MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT
Disaster Management Center in Vietnam

GEOSPATIAL APPLICATION ON
DISASTER MANAGEMENT IN VIETNAM

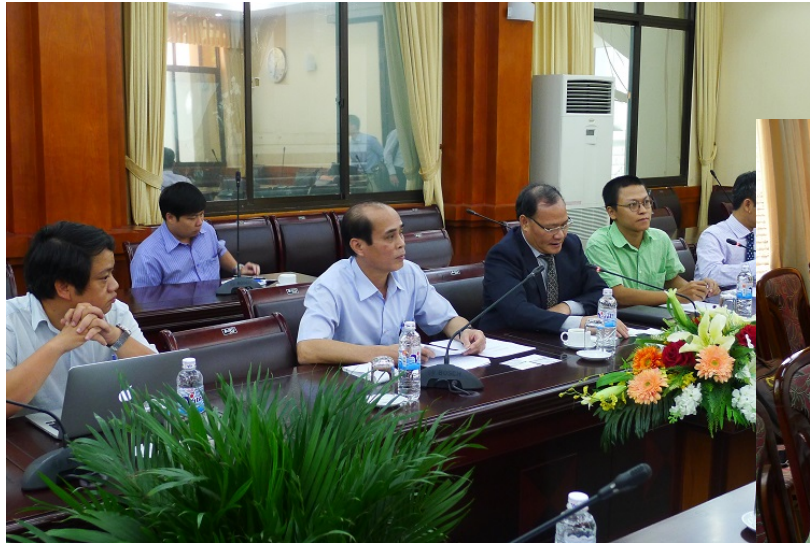# UN-SPIDER Technical Advisory Mission to Vietnam (25-29/3/2013).

The purpose of mission is to support Vietnam in improving disaster risk management and emergency response by *effective use of space technology applications and proposing recommendations* by taking account of relevant issues such as data sharing, national spatial data infrastructure, policy level interventions and capacity building

JAXA - Miniproject of RS and GIS application in developing inundation map for emergency response

