

Natural Disaster Management System in Vietnam

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Introduction

Geography

- Area: 331,212 km² (land ~ 327,480 km², and water ~ 4,200 km²), coastlines ~ 3,444 km.
- North: 04 seasons, whereas South is 02.
- Rainy: May to September
- Storm: June to October

Phenomena

- Heavy rain: Flood, flash flood, erosion
- Tropical cyclone: Wind, flood, landslide
- Cold front: Squall line, rainfall, wind
- Others: storm surge, heat, fog, fire.



Characteristics



Vietnam is a country heavily affected by natural disasters

- Suffering from almost all types of natural disasters, including hurricanes, floods and droughts, which cause the severe consequences to economics, society and environment.
- Annual precipitation is relatively large but irregularly distributed to all regions. Precipitation in rainy season is usually 5-6 times larger than in dry season, average up to 75-85% of the total annual rainfall.
- According to statistics over the past 30 years, natural disasters across the region in the country has caused much loss of life and property. On average, 500 people died or missing, thousands of people injured, economic losses is about 1.0 to 1.5% of GDP annually. Disaster risk is a major threat to the sustainable development of the country.



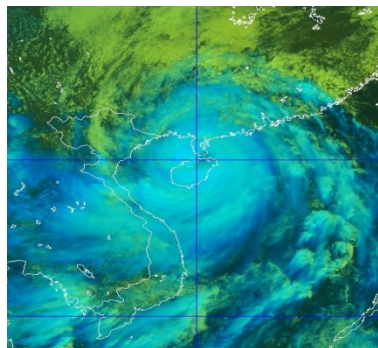
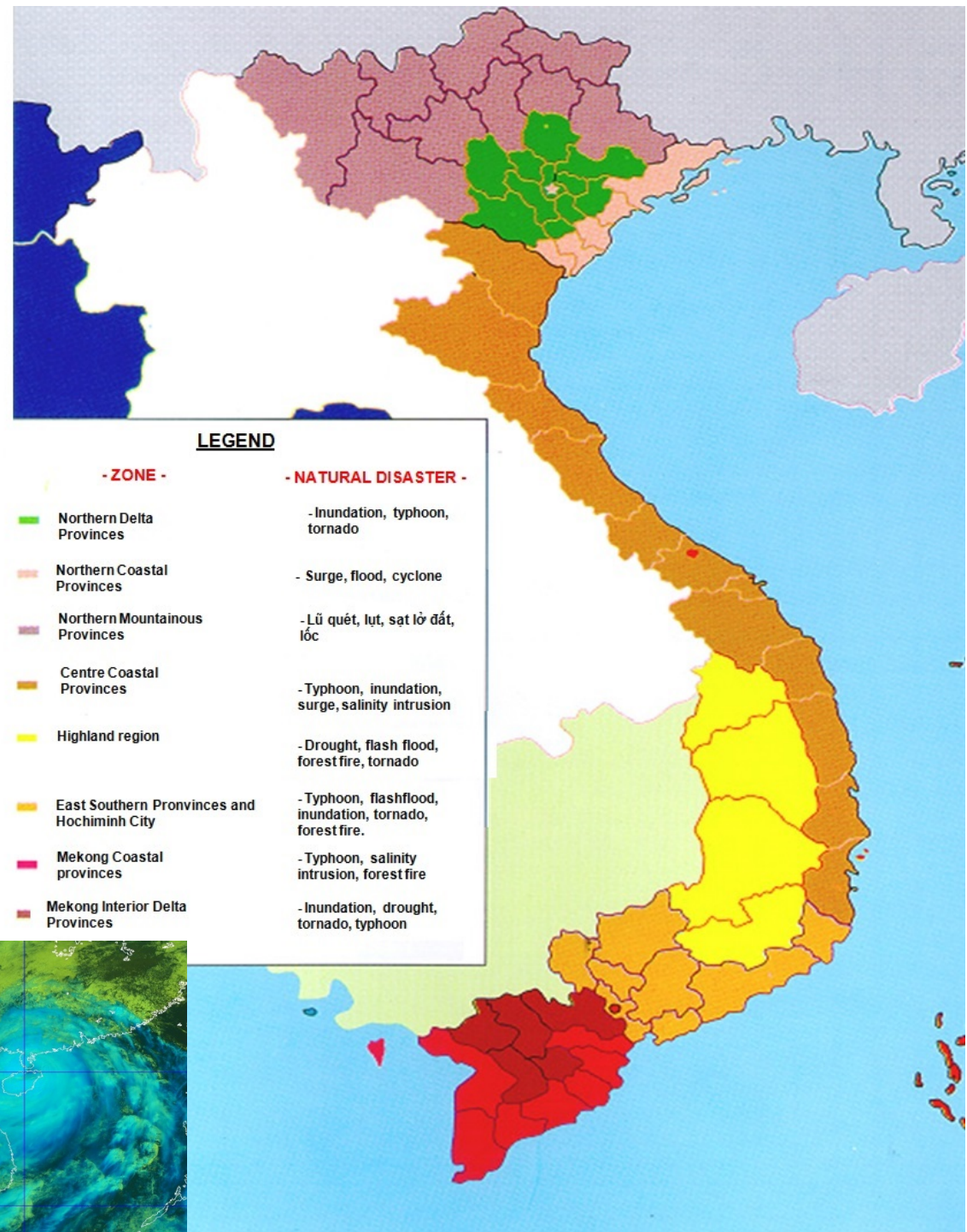
Characteristics (cont.)

