

Meteorology

Collecting policy

User profile

This collection statement covers provision for the Department of Meteorology in the School of Mathematics and Physical Sciences. The collections serve all staff and students in the department.

Research interests

In the Research Excellence Framework (REF) results for 2014, 86% of research was graded as world leading or internationally excellent.

There are three overlapping themes:

Weather, which includes research in mesoscale and dynamical processes, boundary-layer and urban meteorology, radar meteorology, cloud physics and African meteorology.

Climate, which includes research in climate variability and change, radiative transfer, aerosol-climate interactions, oceanography, atmospheric electricity, tropical climate, land-surface processes and stratospheric dynamics.

Earth observation and space, which includes research in high-resolution atmospheric data assimilation, data assimilation theory, space weather, land-surface remote sensing, cloud and precipitation remote sensing; and, remote sensing and modelling of volcanoes.

The department is still growing, with 15 new members of staff recently appointed as part of the University's Academic Investment Project.

Dimensions of Teaching and Learning

In 2014, Meteorology consisted of 59 undergraduate (BSc) students, 40 taught postgraduate (MSc) students and 87 doctoral (PhD) students. The last figure is a significant increase since 2012.

The department offers a range of Meteorology 3 and 4 year degrees and joint degrees, and from 2014 a degree in Environmental physics - see <http://www.met.reading.ac.uk/ug/> for more information. Some courses are offered with the option of a year out in industry.

There are four MSc courses: Atmosphere, ocean and climate; Applied meteorology; Data assimilation and inverse methods in geoscience; and Applied meteorology and climate with management (the management modules being provided by the Henley Business School at the University of Reading). Data assimilation and inverse methods in geoscience is offered jointly with the Mathematics Department.

Generally the departmental library does not duplicate periodicals held in the Library, but some are held where print holdings are longer term than the Library. There is an overlap of well-used books.

As the national, specialist library in the meteorological sciences, the Met Office Library can