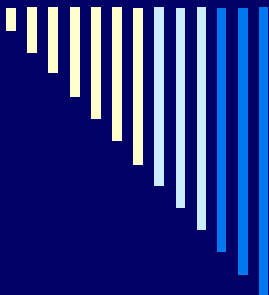



Disaster Management in Indonesia

<http://www.bakornaspbp.go.id>



DISASTER IN INDONESIA (JANUARY 2002 - JUNE 2006)

No	Type of Disaster	Occured	Total Victims				
			Dead	Lost	Injured	Injured	Displacedi
1	2	3	6		7	8	9
1	Flood	986	921		46	333	3.167.854
2	Landslides	196	545		37	10	27.645
3	Earthquake	41	6.936		1.038	691	2.423.662
4	Earthquake & Tsunami	1	128.858	37.066	8.352	150.266	522.462
5	Volcano Eruption	17	6				124.699
6	Fire	230	76				54.182
7	Wild fire	37	8				1.460
8	Cycloon	197	23				123.539
9	Epidemic	86	86				
10	Social Conflicts	33	2.227		548	183	48.793



Organization Structure

BAKORNAS PB

National Coordinating Board
Chaired by Vice President

SATKORLAK PB

Provincial Coordination Unit
Chaired by Governor

SATLAK PB

**District / Municipal
Implementing Unit**
**Chaired by Mayor/Head of
District**



Disaster Management Organization in Indonesia

- **BAKORNAS PB** is a national coordinating board for disaster management, chaired by Vice President.
 - **SATKORLAK PB** is provincial coordinating unit for disaster management, chaired by Governor in the respective area.
 - **SATLAK PB** is a district or municipal implementation unit for disaster management, chaired by Bupati or Mayor of the city.
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BAKORNAS PB

- **Chairman: Vice President**
- **Vice chairmen:**
 - Co-or. Min. Peoples Welfare
 - Minister of Home Affairs
- **Members :**
 - Minister of Energy & Mineral
 - Minister of Social Affairs
 - Minister of Health
 - Minister of Public Works
 - Minister of Finance
 - Minister of Transportation
 - Minister of Comm. & Information
 - Armed Force Commander
 - Chief of National Police
 - Chairman of Red Cross
- **Secretary :**
 - Chief Executing Officer

Duties:

Formulating and stipulating policies in disaster management

Coordinate the implementation and monitoring activities in disaster management

Rendering guidance and direction on disaster management

ROLE OF BAKORNAS PB

DISASTER MANAGEMENT

**COORDI-
NATION**

**PREVENTION
MITIGATION
PREPAREDNESS**

BEFORE

**COMMAND
CONTROL
COORD.**

**EMERGENCY
RESPONSE**

DURING

**COORDI-
NATION**

RECOVERY

AFTER



Policies

- ❑ Strengthen national capability in disaster management, especially in prevention, mitigation and preparedness.
- ❑ Manage and mobilize all potential resources (infrastructure and manpower) in disaster preparedness, responds and recovery
- ❑ Empower local authorities in anticipating and responding disaster in their regions.
- ❑ Coordinate all stakeholders and activities in disaster management.
- ❑ Incorporate disaster risk reduction in the framework of national development plan.



Strategy

- ❑ Disseminate disaster risk reduction and strengthen capacity through training and education.
- ❑ Prepare disaster legislation, regulations and standard operating procedures
- ❑ Set up disaster management information systems
- ❑ Disseminate hazard mapping and risk assessment
- ❑ Set up disaster management plan in all levels
- ❑ Strengthen National/Provincial/District Emergency Operation Center and Rapid Response Team.
- ❑ Strengthen local capacity in disaster recovery



Program Priorities

- **Disaster Management Bill**
 - Now in progress, being prepared by Parliament
 - **Re-organization of DM institution structure**
 - Council or Coordinating Board (policy)
 - Agency or Implementing Unit (operational)
 - **Disaster Management Plan**
 - Set up Disaster Preparedness Plan and Contingency Plan
 - **Public Awareness**
 - Information, Education, Training and Drilling
 - **Risk Assessment**
 - Hazard, Vulnerability and Risk mapping at local level
 - **Early Warning Systems**
 - Monitoring, Analysis, Warning and Dissemination
 - **Operation Centers**
 - Set up Operation Centers in National, Provincial and Local level
-



Contribution of Satellite Data to Disaster Management

- Pre Disaster
 - Risk Assessment
 - Early Warning
 - Land-use / Spatial Planning
 - During Disaster
 - Site Identification
 - Support the Operation Center
 - Post Disaster
 - Damage assessment for recovery plan
-



Use of Satellite Image Data Pre Disaster

□ Risk Assessment

- Risk Mapping for all districts / municipalities, multi-hazards, especially disaster prone areas

