

AMY (Asian Monsoon Years)

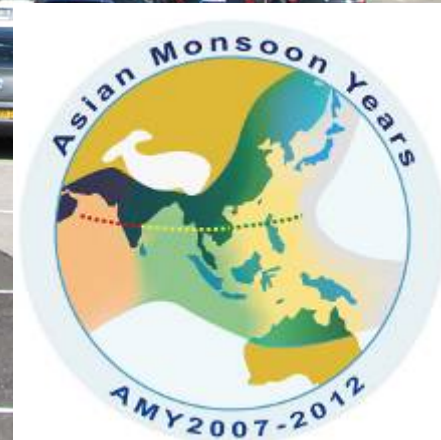


Jun Matsumoto

Tokyo Metropolitan Univ.,
JAMSTEC/IORGC

The Second CEOP Annual Meeting
at Geneva Switzerland,
September 15, 2008

Photo: , September 15, 2008



Dear AMY SSC members, IPO and working groups co-chairs: (Tue, 02 Sep 2008 15:43:47)

The 2nd CEOP Annual Meeting to be held from 15 to 17 September 2008 at WMO in Geneva, Switzerland. Although this is mainly related with GEWEX/CEOP activity, as attached agenda is clearly shown, monsoon cross-cut issue including our AMY activity is one of the main topic of discussion. In this sense, we need your input on the current AMY activity. I will make my presentation based on your input.

Another attachment by Word file is the CEOP template for the activity report. Although only some portion has already filled by me, we need your urgent input on it. Particularly, I need your input on the items key results (bullets) and list of key publications. If you have any recommendation or comments to be added in other items, they are all welcome. Since the dead line has already passed two days ago, I appreciate your prompt reply within two days.

In the Pan-WCRP monsoon activity, I was requested in the GEWEX Executive Meeting held in last week in Washington, to propose a clear-cut target(s) that can be fulfilled within coming 1-2 years. I also appreciate your comments what kind of activities should be done within this limited time frame by cross-cutting broader WCRP community.

Finally, **I also welcome your input by power point slides which will be presented in the CEOP meeting.**

I am very sorry to urge you, but your kindest understanding and prompt reply is highly appreciated.

Regards,

Jun



Asian Monsoon Years (AMY) 2007 – 2012

- **AMY 2007-2012 is a cross-cutting initiative as part of IMS.**
 - **It seeks to integrate some 21 regional projects over the Asian-Australian Monsoon region together with existing WCRP activities under CLIVAR and GEWEX and links to a number of other programmes including MAIRS, the Monsoon Asia Integrated Regional Study under START and the ESSP.**
- **A major activity, co-sponsored by CLIVAR and GEWEX.**
 - **Over the past year has been the development of a Science Plan for the Asian Monsoon Years (AMY) 2007-2012 and initiation of work towards an Implementation Plan for AMY. The work has been led by Professors Bin Wang (CLIVAR) and Jun Matsumoto (GEWEX).**
- **The long-term goal of AMY is “to improve Asian monsoon prediction for societal benefits through coordinated efforts to improve our understanding of Asian monsoon variability and predictability”.**
 - **It is believed that coordination and cooperation of individual participating and partner projects will greatly facilitate the efforts to reach this goal**



Programmatic Development

- AMY stems from grass-root scientific and societal imperatives
Initiated in August 2006, Xining meeting.
- Strongly supported by GEWEX and CLIVAR
GEWEX/MAHASRI workshop, Jan. 8 2007, Tokyo
GEWEX SSG, Jan. 22/25 2007, Honolulu
CLIVAR/AAMP, Feb 19/21 2007, Honolulu
- Endorsed by WCRP/JSC on 28th JSC meeting,
Mar. 26-30 2007 Zanzibar, Tanzania
- Identified as a cross-cutting weather and climate activity by
WMO/WWRP/Monsoon panel.
- 1st AMY meeting, Apr. 23-25 2007, Beijing
Established SSC, working group, IPO
- 2nd AMY meeting, Sept. 3-4 2007, Bali, Indonesia
Science plan
- 3rd AMY meeting, Jan. 26-27 2008, Yokohama, Japan
Implementation plan, coordination of field observation 2008



AMY Organization

Scientific Steering Committee:

Co-Chair: Bin Wang, Jun Matsumoto

Members: GX. Wu, T Yasunari, T Koike, D.R. Sikka,
S. Gadgil, TD. Yao, CB. Fu, RH Zhang, YH. Ding,
W. KM. Lau, CP. Chang, J. Shukla,

International Program Office: JP Li

Working groups:

Observation : M.D. Yamanaka, DX. Wang

Data management: K. Masuda, GQ. Zhou

Modeling and prediction: H. Hendon, A. Kitoh

A large group of approximately 50 people, including men and women of various ages, are posed for a group photograph. They are arranged in several rows, with the front row holding a long white banner. The background features a traditional building with a dark wooden lattice facade and large, ornate golden umbrellas on either side. The banner text is in blue and black, with decorative blue scrollwork on the left and right sides.

ASIAN MONSOON YEAR 2008 (AMY08) WORKSHOP

September 3rd- 4th 2007, Ramada Bintang Bali Resort, Bali, Indonesia



The 4th AMY (2007-2012) workshop

- The 4th AMY (2007-2012) workshop was held from June 19, 2008 in Busan, Korea.
- The objective of this meeting was to finalize the implementation plan of the AMY (2007-2012), seeking for the collaboration with Korea (APCC, Seoul, Pusan, Pukyong... Universities).
- Basically, we will organize AMY Session in Annual AOGS meeting

AMY Workshop

19 June 2008. Nurimaru APEC House, Busan, Korea





AMY Objectives

The specific objectives of AMY are:

