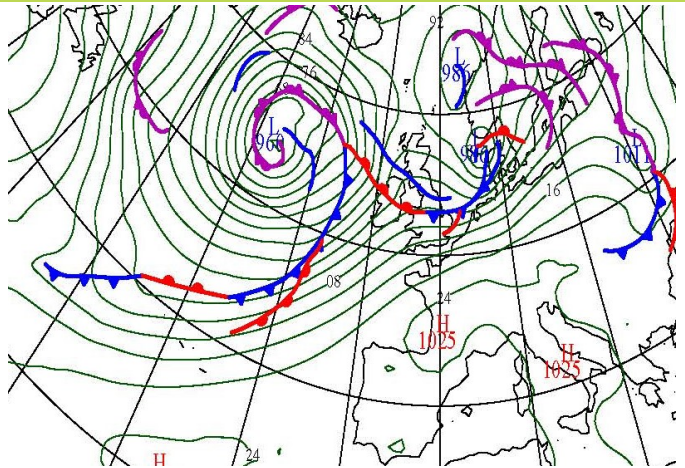


### Weather chart for 1200 UTC on 18 November 2009



### General summary

A warm, moist south-westerly airflow affected the UK between 18 and 19 November. This was associated with a very deep depression moving slowly north-eastwards between Scotland and Iceland.

A weather front associated with airflow brought exceptionally prolonged and heavy rainfall to the Lake District as the air was forced to rise over the high ground. Heavy rainfall persisted across northern England for around 36 hours.

High rainfall totals falling on already saturated ground caused many rivers in the Lake District to significantly exceed their previous maximum flows.

### Significant weather event

The highest rainfall was recorded at Seathwaite in Borrowdale which recorded 316.4mm in 24hrs. The high ground toward the lower end of Borrowdale received more than 400mm of rainfall in the 72hrs between 0900 on 17 and 0900 on 20 November.

The worst flooding impacts occurred in the valley of the River Derwent flowing through Borrowdale to the coast at Workington. There was widespread disruption across the area with many bridges damaged. In Workington a police officer died after the A596 Northside road bridge collapsed effectively cutting the town in half as the other bridge was also severely damaged. Cockermouth was also severely flooded with much of the town centre under 2 metres of water.

Table of rainfall, 17-20 November 2009

Station**	Amount (mm)	Amount (mm)	Amount (mm)	Amount (mm)	Amount (mm)
	0900 17th - 0900 18th (24 hours)	0900 18th - 0900 19th (24 hours)	0900 19th - 0900 20th (24 hours)	0900 18th - 0900 20th (48 hours)	0900 17th - 0900 20th (72 hours)
Seathwaite Farm	60.8	142.6	253.0	395.6	456.4
Honister Pass	73.4	151.8	229.2	381.0	454.4
High Snab Farm	63.0	110.2	228.2	338.4	401.4
Thirlmere, Nook	72.6	103.0	151.2	254.2	326.8
Mickleden, Middle Fell	57.0	106.6	145.6	252.2	309.2
Rydal Hall	49.5	105.5	148.1	253.6	303.1
Grasmere, Tanner Croft	54.0	85.2	155.5	240.7	294.7
Brotherswater	48.2	91.6	153.4	245.0	293.2
Dale Head	51.2	90.8	150.8	241.6	292.8
St Johns Beck	49.4	83.0	133.4	216.4	265.8

\*\*All rain gauges listed are in Cumbria. Data provided are courtesy of the Environment Agency.

Table of 24, 48 and 72hr rainfall totals at sites across the Lake District between 0900 17 and 0900 20 November 2009.

### Daily weather extremes 18 November - 19 November 2009

**Highest Maximum Temperature (19 November)**  
16.0°C at Nantwich, Reaseheath Hall (Cheshire)

**Most Rainfall (19 November)**  
253.0 mm at Seathwaite (Cumbria)

**Lowest Minimum Temperature (18 November)**  
-2.4°C at Aboyne No 2 (Aberdeeshire)

**Most Sunshine (19 November)**  
7.7 hours at Jersey: St Helier (Channel Islands)