

2017/SOM3/EPWG/017

Agenda Item: 7.2.1

Priorities and Building Up the National Center for Disaster Management

Purpose: Information Submitted by: Viet Nam



12th Emergency Preparedness Working Group Meeting Ho Chi Minh City, Viet Nam 21-22 August 2017

MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT VIETNAM DISASTER MANAGEMENT AUTHORITY



VIETNAM DISASTER MANAGEMENT AUTHORITY, PRIORITY ORIENTATION AND BUILDING THE NATIONAL CENTER FOR DISASTER MANAGEMENT

HCMC, August 2017



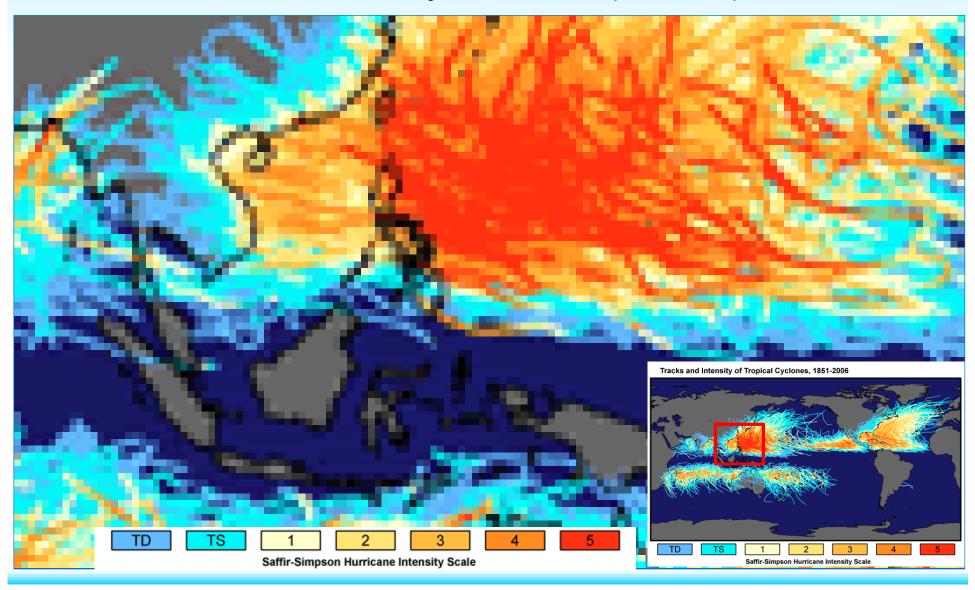
I. CONTENT

- I. OVERVIEW OF NATURAL DISASTER IN VIETNAM
- II. ORGANIZATIONAL STRUCTURE OF VIETNAM DISASTER MANAGEMENT
- **III. PRIORITY ORIENTATIONS**
- IV. INFORMATION SUPPORT SYSTEM FOR DECISION MAKING
- V. NATIONAL OPERATIONAL CENTER FOR DISASTER MANAGEMENT