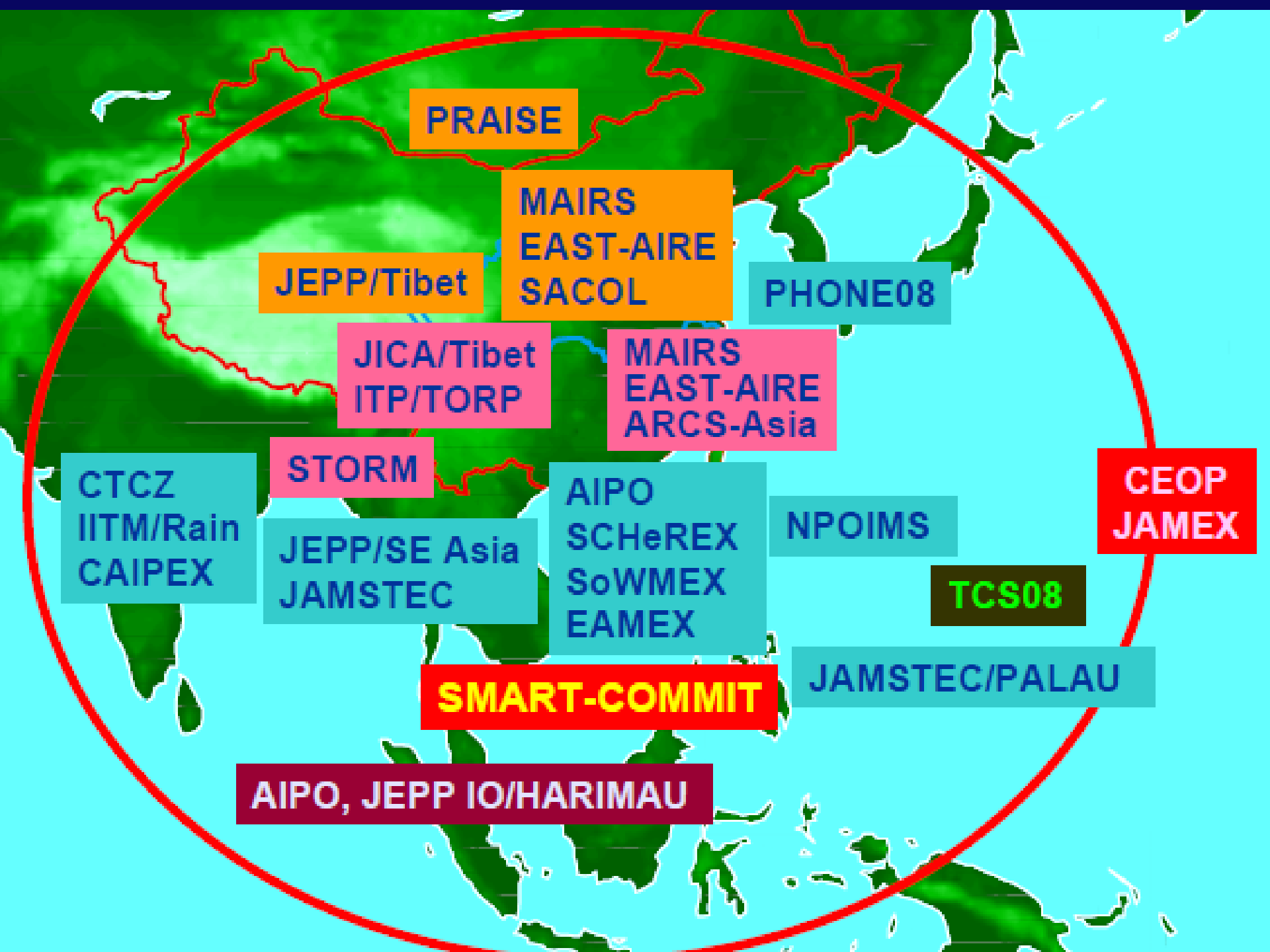
- To better understand the ocean-atmosphere-land-biosphere interactions, the multi-scale interactions among time scales ranging from diurnal, intraseasonal to interannual, and the aerosol-cloud-water cycle interactions in the Asian monsoon system;
- To improve the physical representations of these interactions in coupled climate models, and to develop data assimilation of the ocean-atmosphere-land system in the Asian monsoon region;
- To determine predictability of the Asian monsoon on intraseasonal and seasonal time scales, and the roles of land initialization in continental seasonal rainfall prediction;
- To better understand how human activities in the monsoon Asia region interact with monsoon and its related environment.



Related International and National Projects

AMY

- **China – AIPO** (Asia and Indian-Pacific Ocean)
- **India – STORM** (Severe Thunderstorms-Observations and Regional Modelling)
- **India – CTCZ** (Continental Tropical Convergence Zone)
- **Japan – JEPP/JAMSTEC**
 - (Japan EOS Promotion Programme)
 - (Japan Agency for Marine-Earth Science and technology)
- **(GEWEX CEOP) – MAHASRI**
 - Monsoon Asia Hydro-Atmosphere Scientific Research and Prediction Initiative
- **(WWRP) China – SCHeREX**
 - (Southern China Heavy Rainfall Experiment)
- **(WWRP) SoWMEX** (Southwesterly Monsoon Experiment)
- **(WWRP) US-TiMREX** (Terrain-influenced Monsoon Rainfall Experiment)
- **JAMEX** Joint Aerosol-Monsoon Experiment
- **ESSP – MAIRS** Monsoon Asia Integrated Regional Study



