

A web-based interactive application for the LISN database

Juan C. Espinoza¹ and C. Valladares²

¹ LISN Engineering, Jicamarca Radio Observatorio, , Lima, PERU.
(E-mail: juan.espinoza@jro.igp.gob.pe)

² Institute for Scientific Research, Boston College, 140 Commonwealth Avenue, Chesnut Hill, MA, USA.
(E-mail: cesar.valladares@bc.edu)

ABSTRACT

Low-Latitude Ionospheric Sensor Network (LISN) is an international project that monitors the low, middle and high atmosphere in the equatorial region with the purpose of studying and forecasting the ionospheric phenomena. The LISN network have been collecting data from GPS Receivers, Ionosondes and Magnetometers since 2008. The aim of the web application is to provide and distribute LISN ionospheric data products such a Total Electron Content (TEC) maps, TEC depletions maps, scintillation data among others to the community.

The application have been developed using open source software and will allow users to:

- Check data availability.
- Download data.
- Generate custom plots and maps given: data type, date, time, latitude and longitude.

In this poster, the features and capabilities of the application will be presented.

Key words: GPS, Database, Total Electron Content, Scintillation.