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OBSERVATIONS

FOR

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MDCCCXLVIII.

# OBSERVATIONS

IN

## MAGNETISM AND METEOROLOGY,

MADE AT

### MAKERSTOUN IN SCOTLAND,

IN THE OBSERVATORY OF

GENERAL SIR THOMAS MAKDOUGALL BRISBANE, BART.,

G.C.B., G.C.H., D.C.L., LL.D., F.R.S., F.R.A.S., H.M.R.I.A., PRESIDENT OF THE ROYAL SOCIETY OF EDINBURGH,  
AND CORRESPONDING MEMBER OF THE INSTITUTE OF FRANCE.

IN 1844.

FORMING VOL. XVIII. OF THE TRANSACTIONS OF THE ROYAL SOCIETY OF EDINBURGH.

DISCUSSED AND EDITED BY

JOHN ALLAN BROUN, Esq.,

DIRECTOR OF THE OBSERVATORY.

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Plan of the Observatory, and projected observations at the end of the volume, see Introduction, p. lxvi., No. 116.

## ERRATA IN THIS VOLUME OF OBSERVATIONS FOR 1844.

- Introduction, page xxi., line 4, for  $\Phi = 0.0012$  read  $\Phi = 0.00212$
- Page 3, 8<sup>d</sup> 3<sup>h</sup>, column "Declination," for 28.18 read 21.46
- 3, 10<sup>d</sup> 4<sup>h</sup>, column "Declination," for 28.13 read 22.08
- 3, 10<sup>d</sup> 11<sup>h</sup>, column "Balance Corrected," for 807.3 read 755.7
- 9, 10<sup>d</sup> 12<sup>h</sup>, column "Balance Corrected," for 785.1 read 685.1
- 12, 28<sup>d</sup> 16<sup>h</sup>, column "Balance Corrected," for 667.4 read 617.4
- 13, 4<sup>d</sup> 7<sup>h</sup>, column "Balance Corrected," for 882.3 read 782.3
- 18, 29<sup>d</sup> 13<sup>h</sup>, column "Balance Corrected," for 379.4 read 419.1
- 18, 30<sup>d</sup> 6<sup>h</sup>, column "Balance Corrected," for 748.3 read 848.3
- 28, 22<sup>d</sup> 27<sup>h</sup>, column "Balance Corrected," for 574.3 read 524.3
- 32, 16<sup>d</sup> 20<sup>h</sup>, column "Bifilar Corrected," for 528.5 read 518.5
- 41, 1<sup>d</sup> 5<sup>h</sup>, column "Bifilar Corrected," for 519.9 read 619.9
- 50, 19<sup>d</sup> 2<sup>h</sup>, column "Balance Corrected," for 037.5 read 637.5
- 54, 10<sup>d</sup> 11<sup>h</sup>, column "Bifilar Corrected," for 336.1 read 536.1
- 54, 13<sup>d</sup> 23<sup>h</sup>, column "Bifilar Corrected," for 228.0 read 528.0
- 56, 20<sup>d</sup> 19<sup>h</sup>, column "Balance Corrected," for 338.4 read 438.4
- 66, 14<sup>d</sup> 8<sup>h</sup>, column "Balance Corrected," for 649.5 read 749.5
- 73, 12<sup>h</sup> 55<sup>m</sup>, column "Bifilar Corrected," for 529.9 read 520.9
- 86, 21<sup>h</sup> 30<sup>m</sup>, column "Balance Corrected," for 509.3 read 609.3
- 95, 10<sup>d</sup> 8<sup>h</sup> 0<sup>m</sup>, column "Declination," for 24.1 read 24.19
- 107, 4<sup>d</sup> 10<sup>h</sup> 22<sup>m</sup>, column "Balance Corrected," for 676.6 read 576.6
- 124, 25<sup>d</sup> 7<sup>h</sup> 15<sup>m</sup>, column "Bifilar Corrected," for 694.3 read 594.3
- 127, 22<sup>d</sup> 9<sup>h</sup> 0<sup>m</sup>, column "Declination," for 09.29 read 08.29
- 164, foot-note, for Nov. 20<sup>d</sup> read Nov. 22<sup>d</sup> 0<sup>h</sup>
- 187, 11<sup>d</sup> 23<sup>h</sup>, column "Diff.," for 1.9 read 2.9
- 191, 20<sup>d</sup> 21<sup>h</sup>, column "Diff.," for 0.6 read . . . . .
- 201, 18<sup>d</sup> 9<sup>h</sup>, column "Diff.," for 0.8 read 0.7
- 214, 22<sup>d</sup> 11<sup>h</sup>, column "Wet.," for 2.0 read 42.0
- 222, 14<sup>d</sup> 2<sup>h</sup>, column "Diff.," for 5.2 read 6.2
- 233, 12<sup>d</sup> 22<sup>h</sup>, column "Diff.," for 0.3 read 1.3
- 238, 26<sup>d</sup> 13<sup>h</sup>, column "Barometer," for 39.672 read 29.672
- 240, 2<sup>d</sup> 11<sup>h</sup>, column "Dry.," for 42.0 read 52.0
- 253, 5<sup>d</sup> 6<sup>h</sup>, column "Wet.," for 57.0 read 57.6
- 254, 6<sup>d</sup> 16<sup>h</sup>, column "Barometer," for 29.880 read 28.880
- 298, 4<sup>d</sup> 19<sup>h</sup>, column "Dry.," for 35.3 read 25.3
- 310, April 2<sup>d</sup>, column "Min.," for 30.4 read 40.4
- 311, September 15<sup>d</sup>, column "Min.," for 57.9 read 52.0 ?
- 311, December 15<sup>d</sup>, column "Max.," for . . . . . read 36.6 ?
- 356, line 8, for 0.003605 read 0.003905
- 376, Table XL., October 13<sup>d</sup>, for 0196 read [0196]

