



Nigeria: Brief report on ISWI related activities

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INTERNATIONAL COLLOQUIUM ON EQUATORIAL AND LOW LATITUDE IONOSPHERE

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



Centre for Atmospheric Research



Bowen University, Iwo, Nigeria

ISEE

Institute for Space-Earth Environmental Research



VIRGINIA TECH.



AGS

Co-organised by:

Centre for Atmospheric Research, National Space Research and Development Agency, Anyigba, Nigeria

Bowen University, Iwo, Nigeria

Institute of Space-Earth Environmental Research ISEE, Nagoya University, Japan

Virginia Tech VT, USA

African Geophysical Society AGS

Network of Space -Earth Environmentalists NSEE

**Bowen University, Iwo,
Nigeria & ONLINE
SEPTEMBER 13 – 16, 2021**

Annual event since 2019

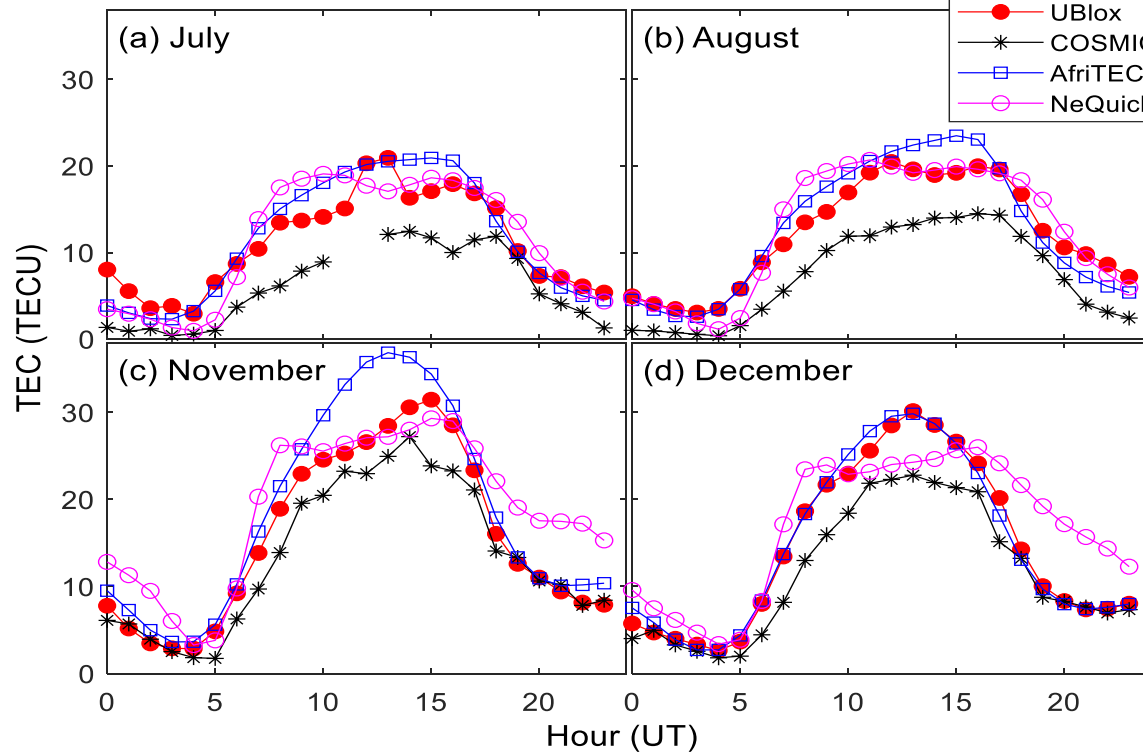
- 35 physical participants
- ~ 45 online participants from 12 countries

12 – 16 September 2022

Babatunde Bablu ISWI Report 2022

<https://carnasrda.com>

CAR GNSS Initiative 'CARGI'



