

# Radio aeronomy in Nigeria: First results from very low frequency (VLF) radio waves receiving station at Anchor University, Lagos

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**Abstract**—The study of the Earth's atmosphere and the space environment is important because of the role played by the medium in the activities that affect the Earth and its inhabitants directly or indirectly. A robust capability to monitor, model and predict the happenings in the atmospheric space through deployment of both space- and ground-based observational systems for data acquisition, is key to result-oriented scientific research in atmospheric and space sciences. In this paper, we highlight the importance of regional deployment of observational facilities for data acquisition to complement current observational tools. We briefly review the capabilities of very low frequency (VLF) radio waves (in monitoring and studying changes in the atmosphere and ionosphere), and also present data obtained from our newly deployed VLF radio waves receiver at Anchor University, Lagos (AUL). We show that the diurnal signature characterised by VLF radio signal reflected in the data of three of four propagation paths (AUL-HWU, AUL-JIL, AUL-NWC and AUL-VIN) received at AUL. This outcome shows that operational condition of the VLF radio wave receiver is good. We anticipate interesting findings as we exploit this institution-based dataset to probe ionospheric irregularities in our region for the first time. In the light of some identified ionospheric changes in the equatorial region, we anticipate that our research effort using this regional VLF dataset will yield new results that will be resourceful for better understanding and characterisation of the dynamics of the equatorial D-layer ionosphere, since our region of reception (Lagos) lies close to the equator.

**Keywords**—Atmospheric changes, VLF Radio waves, propagation characteristics, AUL-Space-APRAMP laboratory

## 1. INTRODUCTION (HEADING 1)

The Encyclopaedia of Space and Astronomy defined the Earth's atmosphere as life-sustaining gaseous envelope surrounding Earth [1]. The Earth atmosphere can mainly be described based on its variation in temperature (with height), pressure, density and composition [2,3]. The regions of the atmosphere are recognised as 'spheres' and the boundaries between them as 'pauses'. Thus the atmosphere is composed of the troposphere (extends upward to about 10 km), stratosphere (from the tropopause to about 50 km), mesosphere (from the mesosphere to a height of about 85 km) and the thermosphere in which the ionosphere is embedded (about 85-700 km). The respective boundaries between them are the tropopause, stratopause, mesopause and thermopause. In general terms, the space can be defined as the volume in which all celestial bodies (including the Earth) move, but specifically defined as the part of the universe lying outside the limits of the Earth's atmosphere [1]. The outer space is usually considered to begin at between 100 and 200 km altitude, based on informal international agreement. The region that goes from the solar photosphere to the mesosphere of the Earth is recognised as the geospace or solar-terrestrial environment [4,5]. The geospace includes the upper terrestrial atmosphere, the

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