PRELIMINARY RESULTS OF OCEAN MAGNETIC OBSERVATIONS
ON THE CARNEGIE FROM CRISTOBAL TO NEWPORT NEWS
AND WASHINGTON, D. C., MAY AND JUNE, 1918.¹

By H. M. W. EDMONDS, Commanding the *Carnegie*.

(Observers: H. M. W. Edmonds, A. D. Power, B. Jones, L. L. Tanguy, J. M. McFadden, and W. E. Scott.)

Date	Latitude	Long. East of Gr.	Carnegie Values			Chart Differences ²					
			Decl'n	Incl'n	Hor. Int.	Decl'n and Incl'n			Hor. Int. ³		
						Brit.	Ger.	U.S.	Br.	Gr.	U.S.
1918	° ' "	° ' "	°	°	c.g.s.	°	°	°			
May 12	10 30 N	280 29	.....	38.4 N	.320	3.6 N	3.1 N	.....	-9	-11	-20
12	10 41 N	280 33	4.5 E	.....	.....	0.2 E	0.2 E	0.3 E	.....	.....	.....
13	11 07 N	280 33	4.5 E	.....	.....	0.3 E	0.3 E	0.3 E	.....	.....	.....
13	11 58 N	280 24	.....	40.4 N	.318	3.2 N	2.9 N	.....	-9	-12	-20
13	12 11 N	280 25	4.3 E	.....	.....	0.3 E	0.3 E	0.3 E	.....	.....	.....
14	13 03 N	280 19	4.2 E	.....	.....	0.4 E	0.4 E	0.4 E	.....	.....	.....
14	13 41 N	280 11	.....	42.9 N	.314	2.7 N	2.7 N	.....	-11	-15	-22
14	13 54 N	280 07	4.0 E	.....	.....	0.3 E	0.3 E	0.4 E	.....	.....	.....
15	13 49 N	280 11	4.0 E	.....	.....	0.3 E	0.3 E	0.4 E	.....	.....	.....
15	14 09 N	279 23	.....	43.4 N	.314	2.3 N	2.7 N	.....	-11	-15	-23
15	14 19 N	279 10	4.2 E	.....	.....	0.3 E	0.4 E	0.3 E	.....	.....	.....
16	15 30 N	278 45	4.6 E	.....	.....	0.8 E	0.8 E	0.8 E	.....	.....	.....
16	16 12 N	278 24	.....	46.0 N	.310	1.9 N	2.9 N	.....	-12	-17	-24
16	16 27 N	278 16	4.2 E	.....	.....	0.4 E	0.4 E	0.6 E	.....	.....	.....
17	17 34 N	277 41	4.3 E	.....	.....	0.5 E	0.5 E	0.7 E	.....	.....	.....
17	18 14 N	277 10	.....	48.6 N	.306	1.9 N	2.9 N	.....	-13	-18	-25
17	18 31 N	277 00	4.2 E	.....	.....	0.3 E	0.4 E	0.6 E	.....	.....	.....
18	19 35 N	276 33	4.6 E	.....	.....	0.8 E	0.8 E	1.0 E	.....	.....	.....
18	20 26 N	276 05	.....	51.1 N	.300	2.0 N	3.0 N	.....	-15	-21	-25
18	20 40 N	275 53	4.6 E	.....	.....	0.7 E	0.8 E	0.8 E	.....	.....	.....
19	21 06 N	275 02	4.9 E	.....	.....	0.7 E	1.0 E	0.8 E	.....	.....	.....
19	21 30 N	274 34	.....	52.1 N	.300	1.9 N	3.2 N	.....	-13	-18	-22
19	21 40 N	274 24	4.7 E	.....	.....	0.3 E	0.6 E	0.4 E	.....	.....	.....
20	22 59 N	273 48	5.2 E	.....	.....	0.7 E	1.0 E	0.6 E	.....	.....	.....
20	23 48 N	273 43	.....	54.8 N	.290	1.6 N	2.8 N	.....	-17	-18	-22
20	23 49 N	273 50	4.6 E	.....	.....	0.2 E	0.4 E	0.0	.....	.....	.....
21	23 15 N	274 28	5.0 E	.....	.....	0.8 E	1.1 E	0.6 E	.....	.....	.....
21	24 04 N	274 44	.....	55.2 N	.286	1.3 N	2.2 N	.....	-18	-18	-24
21	24 19 N	274 49	4.7 E	.....	.....	0.7 E	0.9 E	0.5 E	.....	.....	.....
May 22	23 44 N	275 44	4.4 E	.....	.....	0.8 E	0.9 E	0.6 E	.....	.....	.....
22	23 33 N	276 12	.....	55.2 N	.288	2.0 N	2.4 N	.....	-17	-17	-24

¹For previous table, see *Terr. Mag.*, v. 23, pp. 69-72.

²Charts used for comparison: U. S. Hydrographic Office Chart No. 2406 for 1915 and No. 1701 for 1900; British Admiralty Charts No. 3777 for 1917, Nos. 3598 and 3603 for 1907; Reichs-Marine-Amt Charts Tit. XIV, No. 2 for 1910, Tit. XIV, Nos. 2a and 2b for 1905. The chart differences are obtained by subtracting corrected chart values, derived as explained in previous sentence, from the observed *Carnegie* values. The letter E signifies that the chart value for east declination is smaller, or the chart value for west declination larger, than the *Carnegie* value; W signifies the reverse. The letter N signifies that the derived chart value for northerly inclination is smaller, or for southerly inclination larger, than the *Carnegie* value; S signifies the reverse. The plus sign signifies that the derived chart value for horizontal intensity is smaller than the *Carnegie* value, the minus sign meaning, of course, the reverse.

