INDONESIA

NATIONAL COORDINATING BOARD FOR DISASTER MANAGEMENT– INDONESIA
(BAKORNAS PB)

FLOW OF PRESENTATION

- COUNTRY PROFILE
- TYPE OF DISASTER
- DISASTER OCCURRENCES DATA 2006-2007
- CURRENT STRUCTURE OF BAKORNAS PB
- POLICY AND STRATEGY OF FLOOD
- MITIGATION OF FLOOD AND DISASTER RISK REDUCTION

COUNTRY PROFILE

- Total area 5.2 million km2
  1.9 million km2 of land (17.583 islands)
  3.3 million km2 of sea/ocean
- The distance from the west to east edge 5110 km
- There are 3 different time zone
- Islands 17,583 where 6702 no name
- River more than 5800, 500 big rivers 30 % of it crossing densely populated area
- Volcanoes 128, 79 active
- Two seasons ; rainy and dry
- Population 230 million
- Provinces 33 ; districts/regencies 465; villages 62806

TYPE OF DISASTER

- Natural
- Non-natural
  - Social

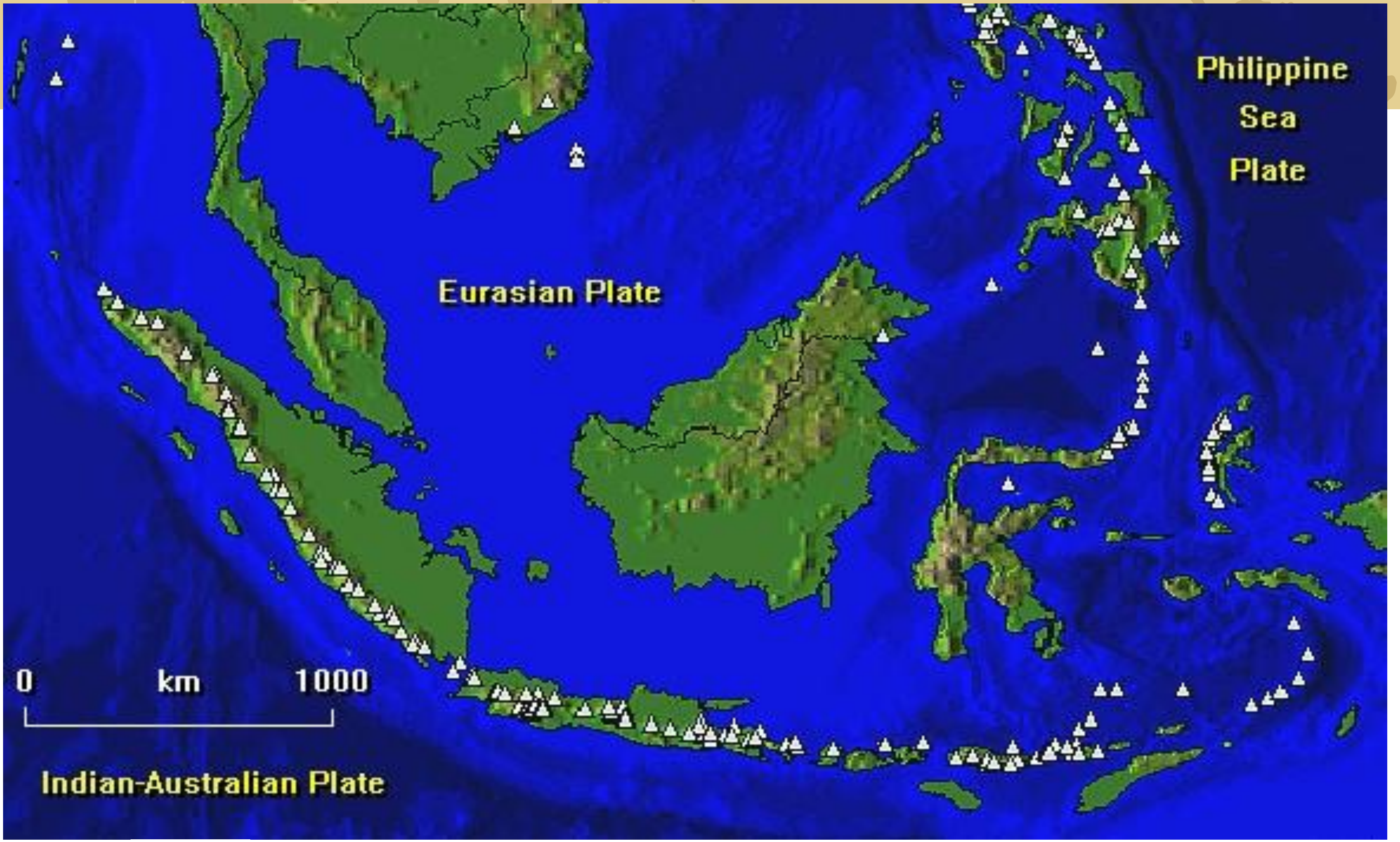
Natural Disaster

- Earthquakes
- Tsunamis
- Volcanic eruptions
- Floods/Flash Floods
- Landslides
- Fires
- Droughts
- Typhoons

