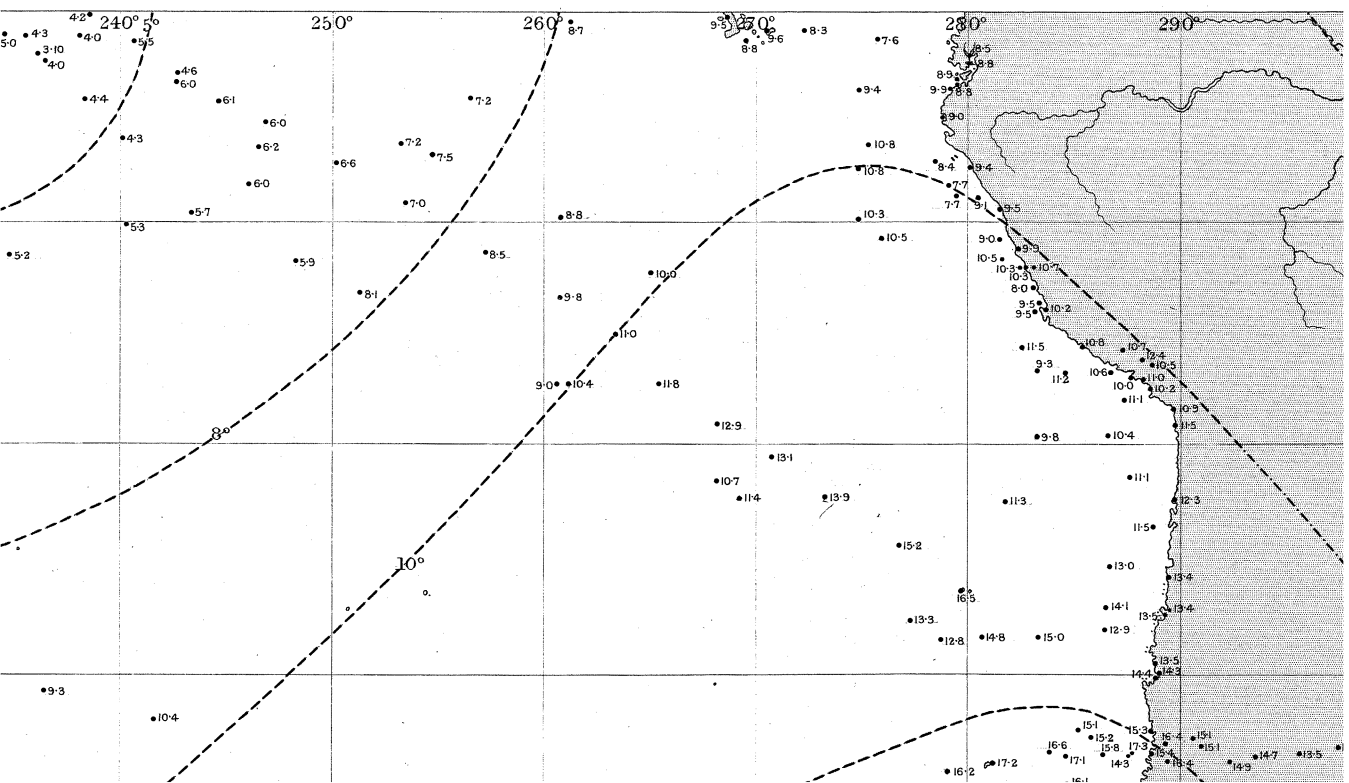
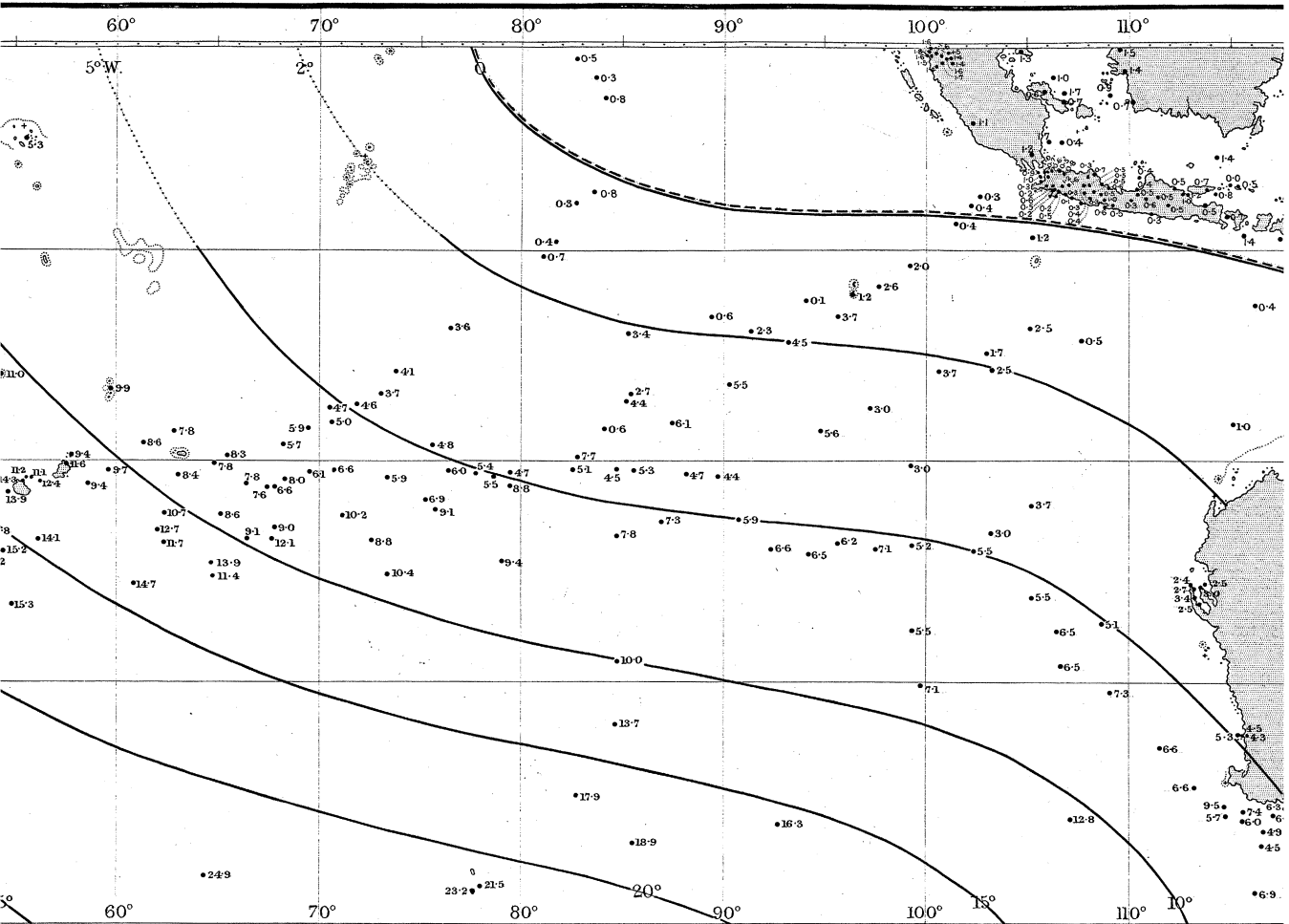
Page 475, line 2. Declination. At sea—Lat. $17^{\circ} 15'$ S., Long. $292^{\circ} 45'$ E. *should be expunged.*