## ERRATA IN THE VOLUME OF OBSERVATIONS FOR 1843.

- Introduction, 1843, page xxvi., line 13, for  $1 + k$  read  $1 - k$
- — — — — 17, for observation read vibration
- — — — — 22, for  $1 + k$  read  $1 - k$
- page xxxvi., line 4, for  $\cot \theta$  read  $\tan \theta$
- page lxx., line 22, for 2 and 3 read xxxvi. and xxxvii.
- Page 31, 14<sup>h</sup> 0<sup>m</sup>, column "Bifilar Corrected," for 557.2 read 537.2
- 41, 9<sup>h</sup> 0<sup>m</sup>, column "Balance Corrected," for 80.63 read 806.3
- 44, 18<sup>h</sup> 10<sup>m</sup>, column "Declination," for 15.54 read 17.56
- 44, 19<sup>h</sup> 5<sup>m</sup>, column "Bifilar Corrected," for 815.1 read 515.1
- 46, 14<sup>h</sup> 30<sup>m</sup>, column "Bifilar Corrected," for 217.2 read 517.2
- 67, July 25<sup>d</sup> 10<sup>h</sup> 23<sup>m</sup>, column "Balance Corrected," for 826.6 read 626.6
- 73, second column of Göttingen mean time, for Dec. 28<sup>d</sup> 2<sup>h</sup> read Dec. 28<sup>d</sup> 3<sup>h</sup>
- 82, Dec. 18<sup>d</sup> 1<sup>h</sup> 31<sup>m</sup>, column "Unifilar Reading," for 20.29 read 25.29 The quantities in the three following columns, and in the last two columns, will require equivalent corrections, but see page xxv., No. 28, Introduction for 1844.
- Page 130, last line, for indicate read indication
- 146, July 21<sup>d</sup> 8<sup>h</sup>, column "Diff.," for 3.1 read 2.9
- 151, July 31<sup>d</sup> 8<sup>h</sup>, for cirri-like read cirri, like
- 170, Oct. 8<sup>d</sup> 18<sup>h</sup>, column "Barometer," for 30.228 read 29.228
- 237, line 15 below Table XIII., for solstices read equinoxes
- 267, line 2 below Table VI., for 7°.7 read 78°.7
- 303, line 17 below Table XXXV., for monthly read daily

## ERRATA IN THE VOLUME OF OBSERVATIONS FOR 1841-2.

- Introduction, page xi., line 6, for the term 1842 read the October term of 1842
- xxxiii., line 3 from foot, for 23 read 13
- xli., line 10, column "—Q.," for 0.000342 read 0.000298
- xli., line 6 from foot, for 0.0002979 read 0.0002972
- xli., line 5 from foot, for 0.0002915 read 0.0002922
- xlvi, heading of Table 22, for 23 read 21
- Page 34, 11<sup>h</sup> 12<sup>m</sup>, column "Balance Corrected," for 560.0 read 860.0
- 149, line 10 below Table XIX., for 2<sup>h</sup> read 23<sup>h</sup>
- 158, Table II., head of 5th column, for 3<sup>h</sup> read 5<sup>h</sup>