I. OVERVIEW OF NATURAL DISASTER IN VIETNAM

1. Geographical location

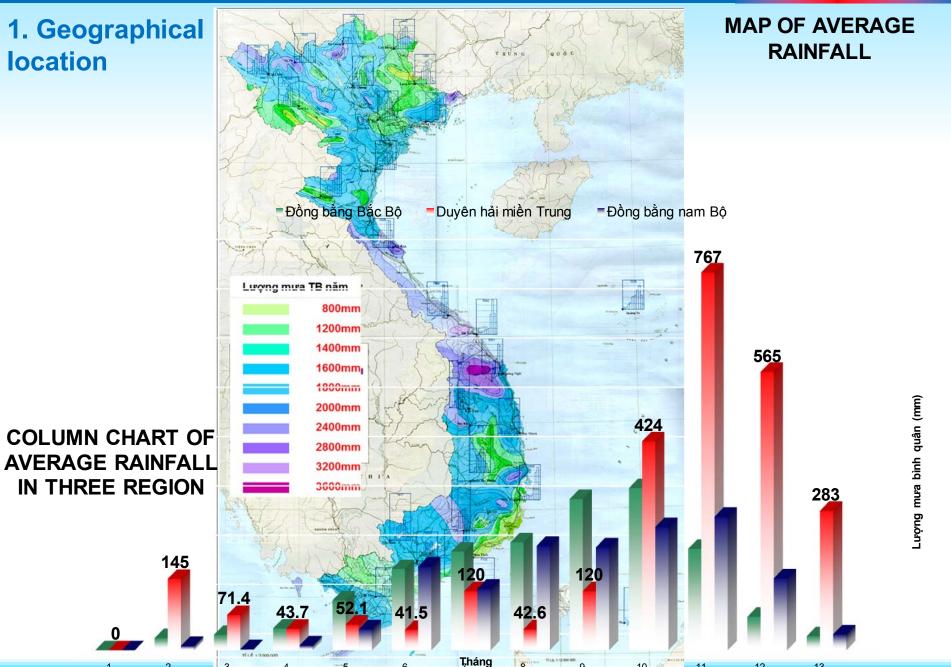
Path and intensity of the storms (1951-2006)



I. OVERVIEW OF NATURAL DISASTER IN VIETNAM



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NATURAL DISASTER MAP IN VIETNAM

2. Topographic characteristics

Typical natural disaster: FlashFlood, landslide, damaging cold, rime ice, heavy rain.

REGION 3

NORTH CENTRAL MOUNTAIN (3 PROVINCES)

CENTRAL (4 PROVINCES)

Typical natural disaster: Heat wave, flash flood, landslide, damaging cold.

REGION 6

CENTRAL HIGHLANDS(5 PROVINCES) **SOUTH CENTRAL MOUNTAIN** (6 PROVINCES)

SOUTHEAST (6 PROVINCES)
Typical natural disaster: Heat wave, drought, flood, flashflood, landslide, inundation

REGION 7

MEKONG RIVER DELTA(12 PROVINCES)

Typical natural disaster: Tropical 🚣 depression, storm, flood, inundation, tide, drought, salinization. river & coastal landslide, thunderstorm.

REGION 2

NORTHERN DELTA (9 PROVINCES), AND NORTH CENTRAL (3)

Typical natural disaster: Flood, PROVINCES, tropical depression, storm, inundation, drought, salinization, damaging cold, heavy rain.

REGION 4

DUYÊN HẢI MIỀN TRUNG (10 PROVINCES)

natural disaster: Flood. **Typical** inundation, tropical depression, storm to super storm, drought, salinization, river and coastal landslide, heavy storm.

REGION 5

LARGER URBAN ZONE

(05 DIRECT-CONTROLLED MUNICIPALITY + 14 PROVINCIAL CITY CLASS 1*)

Typical natural disaster: Ngâp úng do mưa lũ lớn và triều cường, bão lớn và đông 1ôc

REGION 8

SEA

COASTAL PROVINCES FROM QUANG NINH TO KIEN GIANG; HOANG SA AND TRUONG SA ISLAND

*14 Provincial City Class 1 (2016): Biên Hòa (Đồng Nai); B.Ma Thuột (Đắk Lắk); Đà Lạt (Lâm Đồng); Hạ Long (Quảng Ninh); Huế (Thừa Thiên-Huế); Mỹ Tho (Tiền Giang); Nam Định (Nam Định); Nha Trang (Khánh Hòa); Quy Nhơn (Bình Định); Thái Nguyên (Thái Nguyên); Thanh Hóa (Thanh Hóa); Việt Trì (Phú Thọ); Vinh (Nghệ An); Vũng Tàu (Bà Rịa