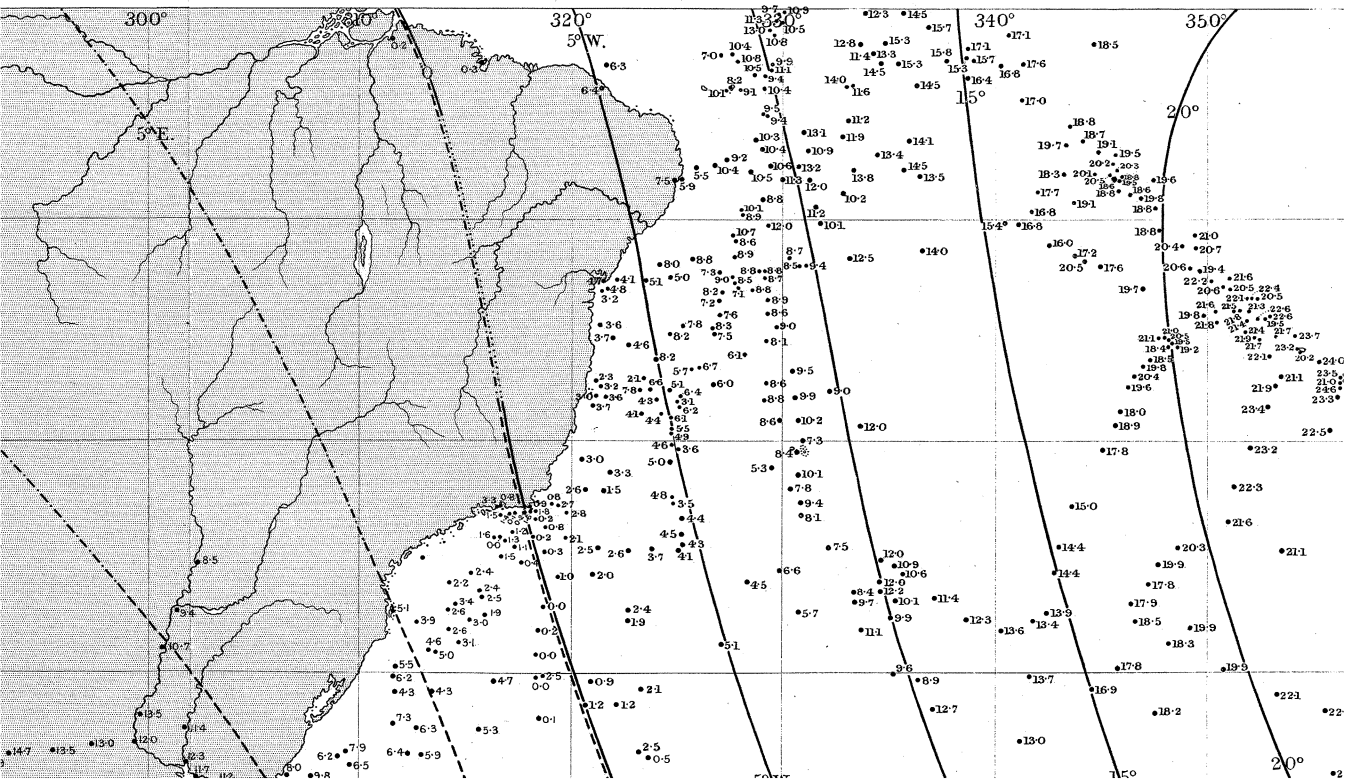
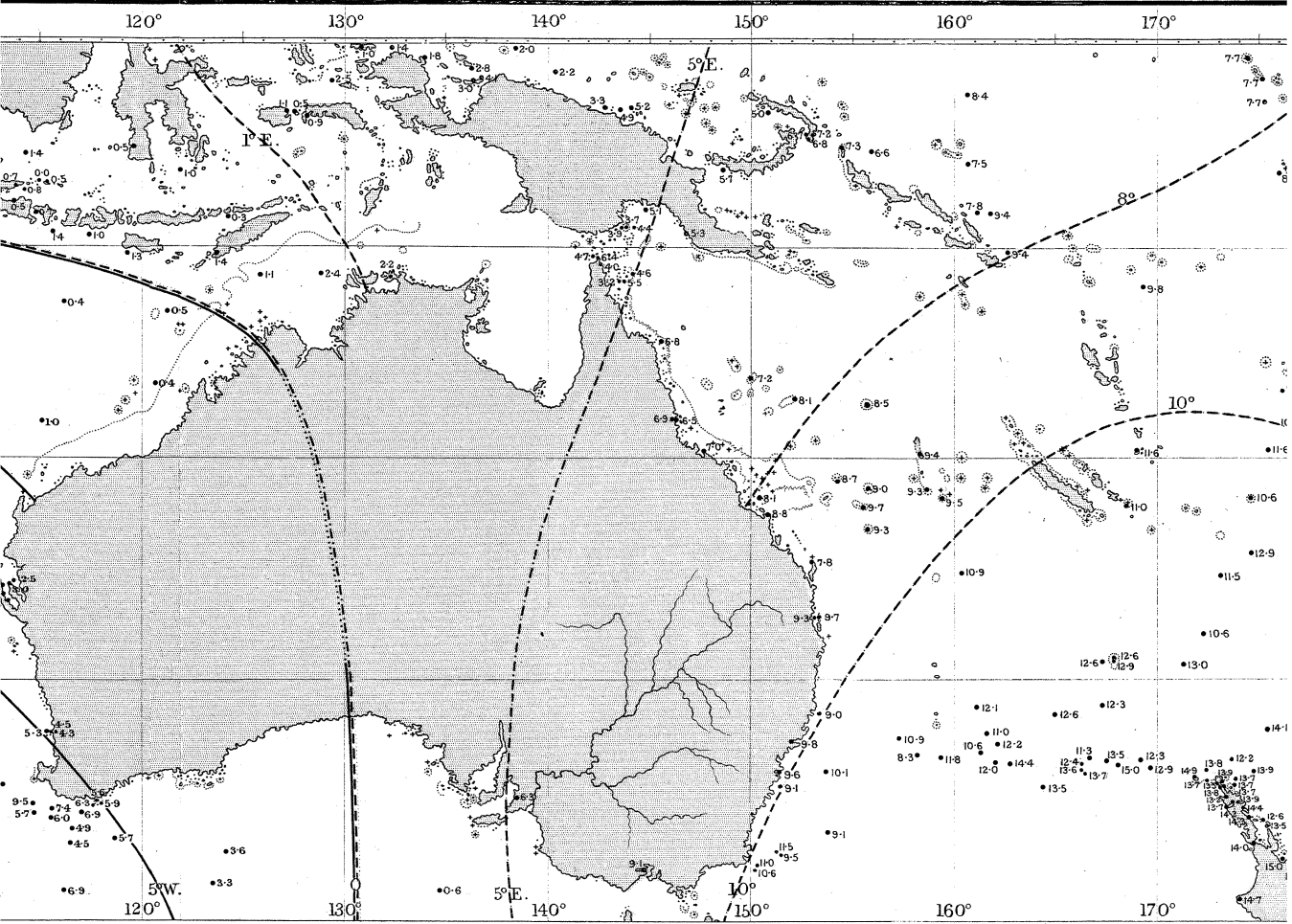
MAGNETIC SURV

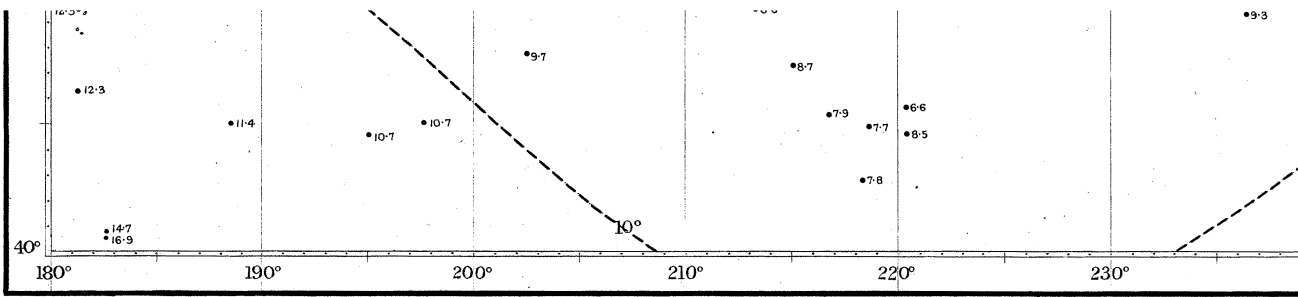
(Sabine)

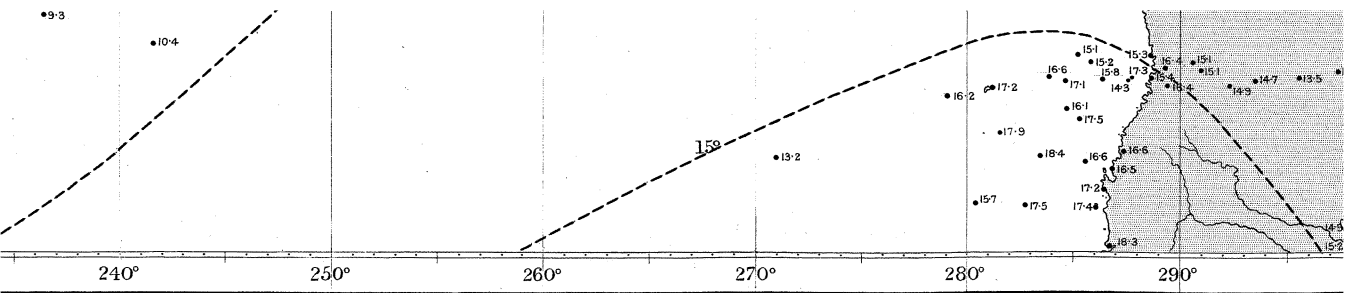


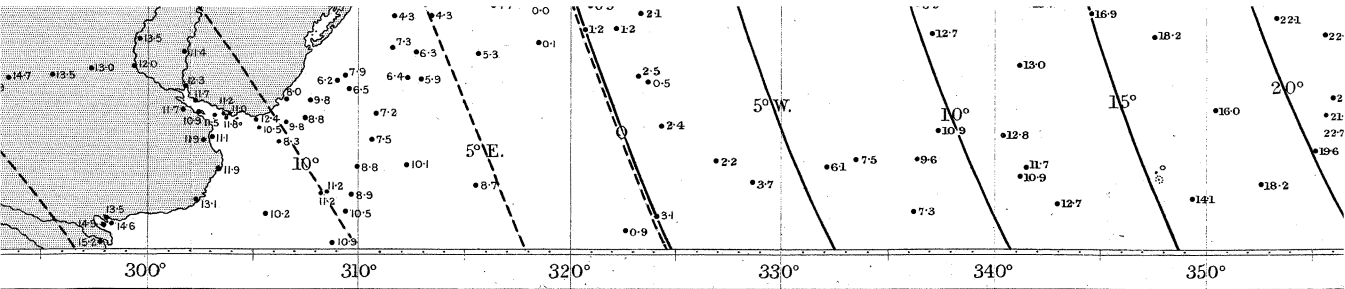
SURVEY - between the Equator and the parallel of 40° S. - Epoch