PRAISE

MAIRS
EAST-AIRE
SACOL

JEPP/Tibet

PHONE08

JICA/Tibet
ITP/TORP

MAIRS
EAST-AIRE
ARCS-Asia

CTCZ
IITM/Rain
CAIPEX

STORM

AIPO
SCHeREX
SoWMEX
EAMEX

NPOIMS

CEOP
JAMEX

JEPP/SE Asia
JAMSTEC

TCS08

JAMSTEC/PALAU

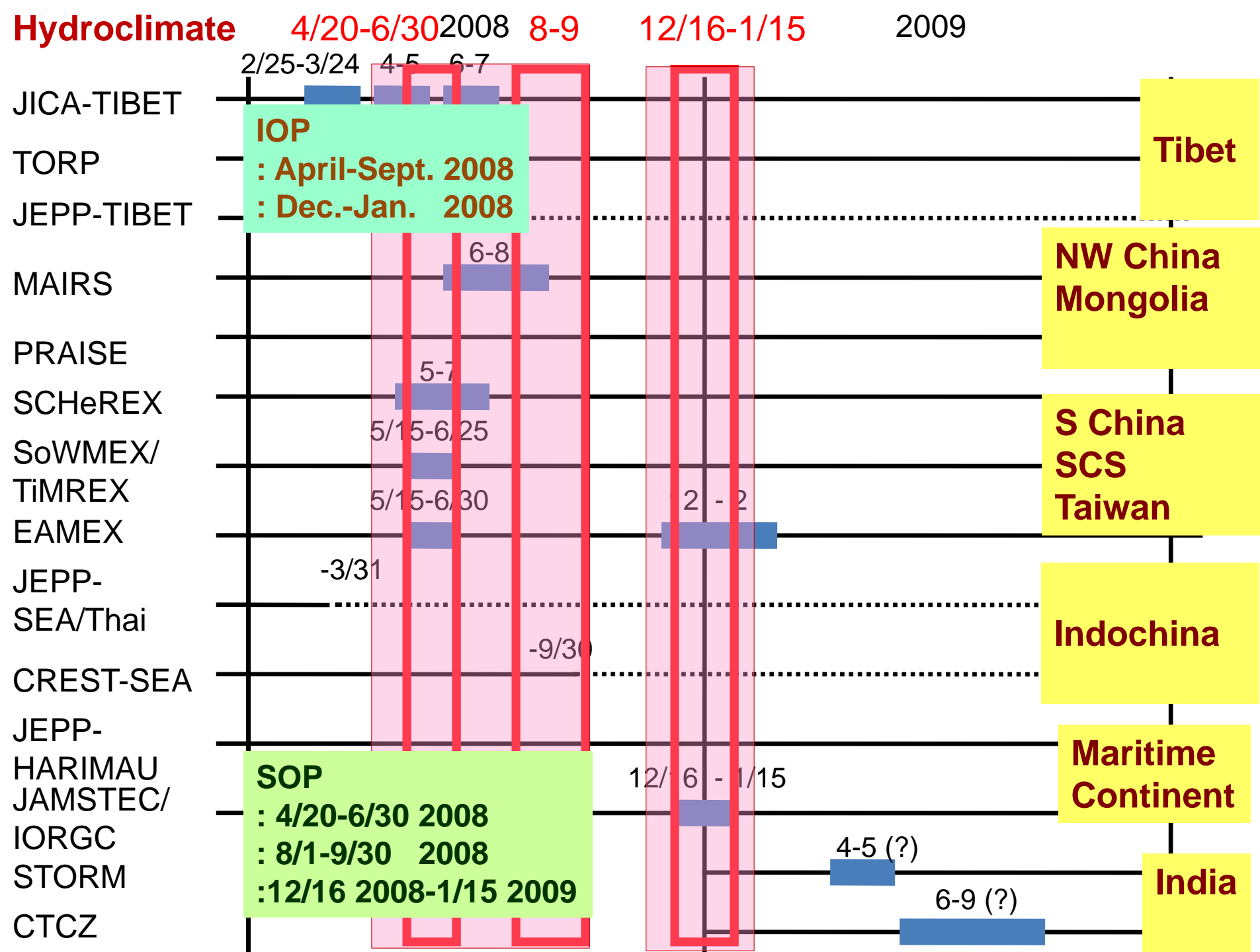
SMART-COMMIT

AIPO, JEPP IO/HARIMAU

Classification of Projects

Hydroclimatology, weather	CEOP, SACOL, PRAISE, SChEREX , SoWMEX/TiMREX , IITM/rain , CTCZ, STORM , MAHASRI/JEPP
Tibetan Plateau	ITP/TORP JICA/Tibet
Aerosols	CEOP, SACOL, IITM/CAIPEX, JAMEX, EAST-AIRE & AMF, SMART-COMMIT, ARCS-ASia
Ocean interactions	AIPO, CTCZ, JEPP/IO, PALAU2008, TCS08
Monsoon prediction	AAMP, APEC, CEOP, ...
Human interactions	MAIRS; others link across