Cooperation between Water Resources Directorate, Space Technology Institution, Asian Technology Institution and JAXA to implement miniproject *for capacity buiding of WRD, STI (training and research in AIT)*
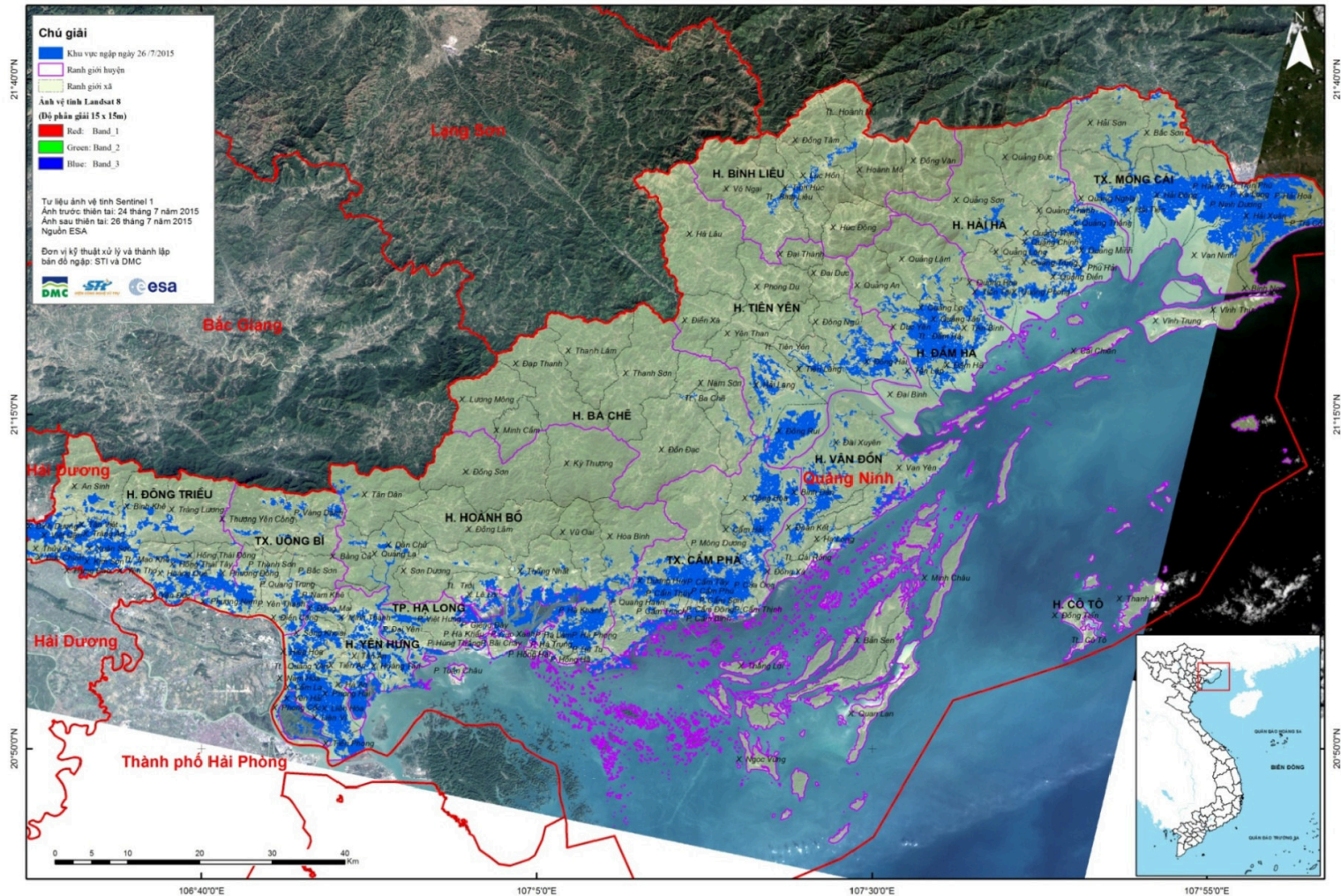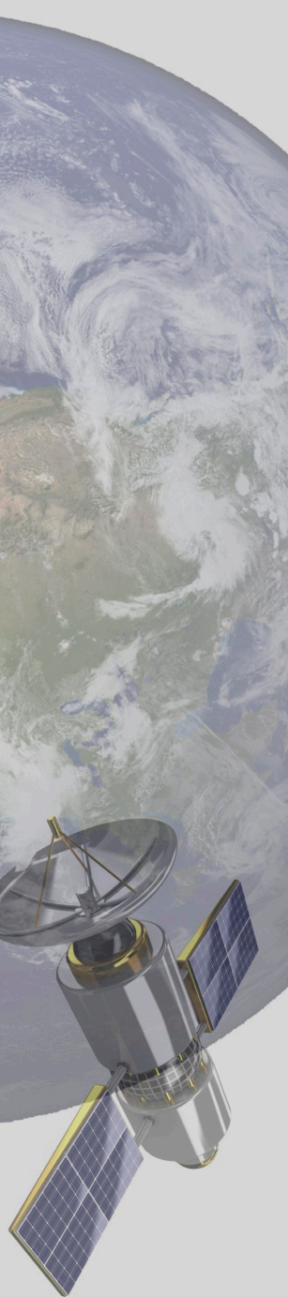