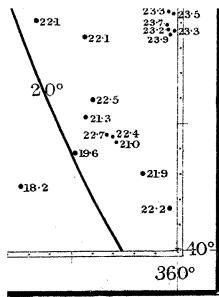








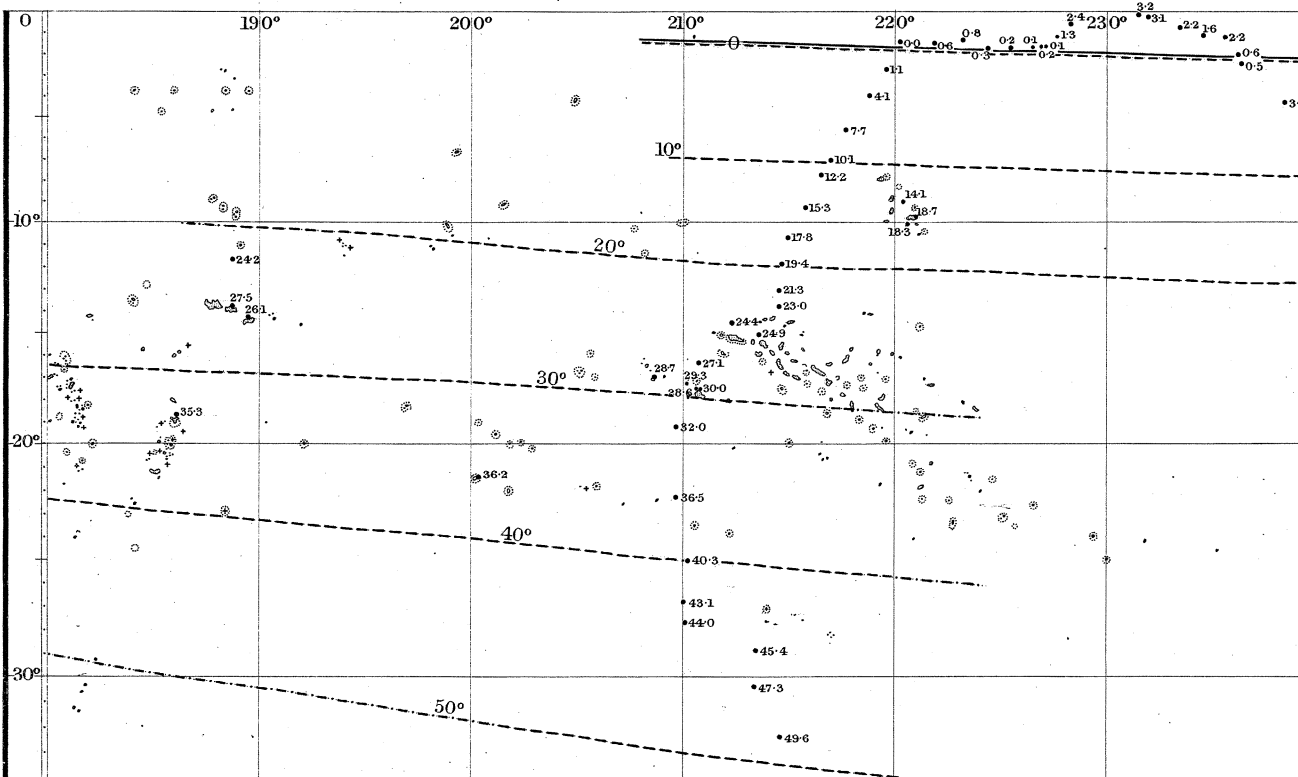
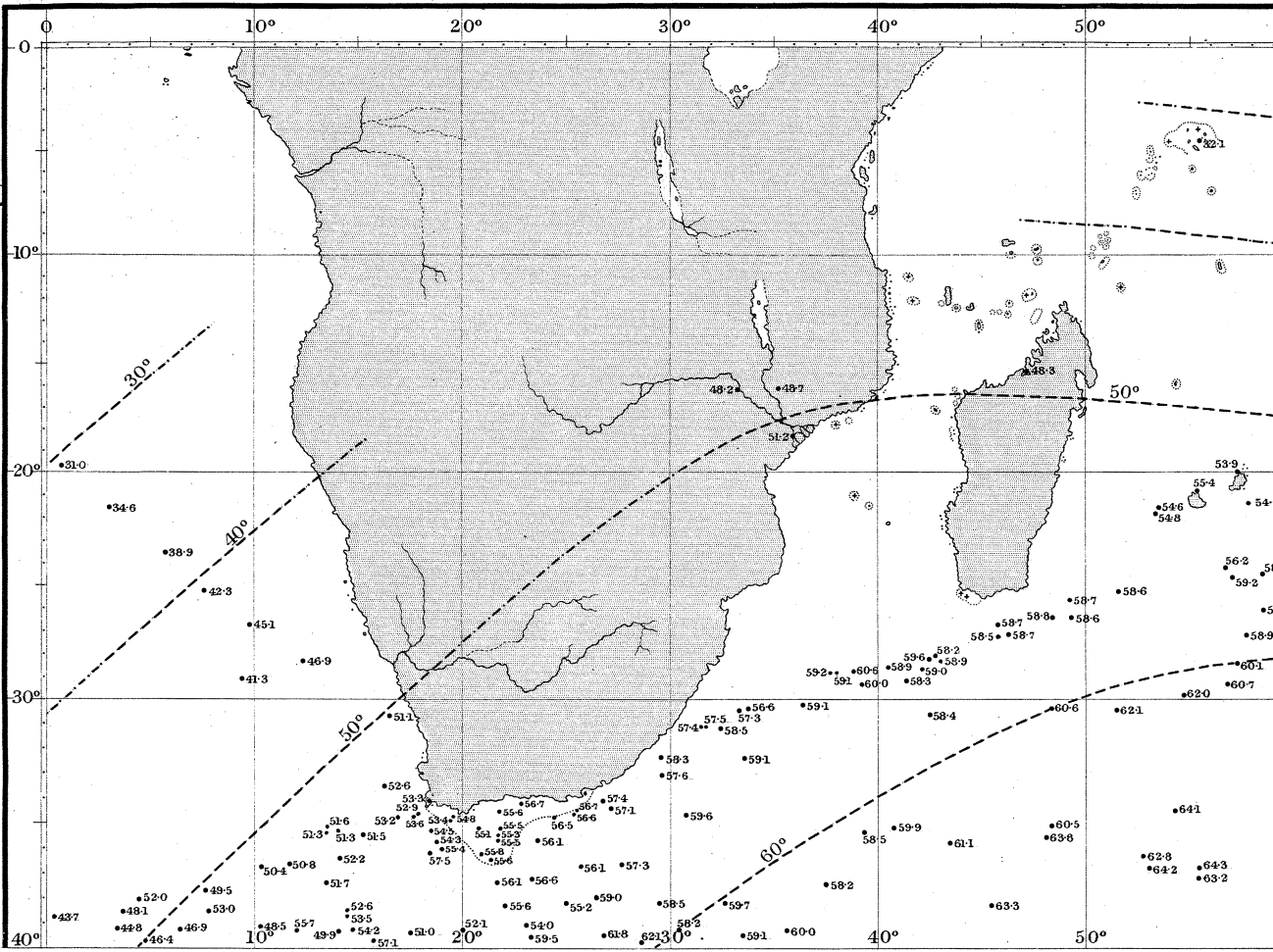
Engraved by



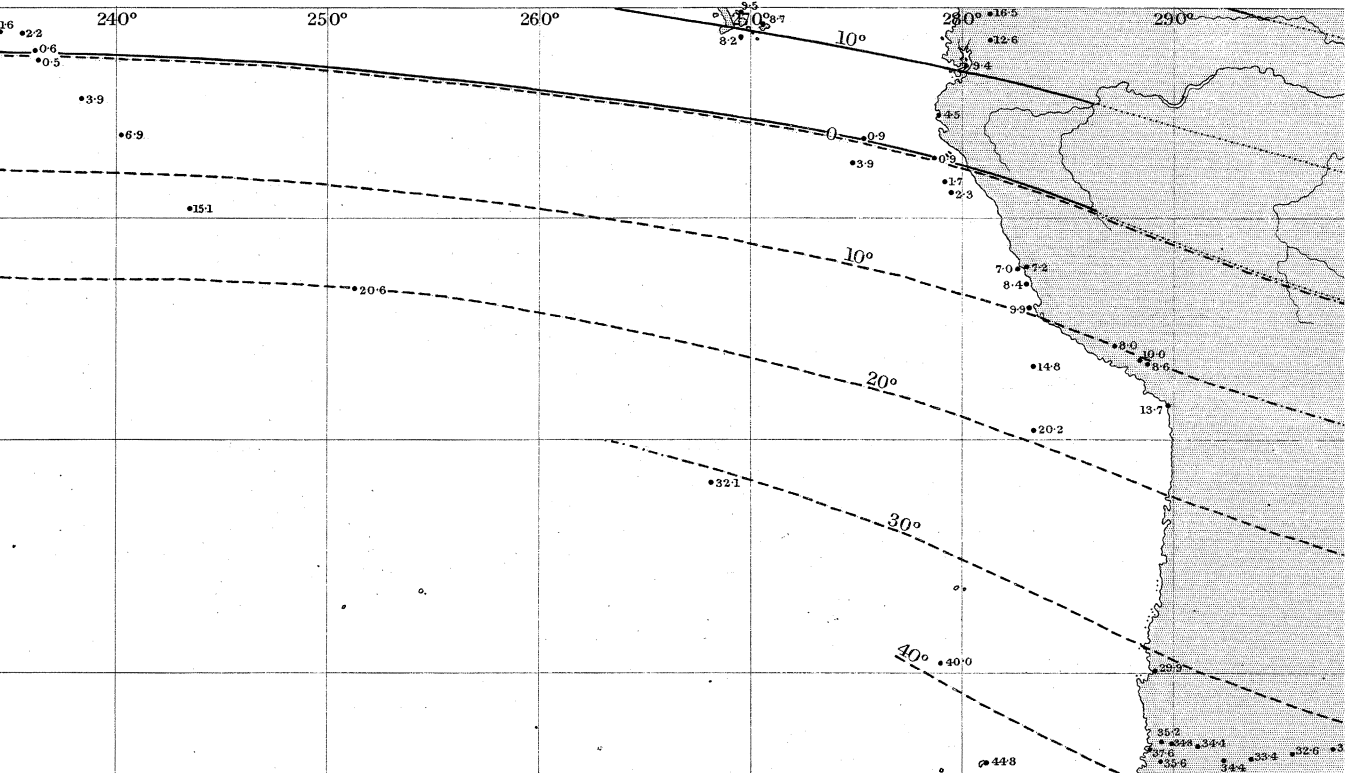
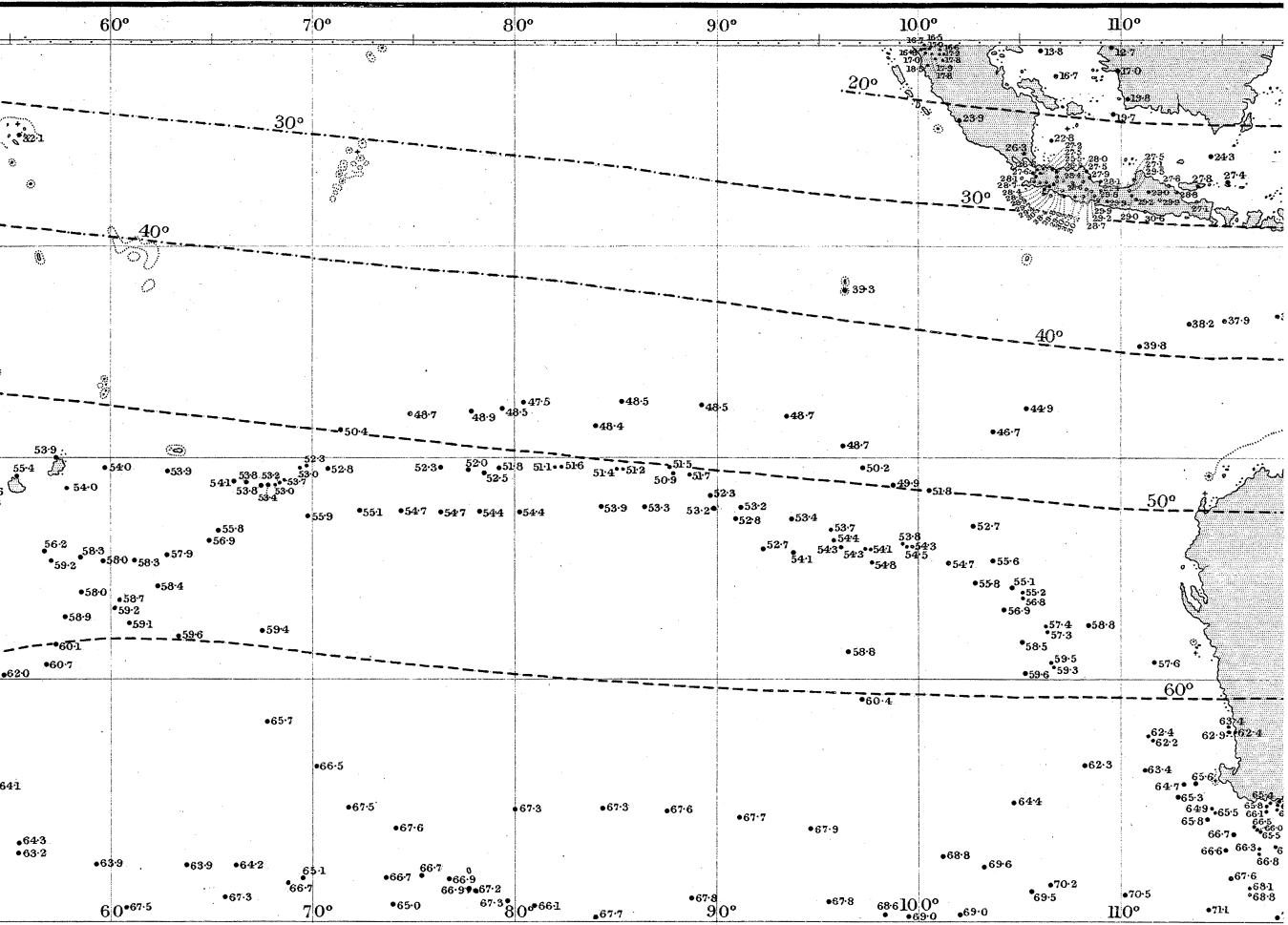
Engraved by Malby & Sons

