

Read May 28, 1772.

XXXVII. Meteorological Observations at Ludgvan in Mount's-Bay, Cornwall, 1771: By William Borlase*, D. D. F. R. S. Communicated by Dr. Jeremiah Milles, Dean of Exeter, and F. R. S.

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Ombr.
January	Highest 23 30,5 Lowest 19 29,0	<p>The 1st at night a violent storm, and rain till midnight. On the 2d at 8 P. M. a violent storm, which continued all night; stormy the 3d and 4th; ditto the 26th at night; wind Westerly. On the 10th at night, after hail showers, a great fall of snow; the 11th great snow falling, with stormy blasts; the 12th deep snow and more falling, with frost; deep snow, and hard frost, the 13th, 14th, 15th, 16th, 17th, 18th, and 19th, snow lying deep, but the frost more gentle and the thaw came on; the 20th P. M. it thawed fast; on the 21st in the afternoon, the frost and snow was all gone; the rest of the month mostly mists with some hard showers of rain. Wind, during the storms, mists, and rain, Westerly for 16 days; during the cold, East, and East North East.</p>	<p>Monthly Med. of heat for each day. Inches.</p> <p>Highest 1 50 } 39⁵/₁₁ Lowest 17 27¹/₂ } 31⁰⁰⁰/₀₀₀</p>	

* This is the last paper of this kind, which the Society will receive from the excellent author of the Natural History of Cornwall, and several other learned works; death having, though at an advanced age, put a period to a life divided between the pursuit of useful and experimental knowledge, and the faithful discharge of every moral and religious duty. M. M.



Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Omb.
February	Highest 3 30, 16 Lowest 25 28, 87	Calm, the 3 ^d , 4 th , 5 th , 6 th , 7 th , 9 th , 14 th , 15 th , 17 th , 18 th , 21 st , 22 ^d ; hard frost with some snow on the 9 th , 10 th , 11 th , 12 th , 13 th , 14 th . It then thawed, and the rest was hazy, misty, showery, with some high winds on the 15 th and 27 th . Wind, during the cold, East and North, the rest South for 18 days.	Med. Highest 21 52 } Lowest 11 30 } 43 $\frac{22}{33}$	1,500
March	Highest 19 30, 6 Lowest 12 29, 15	Calm, the 3 ^d , 4 th , 5 th , 6 th , 7 th , 8 th , 15 th , 18 th , 19 th , 20 th , 21 st , 27 th , 31 st . Frost 6 th , 7 th , 23 ^d , 25 th , 28 th ; hail, snow, and fleet 23 ^d , 24 th , 25 th , 27 th , 28 th . Stormy the 1 st , 13 th . Wind 27 days from the East mixed equally with North and South.	Highest 13 49 $\frac{1}{2}$ } Lowest 25 30 } 41 $\frac{27}{31}$	2,900
April	Highest 18 30, 27 Lowest 30 29, 50	Calm, the 1 st , 5 th , 9 th , 10 th , 12 th , 13 th , 14 th , 19 th , 20 th , 21 st , 23 ^d , 26 th , 27 th , 29 th , 30 th . Hailed, snow lying only 2 days, viz. the 15 th and 16 th . Rest, mostly fair, and dry. Wind 18 days from the East; the rest mixed, and changeable.	Highest 22 53 } Lowest 16 35 } 46 $\frac{4}{36}$	0,900
May	Highest 23 30, 8 Lowest 7 29, 18	Calm, 1 st , 2 ^d , 3 ^d , 4 th , 5 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 17 th , 18 th , 19 th , 20 th , 21 st , 22 ^d , 23 ^d , 24 th , 25 th , in all 23 days. Stormy only on the 27 th . Wind Southerly 23 days; the rest not fixed.	Highest 14 65 $\frac{1}{2}$ } Lowest 1 45 } 53 $\frac{11 \frac{1}{2}}{31 \frac{1}{2}}$	2,250

Month.