Natural disasters increase in frequency and intensity

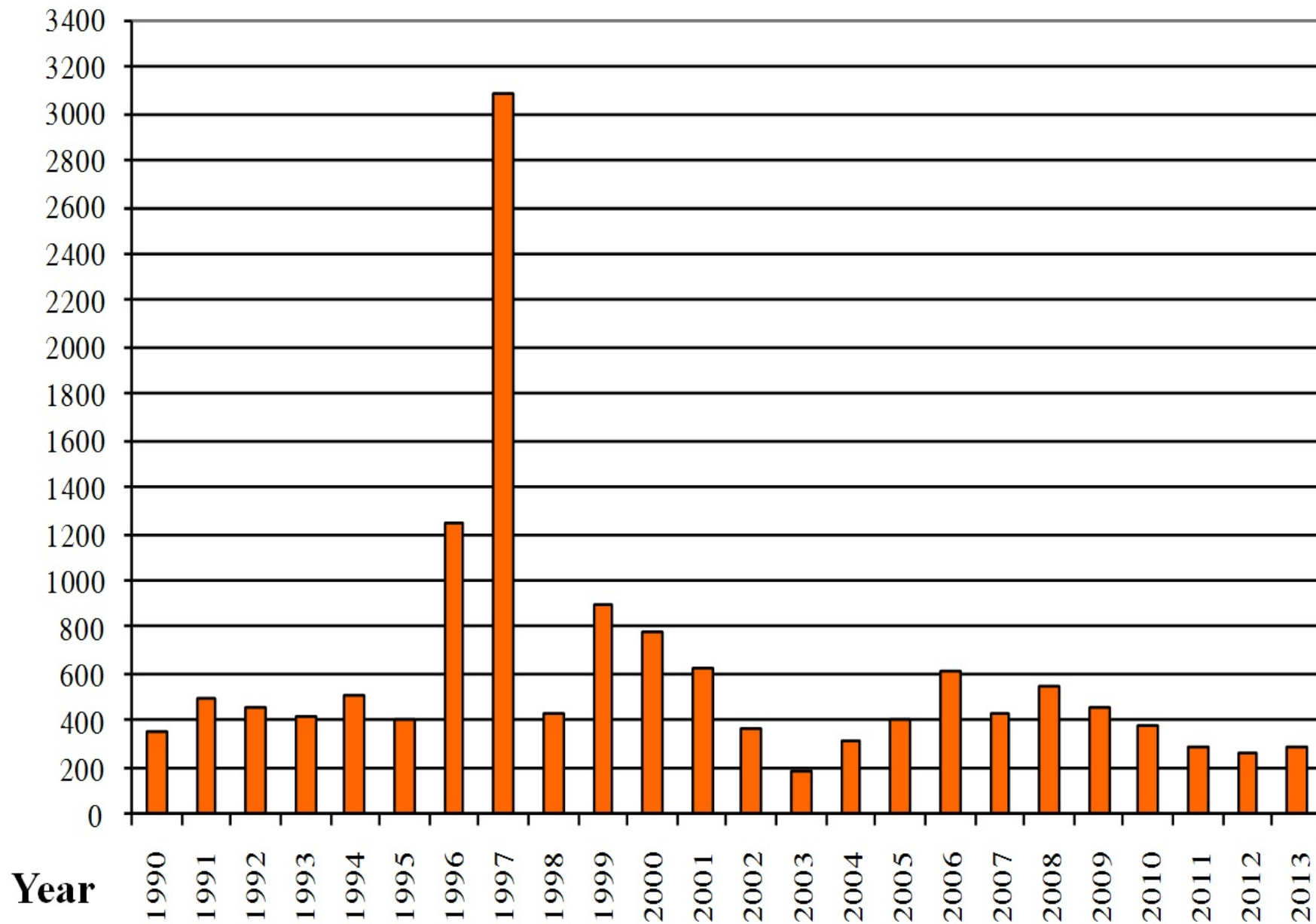
-  Vietnam is one of the five countries severely affected by climate change and sea level rise.
 -  Natural disasters have abnormal and complex expression, diversity of forms, and occur with increased intensity and frequency. Some major disasters caused severe damage to people, property and infrastructure such as:
 - Large and heavy floods in Central coastal provinces (1999, 2007); in Red River System (1971); in Mekong river (2000, 2010).
 - Typhoon: Wayne (Thaibinh 1986); Linda (Camau 1997); Xangsen (Danang 2006); Ketsana (2009); Wutip and Nari (Center 2013).
 - Droughts: 1988, 1993 and 1998
 - Spring tides (high tides) surge to highest level in 50 years in Ho Chi Minh City in 2009.
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The Map of Disaster Distribution in Vietnam

