

Tuesday, 11th January, 1859,	2 p.m.	— 19°9	“	
“	“	9 p.m.	— 21°0	“
“	“	10 p.m.	— 21°6	“
“	“	Midnight	— 18°1	“
Wednesday 12th	“	6 a.m.	— 19°4	“
“	“	2 p.m.	— 10°4	“
“	“	10 p.m.	— 5°0	“
Thursday 13th	“	6 a.m.	— 3°1	“
“	“	7:30 a.m.	0°0 (Zero.)	

This table shows a period of 124 hours 30 minutes during which the temperature was below zero—mercury froze in open vessels; but the column of mercury in the tube of the thermometer did not cease to contract at the lowest temperature— $43^{\circ}6$ (below zero); and Dr. Kane in his arctic voyages mentions the fact that the mercurial column descended as low as -44° ; and Sir E. Belcher is said to have observed the mercurial thermometer as low as -46° . The mean temperature of Sunday the 9th, was $-27^{\circ}8$; and of Monday the 10th— $29^{\circ}0$; and of Tuesday— $28^{\circ}2$. The barometer attained at 10 p.m. on Sunday the 9th the unusual height of 30.614 inches, the mean velocity of the wind during the day which was from the E. N. E. was 8.89 miles per hour.

On the 10th the wind was from the S.W. by S., mean velocity 0.08 miles per hour. The Aurora Borealis was visible on the nights of Sunday, Monday and Tuesday, but not attended with any great display.

The cold term ended by a fall of snow which commenced at 9.45 p.m. on the 12th, and ceased at 6.10 a.m. on the 13th day, and amounted to 1.10 inches in depth.

This cold term was felt generally throughout Canada and the Eastern States, and seems to have travelled from the west, eastward. At Rochester the extreme cold was felt some hours earlier than at this place, which is $4^{\circ}15'$ west of this observatory, and 398 feet higher above the Sea-level, there— 10° below zero was the minimum temperature. At Brooklyn near New-York, it was -9° , and is the lowest temperature recorded there for the last 70 years. At Boston it reached -14° , at Toronto -38° , at Quebec $-40^{\circ}1$, at Huntingdon about 60 miles south of this place the mercurial thermometer indicated -44° , and mercury is said to have been frozen quite hard in 15 minutes when exposed in a saucer.

The *Ozonometer* indicated during the excessive cold but a moderate degree, varying from 3 to 5 of Schonbein's scale.

The electrical state of the atmosphere, indicated *positive* signs,