NATURAL DISASTER MAP IN VIETNAM

2. Topographic characteristics

REGION 1

Flashflood 3/10/2000 (LaiChau 39 dead, 18 injured); Landslide, flashflood 28/9/2006 (Van Chan, Yen Bal, 50 dead and missing), Landslide, flashflood after storm 10.4 in Lao Cai, Yen Bai 2008 (120 dead and missing), flashflood 5/9/2013 In LaoCai (11 dead, 16 injured), Landslide, flashflood 5/8/2017 in Lao Cai (10 dead and missing) Damaging cold, rime ice from 22-28/01/2016 in 27 provinces from the North to NgheAn (Lost 37.292ha rice and 4.082 ha crop; 36.678 cattle, 60.239 poultry and 2766 other animals were dead, total estimated damage > 1533 billions vnd

REGION 3

Flashflood 20/9/2002 (HaTinh 53 dead, 111 injured); Flashflood 9/2011 (ThanhHoa 6 dead); flashflood after storm no. 4 in Quy Chau, Nghe An 14/9/2017 (12 dead and missing)

REGION 6

From late 2015 to early 2016: severe drought in DakLak, GiaLai, KonTum, NinhThuan, BinhThuan (15.000 ha damaged, 28000 ha rice and 140.000 ha old tree were lost); total estimated damage > 8130 billions vnd.

REGION 7

Flood and inundation in 2000 (565 dead, 276 injured, 9.457 house destroyed, > 62000 household must relocate, 263.077 ha rice was damaged, total estimated damage > 4.626 billions vnd; Flood on 10/2011 (89 dead, 176.000 houses flooded, 27.000 ha of rice flooded, total estimated damage > 4.400 billions vnd; salinization in 2015: 342.2547 household lack of running water; 215.445 ha of rice damaged, total estimated damage > 7.500 billions vnd;

REGION 2

Record Flood 8/1945 (79 dykes broken, 160.000 ha land for produ inundated); Flood 8/1971 (16 dykes broken, 600 dead and missing people); Storm no. 7 Damrey 2005 (68 dead & missing, 4.746 hou deystroyed, total estimated damage > 3.500 billions vnd); Storm no. 2016 (5 dead, >34 000 houses flooded, >200000ha of rice flooded estimated damage > 7.200 billions vnd; Record inundation in Thai Binh 09/2003 (30.000 ha of rice)

REGION 4

Storm no. 6 Xangsane 2006 (76 dead and missing, 35000 houses damaged, 1000 vessels damaged, total estimated damage > 10.000 billions vnd); Flood 1/11-6/12/1999 (715 dead and missing people, 1 million houses flooded and thousand of house was swept, total estimated damage > 5.000 billions vnd); Flood 10-17/11/2010 (143 dead, total estimated damage > 11.00 billions

REGION 5

Heavy rain, historical inundation 30/10-3/11 2008 in Hanoi (22 dead, total estimated damage > 3.000 billions vnd); Storm no. 6 Xangsane in Da Nang (2006).

REGION 8

Storm no. 5 Linda 11/1997 (3000 dead and missing people, 2897 sunken ship, 1856 vessels damaged); Storm no. 1 Chanchu in 2016 (13 sunken ship, 05 vessel missing, 226 dead and missing people)



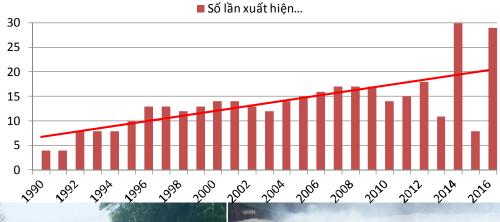
I. OVERVIEW OF NATURAL DISASTER IN VIETNAM

3. Extreme weather

- Strong storms tend to increase
- Unpredictable rain and unusually heavy rain occur more frequently
- Flashflood tends to increase: period 2004-2016 (210 attacks) increased 1,5 times compared to the period 1990-2013 (142 attacks) Drought, salinization occurs, heat
- wave appears with frequency



Storm level 12 or above in East Sea Period 2004-2016 (44) increased 1,3 times compared to the period 1990-2003 (35)