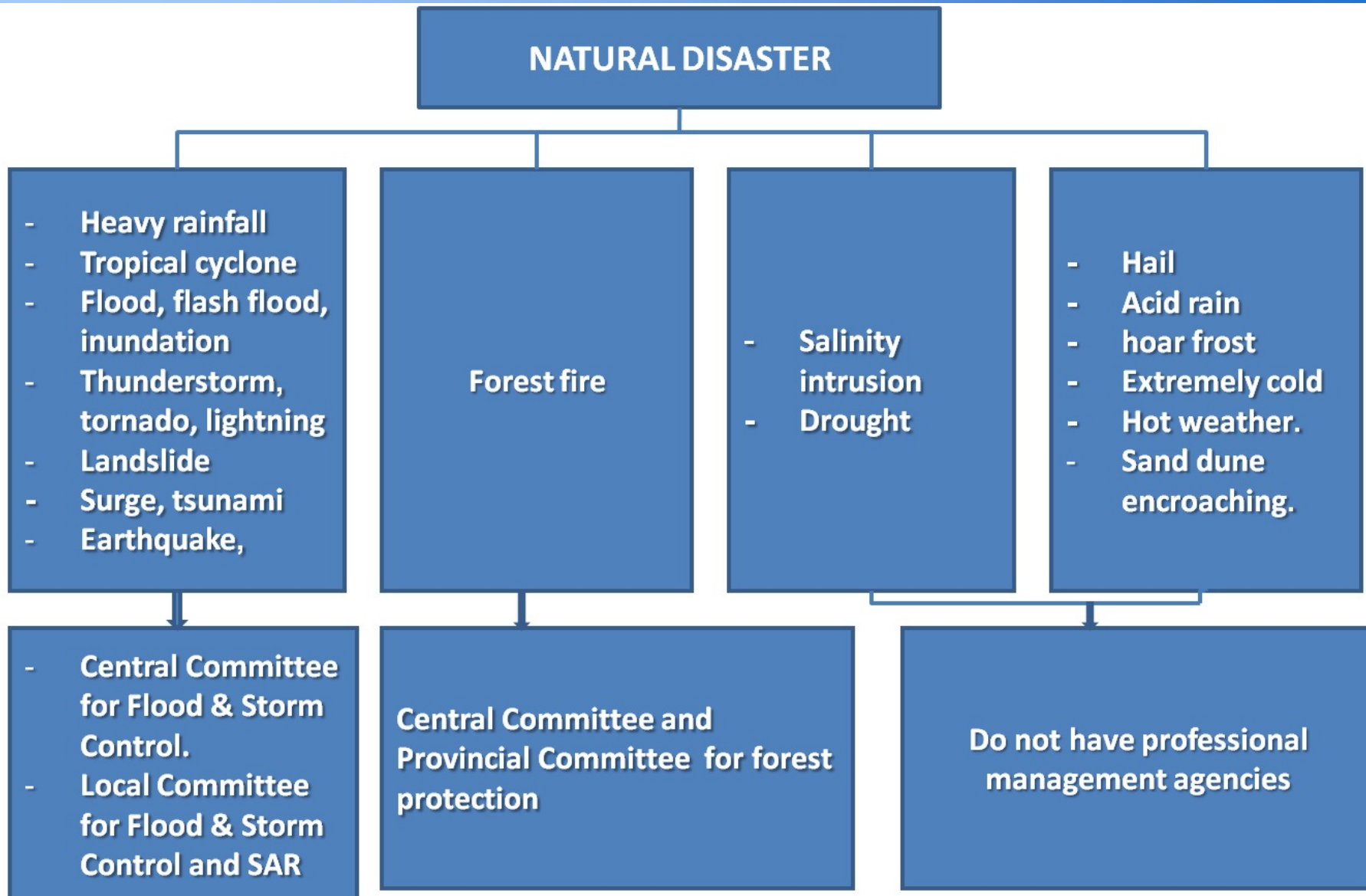
High	Average	Low
Flood	Hail	Earthquake
Typhoon, tropical cyclone	Landslide	Frost
Flash flood	Forest fire	Fog
Tornado, Lightning	Salinity intrusion	
Drought		