□ Early Warning

- Identification and detection of initial hazard

□ Land-use Planning

- Integration of risk assessment and mapping in the local land use planning.
-

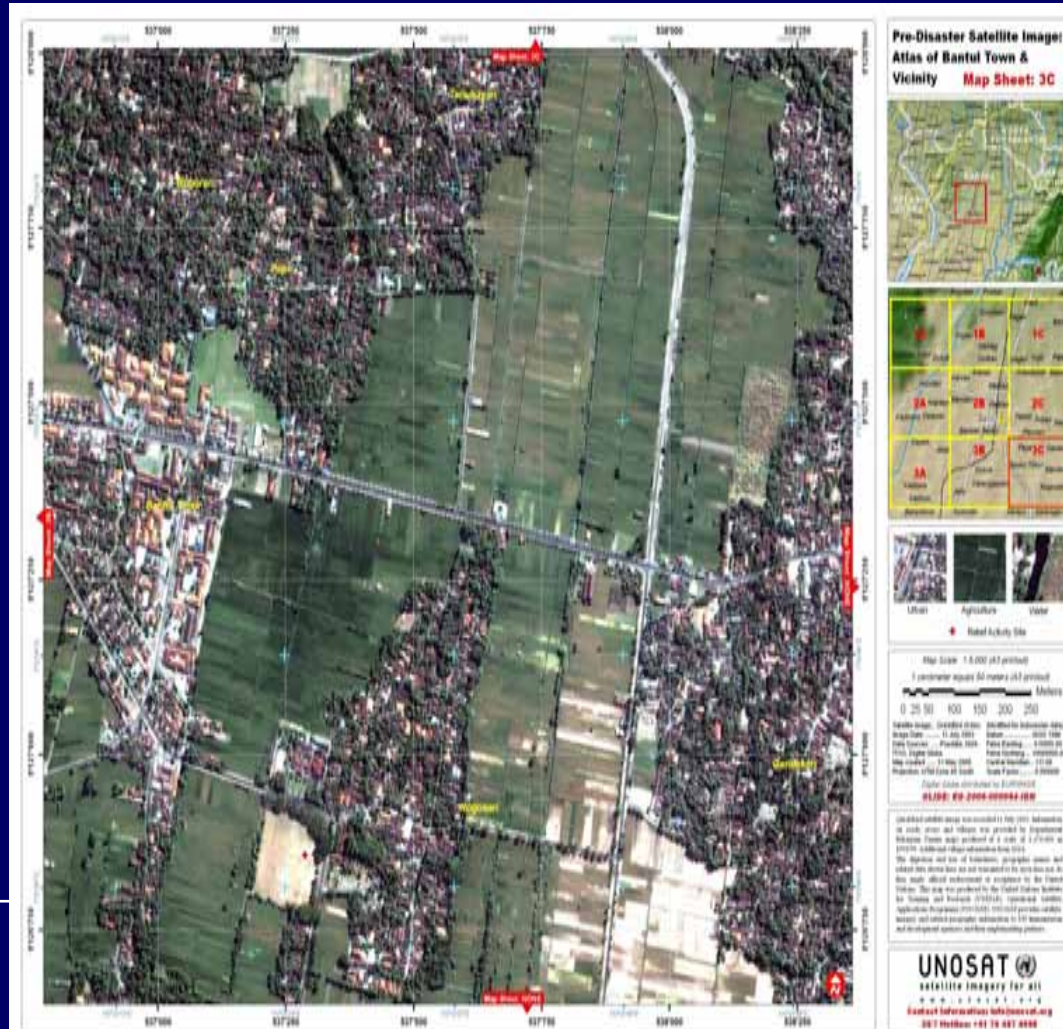


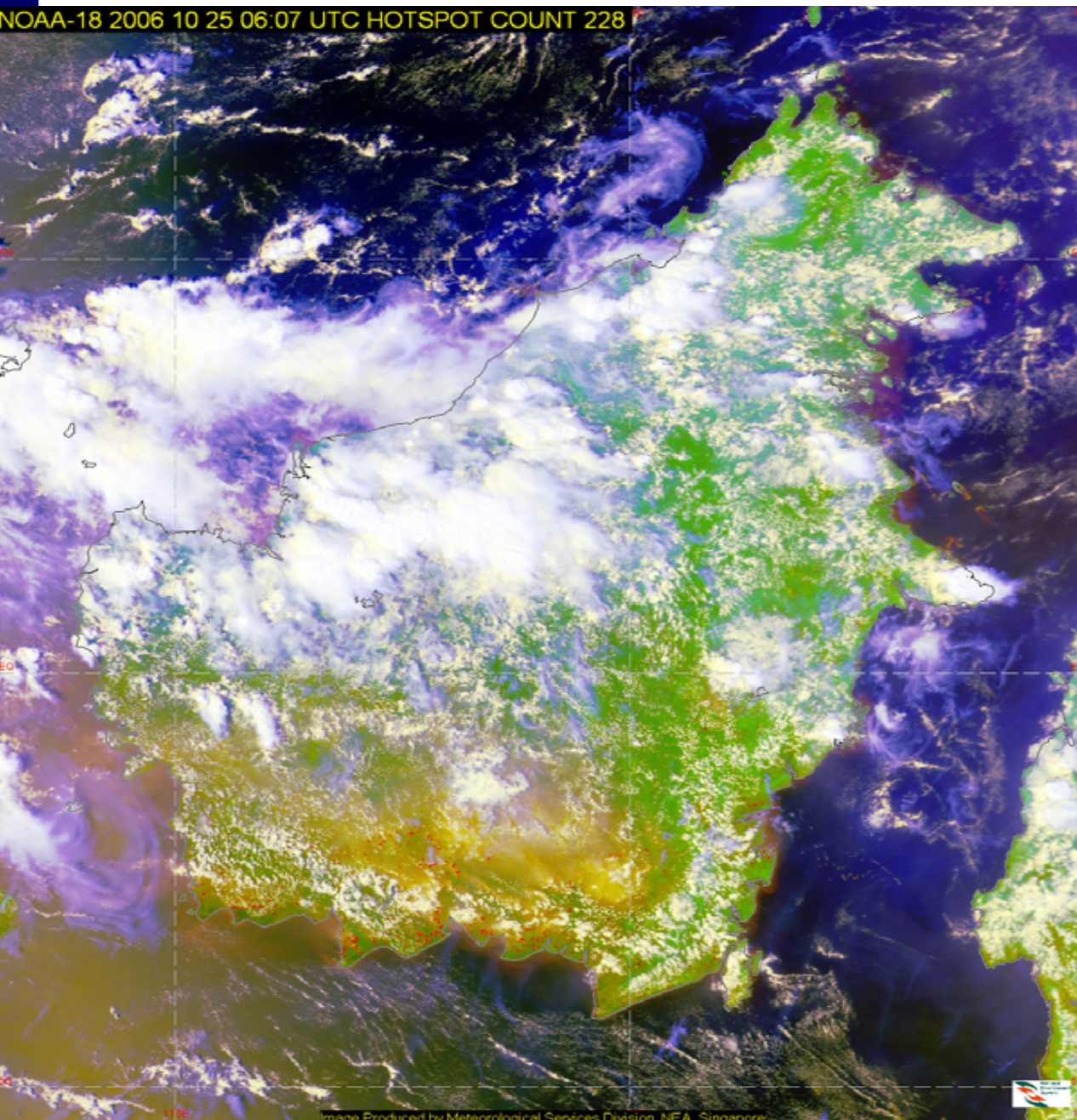
Related Institutions

Risk Assessment and risk mapping	<ul style="list-style-type: none">-Research institutes (BAKOSURTANAL, BPPT, LIPI, LAPAN, PU, ESDM etc.)-Universities
Early Warning	BMG, LAPAN, ESDM, PU, DEPHUT, KLH
Land-use / spatial planning	PU, DEPHUT, DEPTAN, BPN, BAPPEDA

Use of Satellite Image Data in Emergency Response

- Site Identification
 - Delineate the location of affected area
 - Spread out of disaster impact
