

Draft GEO Report on Progress - Annex

Cape Town, 30 November 2007

**Table 1. Example Early Achievements by GEO Societal Benefit Area**

**Disasters: Reducing Loss of Life and Property from Natural and Human and Induced Disasters**

- Global Wildland Fire Early Warning System
- Sentinel-Asia
- Standards-based All-Hazards All-Media Public Warning
- [REDACTED]
- Dust and sand storm Saharan monitor

**Health: Understanding Environmental Factors Affecting Human Health and Well-Being**

- Meningitis Warning System in Africa
- Dust and sand storm Saharan monitor

**Energy: Improving Management of Energy Resources**

- Solar Data for Developing Countries

**Climate: Understanding, Assessing, Predicting, Mitigating and Adapting to Climate Variability and Change**

- TIGGE
- Seamless Weather/Climate Prediction System
- ClimDevAfrica Initiative

**Water: Improving Water Resource Management through Better Understanding of the Water Cycle**

- Asian Water Cycle
- North American Drought Monitor

**Weather: Improving Weather Information Forecasting and Warning**

- Beijing Olympics

**Ecosystems: Improving the Management and Protection of Terrestrial, Costal and Marine Ecosystems**

- Evaluating African Protected Areas
- SERVIR
- SIGEO

**Supporting Sustainable Agriculture and Combating Desertification**

- SIGEO
- North American Drought Monitor

**Biodiversity: Understanding, Monitoring and Conserving Biodiversity**

- Biodiversity Observation Network
- Census of Marine Life



16	<p>[REDACTED]</p> <p>It is an observation system made of Rain Radars and windprofilers installed in the Indonesian maritime continent (IMC), to observe IMC-excited global climate variations such as El Nino, with a large potential to prevent hydro meteorological / climatological disasters such as flood not only in IMC but also all over the world            Data are openly available on the internet in real time.            Collaborating countries are: Japan, Indonesia, Thailand, Vietnam, Myanmar</p>	Three major stations installed and data available.
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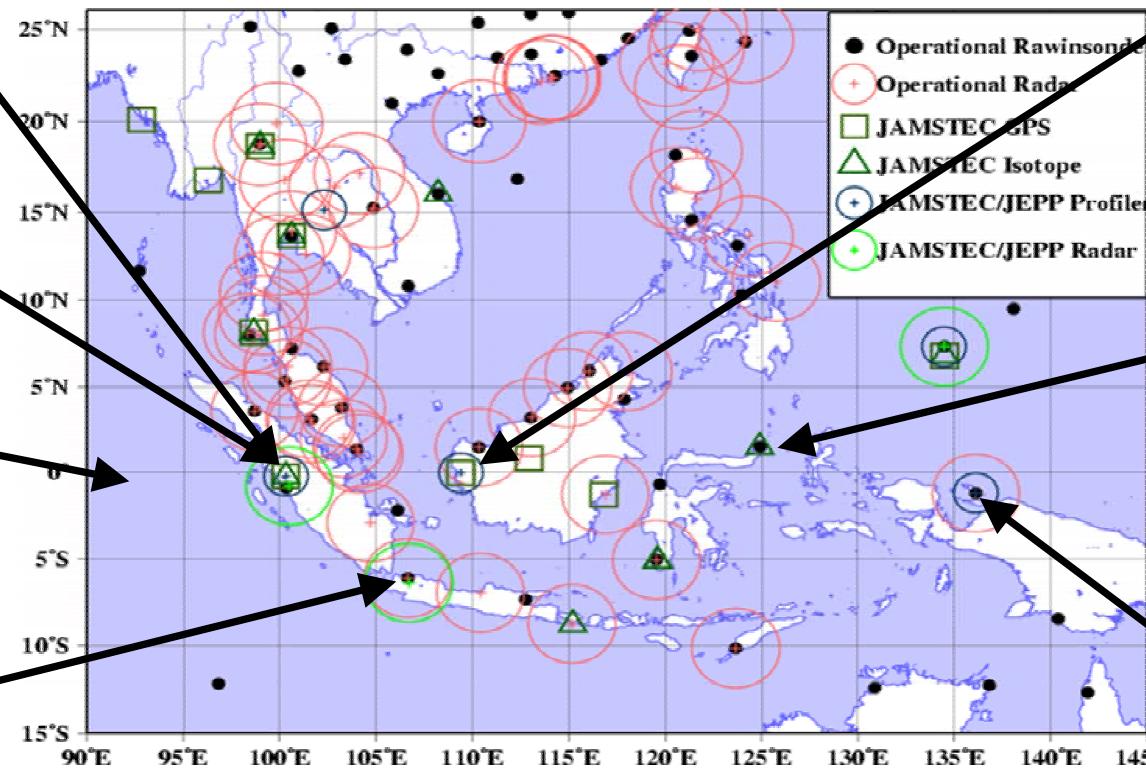
Bali (September, 2007)

