



## NEWS ON INSTALLATION OF GSV4004B GPS IONOSPHERIC SCINTILLATION & TEC MONITOR (GISTM) AT LANGKAWI NATIONAL OBSERVATORY, MALAYSIA

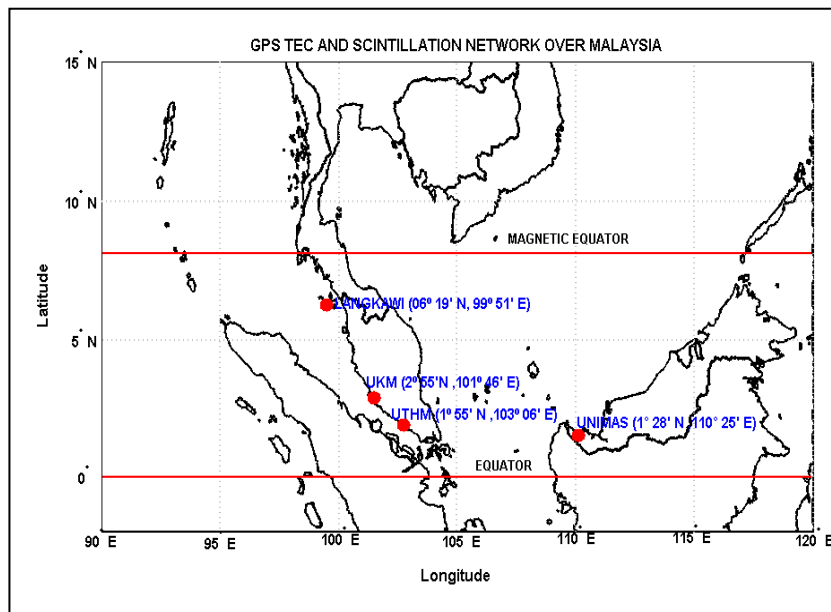
National Space Agency (ANGKASA) and Institute of Space Science, The National University of Malaysia (UKM) has cooperated in a project on ionospheric scintillation & TEC monitoring. A unit of GISTM have been installed at LNO ( $06^{\circ} 19' \text{ n}$ ,  $99^{\circ} 51' \text{ E}$ ) to monitor the TEC and scintillation over Langkawi Island on 14<sup>th</sup> June 2010.

This project was lead by Associate Prof. Dr. Ir. Mardina Abdullah from UKM. At this stage 4 GISTM have been installed all over Malaysia. The main objectives of this project are to measure and monitor ionospheric TEC and scintillation over Malaysia and develop warning or mitigation mechanisms that would provide GPS users with meaningful estimates of positioning accuracy and systems performance. GISTM network can be used to analyze the ionospheric disturbance all over Malaysia.

The network GISTM will cover ionosphere low latitude in Malaysia region. Ionospheric time series data will be used to study the characteristics of ionosphere and therefore prediction model can be made.

Knowledge of the state of the upper atmosphere, in particular of ionospheric part, is very important in several applications affected by space weather.

In future, there will be more GISTM planned to be installed.



GISTM Network plan to be installed in Malaysia



GISTM installed in Langkawi National Observatory on June 2010