



Note on the undulatory theory of light

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The value of the dip is the mean of the three following amounts, $68^{\circ}22',25$, $68^{\circ}22',67$, and $68^{\circ}22',25$, obtained in succession on the 31st of March. These observations were made under very favourable circumstances. As in preceding years, it was thought proper to make the different observations for the declination and the dip at the same time of year and about the same hours of the day.

NOTE ON THE UNDULATORY THEORY OF LIGHT.

BY JOHN TOVEY, ESQ.

To the Editors of the Philosophical Magazine.

GENTLEMEN,

I perceive that the formulæ (18) of my paper in your present vol., p. 171, appear to lead to contradictory results; I shall be glad, therefore, if you will allow me to say, that this matter will be cleared up in my next paper, which will contain an improved method of finding the general integrals.

I am, Gentlemen, yours, &c.,

JOHN TOVEY.

Littlemoor, Clitheroe, May 13th, 1839.

METEOROLOGICAL OBSERVATIONS FOR APRIL, 1839.

Chiswick.—April 1. Rain. 2. Overcast. 3, 4. Bleak and cold. 5. Snowing. 6. Cloudy and cold. 7. Fine. 8. Snowing. 9. Bleak and cold. 10, 11. Fine but cold. 12—14. Cloudy and cold. 15. Overcast. 16. Very fine. 17. Showery. 18. Boisterous with rain. 19. Very fine. 20. Showery. 21. Fine. 22. Very fine. 23. Rain. 24—26. Fine. 27. Dry haze. 28—30. Very fine.

Boston.—April 1. Fine. 2. Stormy. 3—7. Cloudy. 8. Cloudy: sleet early A.M. 9. Cloudy. 10. Fine. 11—15. Cloudy. 16. Fine. 17, 18. Rain. 19. Fine: rain early A.M. 20, 21. Fine: rain A.M. and P.M. 22. Fine: rain early A.M. 23. Rain. 24—26. Cloudy. 27. Cloudy: rain A.M. 28—30. Fine.

Applegarth Manse, Dumfries-shire.—April 1. A most inclement day: snow on hills. 2. The same: snow on hills melting. 3. The same: bitterly cold. 4. Another piercing day: cloudy P.M. 5. Still extremely cold: snow showers. 6. Wind fallen: more temperate. 7. Moderate day: still no vegetation. 8. Piercingly cold and withering. 9. Dry and cold: frosty mornings. 10. Sun warm, but wind cold and withering. 11. Milder, but still no spring. 12. Great increase of temperature. 13. Sun warm: wind moderate but parching. 14. Moderate day: vegetation commencing. 15. The same: temperature lower: cloudy. 16. Threatening rain: showery: very wet P.M. 17. Showers: rain: hail: cleared P.M. 18. Frequent showers: rain and sleet: snow. 19. Violent wind: showers of hail. 20. Dry and cold: vegetation at a stand. 21. Dry: temperature rising. 22. Foggy morning: drizzling day. 23. Clear: temperature increasing. 24. The same: cool evening. 25. Temperature increasing: clear sun. 26. Cloudy: threatening: cleared up P.M. 27. Clear and fine: hoar frost morning. 28. The same: cloudy P.M. 29. Fine spring day. 30. Remarkably fine spring day.

Sun 25 days. Rain 4 days. Snow 2 days. Hail 2 days. Frost 3 mornings. Wind easterly 13 days. Southerly 12 days. Northerly 2 days. Westerly 3 days.

Calm 11 days. Moderate 7 days. Strong breeze 4 days. Stormy 5 days. Brisk 3 days.

Mean daily range of barometer 0.092. Mean nightly range 0.080. Mean range of 24 hours 0.172.

Mean daily range of thermometer 10.4.