Implementing some recommendation of UNSPIDER TAM in 2013: Experience of Data sharing, identifying data needed and planing next year cooperation
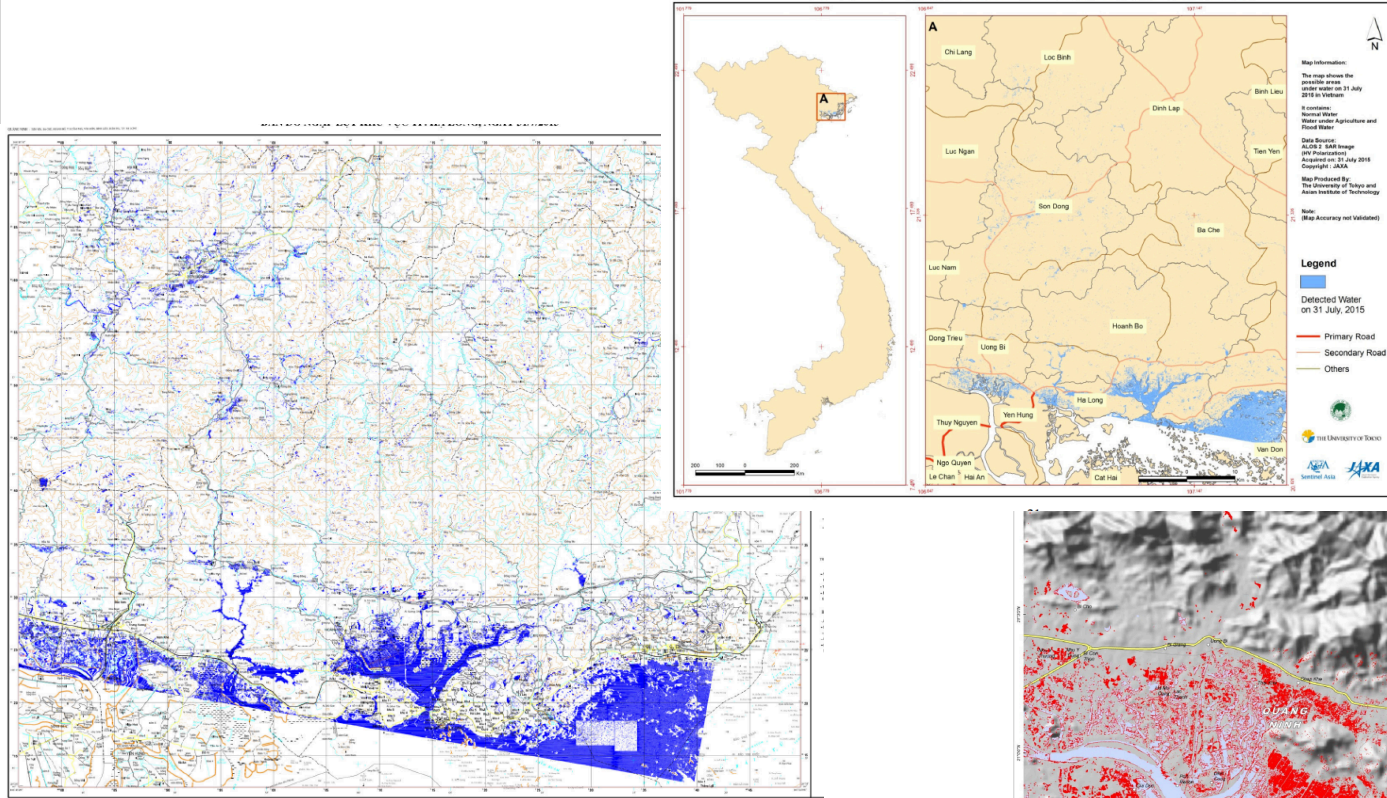
Inundation map in Quang Ninh province, 26/7/2015.