³Expressed in units of third decimal C. G. S.

Date	Latitude	Long. East of Gr.	Carnegie Values			Chart Differences					
			Decl'n	Incl'n	Hor. Int.	Decl'n and Incl'n			Hor. Int.		
						Brit.	Ger.	U.S.	Br.	Gr.	U.S.
1918					c.g.s.						
22	23 50 N	276 11	4.1 E	.....	.....	0.7 E	0.7 E	0.5 E	.....	.....	.....
23	23 37 N	277 02	3.9 E	.....	.....	0.8 E	0.8 E	0.6 E	.....	.....	.....
23	23 53 N	277 10	.....	55.7 N	.283	1.7 N	2.6 N	.....	-19	-20	-26
23	23 37 N	277 27	3.1 N	.....	.....	0.3 E	0.3 E	0.0	.....	.....	.....
24	23 40 N	278 21	.....	55.5 N	.283	1.5 N	2.3 N	.....	-19	-19	-27
24	23 48 N	278 28	3.0 N	.....	.....	0.6 E	0.8 E	0.5 E	.....	.....	.....
25	24 27 N	279 17	.....	56.8 N	.278	1.6 N	2.7 N	.....	-19	-20	-27
25	24 44 N	279 25	2.5 E	.....	.....	0.7 E	0.9 E	0.8 E	.....	.....	.....
26	25 04 N	280 00	2.2 E	.....	.....	0.8 E	0.9 E	0.9 E	.....	.....	.....
26	25 35 N	280 11	.....	58.2 N	.272	1.8 N	2.3 N	.....	-18	-20	-27
26	26 10 N	280 13	1.5 E	.....	.....	0.4 E	0.4 E	0.7 E	.....	.....	.....
27	28 11 N	280 17	0.7 E	.....	.....	0.5 E	0.0	0.7 E	.....	.....	.....
27	29 01 N	280 08	.....	61.9 N	.255	1.9 N	1.6 N	.....	-19	-21	-23
27	29 25 N	280 10	0.4 E	.....	.....	0.4 E	0.2 E	0.6 E	.....	.....	.....
28	30 26 N	280 49	0.1 W	.....	.....	0.5 E	0.4 E	0.7 E	.....	.....	.....
28	30 44 N	281 04	.....	63.6 N	.244	2.0 N	1.3 N	.....	-21	-23	-22
28	30 50 N	281 10	1.0 W	.....	.....	0.0	0.1 W	0.3 E	.....	.....	.....
29	31 09 N	281 41	1.4 W	.....	.....	0.0	0.1 W	0.3 E	.....	.....	.....
29	31 14 N	281 52	.....	63.8 N	.242	1.3 N	1.0 N	.....	-18	-22	-18
29	31 18 N	281 55	1.4 W	.....	.....	0.2 E	0.1 W	0.5 E	.....	.....	.....
30	31 42 N	282 05	1.3 W	.....	.....	0.5 E	0.4 E	0.8 E	.....	.....	.....
30	31 54 N	282 22	.....	64.8 N	.255	1.8 N	1.5 N	.....	-19	-23	-21
30	32 00 N	282 32	2.0 W	.....	.....	0.3 E	0.3 E	0.8 E	.....	.....	.....
31	32 28 N	283 24	2.8 W	.....	.....	0.2 E	0.0	0.8 E	.....	.....	.....
31	32 52 N	284 15	.....	65.5 N	.230	1.4 N	0.8 N	.....	-17	-18	-15
31	33 01 N	284 33	4.4 W	.....	.....	0.4 W	0.8 W	0.0	.....	.....	.....
June 1	33 43 N	285 16	4.9 W	.....	.....	0.1 W	0.5 W	0.1 E	.....	.....	.....
1	33 54 N	285 39	.....	66.7 N	.221	1.5 N	1.0 N	.....	-18	-20	-16
1	33 54 N	285 43	5.4 W	.....	.....	0.2 W	0.7 W	0.2 W	.....	.....	.....
2	34 08 N	286 07	5.6 W	.....	.....	0.0	0.3 W	0.3 E	.....	.....	.....
2	34 46 N	285 51	.....	67.4 N	.216	1.3 N	0.8 N	.....	-17	-16	-16
2	35 10 N	285 45	6.3 W	.....	.....	0.4 W	0.7 W	0.2 W	.....	.....	.....
3	36 02 N	285 29	6.9 W	.....	.....	0.7 W	1.0 W	0.7 W	.....	.....	.....
3	36 07 N	285 04	.....	68.4 N	.209	1.0 N	0.7 N	.....	-13	-14	-16
3	36 09 N	284 49	5.7 W	.....	.....	0.1 E	0.1 W	0.0	.....	.....	.....
4	36 11 N	284 34	5.8 W	.....	.....	0.2 W	0.4 W	0.4 W	.....	.....	.....
8	37 19 N	283 51	6.2 W	.....	.....	0.4 W	0.5 W	0.6 W	.....	.....	.....
9	38 12 N	283 44	6.2 W	.....	.....	0.1 W	0.2 W	0.2 W	.....	.....	.....
9	38 13 N	283 44	.....	70.1 N	.196	0.6 N	0.4 N	.....	-12	-12	-12
10	38 14 N	283 07	6.0 W	.....	.....	0.4 W	0.3 W	0.5 W	.....	.....	.....