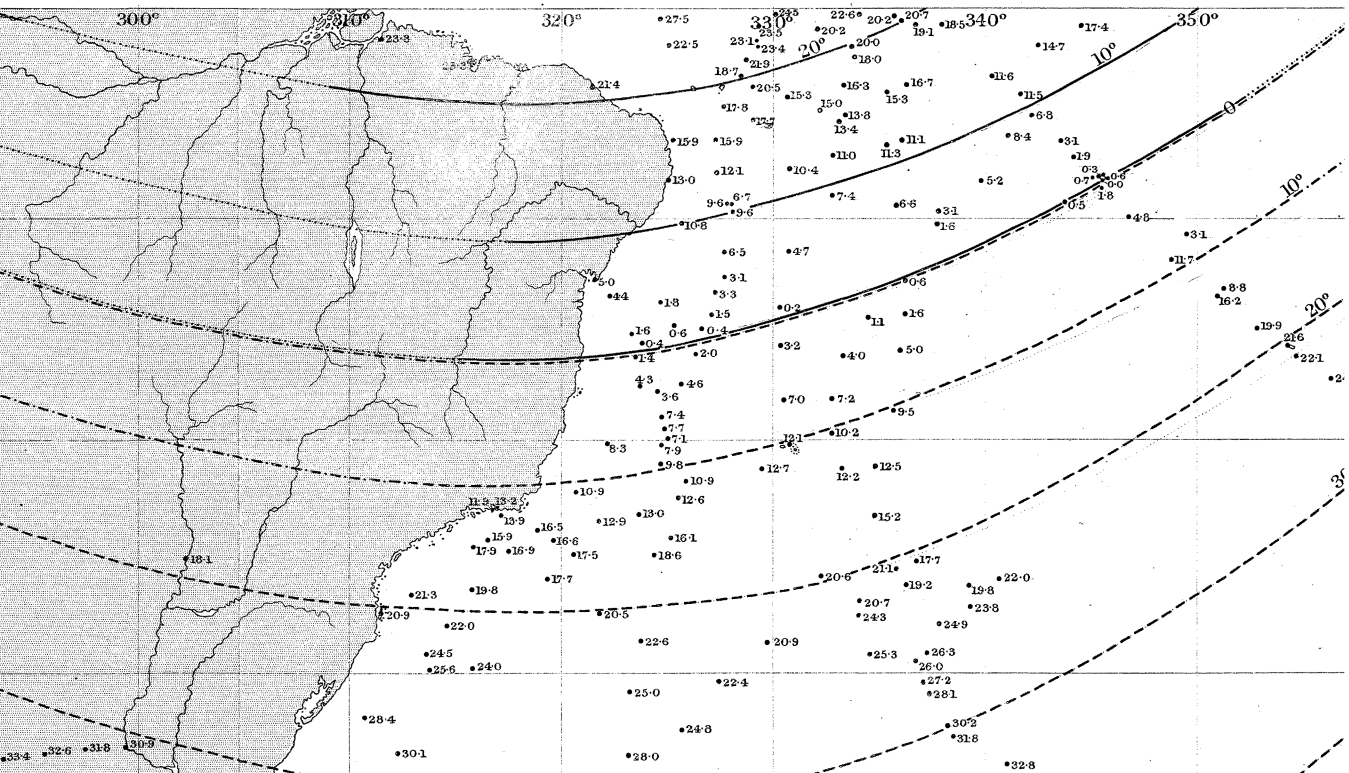
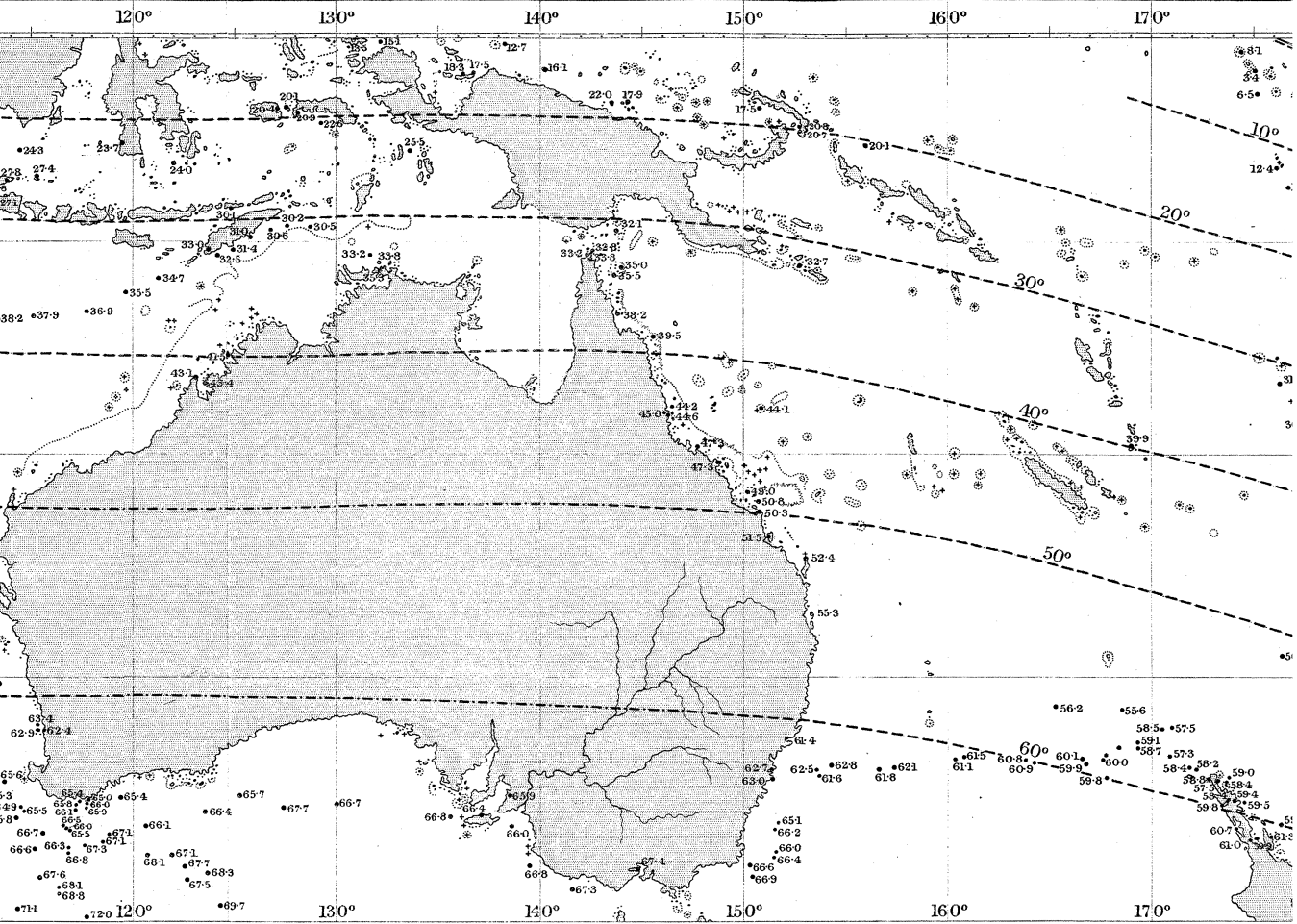
MAGNETIC SURV