# Hydrometeorological Array for ISV-Monsoon Automonitoring (HARIMAU)

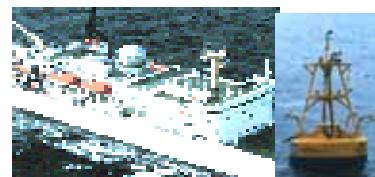


<http://www.jamstec.go.jp/iorgc/harimau/HARIMAU.html>

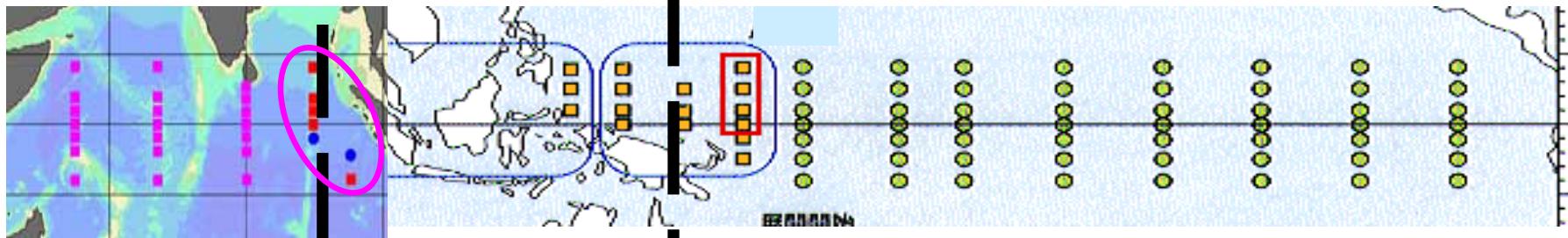
mdy@jamstec.go.jp



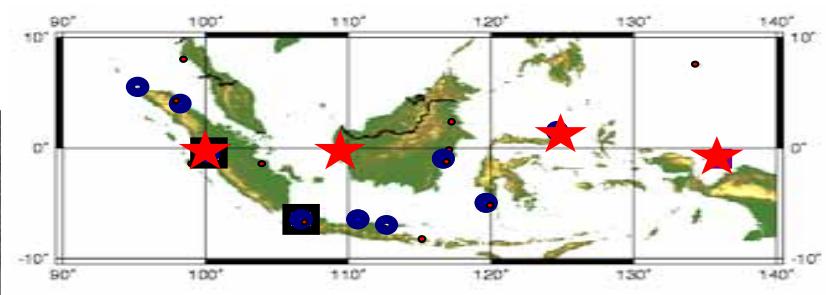
90°E 95°E 100°E 105°E 110°E 115°E 120°E 125°E 130°E 135°E 140°E 145°E