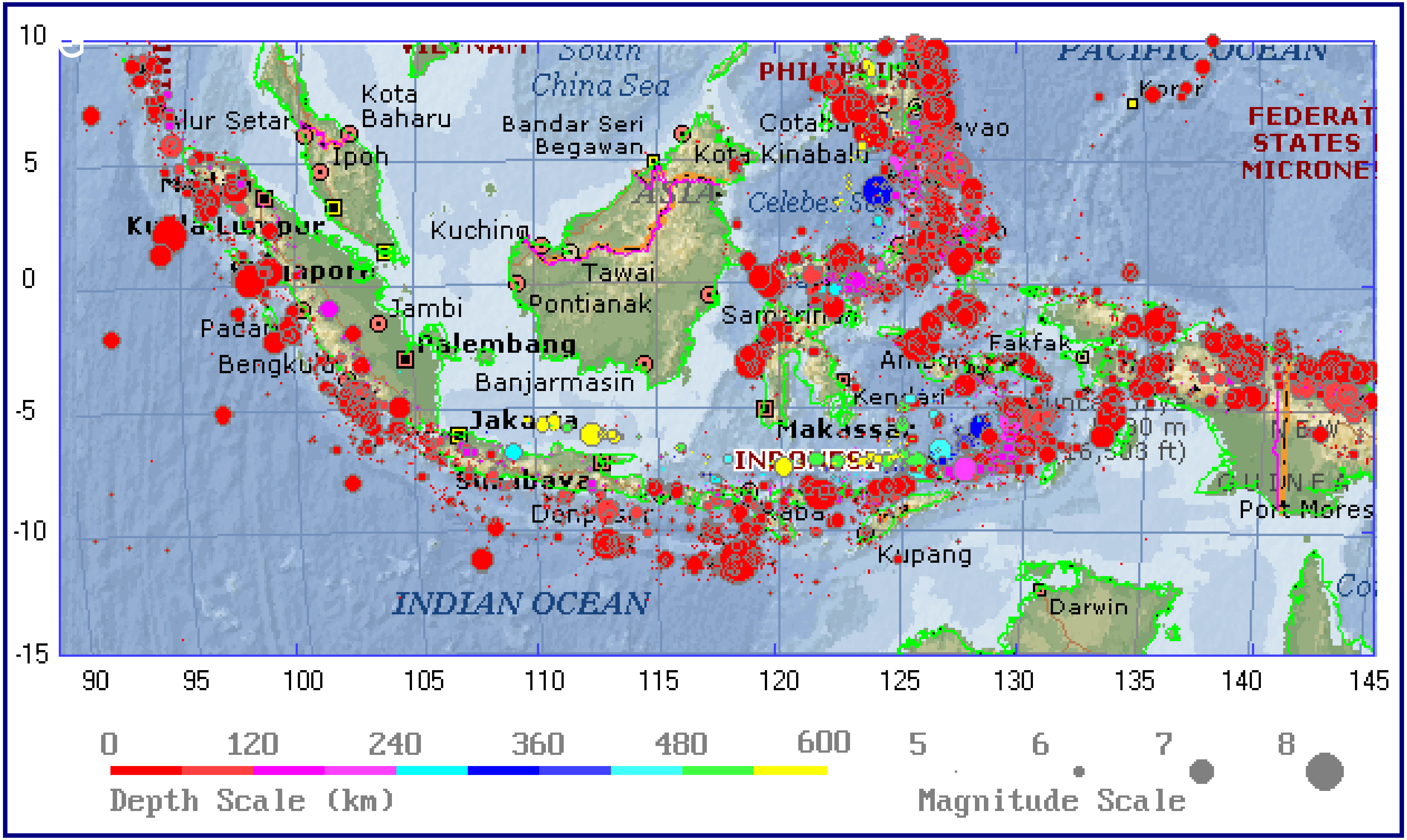
Non-Natural Disaster

- Technological failures
- Modernization failures
- Epidemics
- Social Conflict

ACTIVE VOLCANOES MAP IN INDONESIA

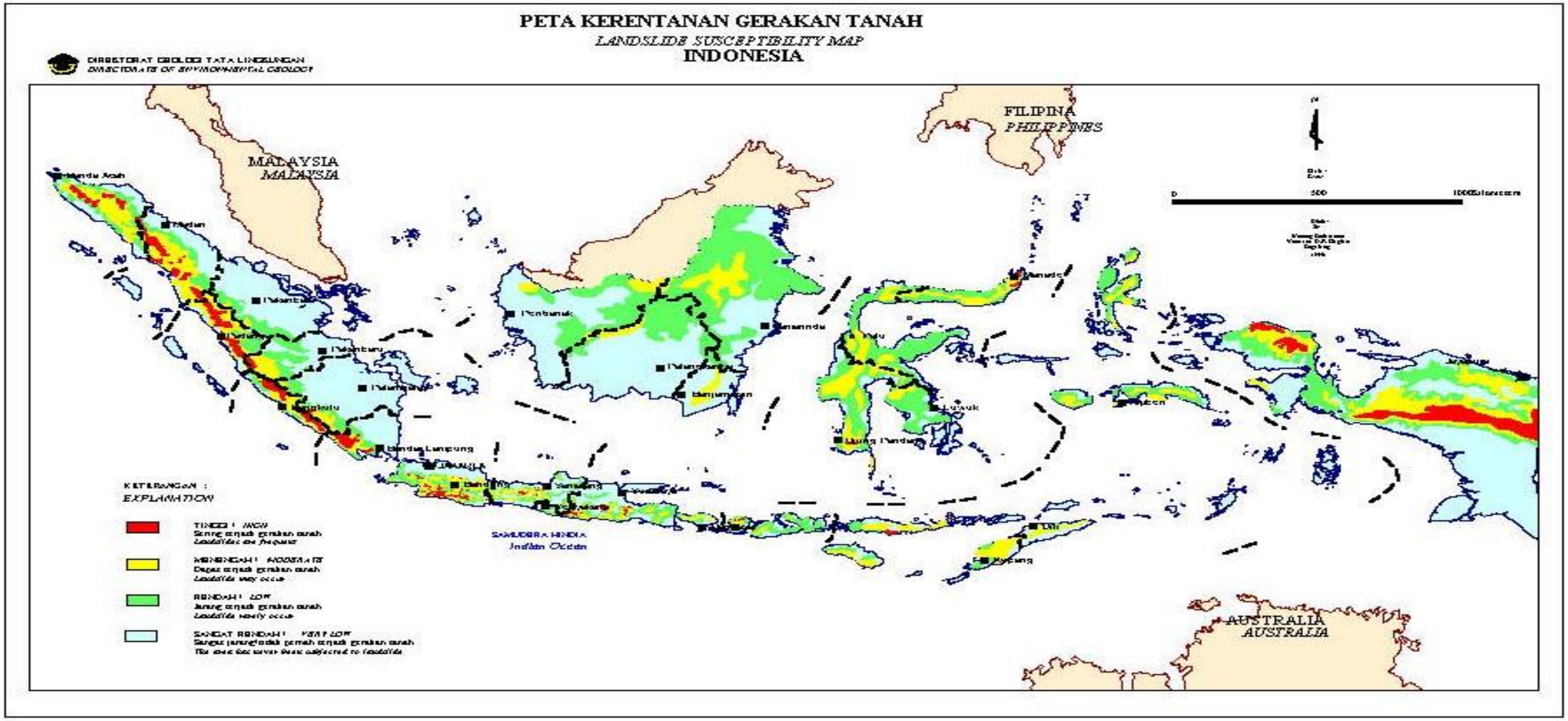


SEISMICITY MAP IN INDONESIA

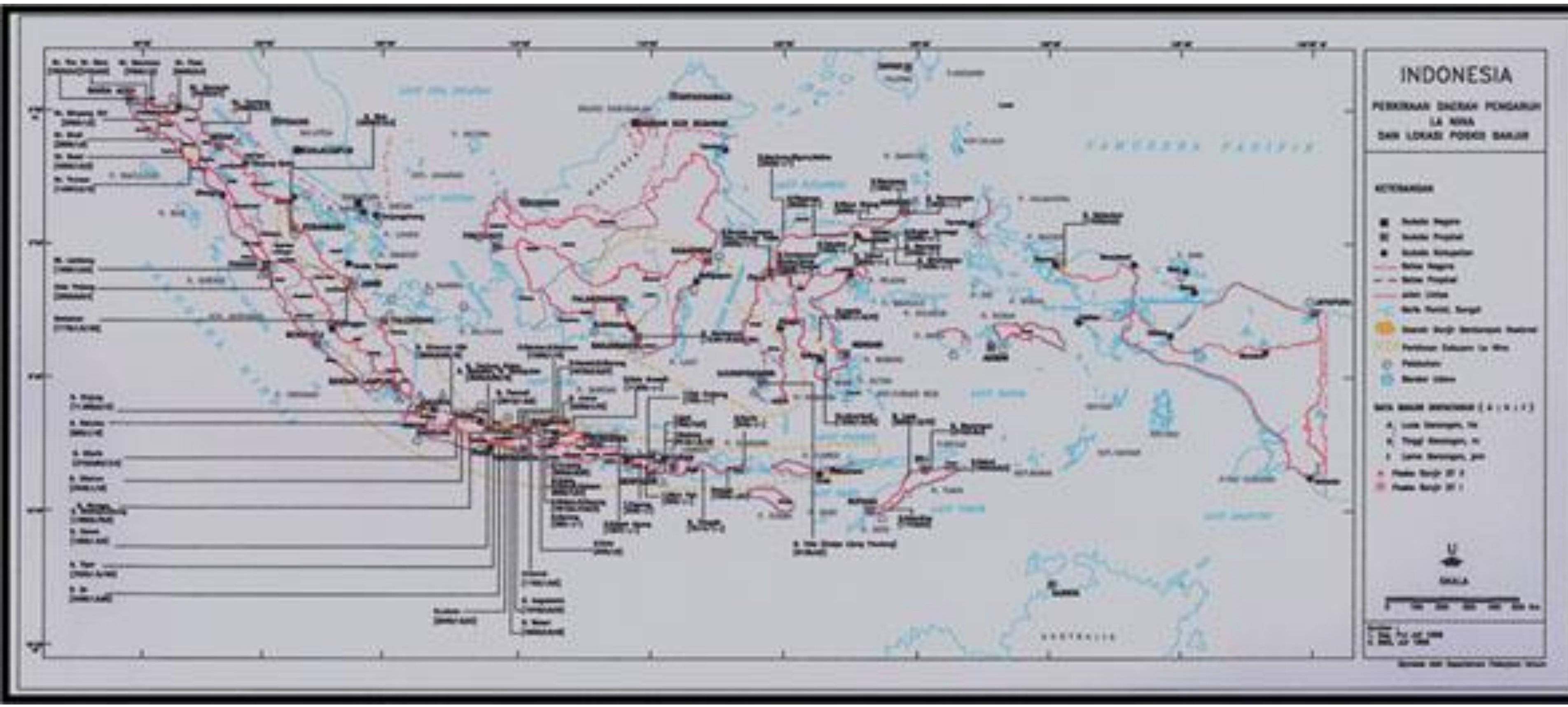


TSUNAMI HAZARD MAP

LANDSLIDE PRONE MAP



FLOOD PRONE AREA



DISASTER OCCURRENCE DATA

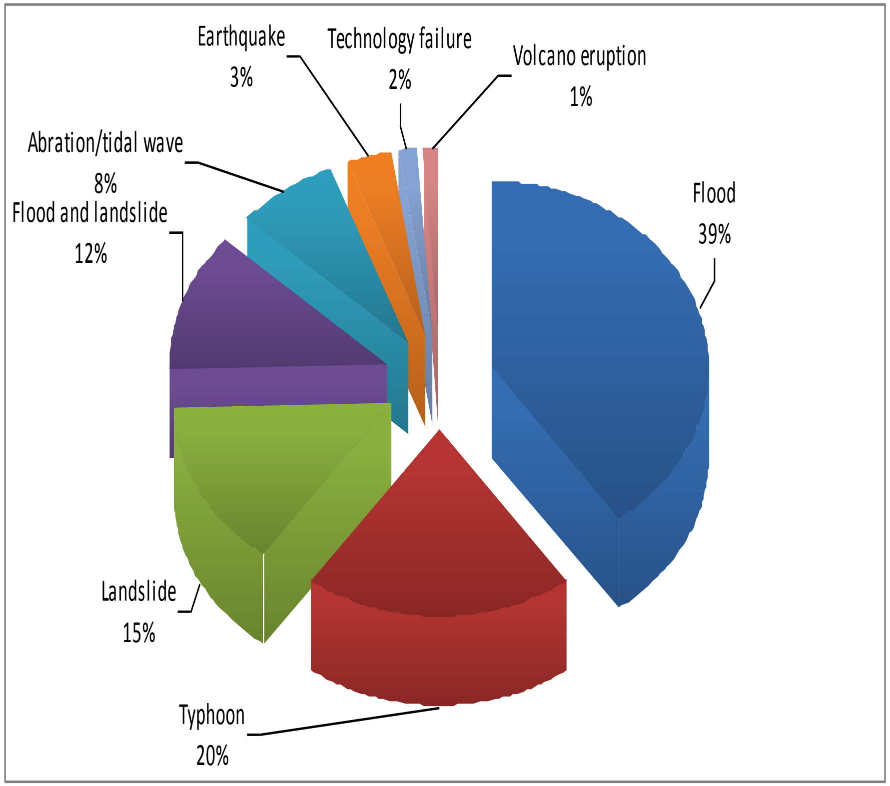
YEARS 2006

No	Type of Disaster	Frequency	Death and Loses	IDP's	Damage/House
1	Terorism	2	8	-	-
2	Thypon	67	10	8.009	6.244
3	Flood	312	390	673.094	52.057
4	Flood and Landslide	27	188	277.226	7.626
5	ROB/Abrasi	14	-	9.144	551
6	Eartquake	19	5.789	2.125.386	611.538
7	Eartquake and Tsunami	1	683	6.727	2.362
8	Fires	38	11	4.795	3.078
9	Teknology Failure	18	562	13.463	10.426
10	Drought	184	-	-	-
11	Social Conflict	3	6	572	-