CASUALTY: 1990 to 2013

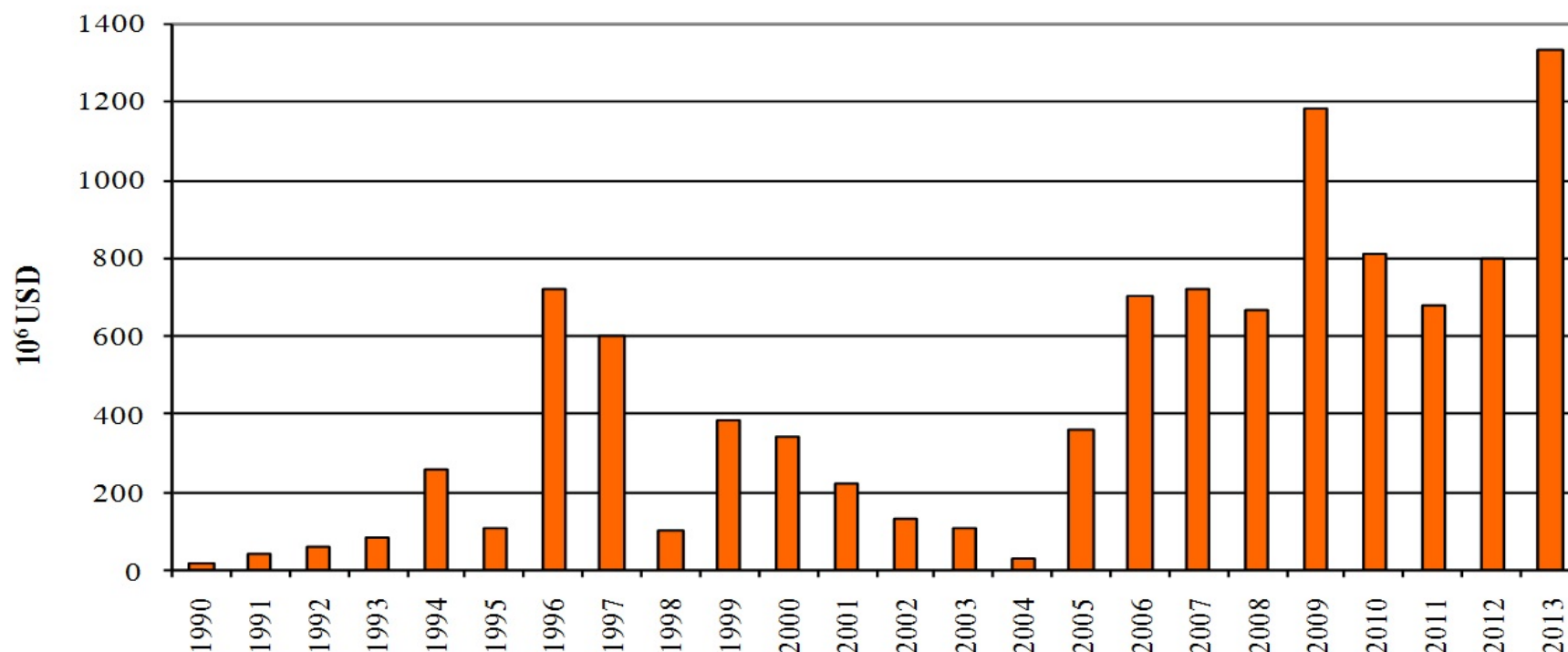


Disaster Management System



Institution of Disaster Management in Vietnam

ECONOMIC LOSSES: 1990 to 2013



Note:

