SCHOOL ON SPACE WEATHER

RABAT / MAROC [December 5-16, 2011]

Organized by the French ISWI national committee CRASTE – EMI – MENESFCRS



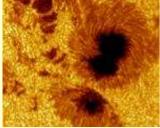




Moroccan Kingdom Ministry of National Education of High Level Teaching For Scientific Research Teachers Direction for Technology

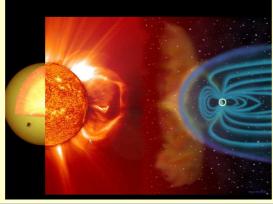






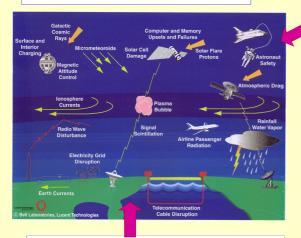


the surface of the Sun



The Sun is the source of many physical processes (radiations, winds, mass ejections, energetic particles) that may affect the terrestrial environment





The community of users of space weather products (from Bell Laboratories Lucent Technologies)

Context of the school

International Space Weather Initiative (ISWI) 2010-2012

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Objectives

-To learn about the solar processes

influencing the terrestrial environment

- To learn how to use data obtained with the network of instruments in Africa

Program

Lectures and practical work

First week

Solar Physics:
Solar radiation and its
variability
Solar cycle and activity
Solar flares, Coronal mass
ejection and solar energetic
particles
Solar wind and its
perturbations
Magnetosphere
and Ionosphere of the Earth
Solar-terrestrial Physics and
Space Weather



Northern Lights



Instruments deployed in Africa in the context of the International Heliophysical Year IHY (2007-2009)

Program

Lectures and practical work

Second week

Upper Atmosphere
Ionospheric electric currents
Earth's magnetic field
Atmospheric electricity
Precipitation Systems
Chemistry and Transport in the
atmosphere

Sounding of the earth'atmosphere by microwave radio instruments