IAF EARTH OBSERVATION SYMPOSIUM (B1)
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INNOVATIVE WEB PLATFORM FOR REAL-TIME ANALYSIS AND DISSEMINATION OF GOES-16 SATELLITE DATA: ADVANCES IN EARTH OBSERVATION SYSTEMS AND TECHNOLOGY

Abstract

This project, presented by the National University of Engineering through its Information Technology Office, focuses on the development of an innovative web page dedicated to the analysis and dissemination of climatic data obtained from the GOES-16 satellite. The platform provides an accessible and real-time tool for the visualization and analysis of meteorological data, with a special emphasis on Peruvian territory.

The web page is characterized by its ability to offer updated climate information, including data on atmospheric conditions at the national, departmental, and provincial levels. One of the key functionalities of this platform is its ability to allow users to access historical data, thus enabling the consultation of climatic information for specific dates. In addition, the platform facilitates the download of these data, which is especially valuable for students and researchers interested in studying and analyzing the climate in Peru.

Another important feature of the web is the inclusion of a statistical information module. This module processes and presents GOES-16 data in accessible and understandable formats, enriching the user experience and supporting climatological and meteorological research.

The web page is not only presented as a tool for information and analysis but also as a means of prevention and awareness about climatic phenomena. By providing accurate and up-to-date data, the

platform plays a crucial role in planning mitigation strategies and responses to potential adverse climatic events.

In summary, this initiative by the National University of Engineering represents a significant advancement in the field of meteorology and climatology in Peru, offering a valuable tool for education, research, and informed decision-making in relation to current climatic and environmental challenges.