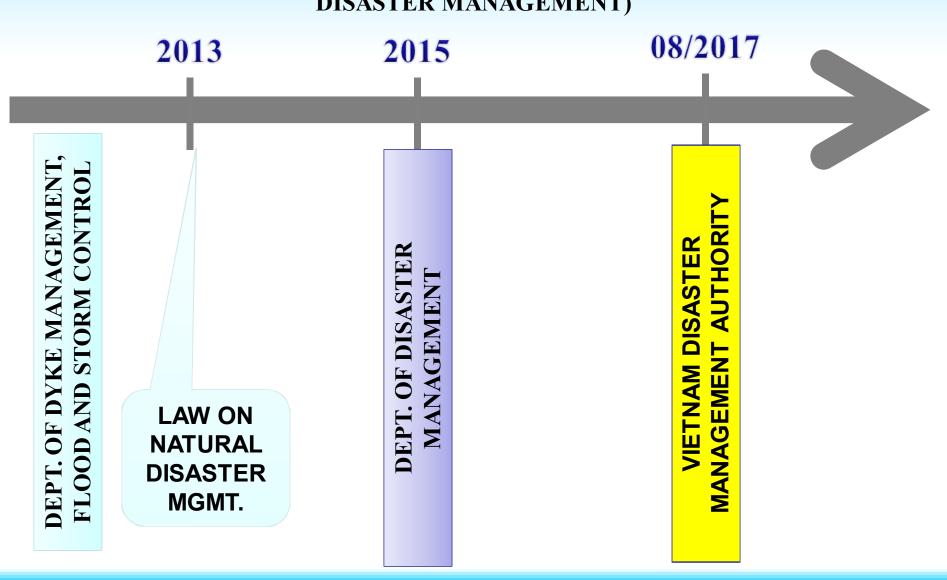






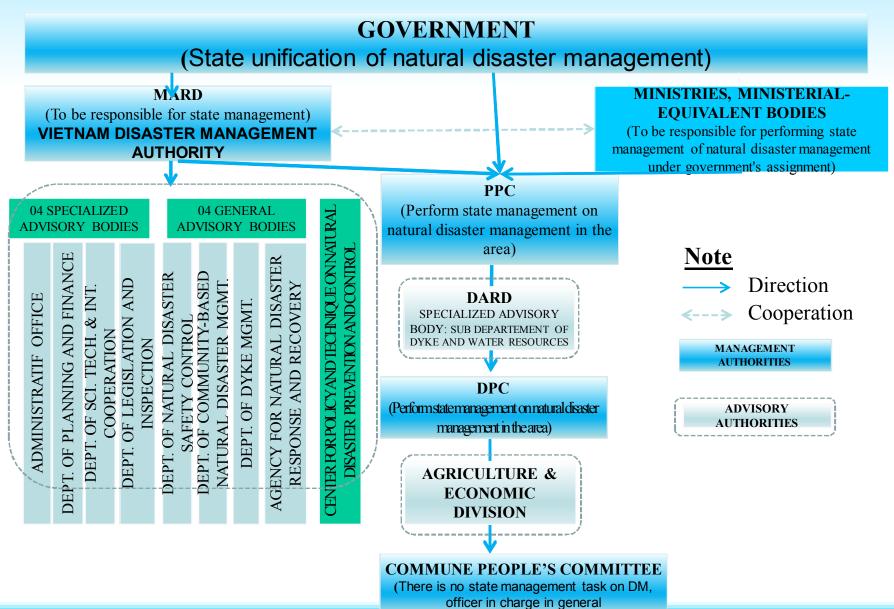


NATIONAL AGENCY OF NATURAL DISASTER MANAGEMENT (STANDING OFFICE OF THE CENTRAL STEERING COMMITTEE FOR NATURAL DISASTER MANAGEMENT)