12	Eruption	4	2	41.226	1
13	Climate Change	1	95	-	-
14	Landslide	73	247	13.495	2.392
Total		**763**	**7.991**	**3.173.137**	**696.289**

Disaster Occurred in Indonesia 2007

Type of Disaster	Frequency	Loses and dead victims	IDP's	Number of House damage
Flood	152	122	1,561,640	41,301
Typhoon	75	24	11,058	9,286
Lanslide	56	73	7,488	2,685
Flood and Lanslide	45	346	113,367	7,883
Abration/Tidal wave	29	3	23,779	1,713
Eartquake	12	102	204,447	145,595
Technology Failure	6	248	-	-
Volcano Eruption	4	-	19,818	-
TOTAL	379	918	1,941,597	208,463

*) = death and missing victims



CHALLENGES

Shifting the paradigm and approaches in disaster management from:

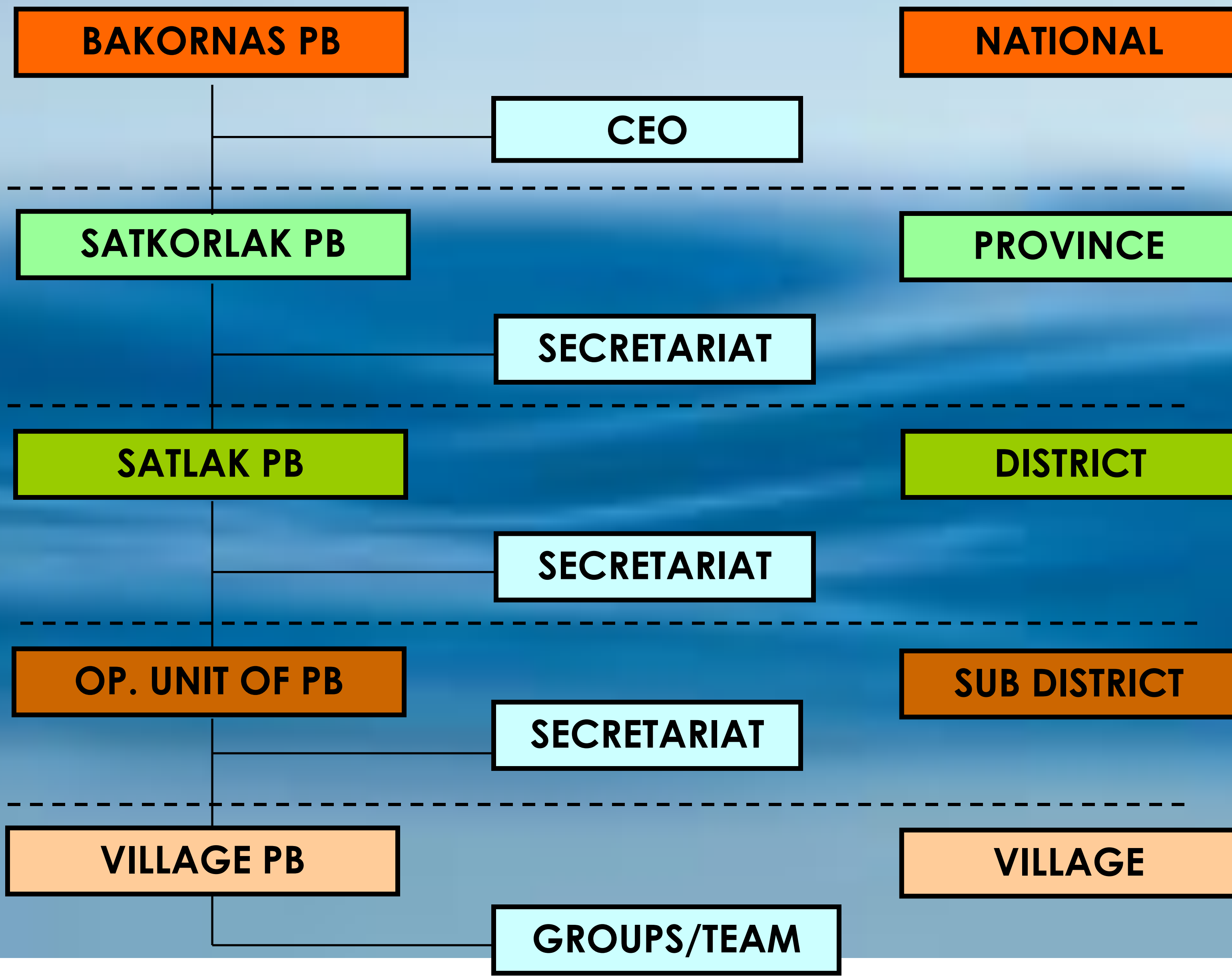
- Response to Prevention
- Sectoral to Multi-sector
- Centralized to Decentralized
- Conventional to Holistic / Comprehensive
- Government driven to Community based

