

Workshop on Ionospheric Forecasting for GNSS Operations in Developing Countries: Findings and Challenges



27 - 31 May 2019
Trieste, Italy

Further information:
Activity URL: <http://indico.ictp.it/event/8686/smr3296@ictp.it>

The workshop will give an introduction to Global Navigation Satellite Systems (GNSS) operations and the impact of the ionosphere on them. It will concentrate on forecasting ionosphere conditions with focus on Total Electron Content. Its relevance for developing countries will be highlighted.

Ionosphere weather forecasts, that depend strongly on the ability to forecast Space Weather events that reach the Earth, are increasingly needed for radiocommunications, satellite navigation and positioning operations. This is becoming as relevant as it is weather forecast in meteorology. The state of the art in forecasting ionosphere conditions is far behind the level of accuracy reached by weather forecasts in the troposphere. Part of this limit is that the coupling of the ionosphere with the lower regions of the atmosphere is not adequately known, particularly in low latitudes where most of the developing countries are located.

Topics:

- Introduction to GNSS operations
- Ionospheric impact on GNSS operation
- Ionospheric weather: coupling of the ionosphere from above and below
- Ionosphere forecast: findings and challenges
- Computer Laboratory Work (data analysis of different ionosphere scenarios)

How to apply:

Online application:
<http://indico.ictp.it/event/8686/>

Female students and scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Directors:

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Local Organizer:

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Deadline:

1 February 2019



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