Meteorological Records 2007

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General The very successful LEAF Open Day in June gave members of the public the opportunity to visit SCRI's meteorological station to see how weather is observed and recorded. They were able to look at a range of weather measuring and recording instruments and talk to SCRI's climatological observers.

Temperature In 2007 all months showed average maximum temperatures higher than the Long Term Average (LTA), with the exceptions of June at 16°C (LTA 16.8°C) and July at 18.5°C (LTA 19.0°C). Most significant figures were observed in January at 9.0°C (LTA 5.9°C), the highest since 1989; and April at 15.3°C (LTA 10.9°C), the highest on our records. Highest maximum air temperatures recorded on individual days reached 21.8°C, 22.0°C and 24.2°C for July, August and September respectively; and 20.9°C in April.



Average minimum temperatures were also generally higher than typical, exceptions being July, August, September and December which were all slightly lower than their LTA. The total days per month with air temperature <0°C were all below the LTA except December, which had 18 (LTA of 10).

Although only June and July escaped, the number of days with frost was lower than LTA for most months.

Blue areas on figures indaicate long term average 1961-1990

Exceptions to this were May, December and in particular August (with 6 against the expected 1 – the highest on our records); and September (with 8 against the expected 3 – second highest).



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Sunshine and Solar Radiation Sunshine figures were fairly mixed with a total of 1428.1 hours, close to the LTA of 1411.6 hours. Notable were April with 194.4, 50





hours more than the LTA; and June, with 90.3, 80 hours less than the LTA (lowest since 1954).

Solar radiation values were not exceptional, although 8 months had higher than normal readings.

Rainfall As with 2006, rainfall was higher than normal, the annual total reaching 741.5mm as compared to the LTA of 664.5mm. Most notable being June and July with 104.6mm and 117.3mm respectively, both of which had more than double the expected rainfall. In contrast, April recorded 11.4mm, a quarter of the LTA of 44.6mm.

Wind On the whole, wind speeds were unremarkable. Exceptions being 9 recorded days of gale (mean wind speeds of 34 knots+): 4 in mid-January, 3 in mid-March, 1 in May and 1 in December.

Knowledge Exchange In December, the SCRI website weather pages went live. These consist of a general overview page and a data page. The overview page briefly explains the value of meteorological data, the use



it is put to by staff within and by bodies or individuals outwith SCRI, and the type of data available. This can be viewed at http://www.scri.ac.uk/knowledge/ weather. The weather data page contains a selection of weekly averages and totals for the most recent four weeks on a rolling basis and is updated weekly. It also provides monthly averages and totals for the current year, updated at the end of each month. This information can be accessed at http://www.scri.ac.uk/knowledge/ weather/data.

The weather data collected at SCRI is passed on to the UK Meteorological Office. It is also shared with the community via the local media. The Dundee Courier and Dundee Evening Telegraph publish a monthly summary of the weather statistics which is provided by SCRI's meteorological observers. We are also contacted by the media on a regular basis during extreme weather conditions to provide meteorological context. The weather station and its observers have also featured on local television news bulletins.