After a mostly dry night, Northern Ireland and much of Scotland had a dry, bright and frosty day, though there were snow and hail showers in the extreme north of Scotland. It was very cold, with a very severe overnight frost. The temperature at Braemar, equalled the record, (also set in Braemar on 11 February 1895) for the lowest officially recorded temperature in Britain (-27.2 °C). Wales and much of England was dry and bright, though southern counties were cloudy, with rain, sleet or snow in South West England. It was bitterly cold with a keen easterly wind adding to the severity of the overnight frost, whilst in Shropshire, sheltered from the wind by hills to the east, the temperature fell to a new English record low of -26.1 °C at Newport.

The minimum temperature of -27.2 °C at Braemar, Aberdeenshire, equalled the previous lowest officially recorded temperature in Britain which was also set at Braemar on 11 February 1895. This temperature was equalled again at Altnaharra, Highland, on 30 December 1995.

Lowest temperatures in Scotland:
Braemar, Aberdeenshire -27.2 °C
Lagganlia, Inverness-shire -24.1 °C
Balmoral, Aberdeenshire -23.5 °C

Lowest temperatures in England:
Newport, Shropshire -26.1 °C
Shawbury, Shropshire -20.8 °C

Maps from the daily weather summary showing the minimum and maximum temperatures for 10th January 1982.