

projecting permanent organs near the apertures, which are constantly in motion, and they increase by horizontal spontaneous division. Dr. Meyen, who is of the opposite opinion, mentions as the most important observations in favour of their vegetable nature, that their structure is exactly similar to that of the *Confervæ*; their formation of seed and the development of this seed is like that of the *Confervæ*. The occurrence moreover of amyllum in the interior of the *Closteriæ* with which they are frequently nearly filled, is a striking proof of their being plants; they have no feet,—what Ehrenberg regards as such are molecules having a spontaneous motion, which occur in great number in *Clos. Trabecula*, and quite fill a canal the whole length of the plant. Their function is difficult to determine, but they also occur in very many *Confervæ*, and may perhaps be compared with the Spermatozoa of plants.

METEOROLOGICAL OBSERVATIONS FOR JULY, 1839.

Chiswick.—July 1—3. Fine. 4, 5. Very fine. 6. Sultry. 7. Hot: thunder and much lightning at night, accompanied with unusually little rain. 8. Very fine. 9—11. Fine. 12. Cloudy: slight rain. 13. Very fine. 14. Very fine: rain. 15, 16. Fine. 17. Slightly overcast: thunder and heavy rain at night. 18. Showery: windy. 19, 20. Very boisterous. 21, 22. Fine. 23. Showery. 24. Rain: fine. 25. Overcast. 26. Very heavy rain. 27. Heavy thunder showers. 28. Cloudy. 29. Fine. 30, 31. Rain.

Boston.—July 1. Cloudy. 2. Cloudy: rain A.M. 3. Cloudy. 4. Fine. 5. Cloudy. 6. Fine. 7. Cloudy. 8. Fine: rain, with thunder and lightning A.M.: rain P.M. 9. Fine: rain, with thunder and lightning P.M. 10, 11. Fine. 12. Fine: rain P.M. 13. Fine. 14. Fine: rain P.M. 15—17. Fine. 18. Cloudy: stormy, with rain P.M. 19. Stormy. 20—23. Cloudy. 24. Cloudy: rain early A.M. 25. Cloudy. 26. Cloudy: rain P.M. 27. Rain: rain early A.M.: thunder and lightning P.M. 28. Fine: rain early A.M. 29. Fine: rain P.M. 30. Cloudy: rain early A.M.: rain P.M. 31. Cloudy: rain early A.M.

Applegarth Manse, Dumfries-shire.—July 1, 2. Very fine summer days: clear sky. 3. Very hot. 4. Warm, but with a pleasant breeze. 5. The same: getting cloudy P.M. 6. Slight showers all day. 7. Rain. 8. Slight showers A.M.: cleared and was fine. 9. Showery. 10. Wet and stormy nearly all day. 11. Warm but cloudy: very wet P.M. 12. Heavy rain during night: showery: flood. 13. Fine bracing air. 14. Showery A.M.: cleared up noon: cloudy P.M. 15. Showery A.M.: cleared, and was fine. 16. Remarkably fine day. 17. Cloudy and threatening, and electrical. 18. Frequent heavy showers and high wind. 19. Stormy day: rain nearly throughout. 20. Slight showers all day: flood. 21. Pleasant bracing air: getting cloudy P.M. 22. The same: a very slight shower. 23. Showery all day. 24. Showery A.M.: cleared up P.M. 25. Very fine day: air warm and genial. 26. The same: sultry P.M.: thunder. 27. Cooler: wind northerly: cloudy P.M. 28. Remarkably fine day. 29. Showery all day: distant thunder. 30. Fair and pleasant. 31. Slight shower A.M.

Sun 25 days. Rain 17 days. Thunder 2 days.

Wind southerly 23 days. Northerly 5 days. Westerly 1 day. Easterly 2 days.

Calm 14 days. Moderate 7 days. Brisk 4 days. Strong breeze 3 days. Boisterous 3 days.



1839. "Meteorological observations for July, 1840." *Annals of natural history* 4, 71–71. <https://doi.org/10.1080/00222934009512464>.

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