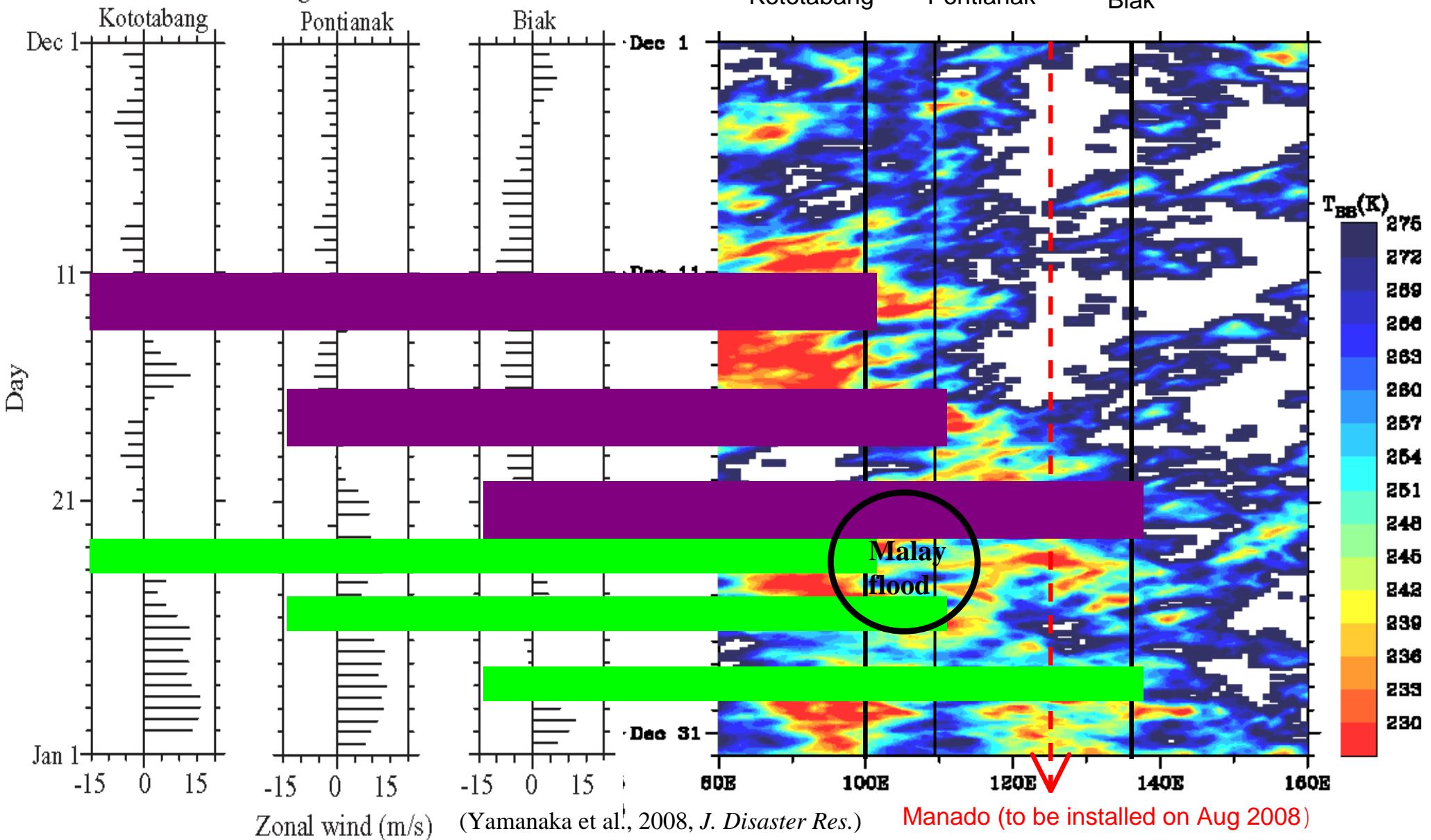
2008



# ISVs by WPR network

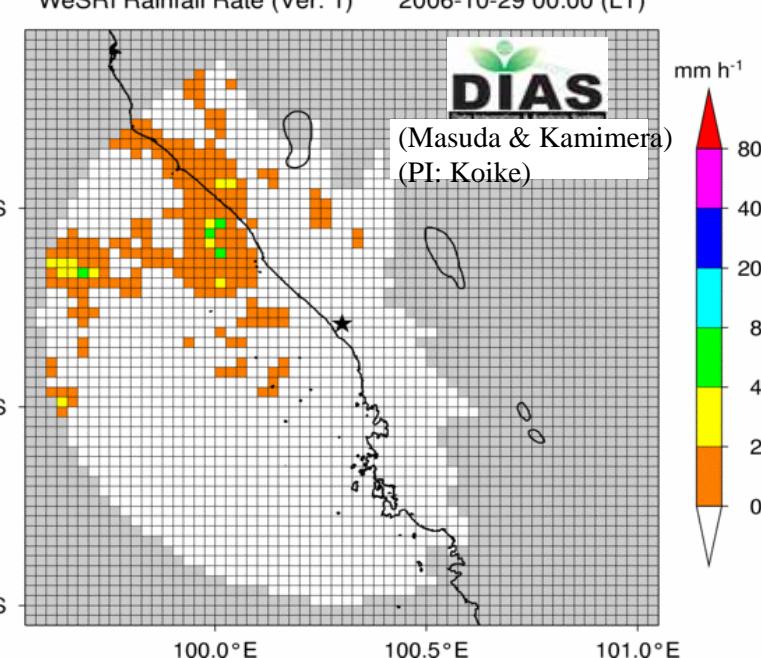
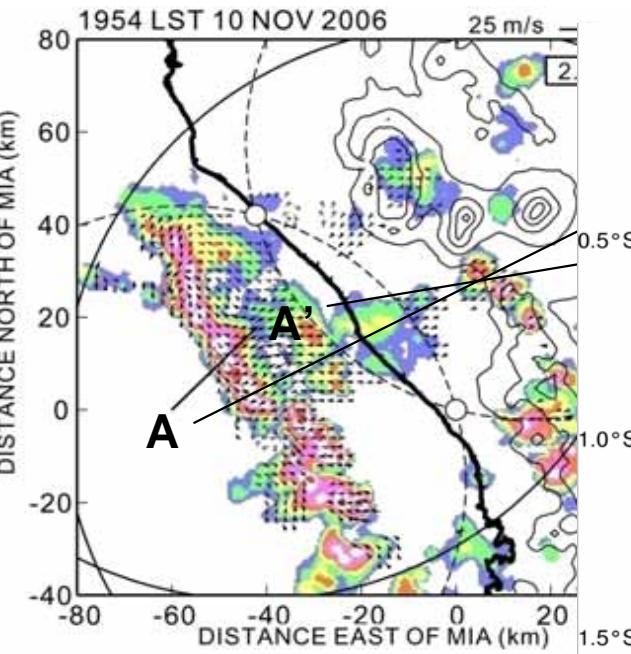