Plus other National & International contributions



Ocean

2008 8-9 12/16-1/15 2009

JEPP/IO

AIPO/IO

CTCZ/IO

AIPO/SCS

JAMSTEC/
PALAU

SoWMEX/
TiMREX

NPOIMS

EAMEX

Indian Ocean

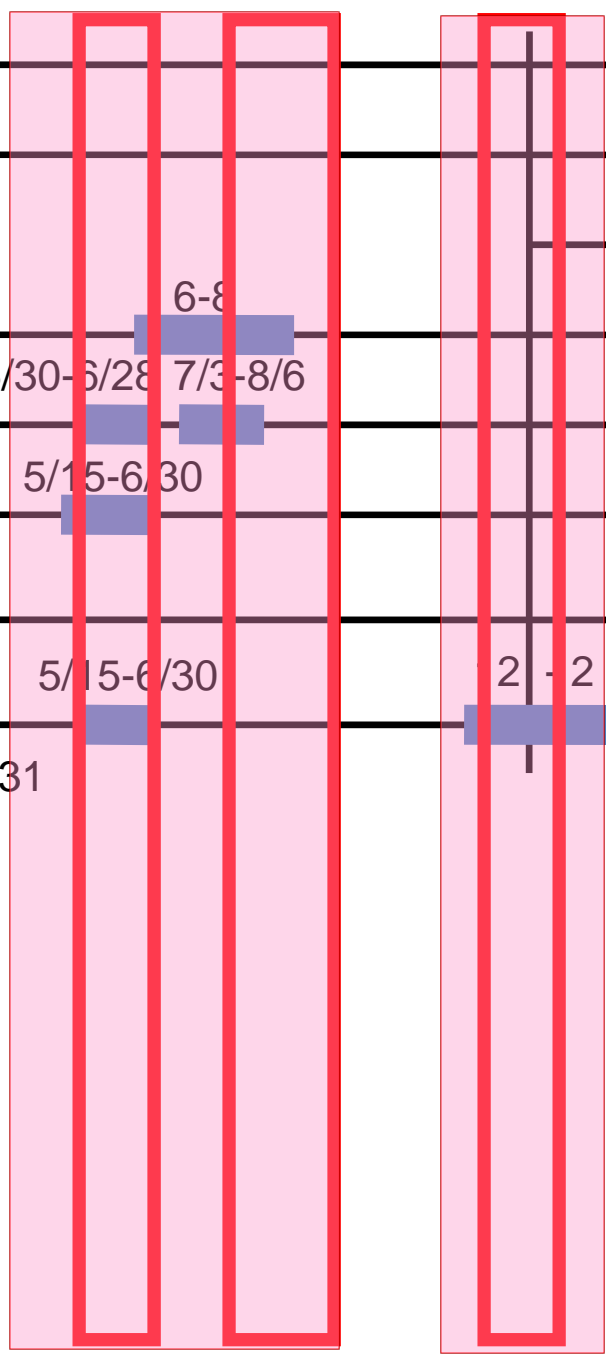
South China Sea West Pacific

5/15-6/30

2008 8-9

12/16-1/15

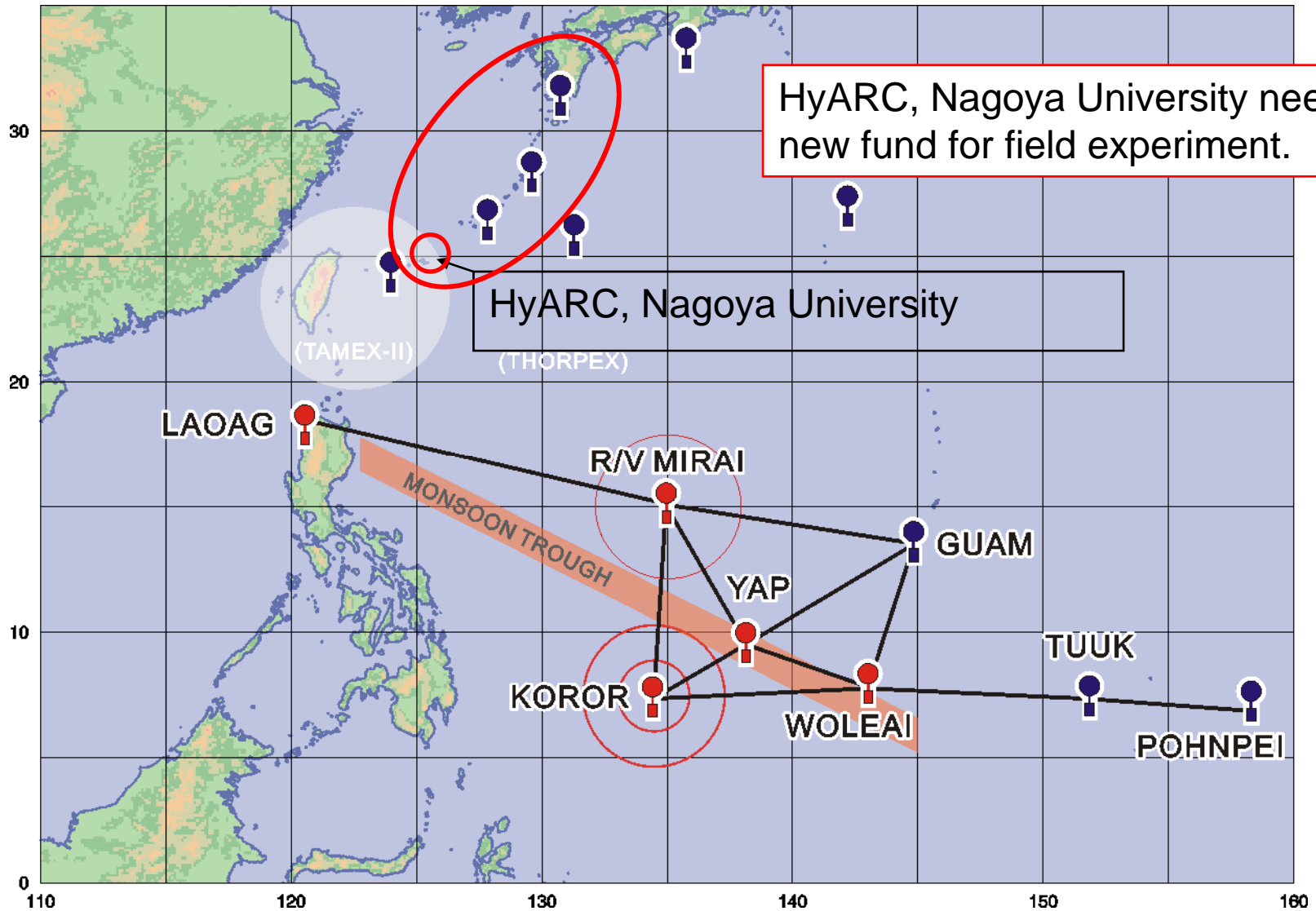
2009



IOP
 : April-Sept. 2008
 : Dec.-Jan. 2008

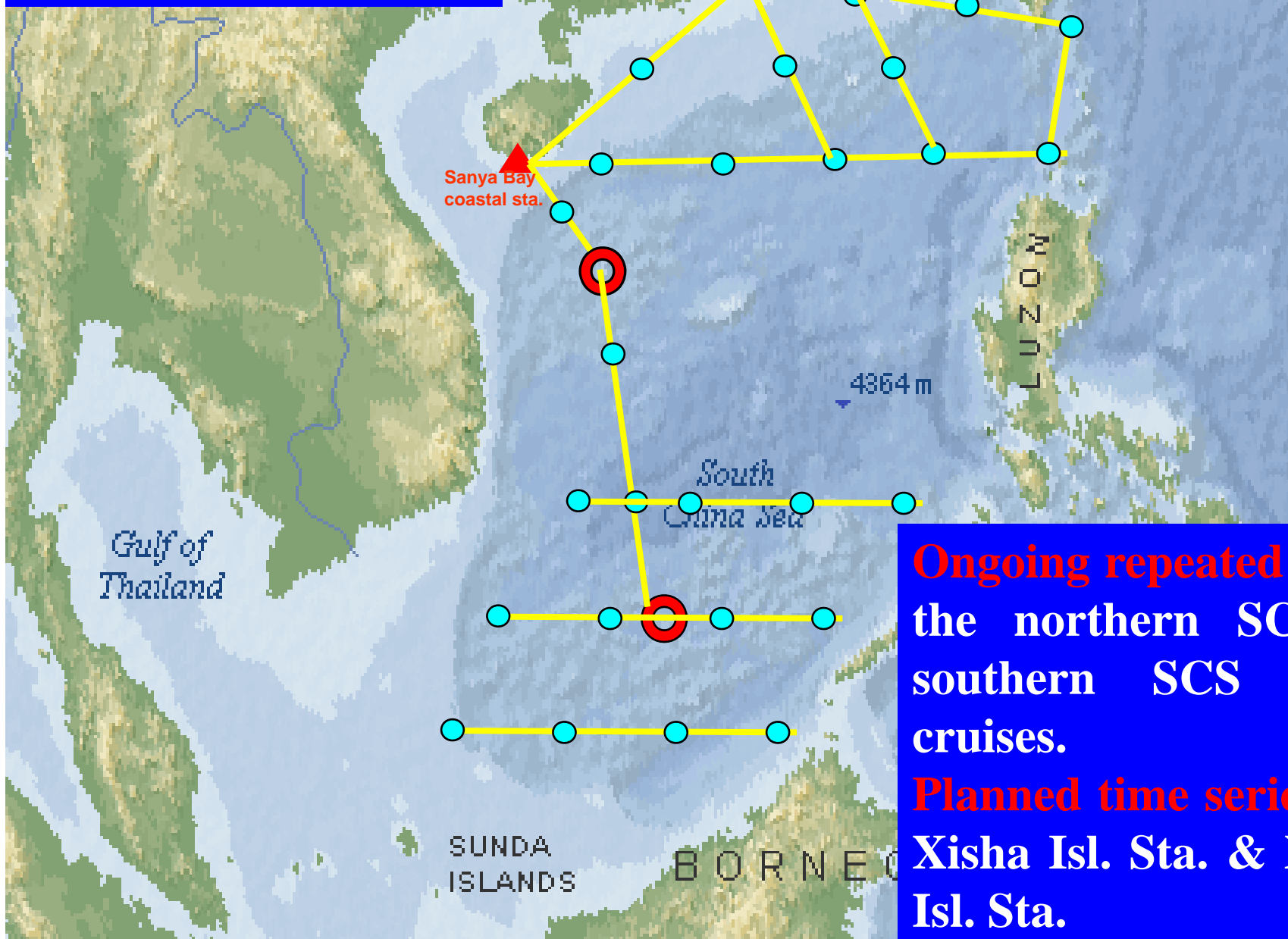
SOP
 : 4/20-6/30 2008
 : 8/1-9/30 2008
 : 12/16 2008-1/15 2009

