

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

Victor Uchenna. J. Nwanlowo  
Space-APRAMP Laboratory,  
Department of Physics  
Anchor University  
Lagos, Nigeria  
vunwanlowo@aul.edu.ng

William Demig  
St. Joseph College of Marine,  
Standish, ME 04084, USA  
wdemig@sjcme.edu.net

Muyiwa Adesoyinja  
Space-APRAMP Laboratory,  
Department of Physics  
Anchor University  
Lagos, Nigeria  
muyibosor97@gmail.com

Michael Olanseji  
Department of Physics,  
University of Medical Sciences,  
Ondo, Nigeria  
olansejemi@yaho.com

Muritala A. Ayoola  
Space-APRAMP Laboratory,  
Department of Physics  
Anchor University  
Lagos, Nigeria  
muyola40@yaho.com

Sandip K. Chakrabarti  
Indian Centre for Space Physics,  
Kolkata 700084, India  
sandipchakrabarti9@gmail.com

Muyiwa P. Ajakaye  
Space-APRAMP Laboratory,  
Department of Physics  
Anchor University  
Lagos, Nigeria  
mujakaye@aul.edu.ng

Paul Anselwo  
Department of Mathematical Sciences,  
Anchor University,  
Lagos, Nigeria  
iruzanekwo@gmail.com

Debashis Bhattachick  
Indian Centre for Space Physics,  
Kolkata 700084, India  
debasishbattachick@gmail.com

Olarewaju O. Sonoye  
Space-APRAMP Laboratory,  
Department of Physics  
Anchor University  
Lagos, Nigeria  
olarewaju.sonoye@gmail.com

Sudipta Sasmal  
Indian Centre for Space Physics,  
Kolkata 700084, India  
sasmal2024@gmail.com

Timothy Akinsola  
Space-APRAMP Laboratory,  
Department of Physics  
Anchor University  
Lagos, Nigeria  
takinsola@aul.edu.ng

Kenneth Ilawore  
Space-APRAMP Laboratory,  
Department of Physics  
Anchor University  
Lagos, Nigeria  
kilaore@aul.edu.ng

Johnson Fatokun  
Department of Mathematical Sciences,  
Anchor University,  
Lagos, Nigeria  
jfatokun@aul.edu.ng

Joel Ajamu  
Department of Mathematical Sciences,  
Anchor University,  
Lagos, Nigeria  
jajamu@aul.edu.ng

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## 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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