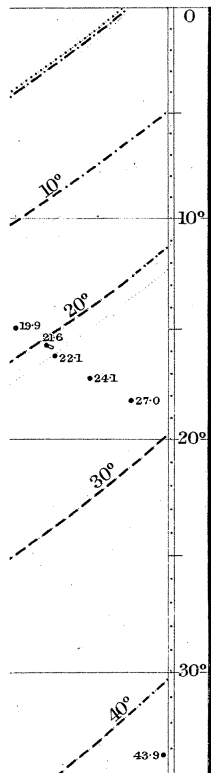
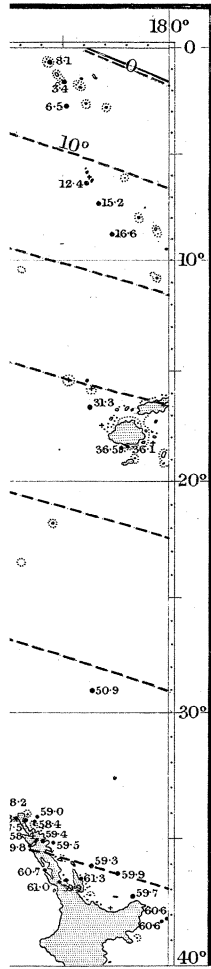
(Sabine)

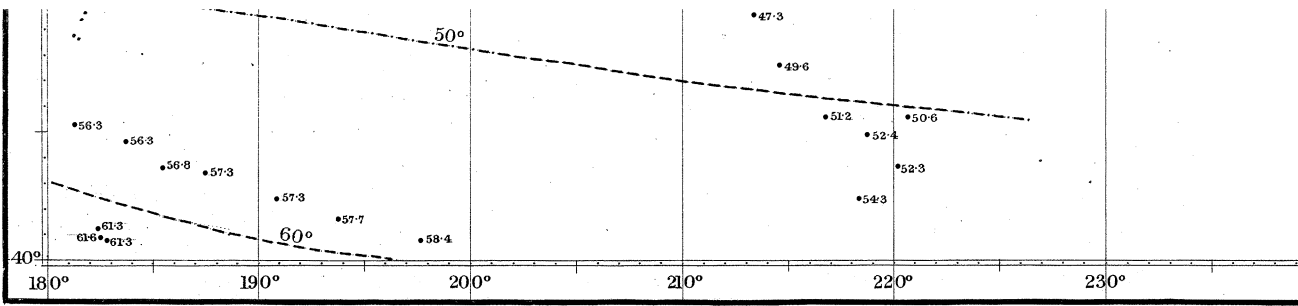


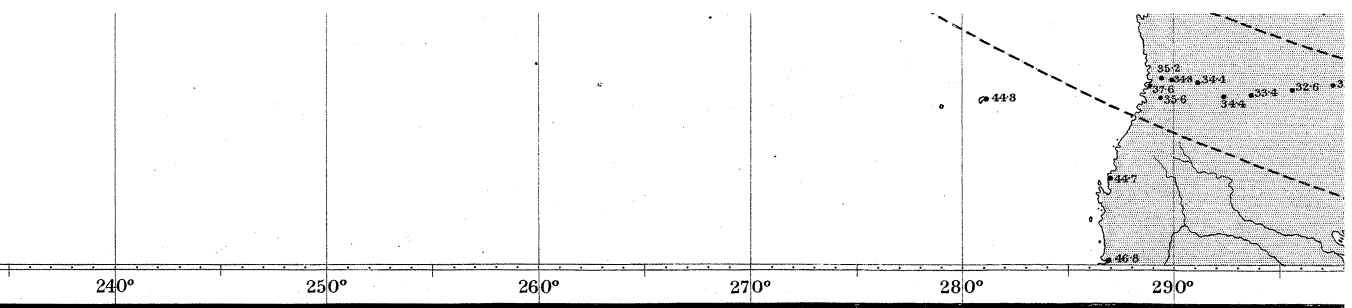
SURVEY - *between the Equator and the parallel of 40°S. - Epoch*

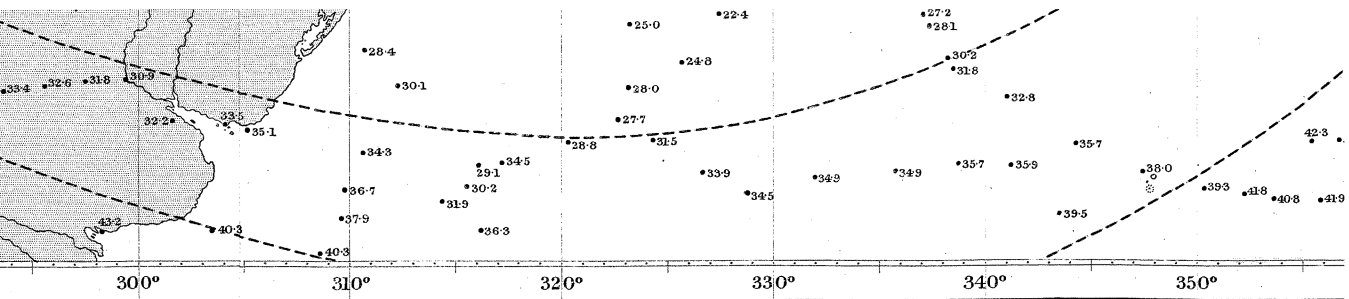




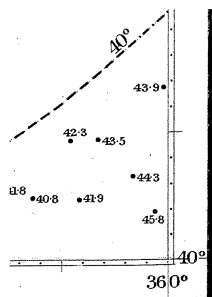








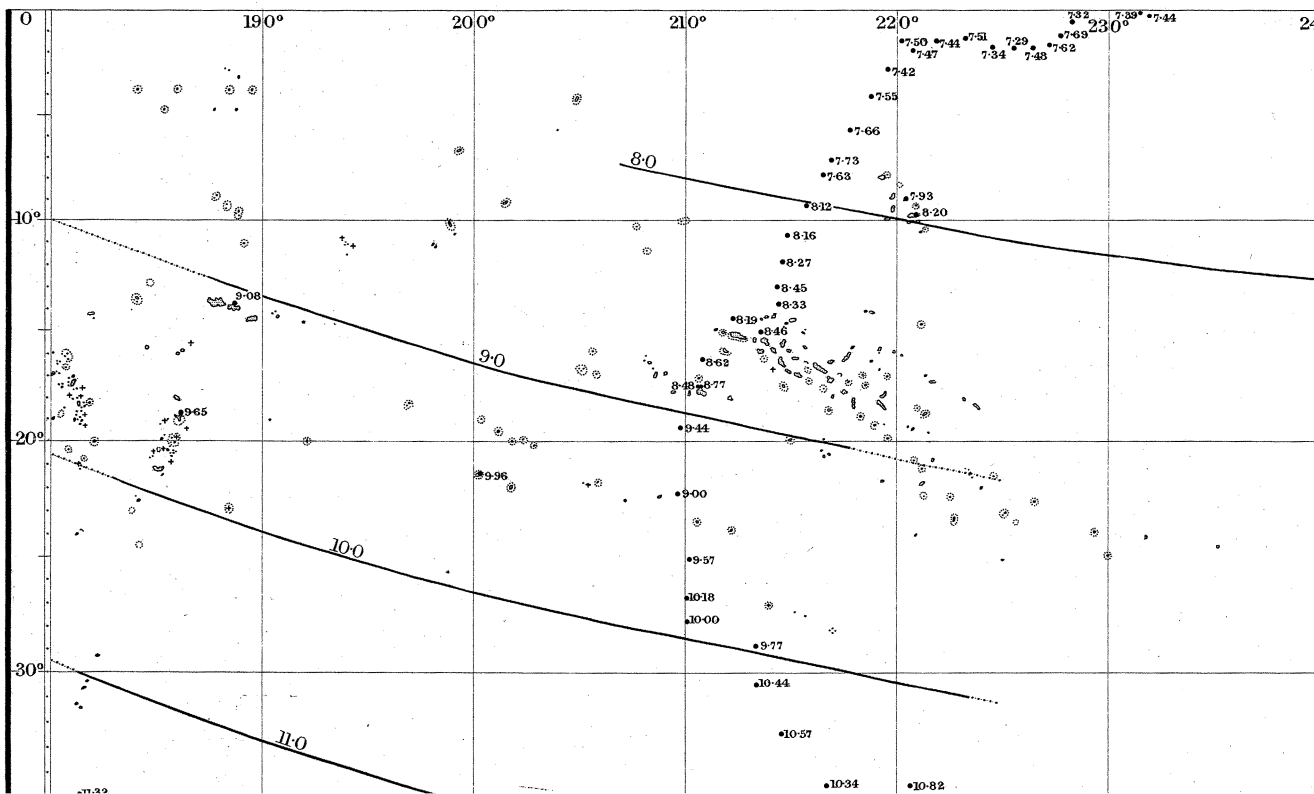
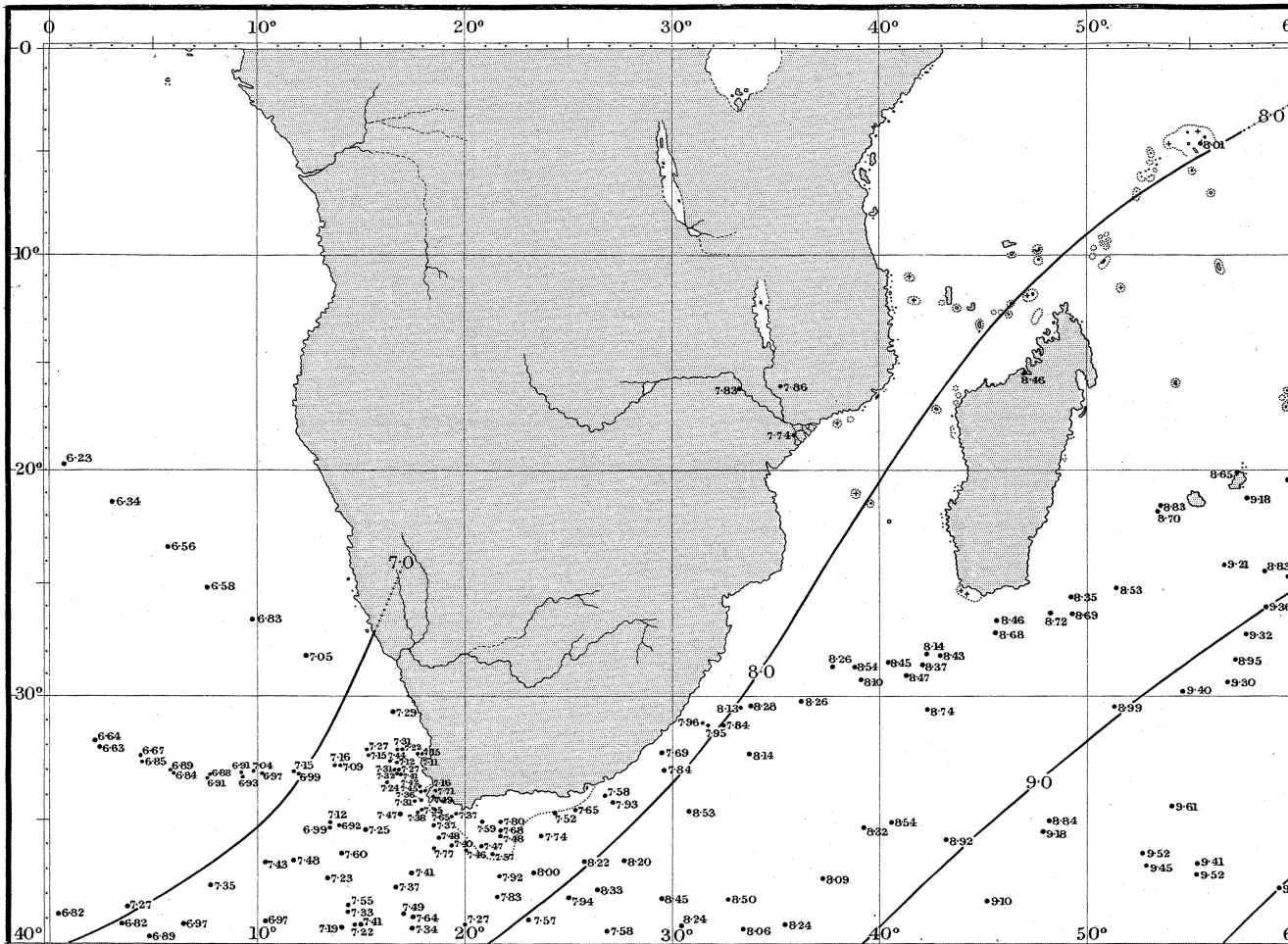
Engraved by