Advances in Space Research

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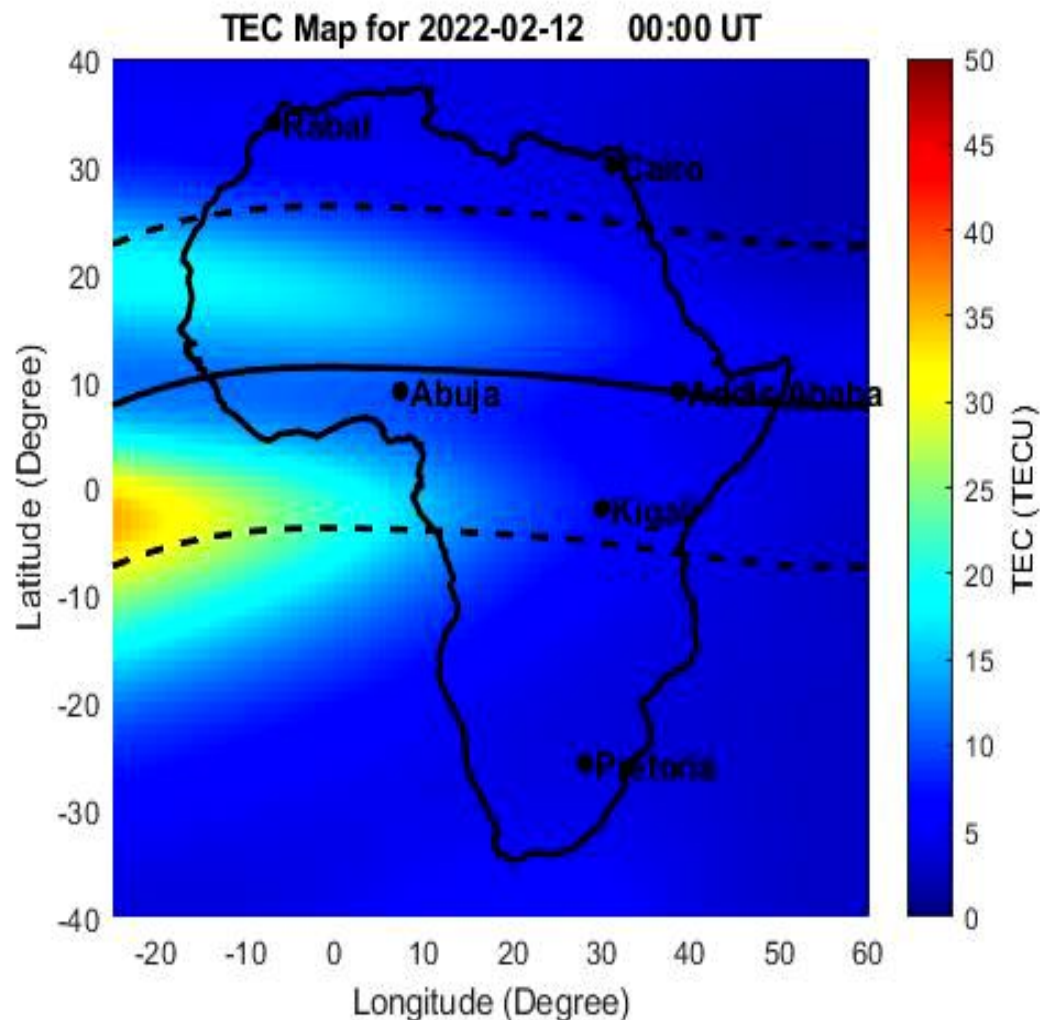
2 more stations
acquired, configured
& ready for
deployment

New results of ionospheric total electron content measurements from a low-cost global navigation satellite system receiver and comparisons with other data sources



The African GNSS TEC (AfriTEC) Model

- a model of the ionospheric GNSS TEC over the entire African region
- used to obtain the ionospheric GNSS TEC at all locations over the African continent.
- The model is developed by the method of artificial neural networks.



http://carnasrda.com/tec_models/



University Support Program (USP) & SCOSTEP Visiting Scholar (SVS) Program

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



Kebbi State Univ



George, Kenya SCOSTEP SVS



OAU, Ile-Ife

Addis Ababa Univ, Ethiopia



Univ of Ilorin



OAU, Ile-Ife

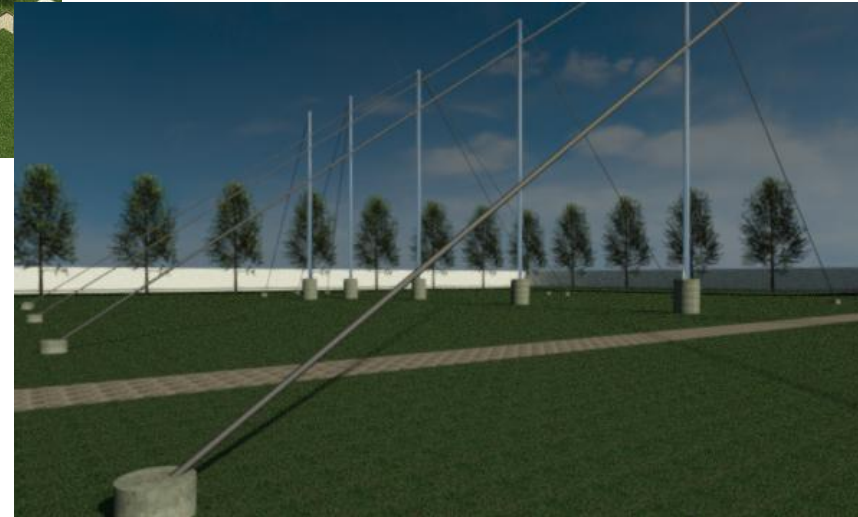
<https://scostep.org/svs/>



Nigerian Bowen Equatorial Aeronomy RADAR NigerBEAR



Equivalent of SuperDARN
in low latitude



- Bowen University, Iwo, Nigeria
- 1st of its kind in low latitudes
- enhancement of research capability
- new science results that could improve our understanding of the equatorial ionosphere and space weather
- multi-technique approach to study the ionosphere