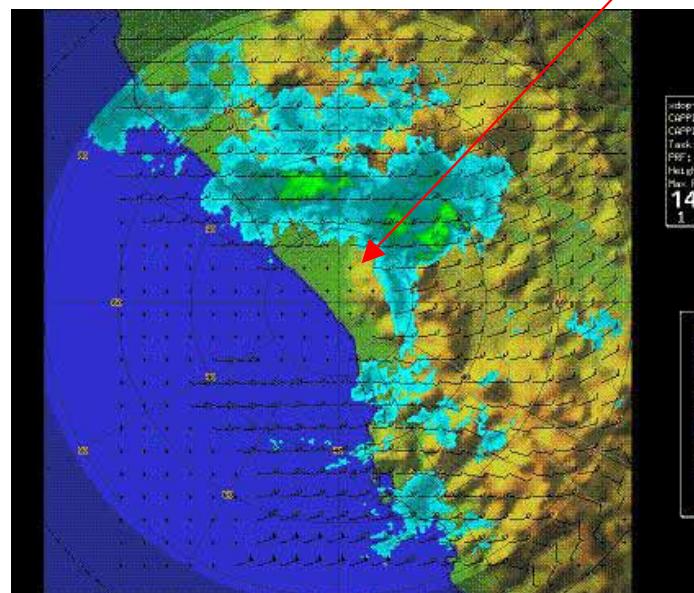
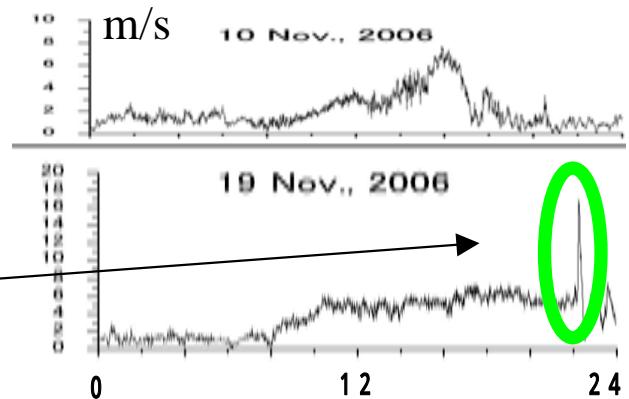
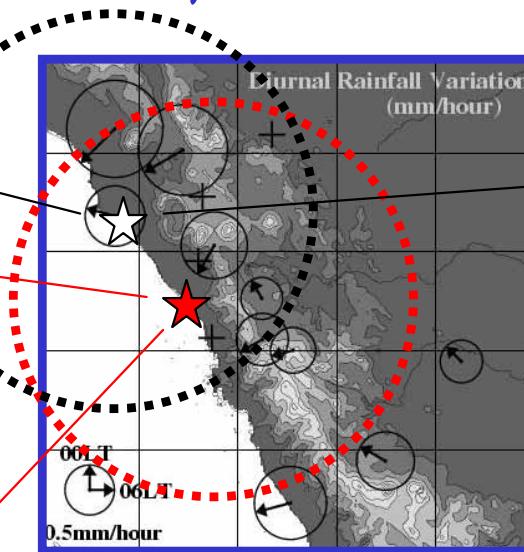