Disaster Management Institution

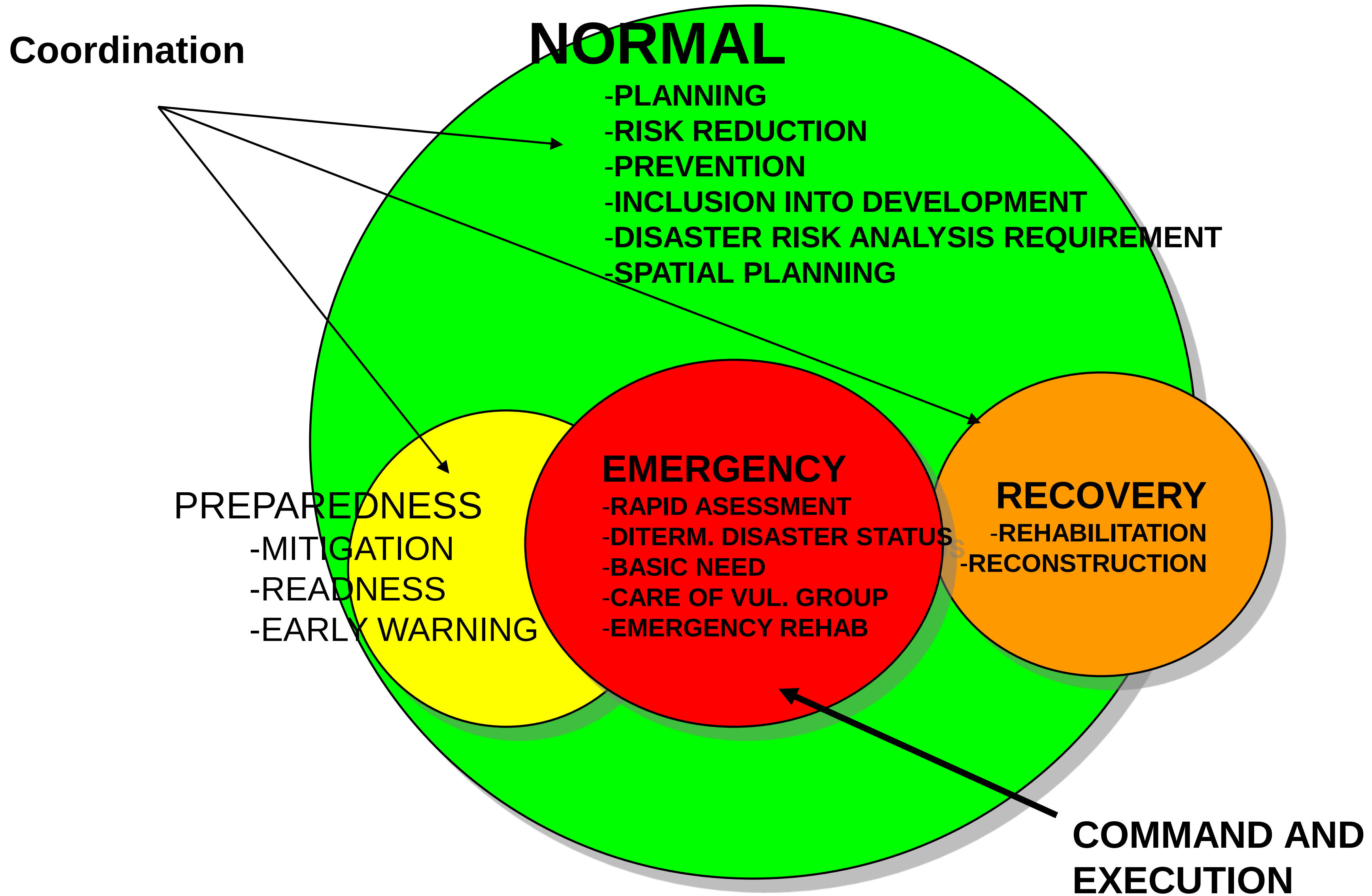
Year	Name of Institution	Legal
1961	Centre for Natural Disaster Management (PPBA)	Keppres 54/1961
1965	Centre for Natural Disaster Management (PPBA)	Keppres 312/1965
1966	National Board to Support Natural Disaster Management (BP2BA)	Keppres 256/1966
1967	Coordination Team for Natural Disaster Management (TKP2BA)	Kep. Presidium 14/U/Kep/1/1967
1979	National Coordinating Board for Natural Disaster Management (BAKORNAS PBA)	Keppres 28/1979
1990	National Coordinating Board for Disaster Management (BAKORNAS PB)	Keppres 43/1990
1999	National Coordinating Board for Disaster Management (BAKORNAS PB)	Keppres 106/1999
2001	National Coordinating Board for Disaster Management and IDP's (BAKORNAS PBP)	Keppres 3/2001 jo Keppres 111/2001
2005	National Coordinating Board for Disaster Management (BAKORNAS PB)	Perpres 83/2005 jo 03/2007
2007	National Board for Disaster Management (BNPB)	UU No. 24/2007

Keppres = Presidential Decree
Perpres = Presidential Regulation
UU = Legistilative Decree

CURRENT STRUCTURE



ORGANIZATION OF DISASTER MANAGEMENT



Policy and Strategy of Flood in Indonesian

Policy

- Disaster management responsibility is an central governmnet/province/ district depend to leveling disaster
- Disaster management in districts to be general responsibility of regent and the provincial to be general responsibility of Guvernor
- Disaster management to care the local wisdom
- Disaster management is early to activity implemented to eliminate or reduce hazard, the prioritised of human
- The most important to protection of vulnerable groups

Strategy

- Aktivate Pos Command to monitoring and manage of operation management emergency response
- The coordination with another sector to prepare all resources
- Rescue and evacuation of impacted community by rapid response team
- Rapid and targeted assessment of location, damage and resources
- Mobilized all resources and priority resources with local potential
- Mobilized element TNI dan POLRI for support implementation of operation emergency
- Giving information to local community

MITIGATION OF FLOOD AND DISASTER RISK REDUCTION

- Mitigation non structural

  establishment group work, recomondation for upgrading infrastructure and tool, control flood, map flood disturbed, planning and SOP (Standard Operation Procedure), disaster management plan for flood, giving information to local community, education for community

- Mitigation structural

  development wall embanked as far as rivers, arrangement speed water, reboisastion, development sodetan/kanal, development dam (reservoir), exploition river, upgrade drainase

- Community Based Disaster Risk Management

  gladi, training, mapping vulnerablility hazard .ect

Flood

Flash Flood

Bahorok

LOGISTIC

- **12 Regional Logistic Depo**

FLOOD

2007

Jakarta’s Flood

- Occurence
  - February 2007
- Victims
  - Death 68 person
  - IDP’s 775.659 person
- Damages
  - House 70.089 unit
  - Sink house 101.782 unit

BACK

FLOOD (ROB) – JAKARTA
(25 November 2007)

- Occurence
  - *High water ± 150-200 cm in subdistricts Penjaringan, Muara Baru North Jakarta*
  - *Banjir terjadi karena gelombang pasang*
  - *At Sunday, 25 November 2007 time 12.00 am*
- Victims
  - *House : 5 unit (serious damaged)*
  - *When there is no victim but make economic problem in social community*
- Management effort
  - *The most important evacuation for susceptibility citizen*
  - *The build a dike ocean in several Prof. Sediyatmo toolroad*

