


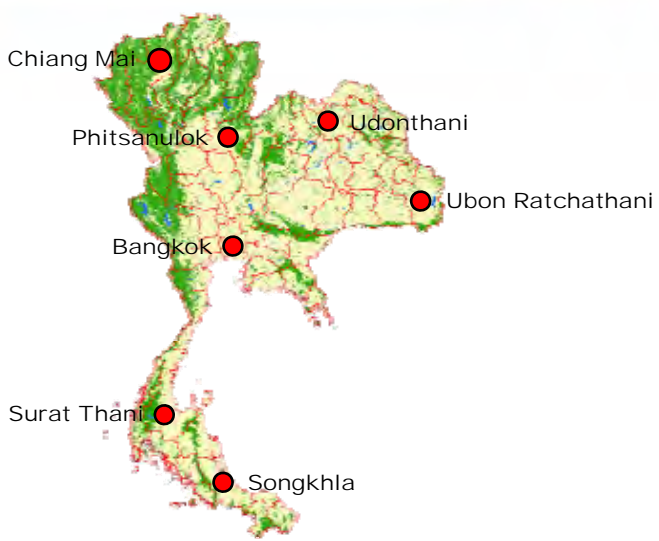


Ionospheric Data Collection in Thailand

Aeronautical Radio of Thailand



Ionospheric Monitoring Station

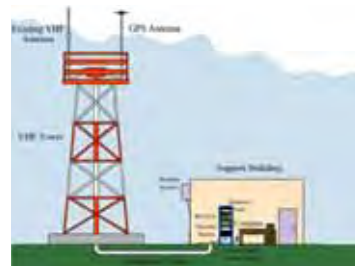



Chiang Mai ●
Phitsanulok ● Udonthani ●
Bangkok ● Ubon Ratchathani ●
Surat Thani ●
Songkhla ●

Ionospheric Monitoring Station



- Since 2009, Installed 2 station for Hat Yai and Surat Thani airport
- In 2010, Installed 1 station for Suvarnabuhmi airport
- Increased to 7 station in 2012
- Dual-frequency GPS receiver
- Data logging rate – 1 Hz



Enclosure	Description	Accuracy	Size (mm)	Ports
 ProPak-V3™	Triple frequency measurement and positioning receiver in a durable metal enclosure. Upgradeable to SPAN.	Single Point L1 1.5m Single Point L1/L2 1.2m SBAS 0.6m CDGPS 0.6m DGP: 0.4m	185 x 160 x 71	1 RS-232 or RS-422 serial port capable of 921,600 bps 1 RS-232 or RS-422 serial port capable of 230,400 bps 1 RS-232 serial port capable of 230,400 bps 1 USB 1.1 port capable of 5 Mbps
		RT-20 < 20cm; RT-2 1cm+1ppm OmniSTAR: VBS 0.6m; XP 0.15m; HP 0.1m;		

Data Collection



providing-

- pseudo-range measurement
- carrier-phase measurement
- carrier doppler frequency
- carrier to noise density ratio
- lock time
- number of satellites
- elevation angle
- azimuth angle
- dilution of precision (DOP)
- Position (lat, lon, hgt)



Thank you for your attention.

Aeronautical Radio of Thailand