Average over 2-3 km





# XDRs at MIA & Tiku, Sumatera



Realtime Display on the Web

[http://www.jamstec.go.jp/iorgc/harimau/mia\\_realtime.html](http://www.jamstec.go.jp/iorgc/harimau/mia_realtime.html)



# HARIMAU HQ and CDR (Serpong, near Jakarta. West Java)

Tangerang

Latitude

8°S

Jakarta

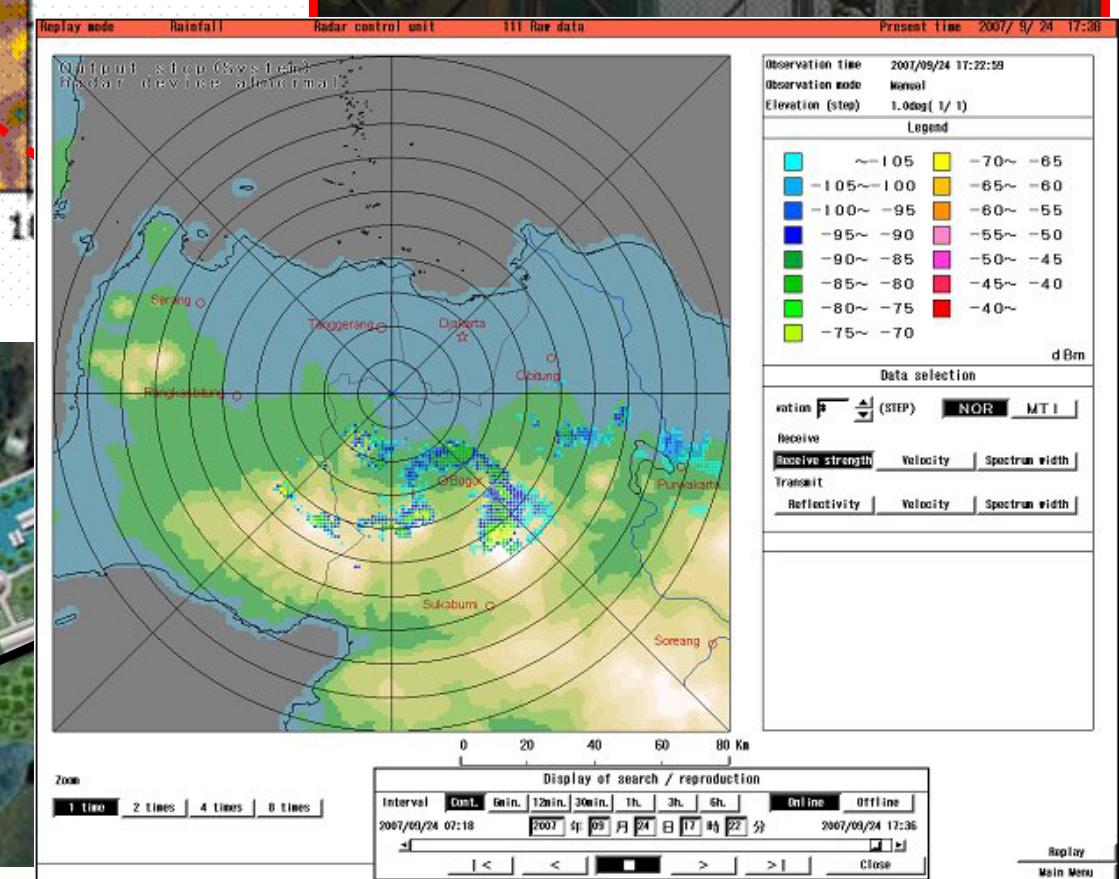
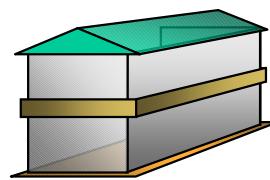
Bekasi