 - Damage assessment
 - Mobilization of resources





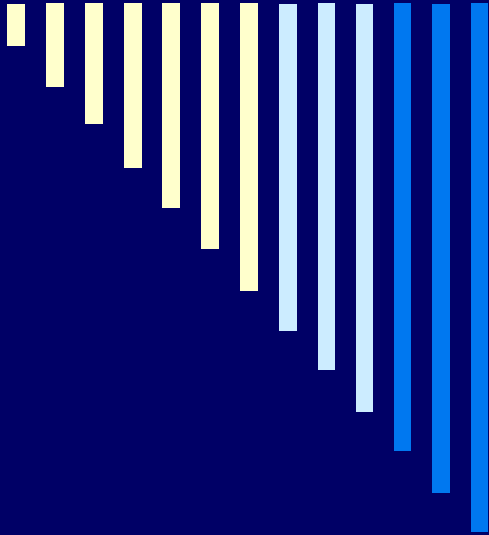
Example

- Identification of hotspot on forest fire suppression by water bombing in Kalimantan, October 2006



What we need?

- ❑ Access to the provider, to get a real time data of the affected area during disaster.
 - ❑ Quick analyze of satellite data to be provided to the decision maker.
 - ❑ To support the Operation Center with the satellite data map.
 - ❑ To strengthen the capability of personnel in using satellite data technology.
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Thank you

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