FLOW CHART ON STATE MANAGEMENT AGENCIES ON NATURAL DISASTER MANAGEMENT

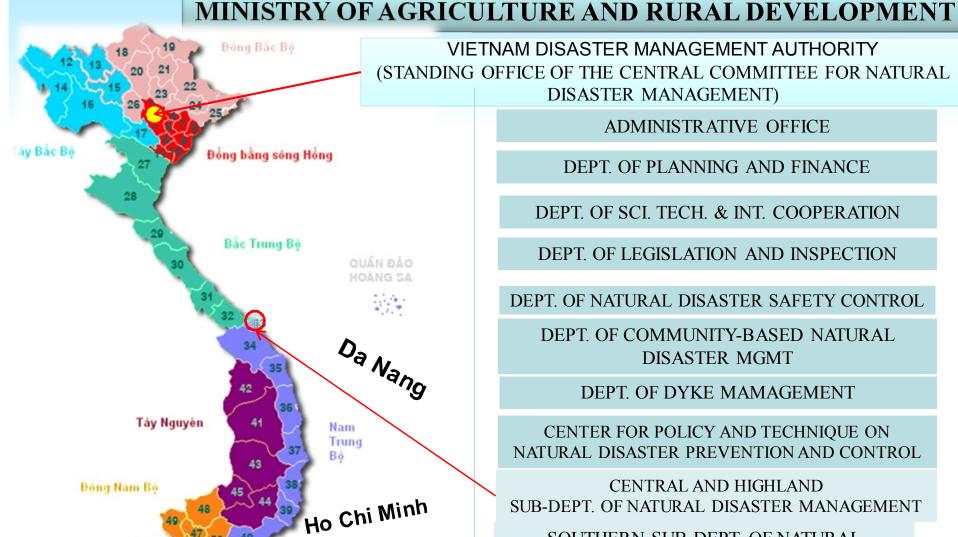


DAG PHÚ QUỐC

II. ORGANIZATIONAL STRUCTURE OF VIETNAM DISASTER MANAGEMENT

QUÂN ĐÂO TRƯỚNG SA

© truongkienthuc.



Đồng bằng sóng Cửu Long

VIETNAM DISASTER MANAGEMENT AUTHORITY (STANDING OFFICE OF THE CENTRAL COMMITTEE FOR NATURAL DISASTER MANAGEMENT)

ADMINISTRATIVE OFFICE

DEPT OF PLANNING AND FINANCE

DEPT. OF SCI. TECH. & INT. COOPERATION

DEPT. OF LEGISLATION AND INSPECTION

DEPT. OF NATURAL DISASTER SAFETY CONTROL

DEPT. OF COMMUNITY-BASED NATURAL DISASTER MGMT

DEPT. OF DYKE MAMAGEMENT

CENTER FOR POLICY AND TECHNIQUE ON NATURAL DISASTER PREVENTION AND CONTROL

CENTRAL AND HIGHLAND SUB-DEPT. OF NATURAL DISASTER MANAGEMENT

SOUTHERN SUB-DEPT. OF NATURAL DISASTER MANAGEMENT

FLOW CHART ON INTERDISCIPLINARY SYSTEM OF COORDINATING, STEERING AND DIRECTING AGENCIES OF NATURAL DISASTER MANAGEMENT

GOVERMENT

(The Prime Minister administers national disaster prevention and control)

THE CENTRAL STEERING COMMITTEE FOR NATURAL DISASTER MANAGEMENT (CCNDM)

Chairman: Minister of MARD

STANDING AGENCY OF CCNDM

Ministry of Agriculture and Rural development

STANDING OFFICE OF THE CENTRAL STEERING COMMITTEE

Directorate of Natural Disaster Management

PROVINCIAL CNDM & SEARCH AND RESCUE

Chairman: Chairman of Provincial People's committee

STANDING OFFICE

Sub-Dept. of dyke mgmt. or water resources

DISTRICT CNDM & SEARCH AND RESCUE

Chairman: Chairman of District People's committee

STANDING OFFICE

Agriculture/economic division

COMMUNE CNDM & SEARCH AND RESCUE

Chairman: Chairman of Commune People's committee

GENERAL MISSION

(assigned to a general officer)