Research plan for 2008



from Yamada, IORGC

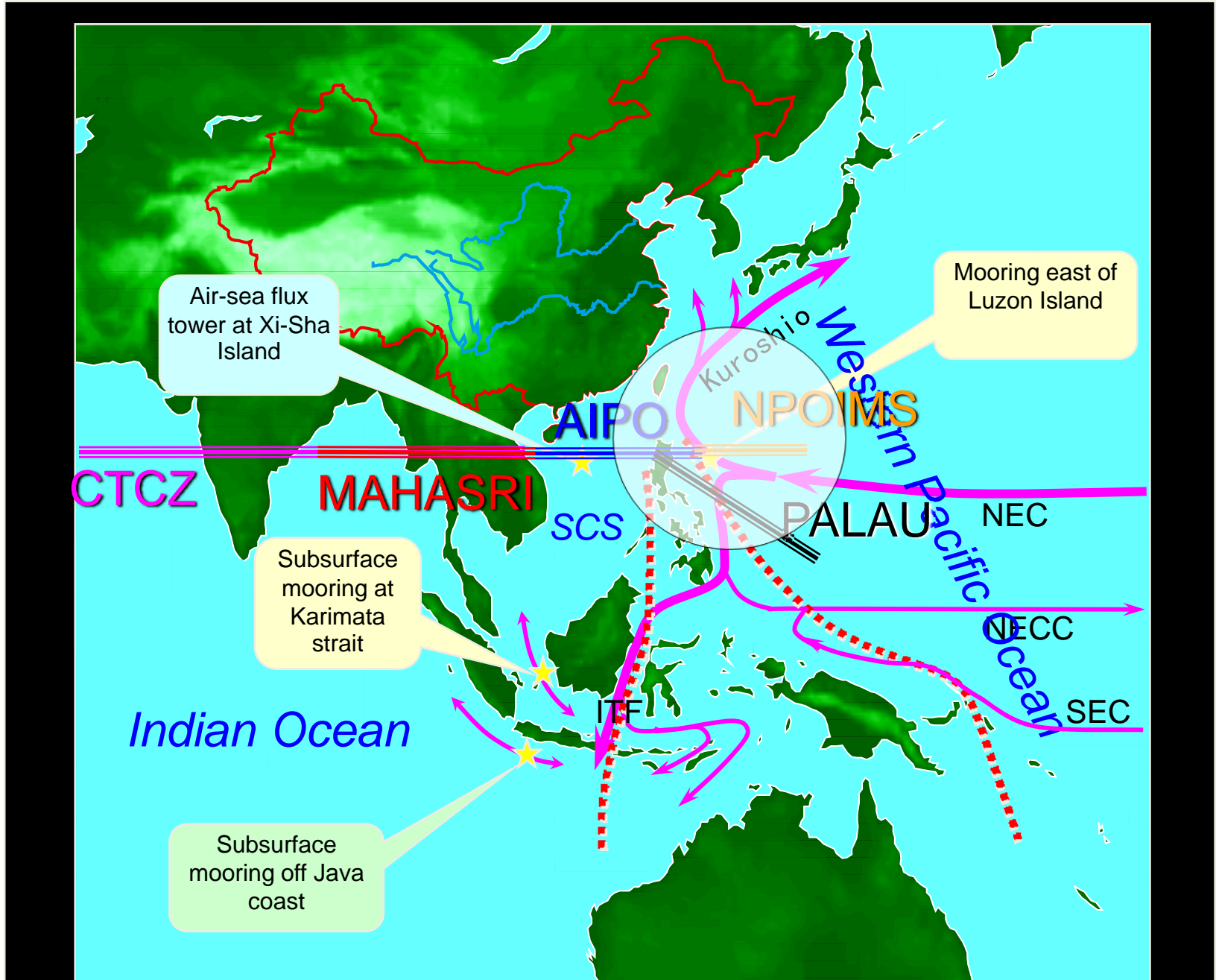
SCSIO version of the SCS network

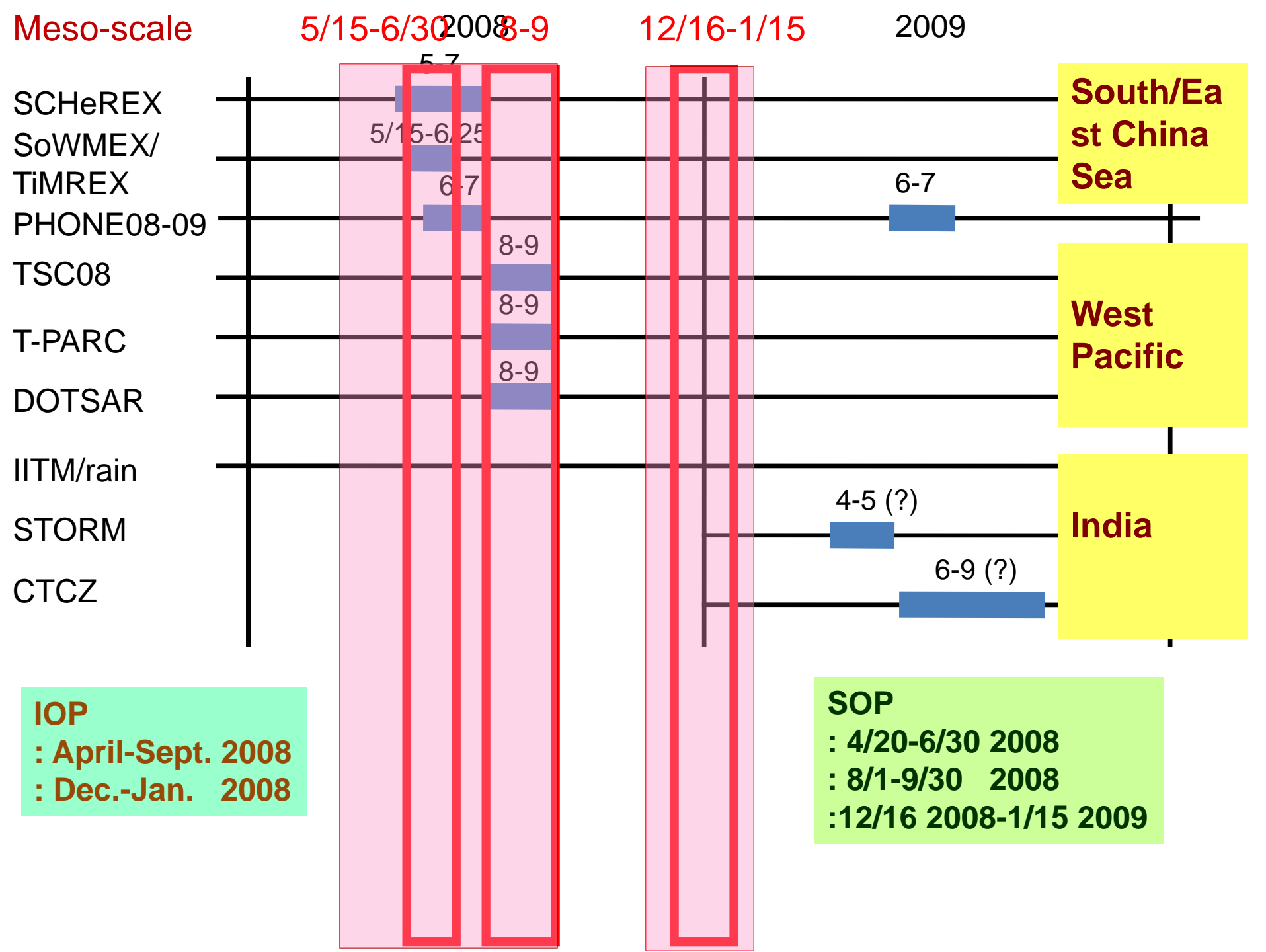


