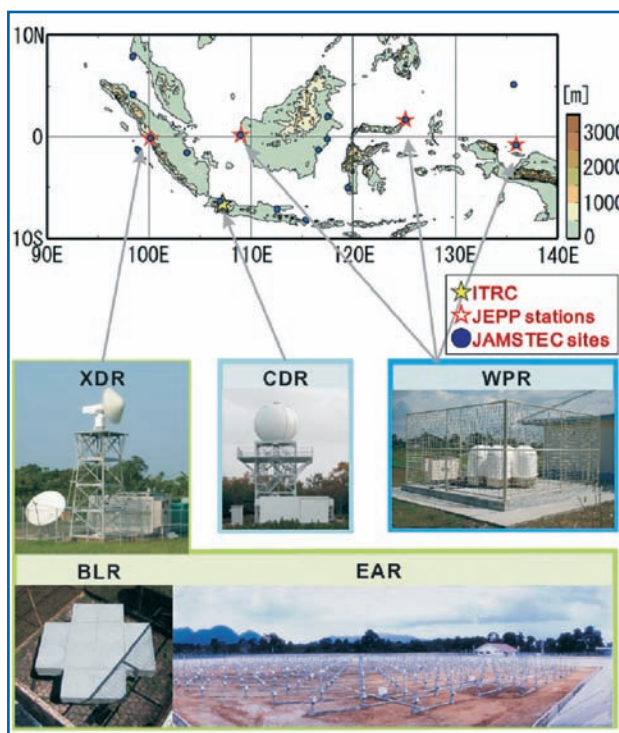


Japan Earth Observation System Promotion Program (JEPP) “Hydrometeorological ARray for ISV-Monsoon AUtomonitoring (HARIMAU)”

Description

- Radars and wind-profilers are installed in the Indonesian maritime continent (IMC).
- Data are opened on the internet in real time.
- IMC-excited global climate variations such as El Nino are watched.
- HARIMAU has large potential abilities to prevent hydrometeorological/climatological disasters such as flood not only in IMC but also all over the world.



Distribution of radars and profilers planned by the HARIMAU in addition to preinstalled Japanese equipment they have been operated in collaboration with Indonesian institutions. EAR and BLR are VHF Equatorial Atmosphere Radar and Boundary Layer Radar (UHF), respectively, have been operated in Kototabang, west Sumatera. ITRC shows International Tropical Research Center planned to be established in Jakarta.

Added Value

- GEO's recommendations to promote HARIMAU must establish strong and eternal collaborations among hydrometeorological agencies of ASEAN countries and among international organizations promoting/ planning observational projects in/around IMC.

Relevance to GEO

- It contributes to the following tasks in GEO 2007-2009 Work Plan:
 - CL-06-03: Key Terrestrial Observations for Climate
 - WA-06-05: In-situ Water Cycle Monitoring
 - WE-06-01: Surface-based Global Observing System for Weather
- The rainfall and wind data provided by HARIMAU contribute to three social benefit areas: climate, water and weather, mentioned in 4.1.4–4.4.6 of the GEO 10-Year Implementation Plan.
- These data are opened freely just as emphasized in 5.1–5.4 of this Plan.
- HARIMAU will improve directly capacity building in remote sounding techniques, disaster informatics and natural science research, as in 5.5–5.7 of the Plan, over ASEAN countries which continue observations after HARIMAU.

Participants

Collaborating countries:

- Japan
- Indonesia
- Thailand
- Vietnam
- Myanmar

Related countries:

- Singapore
- Malaysia
- Philippine
- China
- Australia
- India
- USA
- Germany

Related international bodies and projects:

- WMO
- ICSU
- WCRP (GEWEX/MAHASRI),
- IGBP

Current Status and Next Steps

- Three major radar/profiler stations have been installed in FY2006 and have started data release.
- Installation of two more radar/profiler stations will be completed until the middle of 2008.
- Because a JEPP project has a five year period until FY2009, a strong request from GEO is needed for HARIMAU to cover the whole ten year period of GEOSS.
- Throughout this next five-year period (FY2010-14) all the observational network and techniques will be shared with ASEAN countries and they will be able to continue HARIMAU by themselves after the GEOSS period.