Bogor

7S

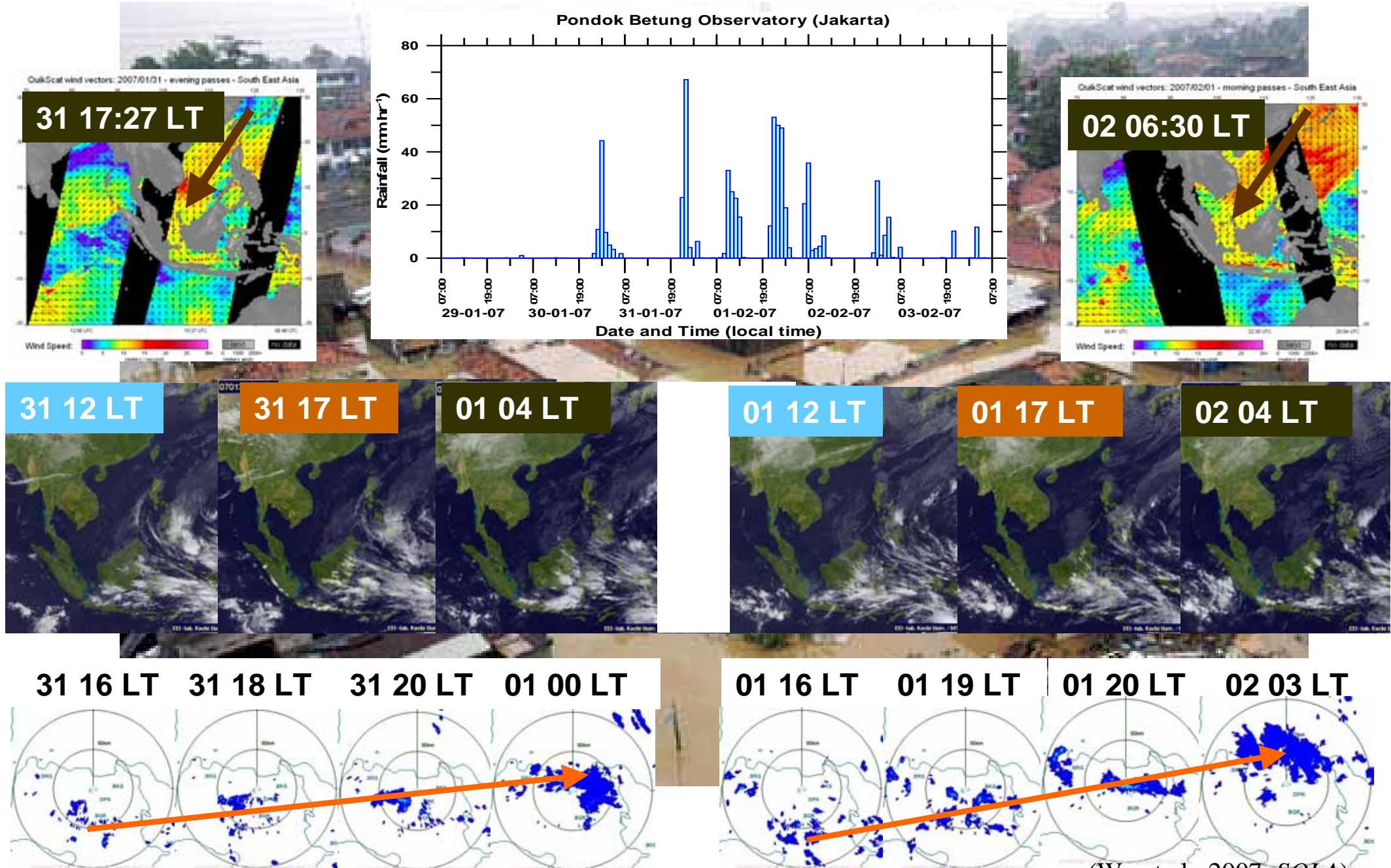
106°E

107°E  
Longitude

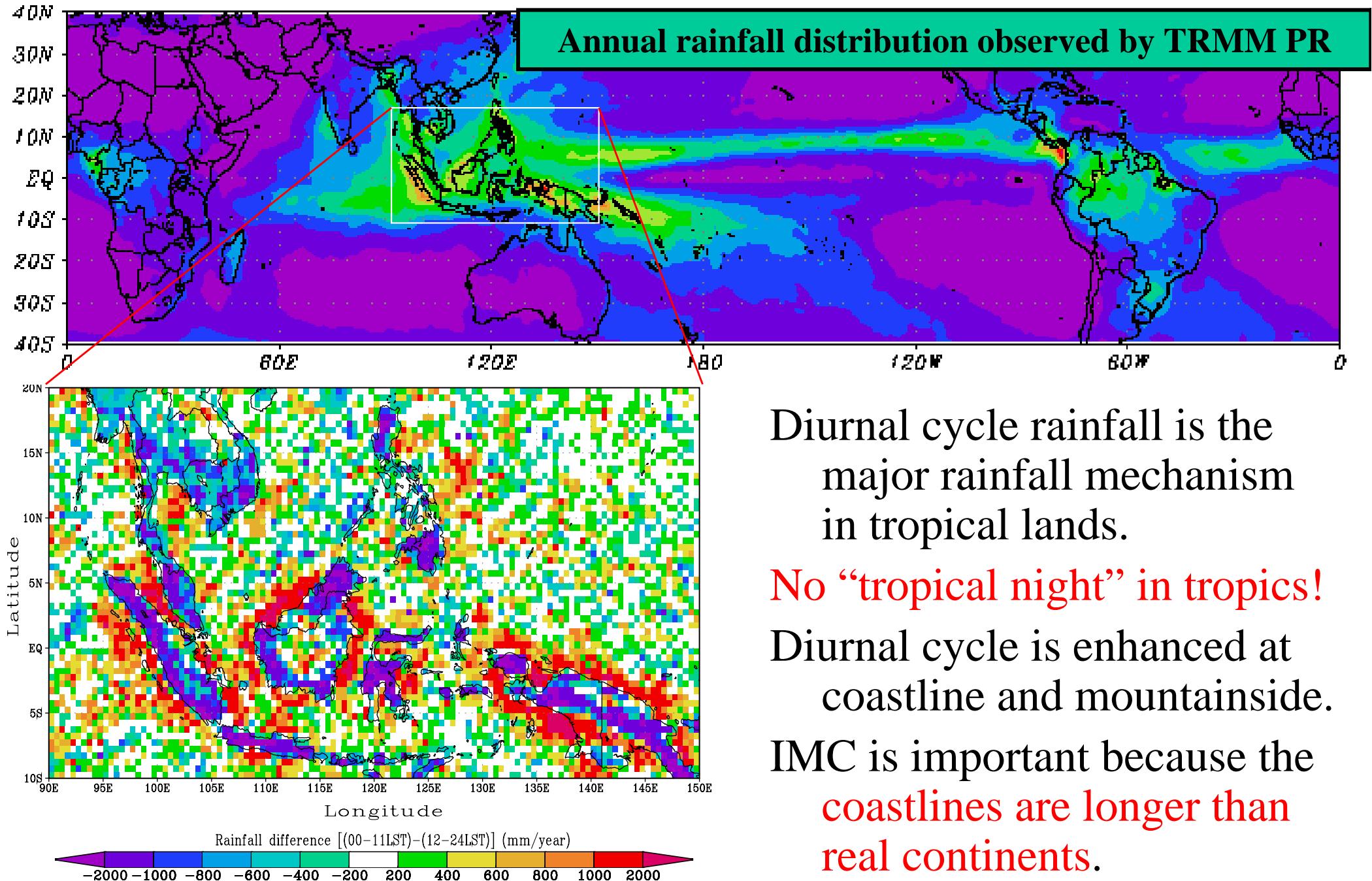




# Jakarta Flood in Jan-Feb 2007 by Diurnal cycle + Trans-Equatorial