Ongoing repeated cruises:
the northern SCS and southern SCS annual cruises.

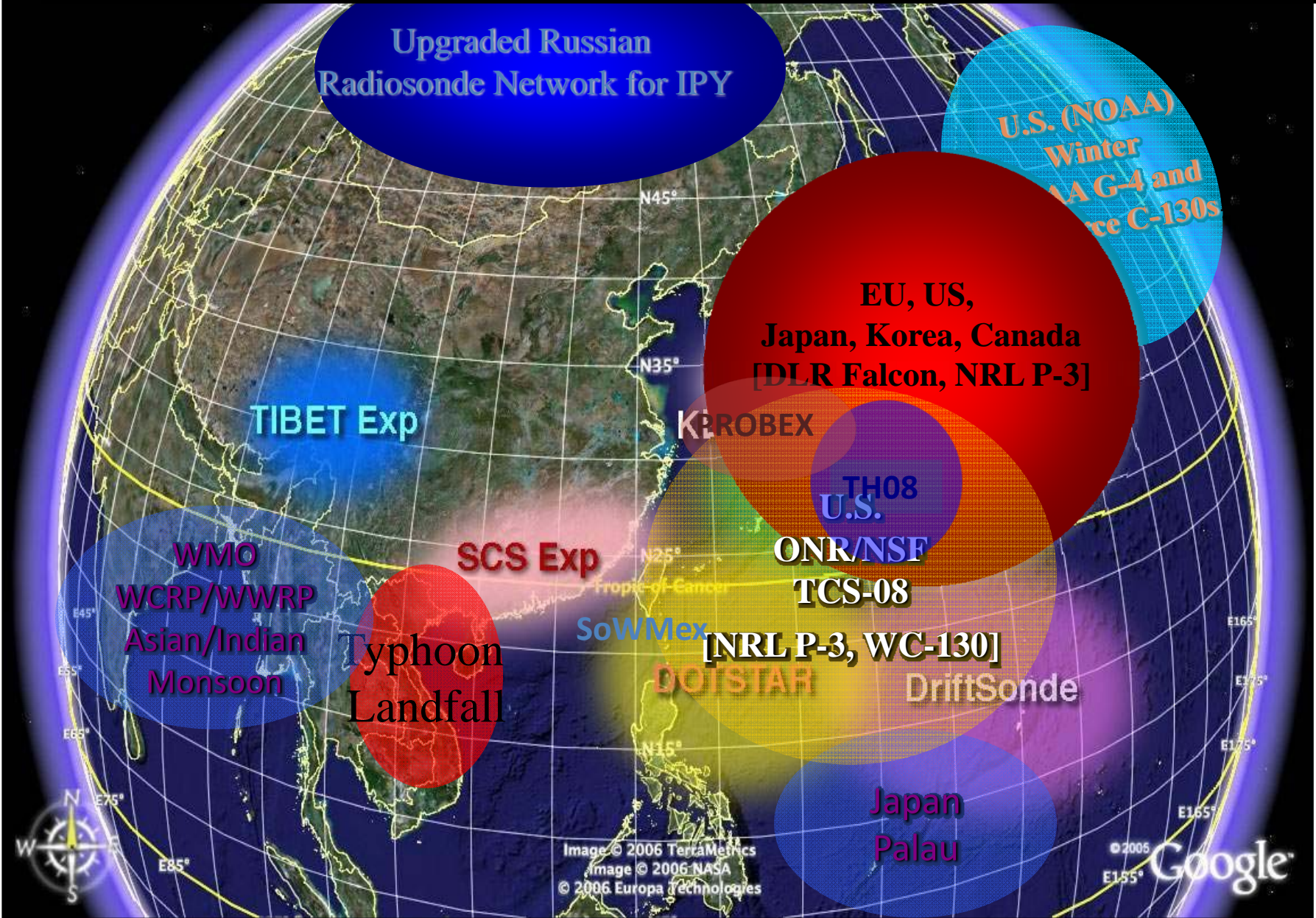
Planned time series sites:
Xisha Isl. Sta. & Nansha Isl. Sta.

