Eastern Africa GNSS and Space Weather Capacity Building Workshop

Advanced School/Workshop

21 - 25 June 2021
An ICTP Virtual Meeting
Kilifi, Kenya (GMT +3)

Further information:
http://indico.ictp.it/event/9621/
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This Workshop will give the participants an in-depth view of Space Weather, including its main effects on Global Navigation Satellite Systems (GNSS) and related scientific and technological applications. Focus will be on Space Weather research and capacity building in the Eastern African Countries.

Description:

Space Weather is a term generally used to indicate "the conditions on the Sun and in the solar wind, magnetosphere, ionosphere, and thermosphere that can influence the performance and reliability of space-borne and ground-based technological systems and can endanger human life or health".
In particular, Space Weather is the cause of the most significant errors experienced by GNSS and their users since through its effects on the ionosphere, it represents the largest error contribution in the GNSS single-frequency positioning applications. The effects of space weather are more variable and highly unpredictable over the low latitude ionospheric regions, where most of the sub-Saharan Developing Countries are located and where still limited efforts have been made to study the impact of Space Weather events on technological systems.

Topics:

- Global Navigation Satellite Systems generalities
- Space Weather and Sun-Earth coupling
- Ionospheric monitoring and modelling
- Ionospheric irregularities
- Space weather services and programmes

How to apply:

Online application:
http://indico.ictp.it/event/9621/

Female scientists are encouraged to apply.

Registration:

There is no registration fee.

Directors:

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P. Doherty, Boston College
S. Gadimova, UNOOSA-ICG
B. Nava, ICTP
J.C. Olwendo, Pwani University

Local Organizer:

J.O. Olwendo, Pwani University, Kenya

Speakers:

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C. Amory-Mazaudie, LPP-CNRS, France
P. Baki, Technical University Kenya
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Deadline:

21 May 2021

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