NAD's Flood
(7 December 2007)

- Occurrence

  Heavily rain for 2 days and overflow few rivers in NAD Province

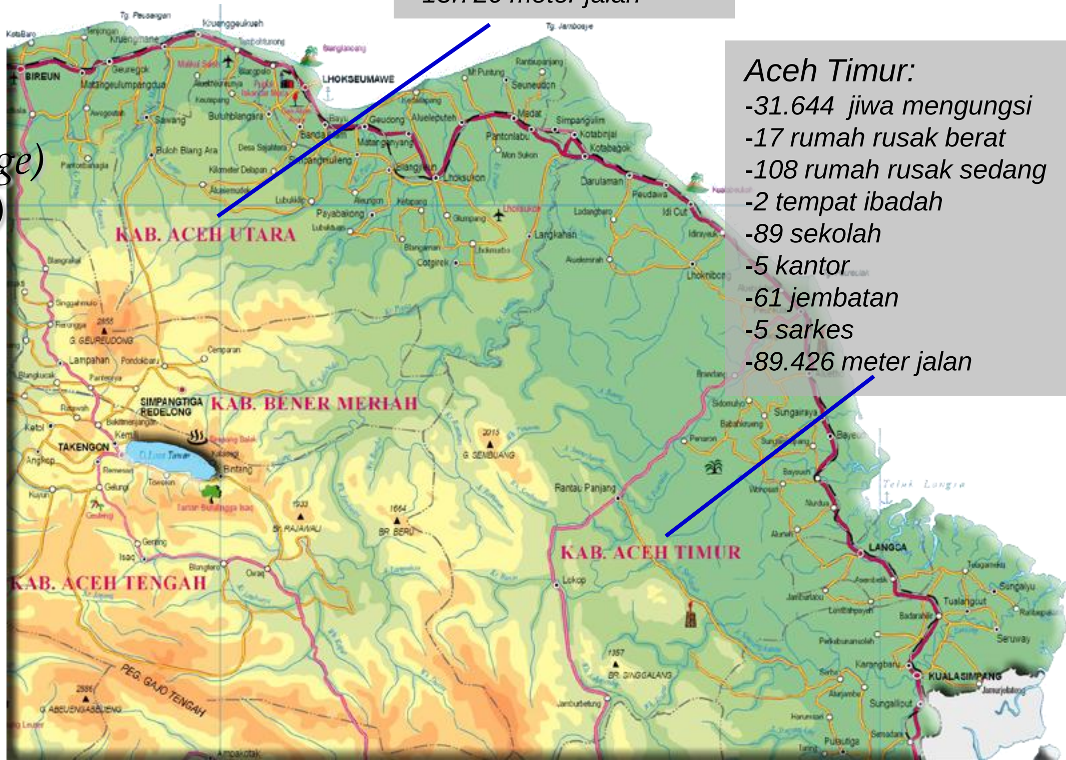
  Flooding : 3 districts (North Aceh, East Aceh and Aceh Besar), 48 subdistricts dan 273 villages

- Victims
  - *Death : 2 people*
  - *IDP's : 54.977 people*

- Damage
  - *House : 17 unit (serious damage)*
  - *House : 215 unit (ligt damage)*
  - *Religious place : 4 unit*
  - *School : 106 unit*
  - *Office : 13 unit*
  - *Bridge : 64 unit*
  - *Health Tools : 6 unit*
  - *Street : 103 km*

North Aceh :
-23.313 jiwa mengungsi
-107 rumah rusak sedang
-2 tempat ibadah
-17 sekolah
-8 kantor
-3 jembatan
-1 sarkes
-13.720 meter jalan

Aceh Timur:
-31.644 jiwa mengungsi
-17 rumah rusak berat
-108 rumah rusak sedang
-2 tempat ibadah
-89 sekolah
-5 kantor
-61 jembatan
-5 sarkes
-89.426 meter jalan



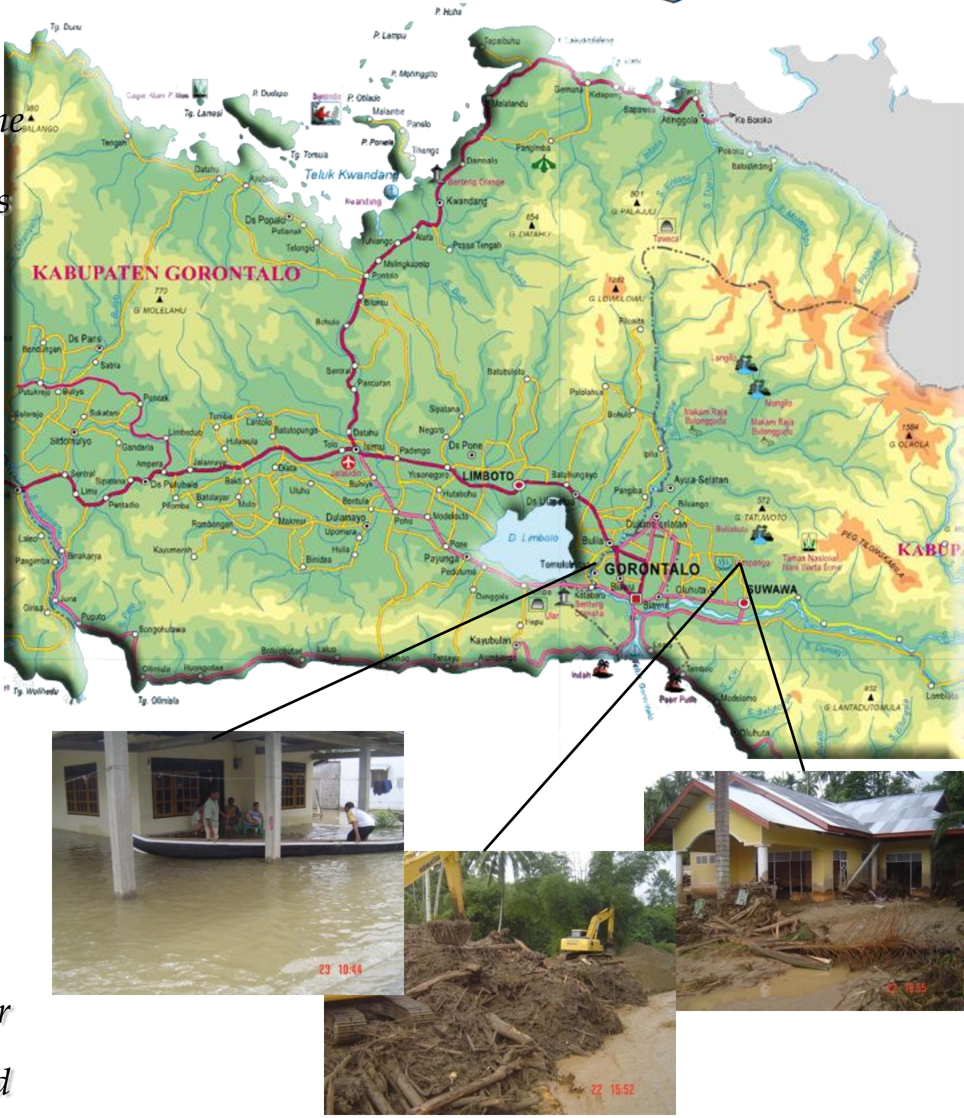
Gorontalo's Flood
(17 - 19 December 2007)

- Occurrence
  - *The soak of Gorontalo city, districts Gorontalo, Bone Bolango and North Gorontalo.*
  - *The rain result overflow Bolango's river and Bone's river.*
  - *The high Flood : ±0 – 1,5 meter*