Siberian Monsoon “Cold Surge”



# Importance of diurnal cycle rainfall



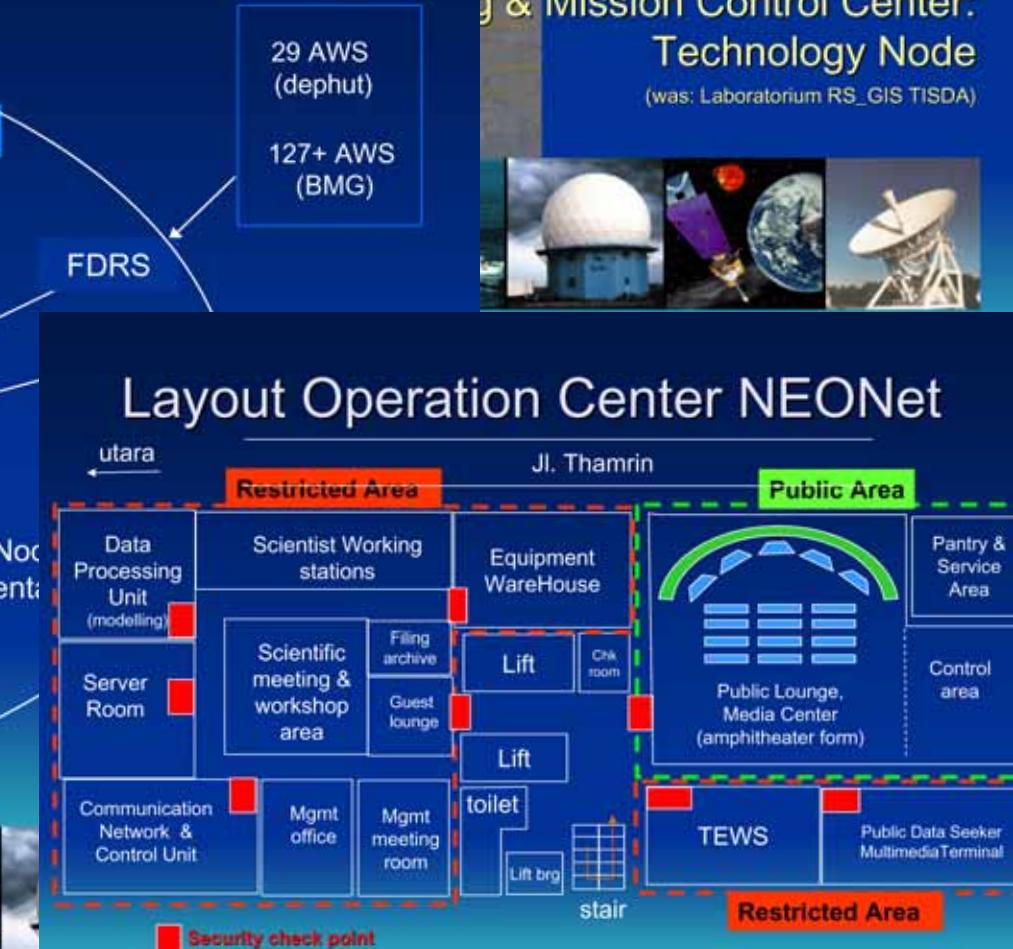
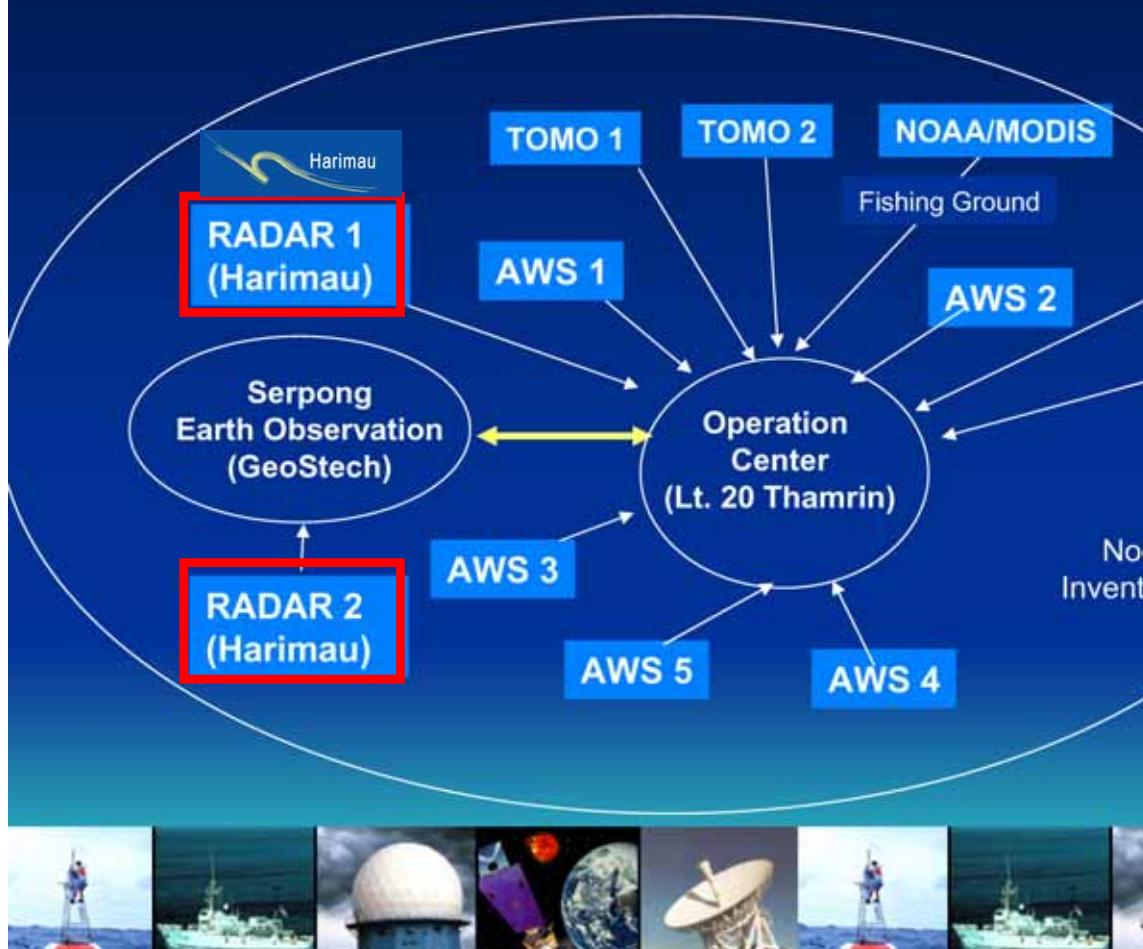
# Plan by Indonesian Government

