



Sentinel Asia STEP-1 achievement and way forward to STEP-2

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Overall SA

- STEP-1 system development have almost done and SA Web site open to the public
- Establish JPT (52 organizations(44 agencies from 19 countries, 8 int'l organizations) involved), held JPTM#1-4 in last two years
- STEP-1 IP is formulated and adopted
- WG's start distribute datasets and info
- MTSAT imagery now available

WFD>> STEP-2 plan and New vision need further review by JPTM to be finalized coming APRSAF# 14, Consider JPT membership for STEP-2, Develop new IP, STEP-2 should be a robust system, Consider change the definition of SA to reflect disaster monitoring response system where data can be acquired for monitoring purposes, specific WG on technical activities, system for information based quick decision making system, interfacing with existing activities/initiatives for sharing information, agreed to consider a scheme to extend SA to end users through existing initiatives such as ASEAN-CDM. Initiate discussion between user nodes and international initiatives to expand the end users. Foster development of websites to reduce the burden of JAXA and adding local information to bring the services to users through user nodes. This could be considered in new ICT WG. ESCAP is considering to develop a system to bring users and user nodes to understand user needs.

SA Nodes

- 3 nodes defined (DPN, UN, REN)
- Every JPT member belongs to any of 3
- ISRO almost established DPN for AWIFS and IRS distribution
- GISTDA is preparing DPN for LANDSAT and THEOS distribution
- KARI, negotiating underway as DPN
- AIT, GISTDA in active as REN

WFD>> Strengthening and activating user nodes by setting up infrastructure dedicated for SA such as a website, or fax. User node need to take active role in educating users, adding values to satellite data

Outreach Activities

- **ACDR2006:** March 2006 Seoul, Korea
- **21st CEOS WGISS:** May 2006 Budapest, Hungary
- **49th UN COPUOS:** June 2006 Vienna, Austria
- **GEO SEA Disaster Geohazards Workshop:** June 2006, Kuala Lumpur, Malaysia
- **ASEAN COST+3:** August 2006 Kuantan, Malaysia
- **UN ESCAP Regional Working Group:** Sept 2006 Hong Kong, China
- **UN ESCAP High-level Expert Group Meeting:** October 2006 Taejon, Korea
- **UN ESCAP 12th ICC on RESAP:** October 2006 Taejon, Korea
- **GEOSS AP SYMPOSIUM:** January 2007 Tokyo, Japan
- **44th UN COPUOS STS:** February 2007 Vienna, Austria
- **Board MTG of International Disaster Charter:** April 2007 Tokyo, Japan
- **50th UN COPUOS:** June 2007 Vienna, Austria
- **ACDR2007:** June 2007 Astana, Kazakhstan

WFD>> Outreach to int'l community made SA widely known, on the other hands, need much more practical coordination with such as GEONetcast, Int'l Disaster Charter so on so far. For increasing SA Web site access, hyperlink with JPT member Web site, Synergy with CDM/ASEAN, User expansion with the cooperation with UNESCAP, Provide info through publication/website the usage of data. Discussion with international charter and JAXA is underway. Collaboration with SPIDER need to be considered. With the approval of memebrrs, JPTM secretariate will continue discussion on behalf of JPTM. Suggestion to breif at ASEAN COST+3 in Japan on 5th October about SA for wider acknowledgement of SA within ASEAN memembr countries.

Data Products & Distribution

- Web site info-sharing is in progress
- WebGIS, simple GIS, analyzed imagery, narrow band contents(JPEG, PDF) and MTSAT imagery are provided

WFD>> Visual and sophisticated user interface is recommended, Definition of data products and way of distribution, Survey of needs of users to identify data products, Data distribution via WINDS (only for users with dedicated terminals), Initiate Asia Broad Band Initiative, Consider data policy individually,

Emergency Observation

- Basic scheme is formulated
- 10 of 11 Emergency observations have done by responding JPT member requests through ADRC

WFD>> Guideline and timeline of emergency operation (not only for ALOS) have to be clarified. Feedback from users should be a mandatory. Products such as GeoTIFF, JPEG are recommended. JAXA provides processed data for SA users. Provision for raw data or standard products need to be discussed further. Support with tools and documentation of data handling is requested. User requirements could be diverse and need to make a survey of needs. User-node could help developing products required by users based on data received by JAXA and other agencies.

Working group activities

- MODIS hot spots on Web site tentatively available, validation campaign and algorithm improvement are underway
- GFAS precipitation data and long term accumulated precipitation data are providing on WebGIS

WFD>> Expand application of Early warning, DEM needs to flood preparedness, New WG will be proposed (ICT, Data utilization and User I/F) as recommendation for APRSAF

Establish Fire Expansion Forecasting system, Improvement of Fire Danger Index, Establish Smoke Disposal Forecast, Develop Global Satellite based Hourly 10km grid data, Provide flood forecasting and mapping software, Create DEM of flood prone area (ALOS)

Capacity Buildings

- 1st SA system operation training (emergency operation activation) have done with 12 trainee from 10 agencies, 9 countries.
- ‘Mini project’ is being carried out for 10 projects of 10 countries (Bhutan, Bangladesh, Cambodia, Indonesia, Lao-PDR, Myanmar, Nepal, Sri Lanka, Vietnam, Philippines)

WFD>> 2nd training involves new users, and expand training for how to use satellite imagery, GIS application. Expand application to Early warning, Support local languages, CB for data use of flood and land slide analysis, drought, cyclone etc.

Others

- New JPTM candidates and approval Philippines; (OCD-DND, NAMRIA), BSWM, MGB-DENR, PAGASA, PCASTRD, PHIVOLCS)

Bhutan; Department of Survey and Land Records, Ministry of Home & Cultural Affairs)

- e-sentinel: 3 presentation was done explaining the concept, system and products. Requested to identify the link between SA and e-SA and to consider alert systems, data formats and collaboration with present initiatives