- Extreme floods occurred in all Northern, Central, and Southern regions in 1996.
- Damages mainly caused by Ketsana and Mirinae typhoons in 2009
- Damages mainly caused by floods in Central region in October 2010
- Damages mainly caused by Son Tinh super typhoon in 2012
- Damages mainly caused by Wutip typhoon at the end of September 2013



Disaster Flood and Storm Control System

i. Central Committee for Flood and Storm Control (CCFSC): Authority to advise and assist the Government and the Prime Minister to urge and direct operating the prevention, response and mitigation of natural disasters on national scales.

Head: Minister; Deputy Head: Vice Minister of MARD, Deputy Commander of Army Forces, leaders of Governmental Office; Commissioners: leaders of Ministries, Sectors, Organizations...

ii. Committee for Flood & Storm Control (CFSC) and Search and Rescue of Ministeries and Sectors: Authority to advise and assist the Minister, and Head of the sectors to urge and direct operating the prevention, response and mitigation of natural disasters, under the responsibilities of Ministries and Sectors.

iii. Local level: Similarly to ministerial level, CFSC at local levels (Province, city, district) responsible for search and rescue activities.

Local CFSCs: Head by correspondent People Committee Leader, consult to the People Committee to urge and direct operating the prevention, response and mitigation of natural disasters in local scale.

Coordination Mechanism

Disaster	Responsible	Coordination Agencies	Coordination mechanism
Typhoon	<ul style="list-style-type: none">- CCFSC- Local CFSC	<ul style="list-style-type: none">- VINASARCOM- Hydro-Meteorological Forecasting Centre at different levels- Armed Forces- Ministry of Construction- MONRE- MOH- Fisheries Directorate, and Department- VOV, VTV- Coastal Information Channel- Red Cross; Youth Union	According to regulations

Coordination Mechanism (cont.)

Disaster	Responsible	Coordinated Agencies	Coordination mechanism
Flood	<ul style="list-style-type: none"> - CCFSC - Local CFSC 	<ul style="list-style-type: none"> - VINASARCOM - Hydro-Meteorological Forecasting Centre at different levels - Armed Forces (Army, Transportation Police) - Ministry of Construction - MONRE - MOH - Fisheries Directorate, and Department - VOV, VTV - Coastal Information Channel - Red Cross; Youth Union 	According to regulations

Coordination Mechanism (cont.)

Disaster	Responsible	Coordinated Agencies	Coordination mechanism
Inundation	<ul style="list-style-type: none"> - CCFSC - Local CFSC 	<ul style="list-style-type: none"> - VINASARCOM - Hydro-Meteorological Forecasting Centre at different levels - Armed Forces (Army, Transportation Police) - Ministry of Construction - MONRE - MOH - Ministry of Labour, Invalid - Fisheries Directorate, and Department - VOV, VTV - City Environment Company - City Drainage Company - Red Cross; Youth Union 	According to regulations

Coordination Mechanism (cont.)

Disaster	Responsible	Coordinated Agencies	Coordination mechanism
Flash Flood	- Local CFSC&SAR	<ul style="list-style-type: none"> - Armed Forces (Army, Border Guard, Transportation Police) - Hydro-Meteorological Forecasting Centre at different levels - Red Cross, Youth Union 	According to regulations
Earthquake, tsunami	CCFSC VINASARCOM	<ul style="list-style-type: none"> - VINASARCOM - Institute of Geophysics - Armed Forces (Aviation, Navy, Ground Commander at different levels, Border Guard, Transportation Police) - Ministry of Construction - Ministry of Health - MONRE - Fisheries Directorate, and Division - VOV, VTV - Coastal Information Channels - Red Cross, Youth Union 	According to regulations



Thank you very much !