(Financially started in 2008)

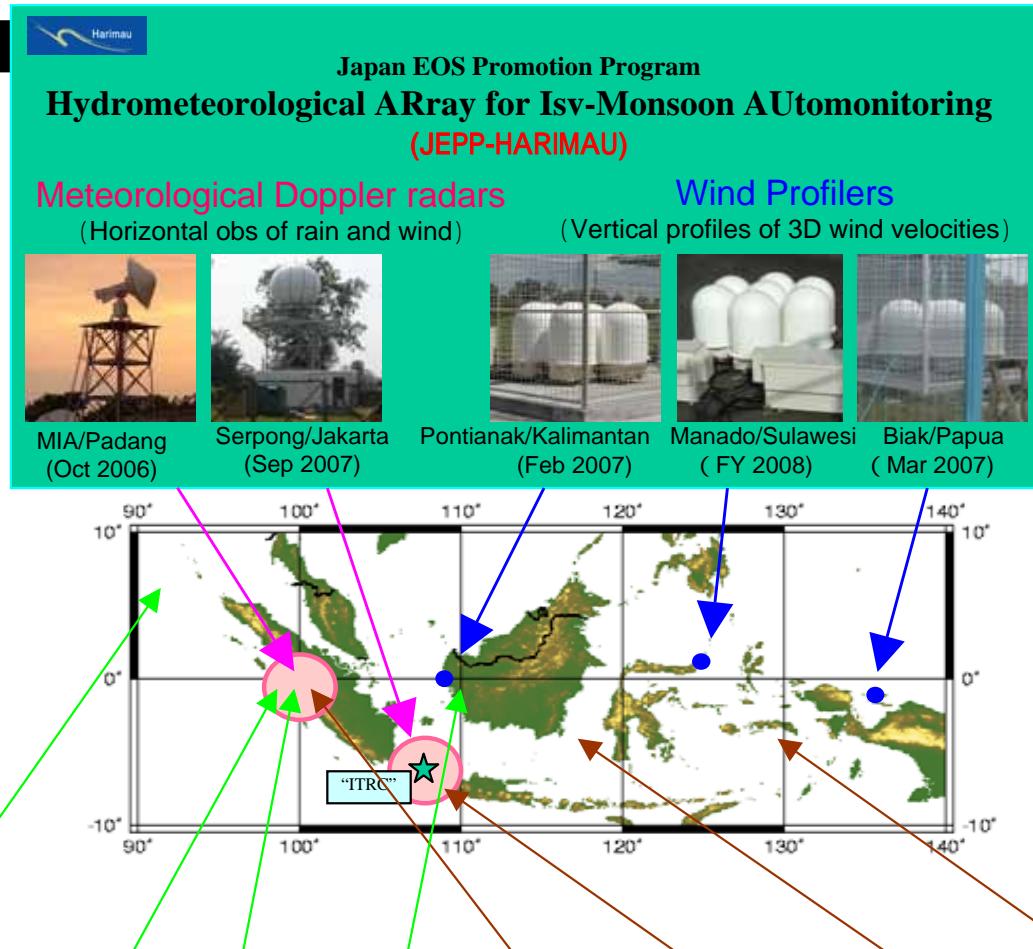


Nothing is new in this concept.  
It's just a different perspective,  
which hopefully everyone can  
agree upon....

## Skala TPSA/BPPT ☺ (skenario 2007)



# "HARIMAU-COE" by a new Japanese governmental policy on Global Issues (FY2008-10)



**< Science promotion >**

**Diurnal variation (DV)**  
self-enhancement through cloud process

**ISVs (superclusters) and Monsoons**  
interacting with DV

**Interannual variations**  
(such as ENSO, IOD)  
originated near IMC



## < Social benefits >

**Capacity development**  
on hydrometeorology and climatology in IMC

**Disaster prevention**  
and assessment for abnormal climate in IMC

**Security for Japanese**  
(30,000 - 100,000)  
living/staying in IMC for business/sightseeing