- Victims
  - *IDP's : 1.808 people*

- Damage
  - *House : 401 unit (serious damaged)*
  - *House : 2.730 unit (ligt damaged)*
  - *Religious place : 44 unit*
  - *Health facilities : 10 unit*
  - *Street : 42 ruas*
  - *Field (sawah) : 2.070 ha*
  - *Field (ladang) : 1.114 ha*

- Management Effort
  - *Daily operations of National Coordinating Disaster Management Agency has to sent a team to make guide lines /need assesment and to give grant in aid of Rp. 50 million.*

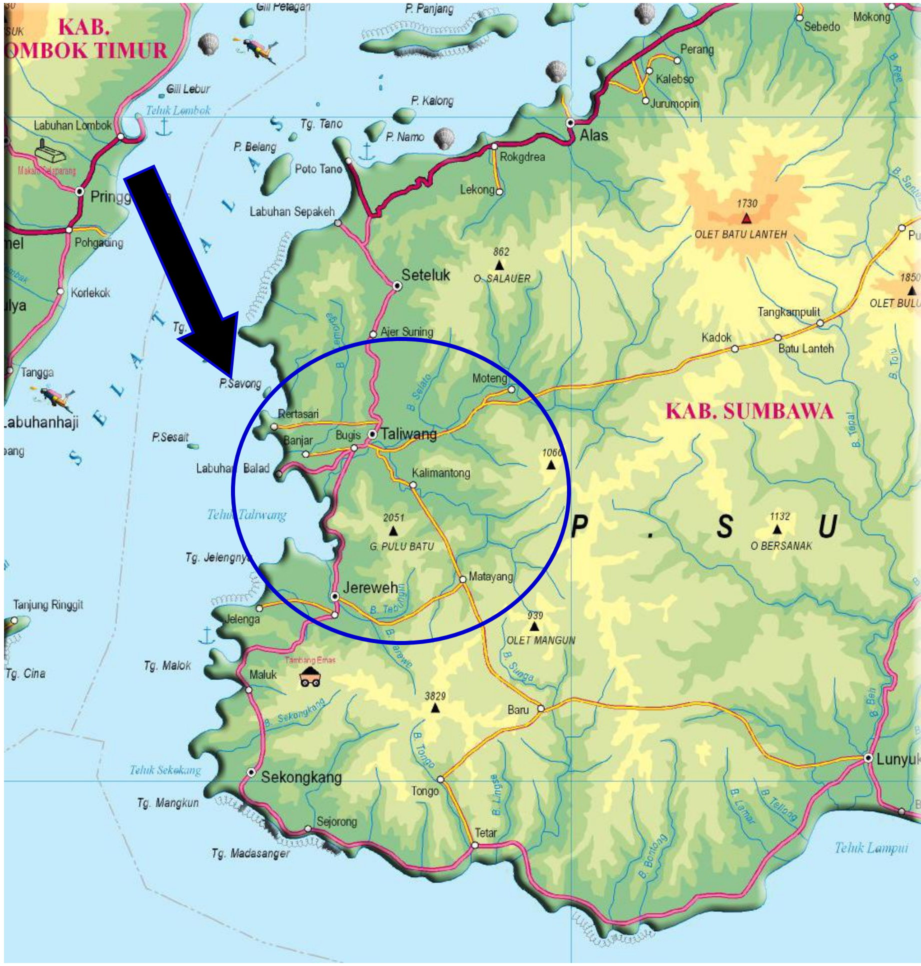


Source : Gorontalo's SATKORLAK PB

FLOOD IN SUMBAWA-NTB

(25 Desember 2007: 23.30 WITA)

- Occurance
  - *Water altitude of i 1.5 m*
  - *Cause of overflow Rea's river and Ene's river*
  - *Flooding : 3 districts (Taliwang, Brang Rea, Brang In)*
- Victims
  - *1 person lost and 112 orang injury*
  - *IDP's : + 250 people*
  - *5.100 ha field agriculture flooding*
- Damage
  - *Hundreds house and one unit cental health citizen flooding*
- Management effort
  - *General, emergency response can to done of the local SATLAK PB*
  - *Since 26 Desember 2007, air sudah surut*



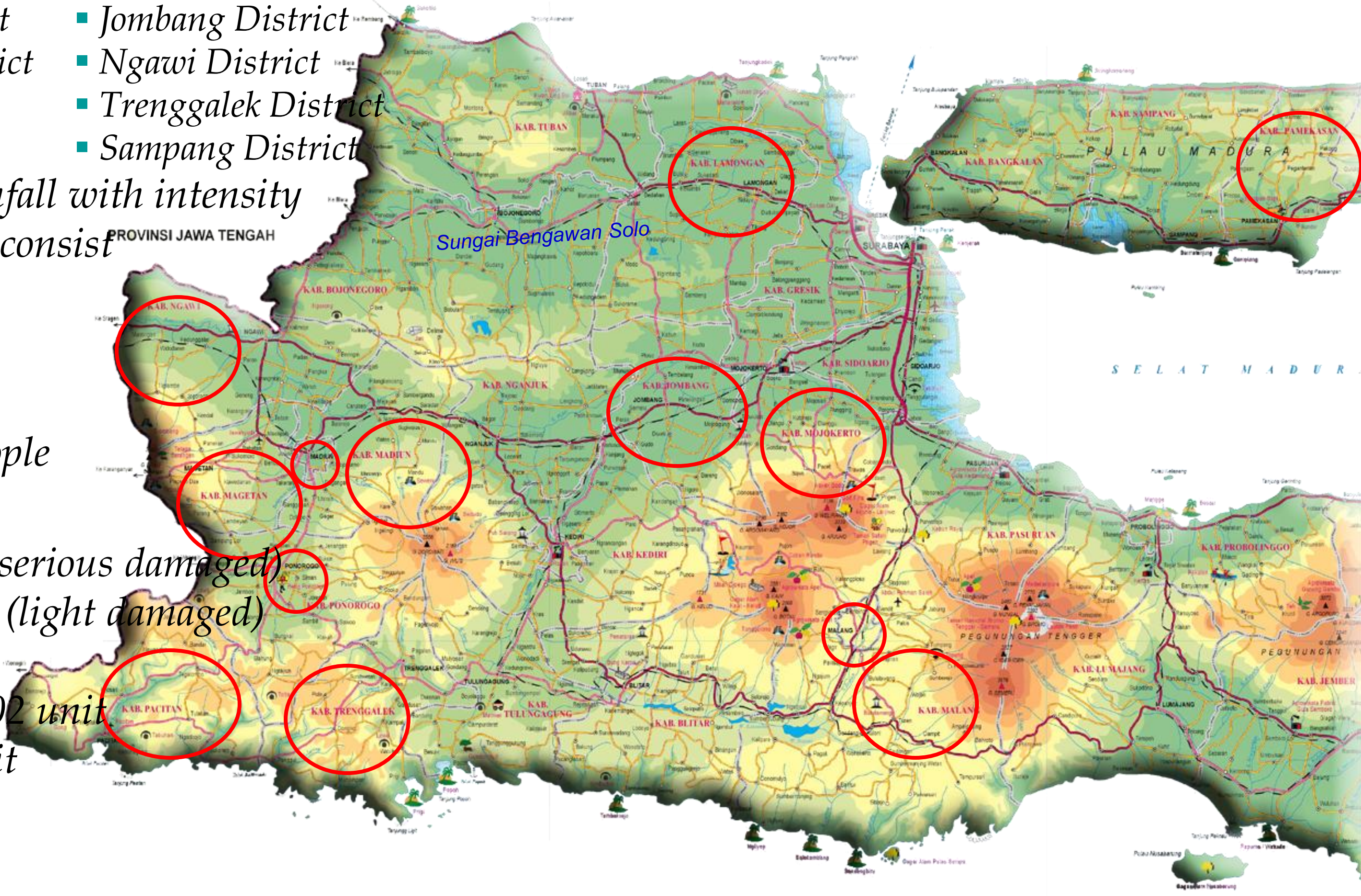
While Database (status 26 Desember 2007)