Schematic observation plan of air-sea-land interaction in the AIPO Region





THORPEX-Pacific Asian Regional Campaign/Tropical Cyclone Structure-08 Experiments and Collaborative Efforts



All Information on T-PARC available on the Webs.



TPARC/TCS-08 Field Catalog

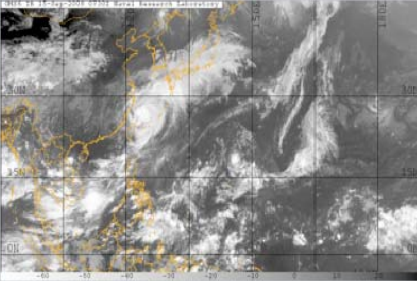
2008 Field Season

- Catalog Home
- Daily Reports
- Operational Products
- Model/Forecast Products
- Research Products
- Missions
- Tools & Links

UTC: Mon, Sept 15, 10:00 Z
 Guam: Mon, Sept 15, 8:00 PM
 Tokyo: Mon, Sept 15, 7:00 PM
 Boulder: Mon, Sept 15, 4:00 AM
 Monterey: Mon, Sept 15, 3:00 AM
 Taipei: Mon, Sept 15, 6:00 PM
 Hawaii: Mon, Sept 15, 12:00 AM

- Quick Links:**
- Facilities Status
 - Operations Plan of the Day
 - TPARC Weather Discussion
 - Real-Time P3 Flight Track (km)
 - Real-Time C-130 Flight Track (km)
 - Real-Time MTSAT Vis/IR Imagery (km)
 - Real-Time Driftsonde Track (km)
 - (Download kmis first then open in GoogleEarth)
 - NPS Weather Briefing Website
 - Elluminate Meetings
 - TPARC / TCS-08 Operations Period is 8/1 - 9/30/2008 Products from 8/1 to 8/20 have been disabled.

Northwest Pacific Latest Infrared Image

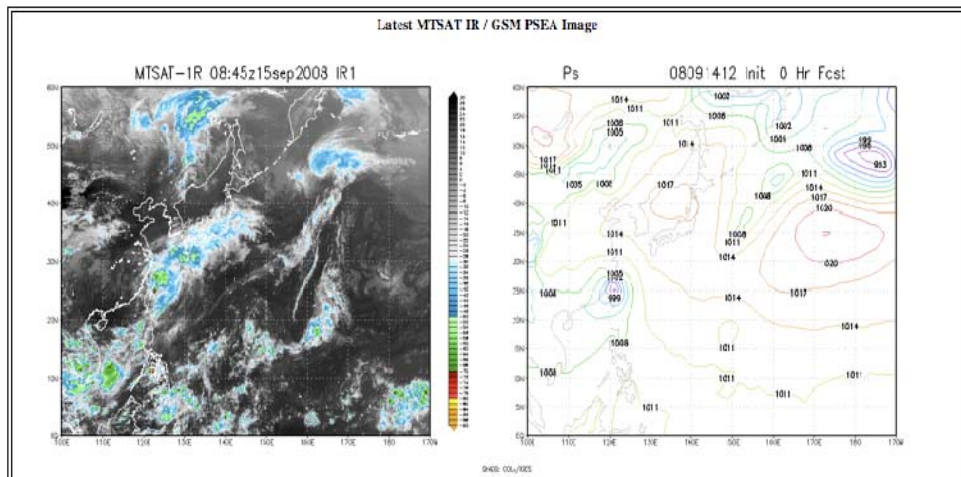


Additional Satellite Imagery:

Latest 4 hours Visible
 Latest 4 hours Water Vapor

[X-Chat instant access](#)

- Information Links:**
- JTWC Website
 - Honolulu Weather
 - Guam Weather
 - Okinawa Weather
 - Monterey Operations Center (831) 656-3569
 - Guam Aircraft Coordination Center (671) 653-0235
 - [Comments](#)



Today's Operation


Current Time

Tokyo/Seoul: Mon Sep 15 2008 19:13:54 GMT+0900 (JST)
 Chna/Beijing: Mon Sep 15 2008 16:13:54 GMT+0800 (CST)
 US/Monterey: Mon Sep 15 2008 03:13:54 GMT-0700 (EST)
 Germany: Mon Sep 15 2008 12:13:54 GMT+0200 (CST)

	Status	Remarks
Falcon	Operating	Takeoff at 08:28JST, North of Sinikaku
JMA Autosondes	Not operated	
JMA R/V Chofu	Operating	31.5N 128.2E at 01Z, Sep.14
JMA R/V Se-fu	Not operated	
MTSAT2 Rapid Scan	Not operated	

- For the status of P3 and C-130 please check the [EOL Homepage](#).
- For DOTSTAR operation, please come to the [DOTSTAR Homepage](#).