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Ombr.
June	Highest 30,15 Lowest 29,54	Calm, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 20th, 21st, 22d, 23d, 24th, 25th, 26th, 27th, 28th, 29th, 30th (in all 24 days) the wind variable and mixed, but the weather remarkably settled, fair, and pleasant. On the 28th however, there was most violent thunder, lightning, and a flood of rain, at the towns of Penryn and Falmouth, 20 miles distant from Mount's-Bay to the East; but in Mount's-Bay, the air was cloudy, and only some distant thunders; the lightning was scarce visible, and not a drop of rain.	Med. Highest 71½ } Lowest 3 49 } 58.9 } 30 ½	Inches. 0,200
July	Highest 14 30,15 Lowest 31 29,50	Calm, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 10th, 13th, 14th, 15th, 16th, 17th, 18th, 23d, 24th, 25th, 27th, 28th, 29th, 30th, the rest mixed. Wind 24 days from the West, mixed mostly with the South. N. B. As we had a most unusual run of dry weather here in Cornwall; in other parts of the world, they had altogether as extraordinary a glut of rain. See, for particulars, the public papers, from Berlin, Dresden, Hamburg, and Vienna, &c. in Europe, and from Virginia in North America, where their inundations have not been remembered so destructive.	Highest 17 72 } Lowest 31 54½ } 61.9 } 31 ½	0,720

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Omb.
August	Highest 29 30.0 Lowest 19 29.40	Calm, 1st, 2d, 3d, 4th, 5th, 6th, 15th, 17th, 22d, 23d, 26th, 27th, 28th, 29th, 30th, 31st; the rest misty, fogs, and rains, with some gales interspersed. Wind 28 days from the West, mixed, nearly equal with North and South.	Med. Highest 31 66 } Lowest 1 54 }	Inches. 3,633
September	Highest 28 30.6 Lowest 20 29.30	Calm, 2d, 3d, 5th, 6th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 24th, 25th, 26th, 28th; the rest hazy, cloudy, windy, mixed with rain. Wind mostly West, mixed with the North.	Highest 1 61 } Lowest 26 46½ }	3,400
October	Highest 31 30.33 Lowest 13 28.85	Calm, only 8 days A. M. only 2 days P. M.; the rest rainy, windy, stormy. A violent storm on the 13th and 14th; the extrem on the 14th at 10 P. M. wind South West. N. B. on the 13th, at Caton near Lancaster, happened the greatest inundation in the memory of man. Wind 23 days from the West, mixed mostly with the South.	Highest 8 57 } Lowest 31 43 }	4,550
November	Highest 18 30.40 Lowest 11 29.40	Calm, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 13th, 18th, 19th, 20th, 22d, 25th, 26th, 27th. On the 11th, 12th, 15th, 16th, stormy with rain and showers. Wind 24 days from the West, mixed mostly with the South. N. B. This month was very dry in Cornwall; but by the incessant rains in the middle of it, from the 15th to the 17th, such inundations happened at Newcastle, Durham, Barnard-castle, and near Carlisle, by the breaking out of Solway-mofs, as have never been known so destructive.	Highest 16 55 } Lowest 10 39 }	1,450
				Month.

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Ombr.
December	Highest 30 30,4 Lowest 7 28,40	Calm, 1st, 2d, 8th, 13th, 17th, 18th. On Friday the 6th (new-moon at 8 A. M. wind South by East, and South East) about 8 P. M. it blew a violent storm, and setting full into Mount's-Bay at spring-tide, the sea was so high, and furious, that it demolished houses, cellars, boats, and walls, wherever it reached. The four towns on the shore all suffered; and it has been calculated, that not less than 5000 £. damage was done here that night, besides ships lost. It reached to the Eastward; and at Plymouth, about 60 miles off, they reckoned the tide was higher by ten feet than usual. The remainder of this month was showery, rainy, windy. Wind Westerly 24 days, mixed mostly with the South.	Med. } Highest 11 54 } Lowest 30 36 }	Inches. 5,350

The whole Rain fallen in this Year 1771, }
 at Ludgvan, a very dry Year, }
 153 }
 30,76000 }