Note

Direct

CNDM & SEARCH AND RESCUE OF MINISTRIES, MINISTERIAL-EQUIVALENT BODIES

Chairman: Leader of ministry

CNDM & SEARCH AND RESCUE OF AGENCIES IN THE PROVINCE

Chairman: Leader of Agencies

CNDM & SEARCH AND RESCUE OF AGENCIES IN THE DISTRICT

Chairman: Leader of agencies

CNDM & SEARCH AND RESCUE OF AGENCIES IN THE COMMUNE

Chairman: Leader of agencies

II. ORGANIZATIONAL STRUCTURE OF VIETNAM DISASTER MANAGEMENT

Response according to level of disaster risk

No.	Type of disaster	Level of disaster risk				
		1	2	3	4	5
1	Storm / Tropical depression			X	X	X
2	Cyclone, lightning, hail	X	X			
3	Heavy rain	X	X	X		
4	Heat wave	X	X	X		
5	Drought	X	X	X	X	
6	Damaging cold, rime ice	X	X	X		
7	Fog	X	X	X		
8	Flood, inundation	X	X	X	X	X
9	Flash flood	X	X	X		
10	Landslide due to rain or flood	X	X			
11	Salinization	X	X			
12	Strong winds on the sea	X	X	X		
13	Earthquake	X	X	X	X	X
14	Tsunami			X		X



Responsibility to respond according to the level of disaster risk

- Level 1: President of Commune People's Committee, Chairperson of commune steering committee for natural disaster management
- Level 2: President of Provincial People's Committee, Chairperson of provincial steering committee for natural disaster management
- Level 3: Chairperson of the center steering committee commands the ministries, provinces to implement the response measures.
- ❖ Level 4: The Prime Minister commands the ministries, provinces to implement the response measures.
- ❖ Level 5: The Prime Minister demand the State President to declare a state of emergency

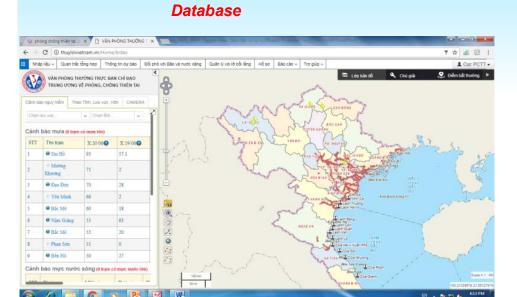
III. PRIORITY ORIENTATIONS

- ❖ To strengthen the organization of the state authorities at different level (province, district, commune); Strengthening the control of natural disaster safety, ensuring the prevention requirements in the process of infrastructure development; control and reduction of disaster risk;
- ❖ To build natural disaster prevention works: observation, multi-disaster warning system, infrastructure for evacuation, dykes, dams, anti-landslide...
- ❖ To actively respond and recovery from natural disaster. To consolidate forces, materials, equipment and facilities for the disaster management
- ❖ To strengthen the community-based disaster management
- ❖ To strengthen the communication on natural disaster prevention;
- ❖ To strengthen research and application of science and technology in natural disaster management;
- ❖ To strengthen international cooperation in natural disaster management;
- * To strengthen different resources in natural disaster prevention;



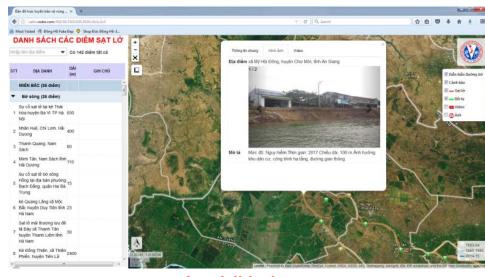
1. Database for disaster preparedness

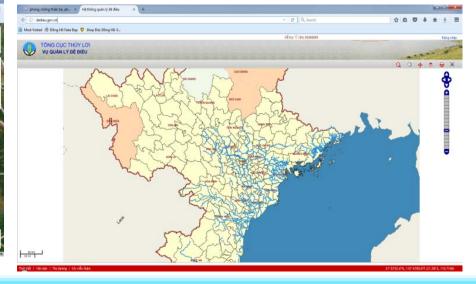
Website of the center steering committee