DMC and STI had cooperated in developing inundation map by heavy rain in Quang Ninh province (26/7/2015) using satelite image of Sentinel 1 (SAR) from ESA

Area under Water, Detected by ALOS 2, July 31, 2015, Vietnam
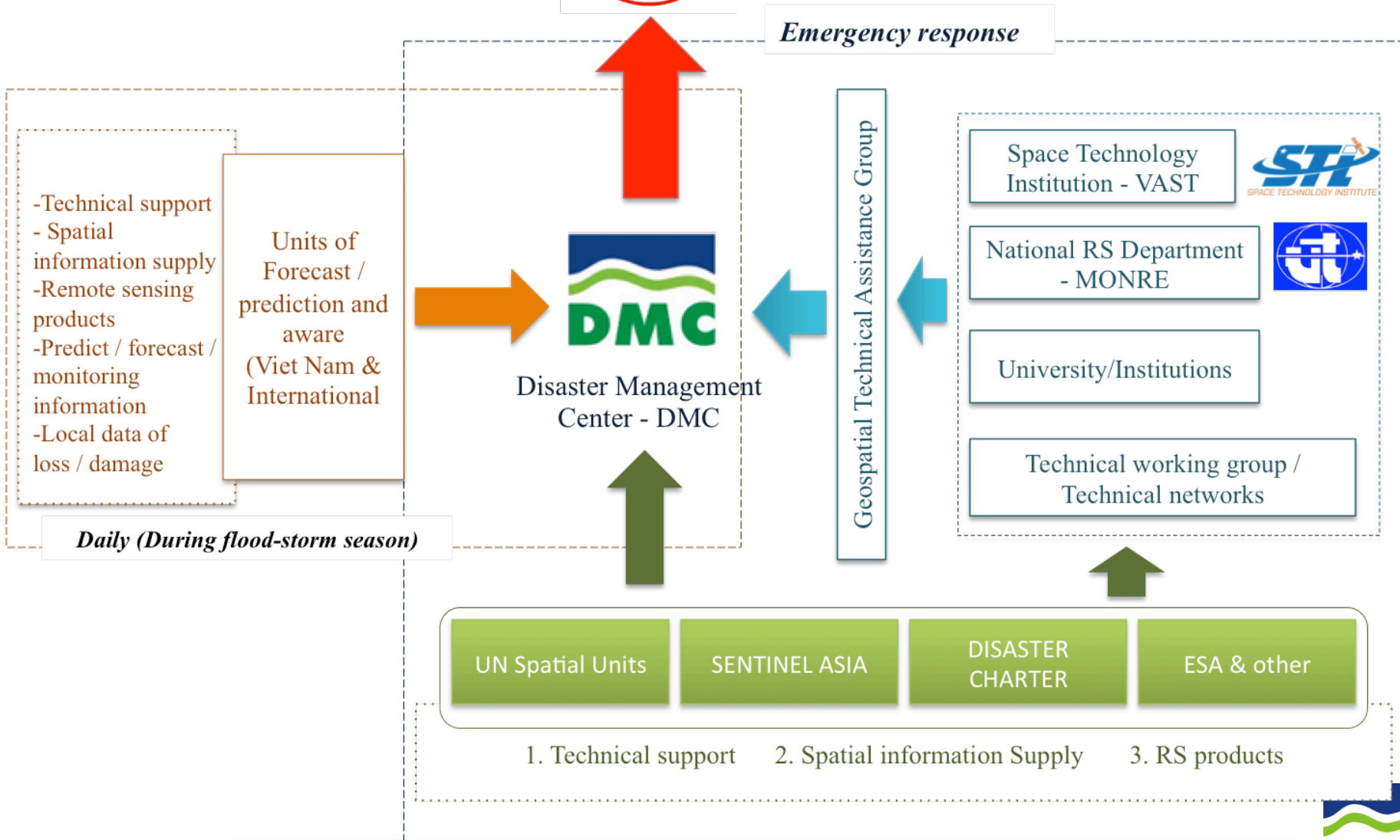
Inundation Map had been producted by National RS Department of Ministry of Natural Resources and Environment (MONRE), AIT, UNOSAT and providing to DMC for reporting to National Committee for Disaster Prevention and Control

DMC
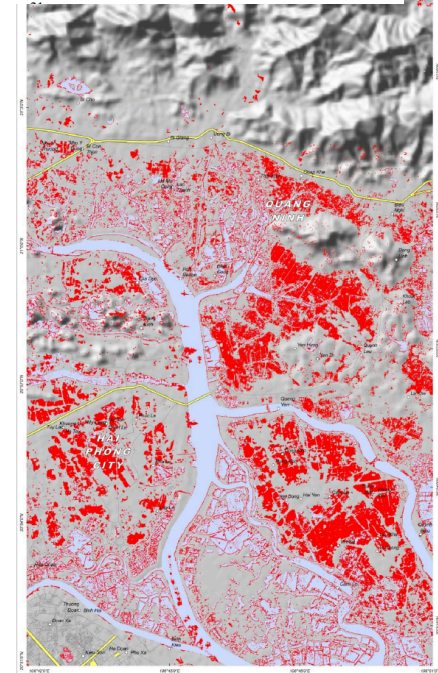
Standing Office of National Committee for Disaster prevention and Control

Emergency response

Geospatial Technical Assistance Group

Space Technology Institution - VAST

National RS Department - MONRE

University/Institutions

Technical working group / Technical networks

Units of Forecast / prediction and aware (Viet Nam & International

DMC

Disaster Management Center - DMC

-Technical support
- Spatial information supply
-Remote sensing products
-Predict / forecast / monitoring information
-Local data of loss / damage

Daily (During flood-storm season)

UN Spatial Units

SENTINEL ASIA

DISASTER CHARTER

ESA & other

1. Technical support   2. Spatial information Supply   3. RS products

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Memorandum of Understanding Signing Ceremony
Cooperation on Disaster reduction and prevention by Space Technology and GIS

Water Resources Directorate (WRD) – Ministry of Agriculture and Rural Development (MARD)
Vietnam Academy of Science and Technology (VAST)
Japan Aeospace Exploration Agency (JAXA)

Memorandum concerning Cooperation on Disaster reduction and prevention by Space Technology and GIS

1. Development of a database system by past satellite imageries of Vietnam for disaster management.
   JAXA will provide satellite data through Sentinel Asia Step 3 activities for the database system of which WRD is in charge with technical support of VAST.

