

Discussion for Establishing A Disaster Risk Management System in the Asia-Pacific Region

October 12, 2005

Special Session for Establishing a Disaster Risk
Management System in the Asia-Pacific Region



Discussion context/contents

- Review of proposed system
- International framework
 - Joint project team
 - Function of the team
 - Duration
 - Team meeting
- Other issues

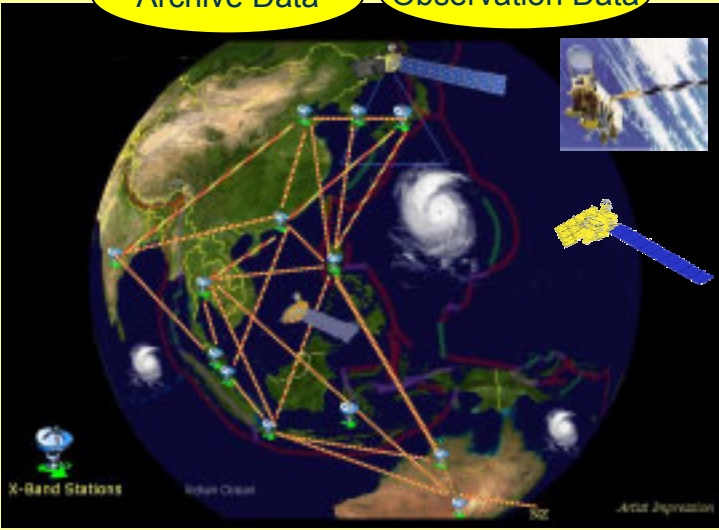


STEP 1: Establishment of Sentinel Asia (2006 - 2007)

Observation System

Archive Data

Observation Data



JAXA, MODIS stations

Capacity Building

JAXA, AIT



Information Sharing Platform



Digital Asia

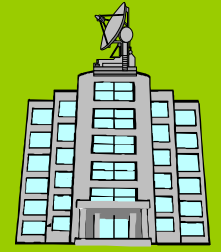
JAXA, AIT, Keio Univ.



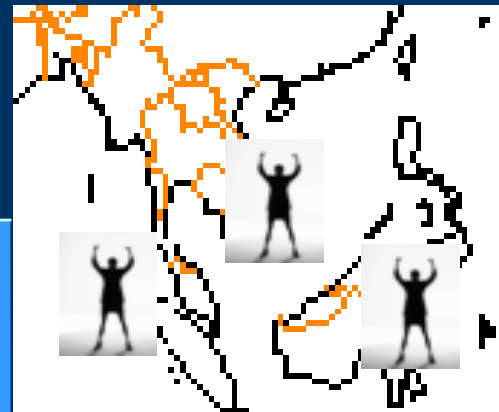
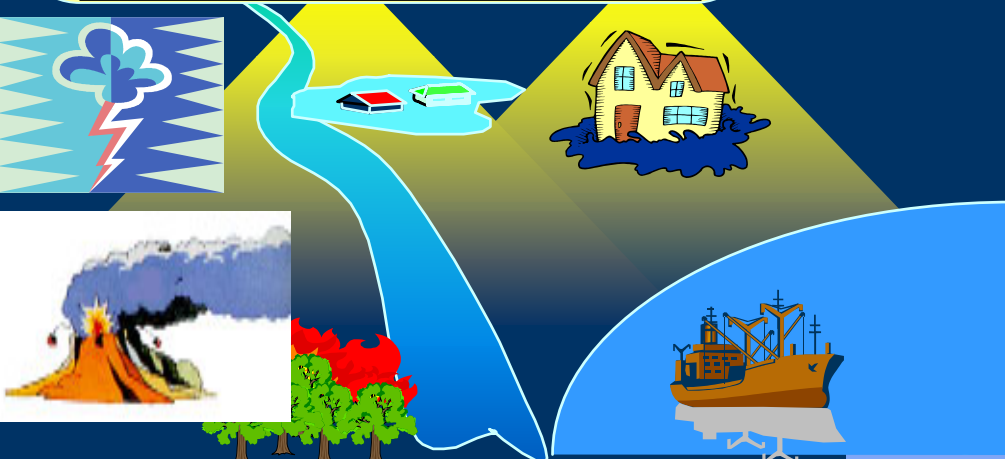
ALOS Rapid Response System

JAXA, ADRC

Disaster Management Agencies



Disaster Prevention



Residents in disaster areas

Warning

Refuge

Rescue



Proposed System Outline (2/2)

STEP-1: Sentinel-Asia (2006-2007)

- **Target and approach**
 - Wildfire (hot spot) and flooding
 - MODIS, ALOS,...
 - Grid computing network, nodes/user interface (Internet, APAN)

- **ALOS rapid response system**
 - Accept observation request (in parallel with Disaster Charter)
 - Quick data dissemination via ADRC

- **Information sharing**
 - Digital Asia oriented WebGIS (standardized information platform)
 - Dissemination of disaster information to local government, Int' NPO under the cooperation with UN-ESCAP, UN-OCHA,...

- **Education and training**
 - Knowledge and technology transfer
 - Seminar, Hands on training
 - Caravan, on the job training



Approach

- **Joint Project Team**
 - Call for members (space agency, disaster agency)
 - Involve regional operational user agencies
 - Link to global initiatives (GEO, IGOS-Geo,..)
 - Establish Web site for information exchange
- **Project Office**
 - JAXA will constitute project office for the joint project team in JAXA and in Asian
- **Step by step approach**
 - STEP 1: Establishment of Sentinel Asia (2006 - 2007)
 - STEP 2: Integration of Observation and Communication System (2008 - 2009)
 - STEP3: Disaster Risk Management System in Asia Pacific Region (2010-)



International Framework (1/4)

➤ Joint Project Team

– Possible Members

- ◆ Space agencies from APRSAF member countries
- ◆ Disaster management agencies from ADRC (Asian Disaster Reduction Center) member countries
- ◆ International organizations (UN-ESCAP, UNOOSA, UN-OCHA, ASEAN-SCOSA..)
- ◆ Research Organization related to disaster management
- ◆ Others (specialist etc.)

– Organization

- ◆ Core group
- ◆ Working Group



International Framework (2/4)

➤ Function of the Team

– System

- ◆ Identify possible database and metadata for this project
- ◆ Understand disaster management activities and the situation of capacity of agency Definition of the system concept and operation model

based upon the “Sentinel Asia”

- ◆ Develop a implementation plan for Step-1
- ◆ Investigate and clarify the handshake interface with user operational agencies

– Contents

- ◆ Level 1 Wildfire, flooding
- ◆ Level 2 should be identified

– Capacity building

- ◆ Study coordinated capacity building programs



International Framework (3/4)

➤ Duration

- The participating agencies and contact points should be identified by the end of December 2005
- The team will continue until December 2007, unless extended or terminated.



International Framework (4/4)

- Team meeting (tentative)
 - 1st project meeting in February 2006 (TBD) including teleconference
 - 2nd project meeting in July 2006 (TBD) including teleconference



Disaster Risk Management System –phased approach-