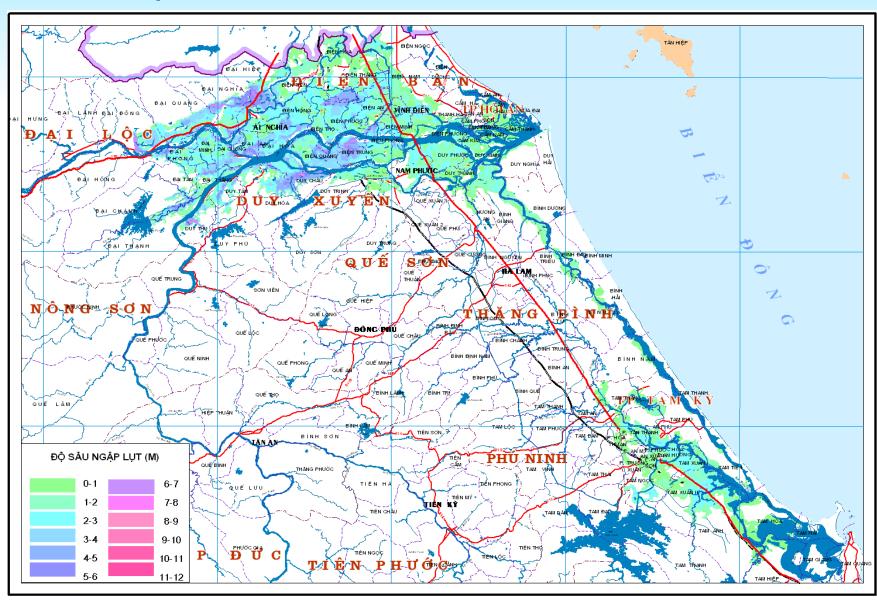
Dyke data





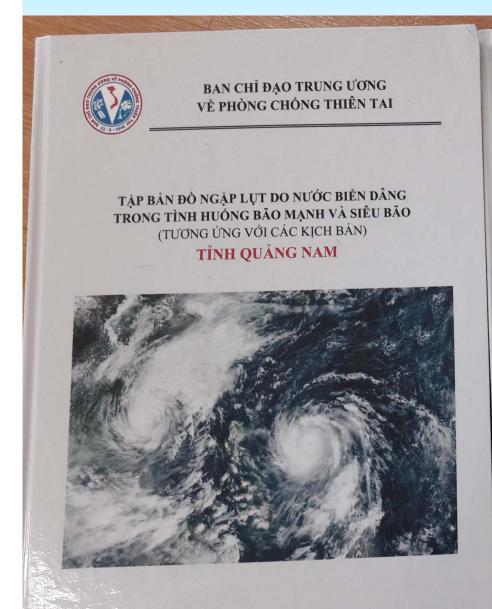
Landslide data

2. Flood map





3. Storm and super storm response plan





BAN CHỈ ĐẠO TRUNG ƯƠNG VỀ PHÒNG CHỐNG THIÊN TAI

TẬP BẢN ĐÒ NGẬP LỤT DO NƯỚC BIỂN DÂNG TRONG TÌNH HUỐNG BÃO MẠNH VÀ SIÊU BÃO (TƯƠNG ỨNG VỚI CÁC KỊCH BẢN) TỈNH NINH THUẬN





4. Management of fishing vessel information



Shore station system

Moviva System



5. System of mobile/satellite communication





1.Meeting room



The meeting room is 55m2 and equipped:

- 1 large screen, size 150inch; 1 television 100inch, 2 television 55inch, 2 projector, map of natural disaster prevention of 3 regions, map of dykes system of red river, Thai Binh river, model of northern flood control system, sounds system, camera and two computers.