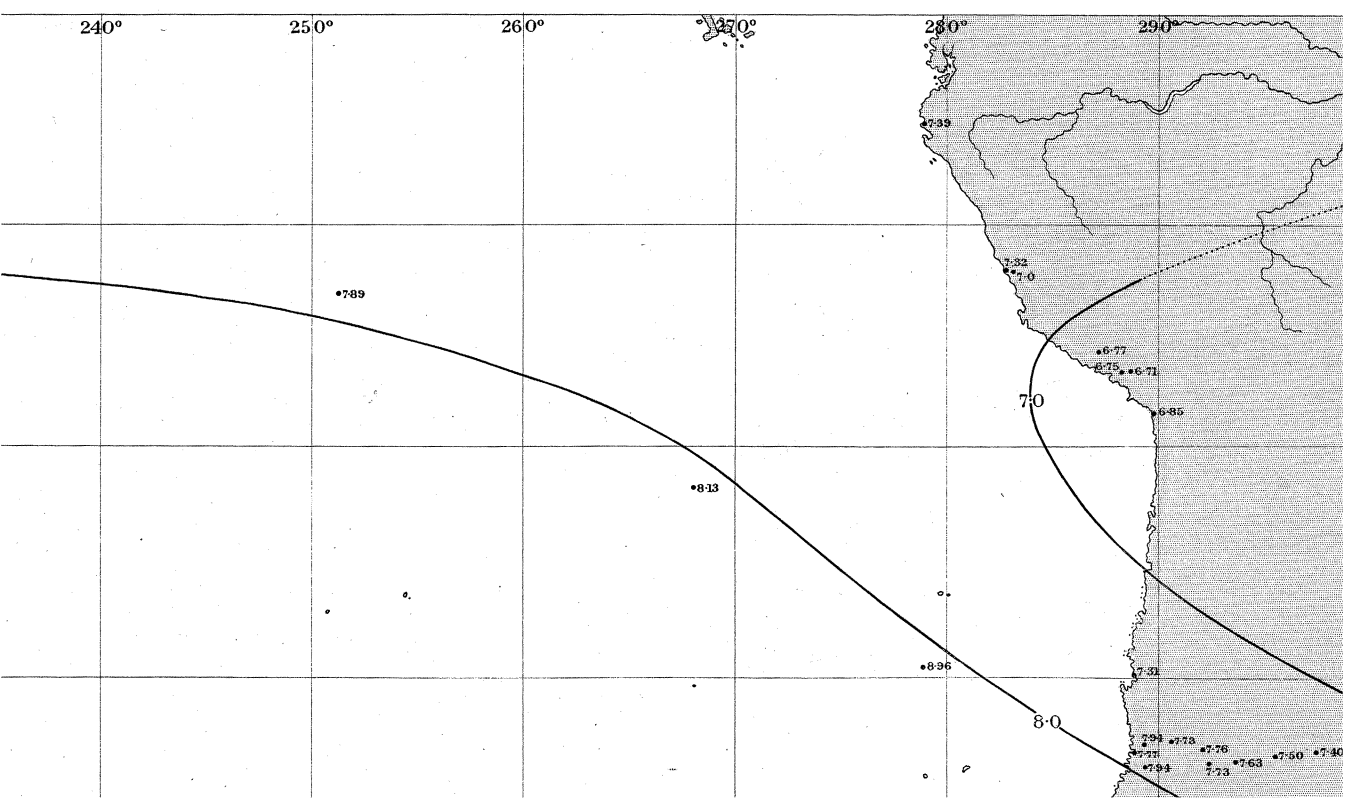
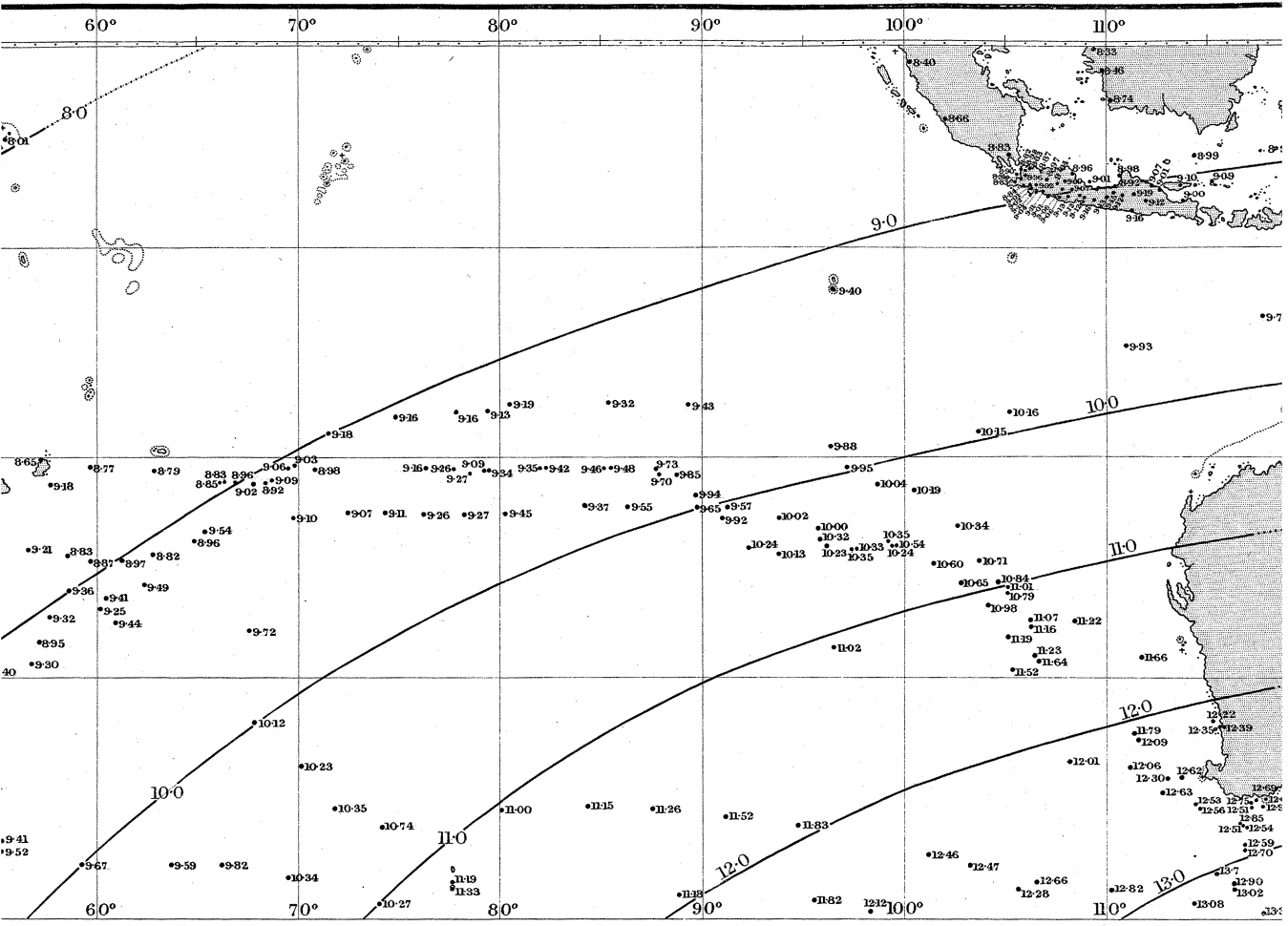
Engraved by Malby & Sons.

