

#### Content

- ESA's space weather activities
- Space Weather Applications Initiative: some background
- The pilot project
- Coordination with other entities.

# Pilot Project Structure The pilot project will focus on developing a network of service development activities (SDAs) for space weather applications with close links to users.

SDAs will team users and service providers. Users will play a key role in the SDAs, defining the service goals and participating in the final evaluation.

Finally, an independent benefit assessment will be carried out in order to establish the nomic and other benefits of the services





## **SDA** Activities

• Quickmaps and History of the Effects of Ionospheric Scintillations on GPS/GLONASS Signals, CLS (France).

Daily Ionospheric Forecasting Service, BAe Systems (UK).

Geomagnetic Indices Forecasting and Ionospheric Nowcasting Tools IFSI (Italy).

Space Weather Impact on Precise Positioning Applications of GNSS, DLR (Germany).







### SDAs..

Space Weather Operational Airline Risks Service (SOARS) MSSL-UCL (UK)



Geosynchronous Environment for Identification of Satellite Anomalies (GEISHA), ONERA (France)



A Pilot Space Weather Service Employing the Spacecraft Hazard and Anomaly Forecasting Tool (SHAFT), QinetiQ (UK)

Solar Influences Data Centre SIDC, Royal Observatory Belgium

#### Pilot project status

- - SDA activities began on *I<sup>a</sup>April 2003*. User requirements currently being established in each case First joint progress meetings taking place June-September

SDA activities will not cover all aspects of space weather services Independently funded activities are being encouraged to join the SWENET network following signature of a coordination agreement.

- SWENET Network Support contract. ITT due for issue in mid -

#### Independently Funded Activities

Service Activities not funded by ESA but willing to participate in the network on a non-exchange of funding basis.

- Currently 6 groups have agreed to participate on this basis: rrently to groups have agreed to pairing Trieste Radio Observatory CLS Solar Activity Prediction IRF-Lund SAAPS Service for Prediction of Spacecraft Anomalies CLRC RAL ionospheric services for Communication Users Natural Resources Canada GIC Service for Pipeline Operators International Service for Geomagnetic Indices

- Other activities strongly encouraged to join Participation through signature of collaboration agreement with ESA
- Network members benefit from increased visibility of service and support of SWENET network contractor

