

# International Colloquium on Equatorial and Low-Latitude Ionosphere

September 15 – 17, 2020

<https://carnasrda.com/icelli/>

Exclusively Online

## Final Announcement

The 2020 edition of the colloquium shall hold online in line with the precautionary measures associated with the prevailing COVID-19 pandemic. Therefore, interested participants are encouraged to go through this announcement and respond as appropriate.

## Preamble

Gaining better understanding of the dynamics of the equatorial and low latitude ionosphere has become an object of global concern more than ever. Equatorial region, also known as the low latitude region refers to the region within  $\pm 20^\circ$  on either side of the geomagnetic equator. The region is characterized with much complexities and high level of dynamics which result in phenomena such as spread F, ionospheric anomaly, equatorial electrojet, equatorial plasma fountain, etc. The impact of such phenomena on telecommunications, navigation, satellite operations, and other space-based technologies has made the region a point of international collaborative focus in scientific research. The past decades have witnessed deployment of observational facilities to equatorial region of the world courtesy of international communities coordinated by United Nations under the International Heliophysical Year IHY and more recently International Space Weather Initiative ISWI. In addition, there are several experimental satellites with focus on equatorial space environment.

### *Main features*

The first annual 'Colloquium on Equatorial and Low Latitude Ionosphere' took place between 9<sup>th</sup> and 13<sup>th</sup> September 2019 at the University of Lagos, Nigeria. This second edition shall build on the success of the first edition and shall feature a composition of tutorials, seminars, conference and hands on training on every aspect of research and techniques bordering on the dynamics of equatorial and low latitude ionosphere as well as space weather.

The program of the Colloquium includes discussions of the rather wide range of phenomena, such as: equatorial ionosphere, equatorial electrojet, equatorial ionospheric anomaly, geomagnetic disturbances, geomagnetically induced currents, solar-terrestrial relations, stratospheric warming, space weather, theory and modeling of ionospheric scintillation and irregularities, utilization of equatorial orbital plane for satellite technology, presentation of results from different and novel techniques for probing the equatorial ionosphere etc.

This Colloquium shall offer opportunities for presentation of standard contributions (oral and poster), delivery of invited papers by distinguished scientists with the intention of educating young scientists, as well as exhibition of space-dependent technologies and measurement systems relevant to ionospheric studies. The forum shall serve as an effective meeting point for scientists, policy makers, students and designers of space-dependent technologies.

---

***Working language***

The working language of the Colloquium is English.

***Timelines***

Registration and abstract submission will close on August 15, 2020.

Acceptance notification: August 25, 2020.

Invitation: September 5, 2020

***Publication of presented papers***

Provision shall be made to publish papers presented at the Colloquium in peer-reviewed reputable journals with international acceptance. The publications shall thereafter be made available both in print and online.

**Organised by**

Centre for Atmospheric Research and Network of Space-Earth Environmentalists

**General questions: please contact us at:** [icelli@carnasrda.com](mailto:icelli@carnasrda.com)

**Endorsed by**

International Space Weather Initiative

Scientific Committee on Solar-Terrestrial Physics SCOSTEP

African Geophysical Society

**Application Form:** <https://carnasrda.com/icelli/>

**NOTE**

**THIS ANNOUNCEMENT WAS SUBMITTED TO THE *ISWI NEWSLETTER***

**ON 01 AUGUST 2020 BY PROF. RABIU OF NIGERIA**

**FOR GENERAL DISTRIBUTION.**