

## Space Weather Monitoring for Space Weather Services

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### Abstract

This lecture will give an introduction to space weather services and underpinning monitoring requirements. Space Weather is a broad field, with comprehensive space and ground-based monitoring requiring measurements of widely varying phenomena taking place on a range of temporal and spatial scales.

Example end-user service requirements will be presented. Corresponding measurement requirements and necessary elements of a space weather monitoring service will then be discussed. An introduction to the trade-offs needed in system design analysis will be given.

The role of space agencies and international organisations in space weather data and service provision will be discussed. In particular, The European Space Agency's activities in the area will be presented including space weather developments planned within the scope of the new Space Situational Awareness Preparatory Programme.

**Date:** Wednesday 25 October 2010

**Time:** 14:00-17:00

**Room:** Informatics Laboratory @ Adriatico Guest House

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Currently a senior consultant in space weather and member of the European Space Agency's Space Situational Awareness programme team located at ESA/ESAC. Received a PhD in Solar Physics from Mullard Space Science Laboratory in the UK, following the completion of which spent 9 years as a member of the Space Environments and Effects Section at ESA/ESTEC working on space weather related studies including prototype service development and studies to investigate the possible structure and elements of a European Space Weather programme. Currently active in several European and international Space Weather forums including chairing the COSPAR Panel on Space Weather.