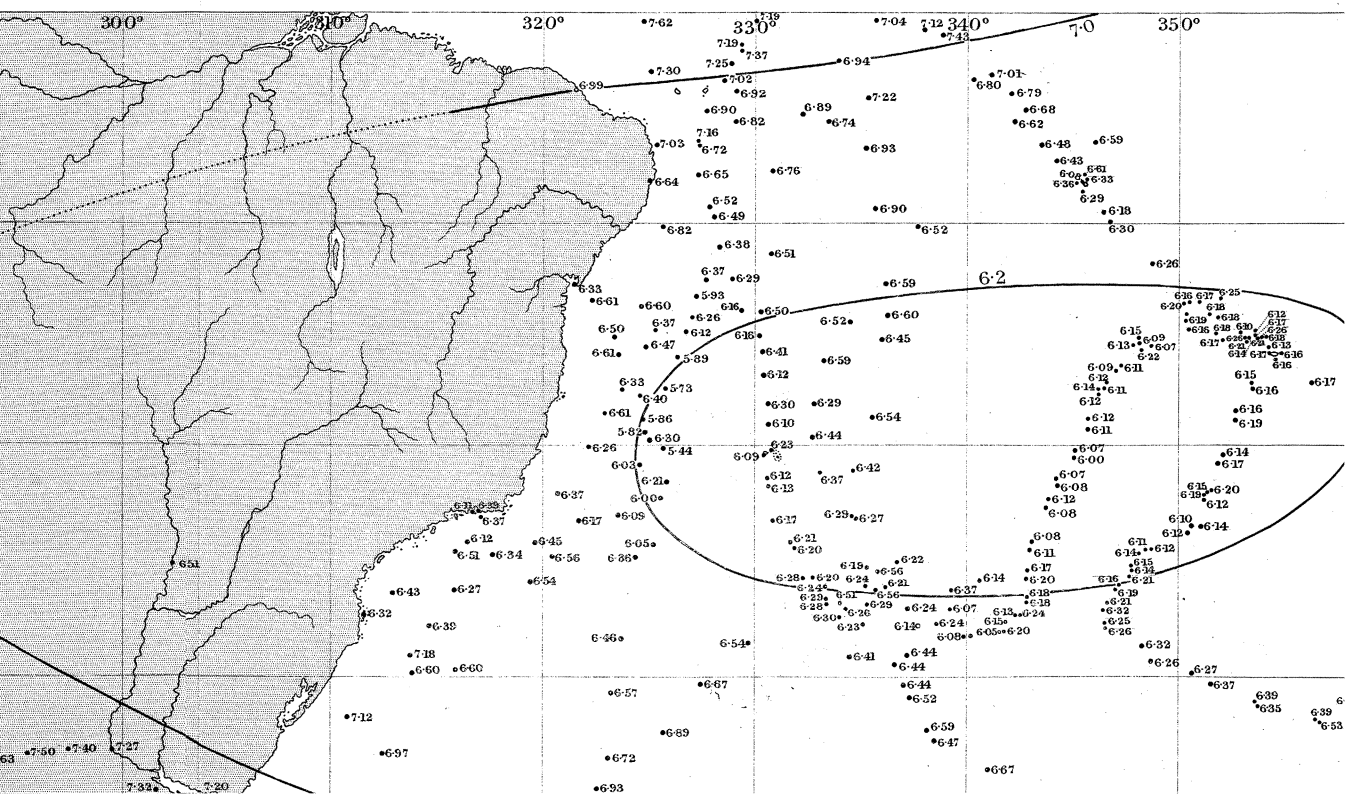
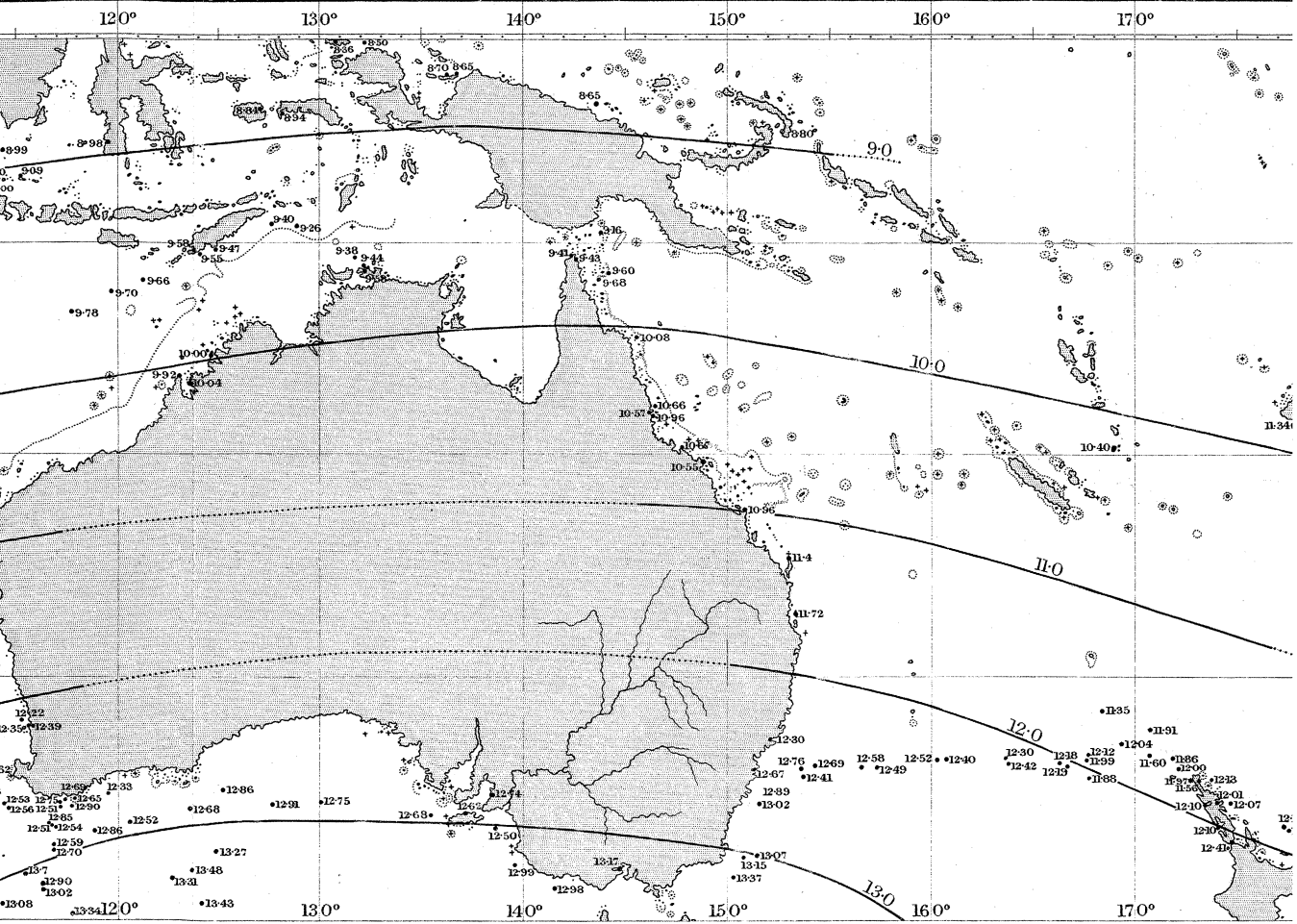
MAGNETIC SURV

(Sabine)

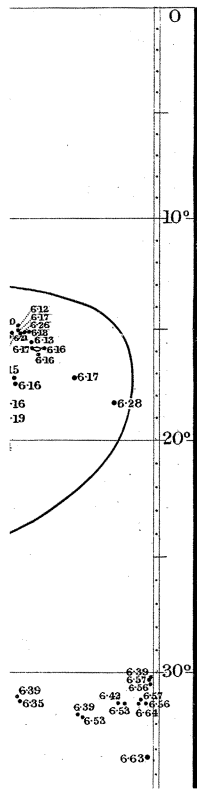
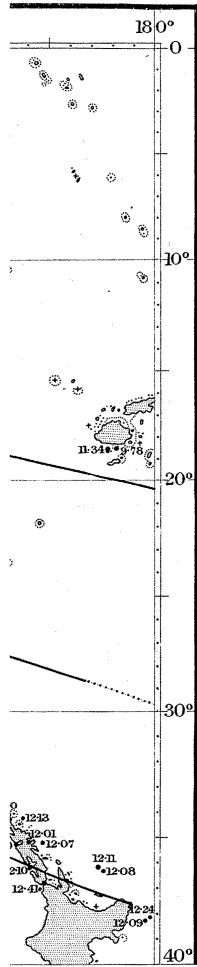


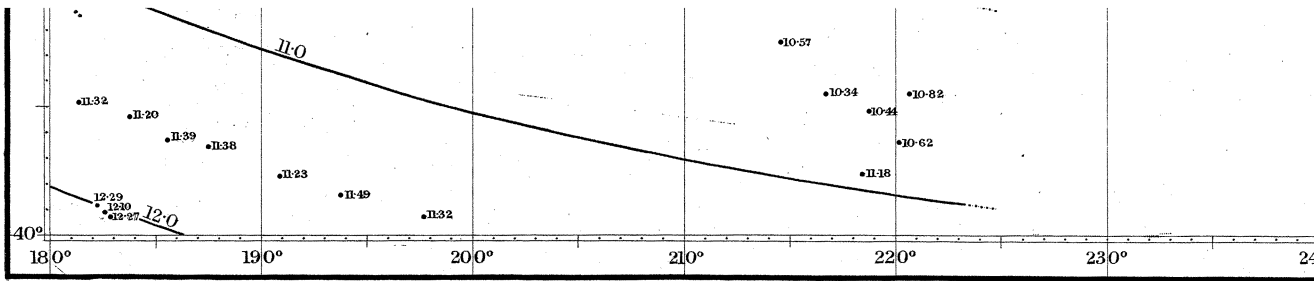
SURVEY - between the Equator and the parallel of 10° S. - Epoch