2. Exchange of satellite data when disaster happens.
   JAXA will provide satellite data owned by JAXA, such as, including but not limited to, ALOS-2 data for WRD and/or VAST upon request of WRD and/or VAST through Sentinel Asia. VAST will provide satellite data owned by VAST, such as, including but not limited to, VNREDSat, for Sentinel Asia Step 3 Activities.

DMC

Memorandum concerning Cooperation on Disaster reduction and prevention by Space Technology and GIS

3. Strengthening the capacity of application of remote sensing and GIS technology for disaster management in Vietnam.

WRD and VAST will enhance capability of remote sensing and GIS technology for disaster management by hosting training opportunities with technical trainings provided by JAXA.

4. Development of programs and projects on application of remote sensing and GIS technologies for disaster management.

WRD and VAST will develop programs and projects on application of remote sensing and GIS technologies for disaster management in Vietnam. JAXA will support WRD and VAST by the effort of a), b) and c) for the achievement of their projects.
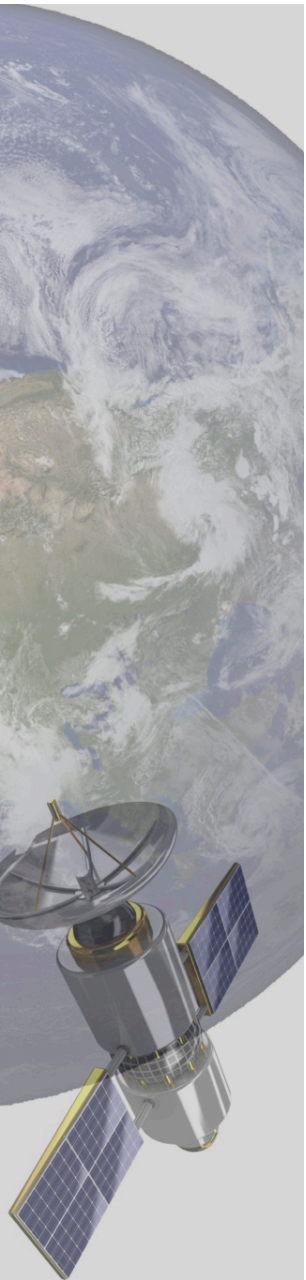
NEXT STEPS

1. Development of plan applying geospatial technology for disaster risk management
2. Development of operational process of thematic map for disaster risk,management (presently focus on flood, storm and drought), sharing of data, particularly in emergency relief
3. Development of geospatial technical assistance group
4. Development and implementation of the memorandum of understanding (mechanism of sharing data, technical assistance, development of human resource)
5. Development of plan collecting, analyzing, managing data and products from sources and integration into early warning system and other related systems
6. International cooperation

DMC
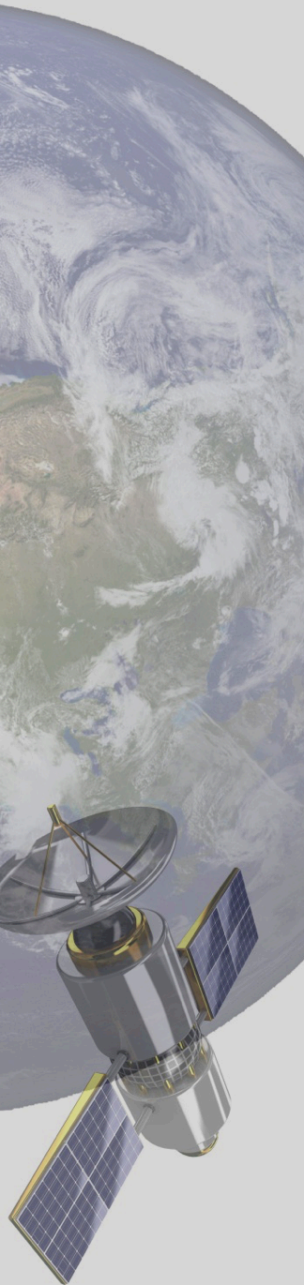
THANK FOR YOUR KIND ATTENTION !!

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