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2. Concierge room 24/24h





The room is 19m², equipped 02 telephones, 01 mobile, 03 computers, 02 printers, 02 fax machine, 01 television 42 inch; 1 bedroom



V. NATIONAL OPERATIONAL CENTER FOR DISASTER MANAGEMENT

3. Headquarter of Chinese Taipei QUARTER











V. NATIONAL OPERATIONAL CENTER FOR DISASTER

3. Headquarter of Mississipi (USA)





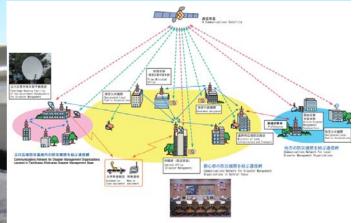


V. DISASTER MANAGEMENT HEADQUARTER

3. Headquarter of Japan













V. DISASTER MANAGEMENT HEADQUARTER

3. Headquarter of China







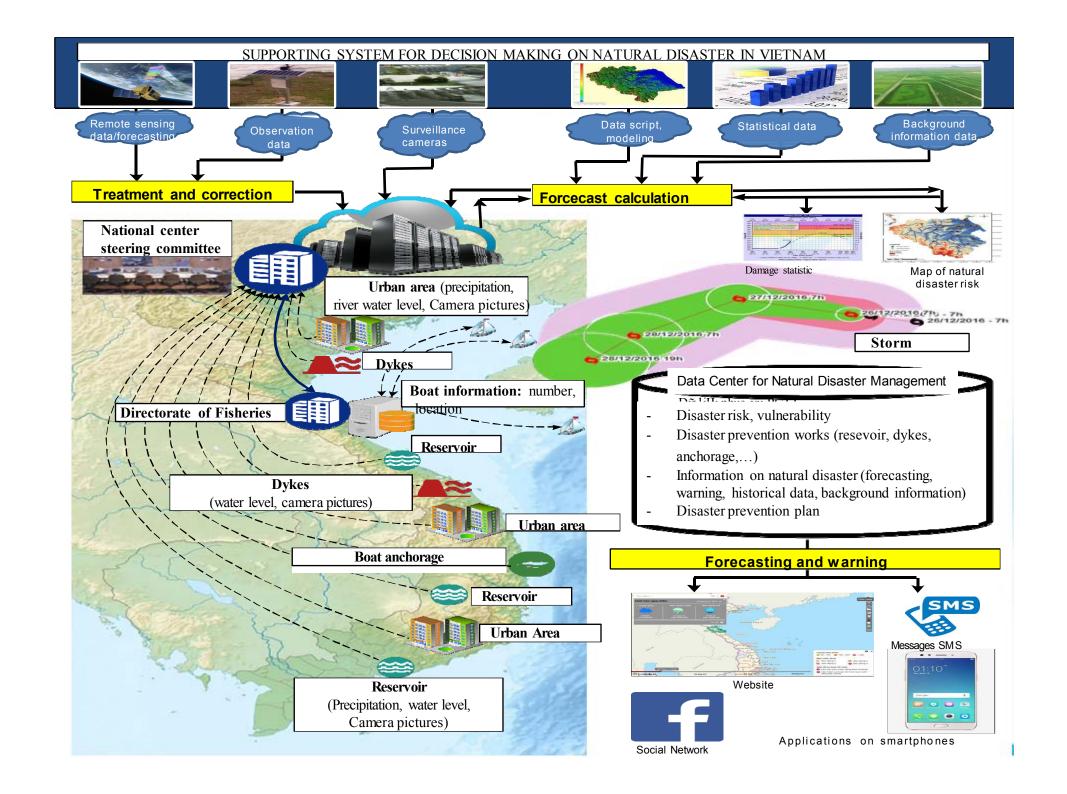


V. NATIONAL OPERATIONAL CENTER FOR DISASTER MANAGEMENT

3. Headquarter of Indonesia









THANK YOU FOR YOUR ATTENTION!

MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT VIETNAM DISASTER MANAGEMENT AUTHORITY

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