

TABLE VI.

Showing the secular change in the magnetic declination at various stations.

Date.	NORTHERN HEMISPHERE.						SOUTHERN HEMISPHERE.			
	London.	Paris.	Rome.	Manila	San Francisco.	Balti- more.	Rio de Janel- ro.	Ascen- sion. I.	St. Helena. I.	Cape Town.
1540	7.2 (?) E	8.2 E	10.47 E	o	o	o	o	o	o	o
1560	9.6 (?) E	9.3 E	11.61 E	..	..	..	..	..	..	..
1580	10.93 E	9.6 E	11.41 E	..	..	..	..	..	..	..
1600	10.13 E	8.8 E	9.88 E	..	..	..	..	..	..	..
1620	7.26 E	6.9 E	7.29 E	..	..	..	..	..	..	..
1640	3.27 E	4.42 E	3.86 E	..	..	5.00 W	..	..	..	..
1660	0.59 W	0.86 E	0.01 W	..	..	6.00 W	..	..	..	..
1680	3.89 W	3.47 W	4.01 W	..	..	6.01 W	..	..	..	..
1700	7.08 W	7.99 W	7.77 W	..	..	5.05 W	..	..	..	..
1720	10.97 W	12.27 W	11.02 W	..	..	4.05 W	..	..	..	..
1740	15.30 W	15.83 W	13.63 W	..	..	3.02 W	..	..	..	..
1760	19.57 W	18.76 W	15.51 W	..	..	1.95 W	7.44 E	8.4 W	11.70 W	20.5 W
1780	22.65 W	20.87 W	16.64 W	..	12.6 E	1.03 W	6.84 E	11.6 W	14.59 W	23.2 W
1800	24.07 W	22.12 W	17.06 W	0.18 E	13.6 E	0.66 W	5.42 E	14.0 W	17.51 W	25.4 W
1820	24.09 W	22.40 W	16.77 W	0.38 E	14.6 E	0.93 W	3.46 E	16.4 W	20.01 W	27.2 W
1840	23.22 W	21.38 W	15.84 W	0.54 E	15.43 E	1.77 W	1.01 E	18.8 W	22.00 W	28.8 W
1860	21.55 W	19.54 W	14.23 W	0.70 E	16.11 E	2.99 W	1.71 W	21.4 W	23.41 W	29.7 W
1880	18.73 W	16.76 W	11.77 W	0.78 E	16.57 E	4.30 W	4.52 W	22.9 W	24.11 W	29.6 W
1890	17.57 W	15.16 W	10.57 W	0.80 E	16.64 E	4.89 W	5.88 W	23.0 W	24.21 W	29.2 W
1900	..	..	..	..	16.7 E	5.04 W	..	..	..	..

between 1580 and 1812, in an interval of 232 years, the compass direction at London veered from 11° east to 24° 12' west, or changed its direction by 35° 12'! A street a mile long, laid out in London in 1580 so as to run parallel to the direction pointed out by the compass would be 3725 feet, or $\frac{1}{10}$ of a mile, too far to the east at the north terminus according to the compass direction of 1812!

By looking over the figures for Paris and Rome we find similar changes to those at London. At Paris the maximum easterly declination of 9° 36' was reached near the year 1580, and the maximum westerly declination of 22° 36' in about 1809, the needle pointing due north in 1664. At Rome the declination of the needle reached its maximum amount east, 11° 36', in 1570 approximately, and its maximum amount west, 17° 06', in about 1810, coinciding with the true meridian in 1660. At Manila, on the Philippine Islands, the needle changed from 11' east in 1800 to 48' east in 1890, and at San Francisco, Cal., from 12° 36' east in 1780 to 16° 41' at the present time. We next come to Baltimore and find that at this station between 1640