

TABLE VII.

Observations of the magnetic declination at Baltimore.<sup>1</sup>

Latitude = 39° 17'.8. Longitude = 76° 37'.0 W. of Greenwich  
[Washington Monument].

No.	Date.	Declination.	References and Remarks.
	1620, about	11°(?) W	According to R. Dudley's <i>Arcano del Mare</i> , 1646-47. Not used.
1	1640—	9 W	De Isogonen in de XVI en XVII Eeuw; Proefschrift door W. van Bemelen. Utrecht, 1893. <i>Given values.</i> <sup>2</sup>
2	1679.0	5.25 W	D. of 1679.0 = D. of 1814.5 + 4.50
3	1683.5	6.25 W	1683.5      1814.5 + 5.50
4	1703.5	5.12 W	1703.5      1811.8 + 4.43
5	1720.5	4.21 W	1720.5      1816.0 + 3.42
6	1729.2	4.02 W	1729.2      1807.1 + 3.39
7	1754.5	2.28 W	1754.5      1855.5 - 0.37
8	1756.9	2.88 W	1756.9      1815.0 + 2.12
9	1771.0	1.11 W	1771.0      1846.5 - 1.00
10	1776.1	1.75 W	1776.1      1811.4 + 1.07
11	1780.5	0.77 W	1780.5      1861.5 - 2.25
12	1787.5	0.37 W	1787.5      1851.0 - 2.00
13	1808.5	0 12.5W	D. Byrnes, from numerous observations, at Baltimore, in different localities; <i>Sill. Jour.</i> , vol. xviii, 1830.
14	1840, Aug. 27	2 16.5W	Dr. A. D. Bache, <i>Coast Survey Report</i> for 1862, p. 213.
15	1847, April 29	2 18.6W	Capt. T. J. Lee, U. S. E., <i>Assistant Coast Survey</i> , at Fort McHenry in lat. 39° 15'.8, long. 76° 34'.8 W.; <i>Coast Survey Report</i> for 1854, p. 144.
16	1856, Sept. 13	2 29.3W	C. H. Schott, <i>Assistant Coast Survey</i> ; just outside Fort McHenry in lat. 39° 15'.9, long. 76° 34'.9 W.; <i>Coast Survey Report</i> for 1858, p. 191.
17	1875.5	3.74 W	T. Kelbaugh. <sup>2</sup> D. of 1875.5 = D. of 1857.0 + 1° 00'. Adopted value for 1857.0, + 2° 74'.
18	1877, Oct. 10, 11, 12	4 10.8W	J. B. Baylor, <i>Assistant U. S. Coast Survey</i> , at Fort McHenry, near station of 1856, in lat. 39° 15'.9, long. 76° 34'.9; <i>Coast and Geodetic Survey Report</i> for 1881, App. 9.
19	1885, Aug. 5, 6, 7	4 29.3W	J. B. Baylor; same station as 1877.
20	1895, Sept. 27, 28	5 20.3W	J. B. Baylor; at a different station in grounds of Fort McHenry.

<sup>1</sup> According to collections given in *Coast and Geodetic Survey Reports* for 1888, App. 7, pp. 214-215, and for 1895, App. 1, p. 219.

<sup>2</sup> "Mr. Thomas Kelbaugh, surveyor at Mount Carmel, Baltimore County, Maryland, communicated to the *Coast Survey office* (letters dated August 17 and 24, 1877, and April 28, 1879) 52 cases of observed (or allowed for) changes of magnetic declinations between two given dates. These differences were mostly from redeterminations of magnetic bearings of old lines made with the common surveyor's compass by different individuals and with different instruments. Their locality was generally known within a radius of 15 statute miles of the city of Baltimore, and on the N., the N. E.