# What can THORPEX collaborate with MAHASRI?

TIGGE: THORPEX Interactive Grand Global Ensemble

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Chair, Asian THORPEX Regional Committee

**WMO** 

OMM



### About THORPEX

### Mission

Organization
<u>Planning Phase</u>
<u>Implementation phase</u>

### **Milestones**

#### **Meetings**

Second THORPEX International Science Symposium 4-8 December 2006 Landshut, Bavaria, Germany

### **News**

**Brochure** 

**Publications** 

**Fellowships** 

<u>Trust fund</u>

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WMO WWRP

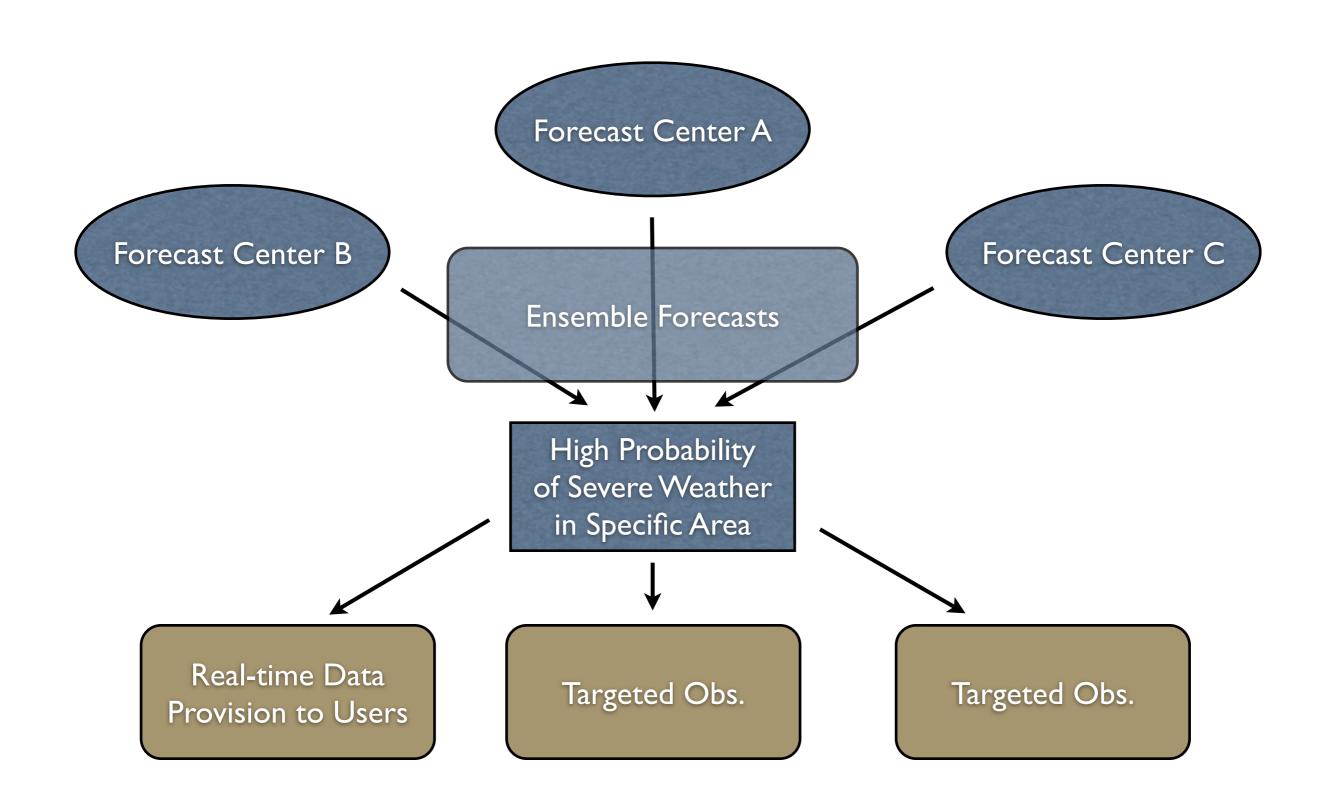
Accelerating improvements in the accuracy of one day to two week high-impact weather forecasts for the benefit of society, the economy and the environment



### Global mosaic of images from five satellites: two METEOSAT, two GOES and GMS (SRC Planeta) @ 2003

# http://www.wmo.ch/thorpex/

# TIGGE Concept



# The key objectives of TIGGE are:

- Enhanced international collaboration between operational centres and universities on the development of ensemble prediction
- Development of new methods of combining ensembles of predictions from different sources and of correcting for systematic errors (biases, spread over-/under-estimation)
- Increased understanding of the contribution of observation, initial and model uncertainties to forecast error
- Increased understanding of the feasibility of employing, operationally, an interactive ensemble system which responds dynamically to changing uncertainty (including the use of adaptive observing, variable ensemble size, on-demand regional ensembles) and which exploits new technology for grid computing and high-speed data transfer
- Evaluation of the elements required of a TIGGE Prediction Centre to produce ensemble-based predictions of high-impact weather, wherever it occurs, on all predictable time ranges
   Development of a prototype future Global Interactive Forecasting System

# Data policy:

TIGGE data should be available to all users for research purposes

- Consideration needs to be given to the issue of realtime access to data, in particular for demonstration projects and field experiments
- The process of obtaining approval for data access should be transparent, stream-lined and reasonably fast
- The user interface for access to the central archives should be user-friendly and should make it as easy as possible for researchers in disciplines not used to dealing with exceptionally high data volumes to obtain subsets of data

Open-source sharing of post-processing software (calibration, combination, decision-making) should be promoted in order to maximise benefit for both researchers and end-users

# TIGGE should provide real-time support for:

International Polar Year field campaigns in 2007-2008

Beijing 2008 Olympics WWRP Research and Development project

 Regional and global experiments on the enhanced disaster management systems, including those initiated in the framework of Multi-Hazard Strategy
 Other major campaigns – users of TIGGE, which

should be yet identified

### **PS** 10N-15N 2004 **3 Day** EnM,SP 6 Day EnM,SP 9 Day EnM,SP 1JUN2004 Ensemble Spread 16JUN2004 1JUL2004 16JUL2004 1AUG2004 16AUG2004 1SEP2004 Ensemble Mean 16SEP2004 10CT2004 $\subset$ <160CT2004 150E 150E 15<sup>0</sup>E 180120E 180120E 150E 120E 180120E 180 1007

1004

1010

# **MJO/TC Activity by JMA Weekly Ensemble Forecast**

### T-PARC Experiments and Collaborative Efforts