FLOOD IN WEST SUMATERA
(25 December 2007)

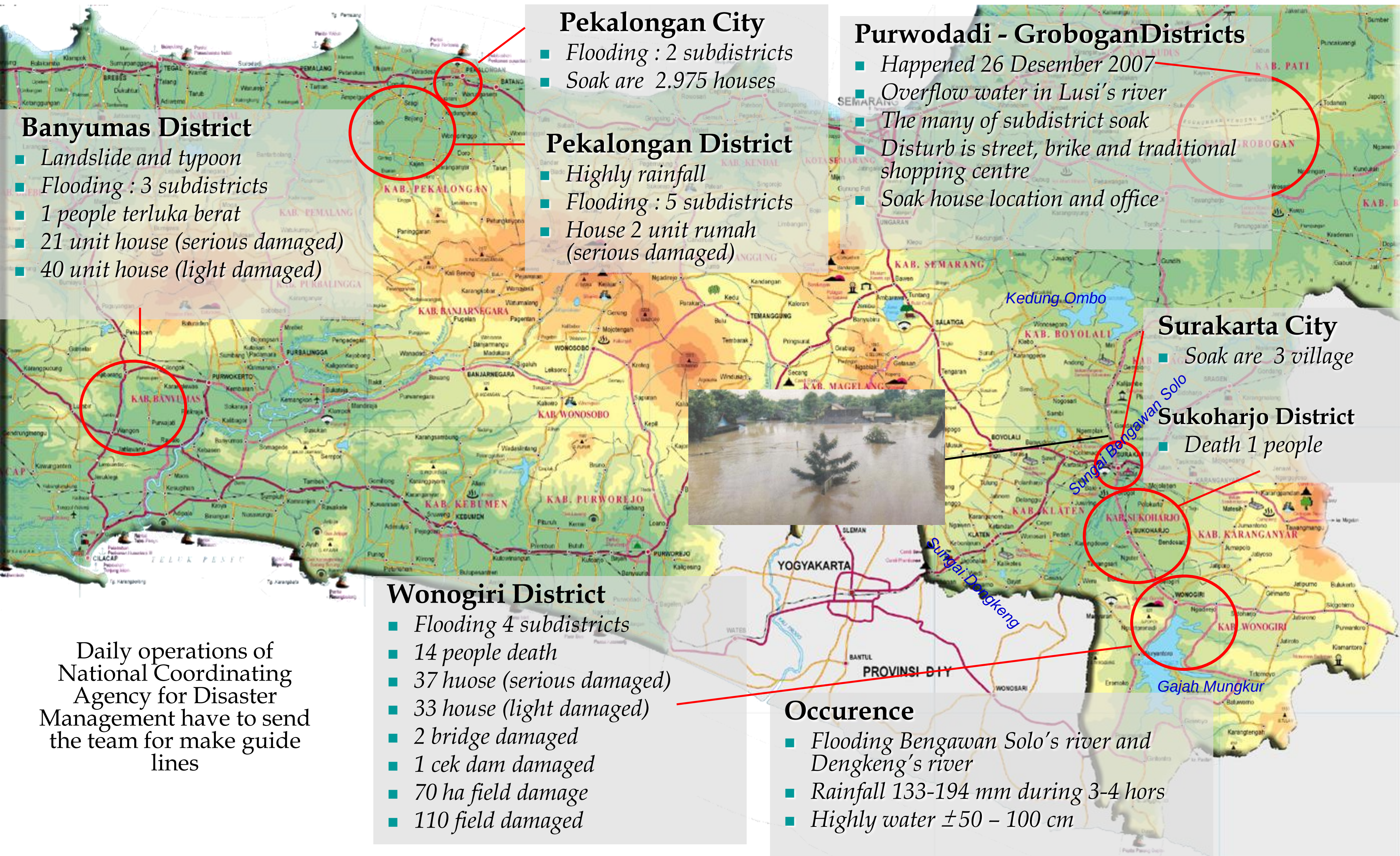
- Occurence
  - *Padang city, Pesisir Selatan district and Padang Pariaman district*
  - *Cause of high intensity rain at all time.*
- Victims
  - *Lost : 3 person*

FLOOD AND LANDSLIDE IN EAST JAVA (26 DECEMBER 2007)

- Occurrence
  - *Terjadi di 13 districts and city:*
    - *Malang city*
    - *Malang district*
    - *Pacitan district*
    - *Magetan district*
    - *Lamongan district*
    - *Madiun city*
    - *Madiun District*
    - *Ponorogo City*
    - *Mojokerto District*
    - *Jombang District*
    - *Ngawi District*
    - *Trenggalek District*
    - *Sampang District*
  - *Because of the rainfall with intensity 137-263 mm until consist overflow river*
- Victims
  - *Death : 34 people*
  - *IDP's : 48.921 people*
- Damage
  - *House : 712 unit (serious damaged)*
  - *House : 2000 unit (light damaged)*
  - *Schools 137 unit*
  - *Religious place 4002 unit*
  - *Health tools 17 unit*
  - *Dike*



FLOOD AND LANDSLIDE IN CENTRAL JAVA



Pekalongan City

- *Flooding : 2 subdistricts*
- *Soak are 2.975 houses*

Purwodadi - GroboganDistricts

- *Happened 26 Desember 2007*
- *Overflow water in Lusi's river*
- *The many of subdistrict soak*
- *Disturb is street, brike and traditional shopping centre*
- *Soak house location and office*

Banyumas District

- *Landslide and typoon*
- *Flooding : 3 subdistricts*
- *1 people terluka berat*
- *21 unit house (serious damaged)*
- *40 unit house (light damaged)*

Pekalongan District

- *Highly rainfall*
- *Flooding : 5 subdistricts*
- *House 2 unit rumah (serious damaged)*

Surakarta City

- *Soak are 3 village*

Sukoharjo District

- *Death 1 people*

Wonogiri District

- *Flooding 4 subdistricts*
- *14 people death*
- *37 huose (serious damaged)*
- *33 house (light damaged)*
- *2 bridge damaged*
- *1 cek dam damaged*
- *70 ha field damage*
- *110 field damaged*

Occurence

- *Flooding Bengawan Solo's river and Dengkeng's river*
- *Rainfall 133-194 mm during 3-4 hors*
- *Highly water ±50 – 100 cm*

Daily operations of National Coordinating Agency for Disaster Management have to send the team for make guide lines

Flood and Landslide in Karanganyar-Central Java (26 December 2007 at 02.00 am)

KARANG ANYAR DISTRICT

- Occurrence
  - *Flooding : 2 subdistricts, landslide in 7 subdistricts (Higly victim in tawangmangu village)*
  - *Rainfall 194 mm during 3-4 jam, jenis tanah liat*
  - *Di duga terjadi alih fungsi lereng gunung Lawu menjadi lahan perkebunan dan permukiman*
  - *Slide thickess range from 5-9 m with long 200 m*
- Victims
  - *Death's 62 people*
- Damage
  - *House   : 618 unit (serious damaged)*
  - *House   : 972 unit (light damaged)*
  - *School : 5 unit*
  - *Bridge :5 unit*
  - *DAM   : 1 unit*

- Management Effort
  - *Mobilize 4 unit excavator and equipment from their 6 district/city, masing-masing 1 unit.*
  - *SATKORLAK PB was sent 18 unit rubber boat.*
  - *Ministery for home affairs by vice chairman BAKORNAS PB indirect the emergency response*
  - *The daily operations BAKORNAS PB was sent team. They brought support financially/grant aid, , guide lines, need assesmnet and 10 rubber boat.*
  - *Ministery for social welfare mobilize are 1.000 person tagana, rice 10 ton, noodle 2.000 dus, blanket 10.000 sheet, human corpse pocket 100 buah, mattress 500 sheet and fish served wit rice.*
  - *Ministery for health was spent assistance are MP-Milk 10 ton, fast food 5 ton and 3 unit rubber boat.*
  - *In general, districs goverment can to handle the disaster management.*