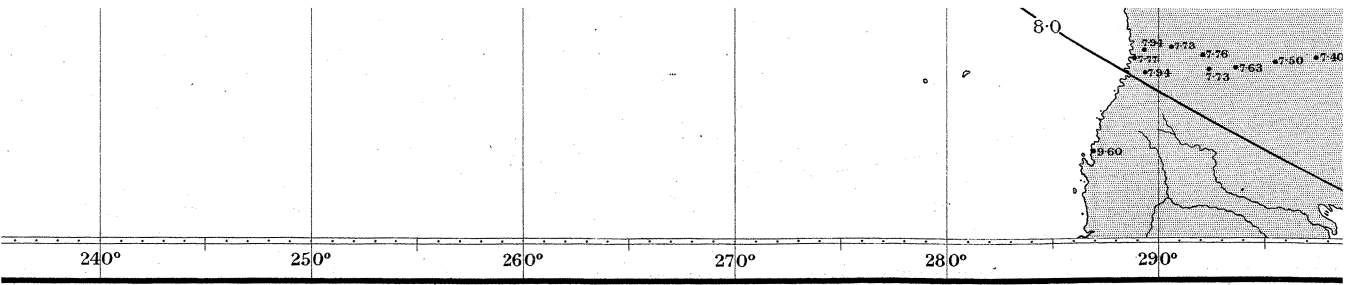


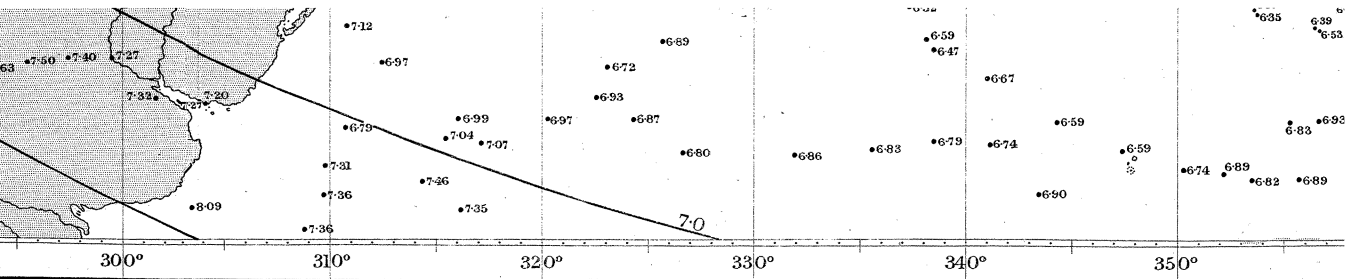


77. Plate 19.

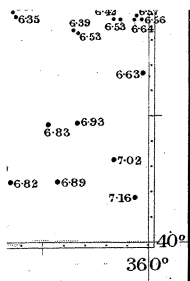








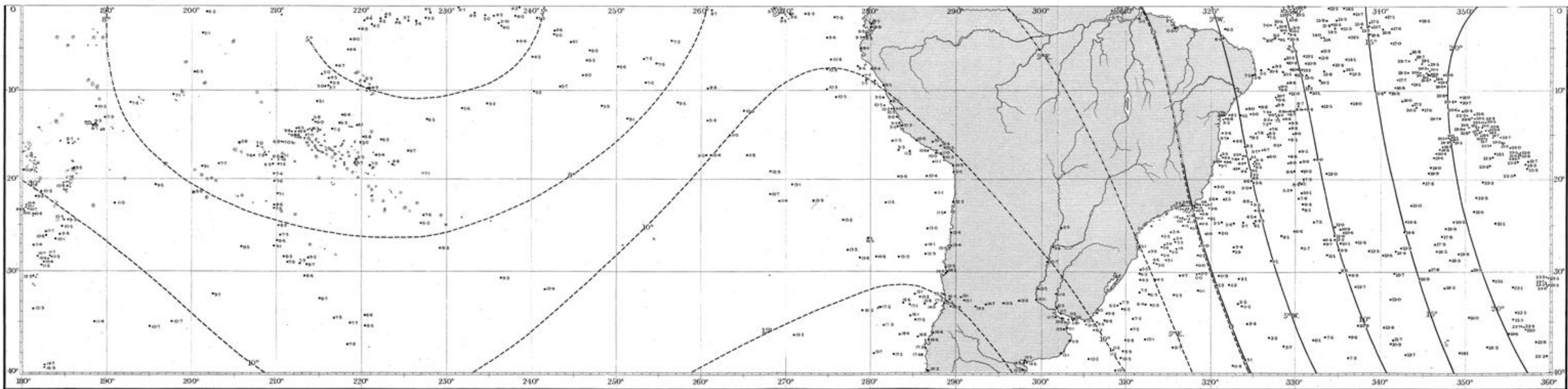
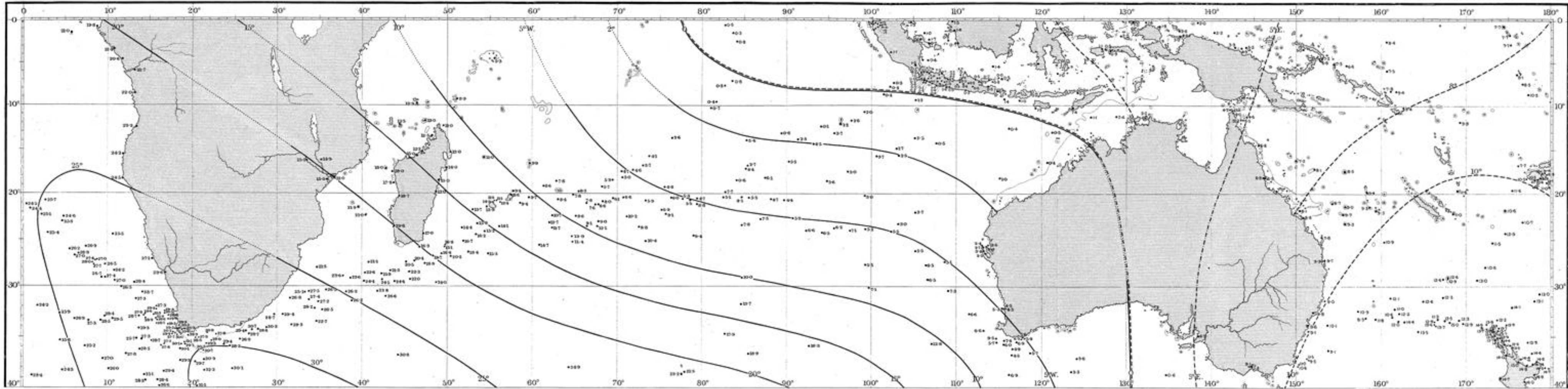
Engraved by D



Engraved by Malby & Sons.

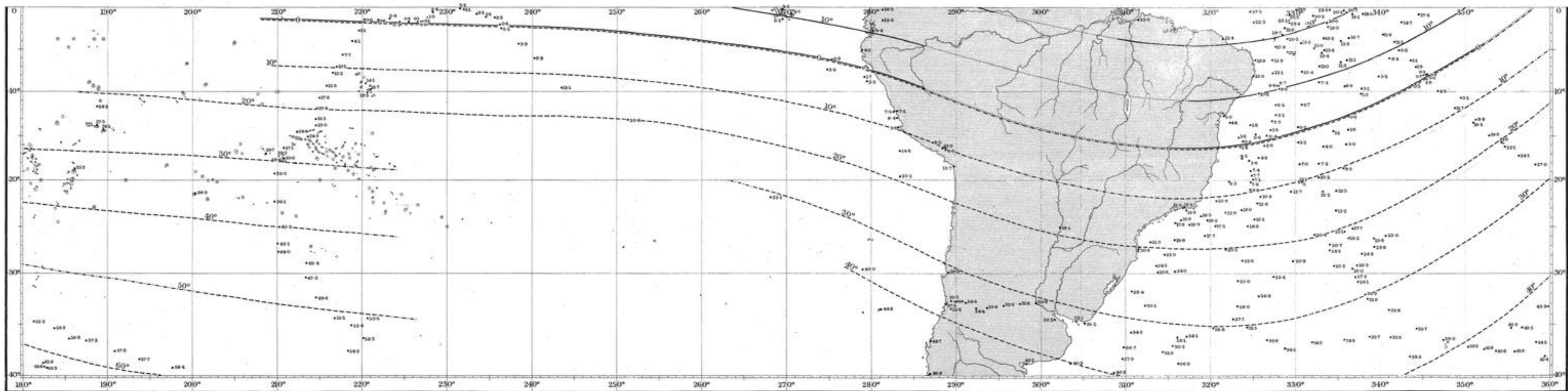
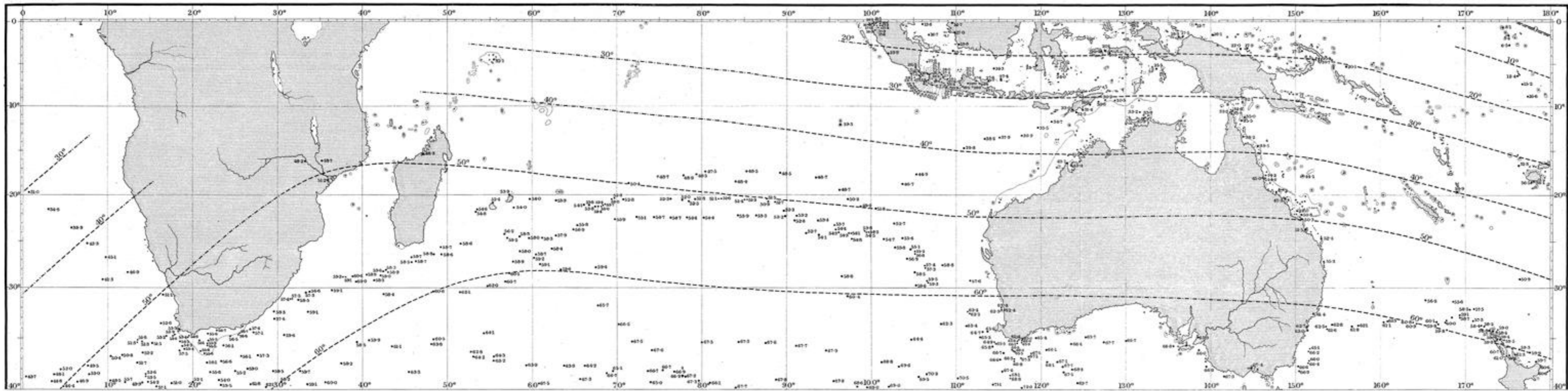
MAGNETIC SURVEY - between the Equator and the parallel of 40° S. - Epoch 1840-45. Declination.

(Sabine)



MAGNETIC SURVEY - between the Equator and the parallel of 40° S. - Epoch 1840-45. Inclination.

(Sabine)



MAGNETIC SURVEY - between the Equator and the parallel of 40° S. - Epoch 1840-45. Intensity.

(Sabine)