- Information**
- Targeting Observation
 - [Falcon Flight Plan and Observation](#)
 - Global Deterministic Forecasts
 - [Global Spectral Model \(GSM\) Forecast \(1.25 deg, 12 hourly\)](#)
 - JCIAS (JMA Global Analysis Data)
 - [JCIAS Analysis Data](#)
 - Satellite Data
 - [MTSAT Images](#)
 - [QuikSCAT Images](#)
 - Dvorak TC Analysis
 - Upper Sounding Data Availability
 - Previous Figure
 - [Global Deterministic Forecast](#)
 - [MTSAT Images](#)
 - [QuikSCAT Images](#)
 - [Dvorak TC Analysis](#)
 - [Special Datasets](#) (Please send a request to get ID and Password to thorpec@mri-jma.go.jp)



University Corporation for Atmospheric Research
 PO Box 3000 Boulder CO 80307 USA

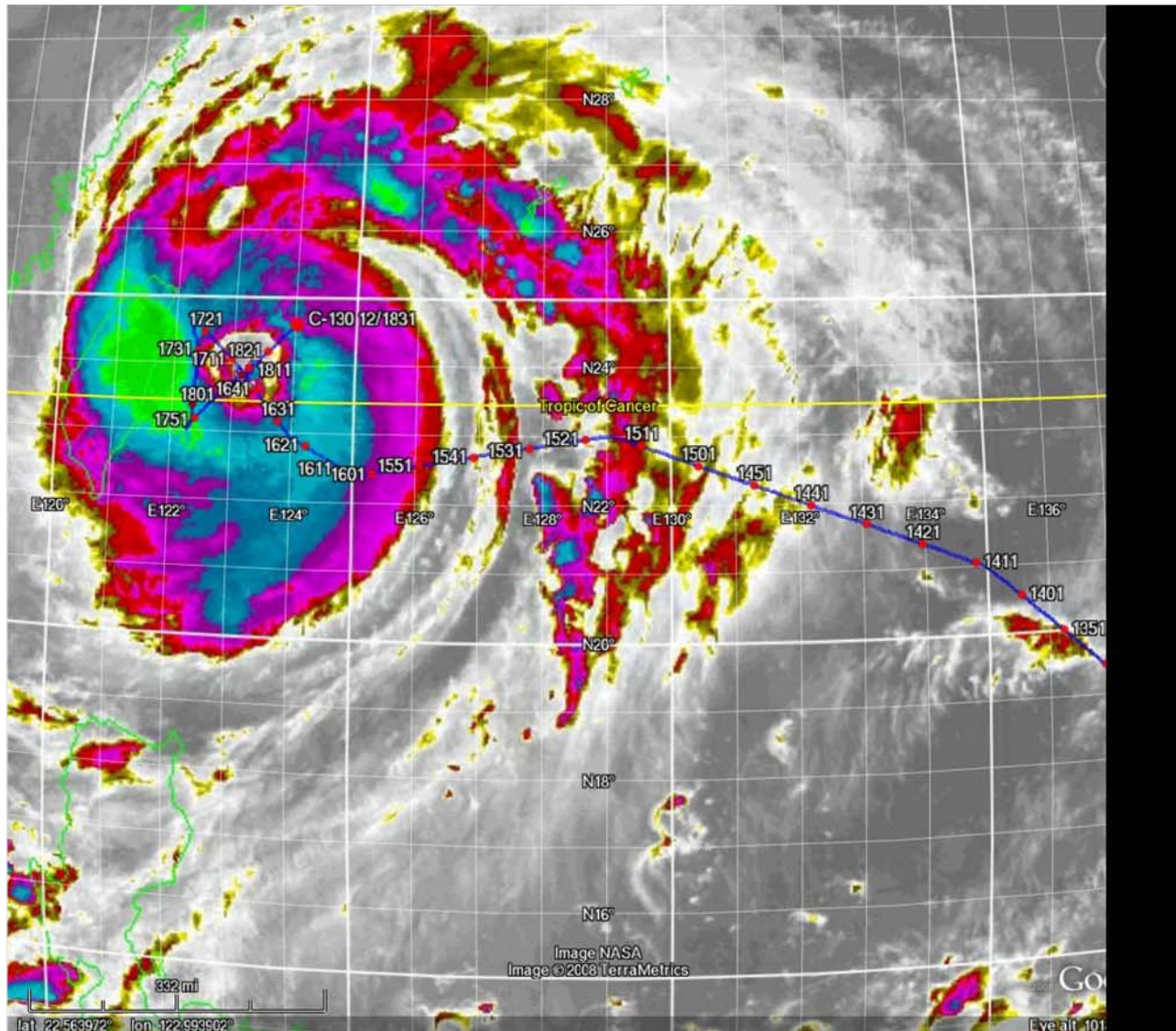
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http://catalog.eol.ucar.edu/tparc_2008/

<http://tparc.mri-jma.go.jp/>

The First Time in 15 years of Penetration to Typhoon eye



C130 Track with MTSAT IR Image at 16:15UTC, Sep. 13, 2008.

(Courtesy of Dr. P. Harr, NPS)

- **Observations**

- Make a catalogue of scientific observations (in progress)

- Request operational agencies for the necessary data through WCRP-JSC (not yet done)

- Request rapid scan observation of GMS

- **Data Management and Policy**

- Basically agreed

- Data: Open within participating community within 1 year, open to public within 2 years

- Management: Distributed data centers (?)

- **Coordination with Modeling**

- Coordinated experiments for 2008-2009



Meeting Schedule in 2008 & Early 2009

- September 22-24, 2008: EAMEX/MAHASRI WS, Taiwan
- October 20-25, 2008: IMW-IV at Beijing, China, including CLIVAR/AMMP, Pan-WCRP Monsoon Workshop, 5th AMY Workshop (October 23)
- March 2-4, 2009: The 2-nd Vietnam-Japan MAHASRI/AMY Workshop, at Danang (?), Vietnam
- August 11-15, 2009 AOGS 2009 6th Annual General Meeting

The END

<http://mahasri.cr.chiba-u.ac.jp/>

Thank you!