Sumber: SATKORLAK PB Jateng

FLOOD

2008

BANJIR DKI JAKARTA (1 Februari 2008)

- Occurence
  - Jakarta Timur : 6 kecamatan (12 Kelurahan)
  - Jakarta Barat : 9 kecamatan (22 Kelurahan)
  - Jakarta Selatan : 8 kecamatan (28 Kelurahan)
  - Jakarta Pusat : 7 kecamatan (22 Kelurahan)
  - Jakarta Utara : 6 kecamatan (31 Kelurahan)
  - The high rainfall upper 200 mm/day (kurang dari 24 jam)

- Victims
  - *IDP's : 59.352 people*

- Damage
  - *Tol Airport and run way Soekarno Hatta' airport flooding until close airport during 5 hours*
  - *The air transport Internasional Soekarno Hatta 'airport in Jakarta and surrounding disturbed during 24 hours*

- Handling effort
  - *Satkorlak DKI and Satlak PB has to already optimized water pump.*

BANJIR BANDANG DI SITUBONDO dan BONDOWOSO-JAWA TIMUR (8 Februari 2008)

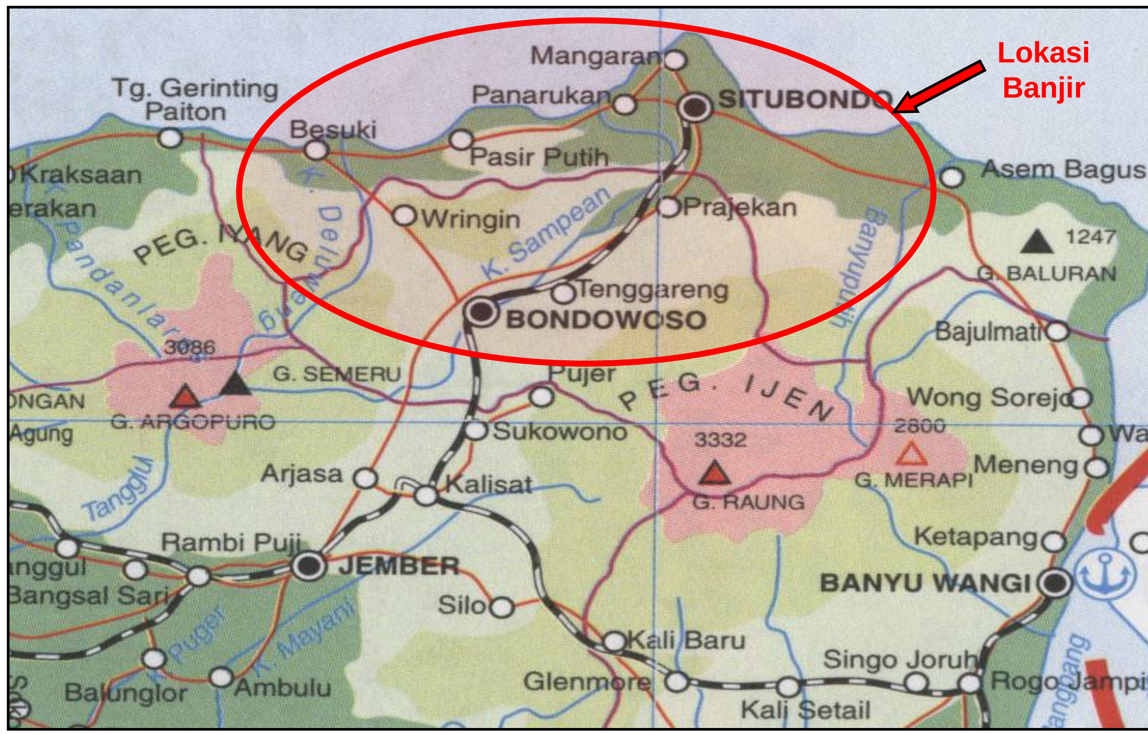
- Occurence
  - Situbondo's district, (Kec. Panarukan, Situbondo, Mlandingan, Panji, Bungatan dan Papayan)
  - Bondowoso's district (Kec. Prajekan, Kelabang dan Tapen).
  - Flooding Sungai Sampenan's river because of the high intensity rainfall (181 mm/5 hours)

- Victims
  - *Death : 12 people*
- Damage
  - *Situbondo's District*

Rumah Hanyut	: 639 unit
Rusak berat	: 2.098 unit
Rusak sedang	: 2.583 unit
Rusak ringan	: 5.155 unit
Tempat ibadah	: 50 unit
Jembatan	: 6 unit
Sawah	: 40 ha

  - *Bondowoso's District*

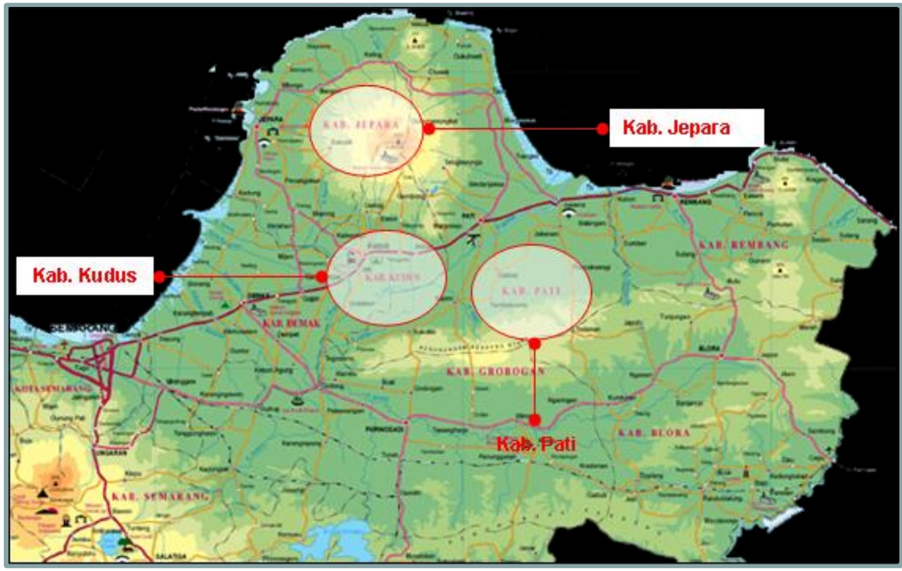
Rusak berat	: 142 unit
Rusak ringan	: 374 unit
Tempat Ibadah	: 3 unit
Jembatan	: 12 unit
Sawah	: 156 ha



- Management Effort
  - Satlak PB Bondowoso and Situbondo has to emergency assistance
  - Bakornas PB to done coordination meeting with another departement and institution and Satkorlak/Satlak local for sharing cost of emergency management.

BANJIR DAN TANAH LONGSOR DI JEPARA-KUDUS-PATI – JAWA TENGAH (13 Februari 2008)

- Occurence
  - Wednesday, 13 February 2008
    at 00.30 am.
  - Cause of high rainfall and flooding Juwana's river.
  - *Flooding 6 sub district. in Jepara, 3 sub district. in Kudus, and 6 sub district. di Pati*
- Victims
  - *Death 4 people*
  - *IDP's 2.124 people*
- Damage
  - *53 rumah rusak berat*
  - *5.449 rumah terendam*
  - *5.000 ha sawah terendam*
  - *Kerusakan pada infrastruktur jalan dan irigasi serta kemacetan yang sangat panjang*
- *Management effort*
  - *Satkorlak dan Satlak local to done emergency management about evacuation, victim, sent distribution pangan, tent and rubber boat.*
  - *Bakornas PB to done coordination meeting interdep in Jakarta dan in local for establish cost sharing pemulihan darurat (central, district, another departement and Bakornas PB)*



Thanks You

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