

Disclaimer

This report was compiled by an ADRC visiting researcher (VR) from ADRC member countries.

The views expressed in the report do not necessarily reflect the views of the ADRC. The boundaries and names shown and the designations used on the maps in the report also do not imply official endorsement or acceptance by the ADRC.



The Philippine Disaster Risk Reduction and Management System (PDRRMS)

A Country Report

Presented by

Ms. Ma. Aletha Ahumada Nogra

Civil Defense Officer III, Office of Civil Defense

Department of National Defense (OCD-DND) Regional Center VI

during the 2013 ADRC Visiting Researcher Program

Kobe, Hyogo, Japan

Main Contents of Country Report

- ◆ General Information
- ◆ Natural Hazards Characteristic of the Country
- ◆ Disaster Management System
- ◆ Disaster Management Plan
- ◆ Budget Size on National Level
- ◆ Progress and Situations of the Hyogo Framework for Action (HFA)
- ◆ ADRC Counterpart
 - ◆ Main Contents of Related Information
 - Link to the Disaster Management Organizations
 - Legal System
 - Organization
 - Plan



Philippine Hazardscape and Risk Profile

Earthquake Generators

Typhoon Belt

El Niño Phenomenon

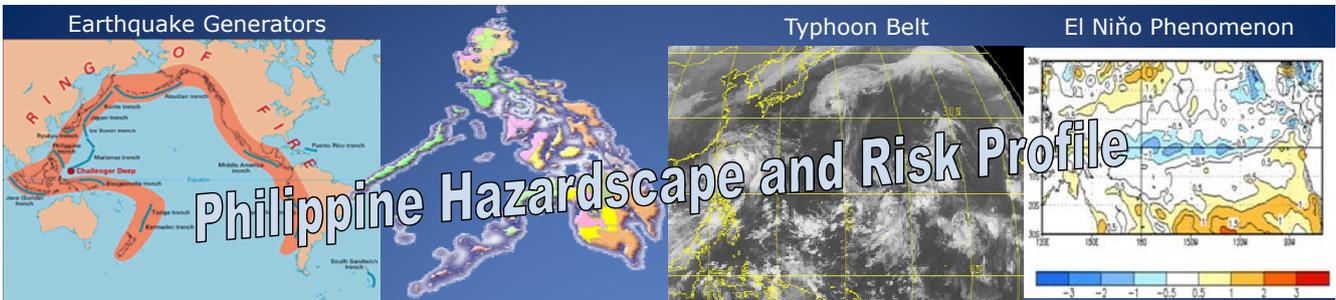
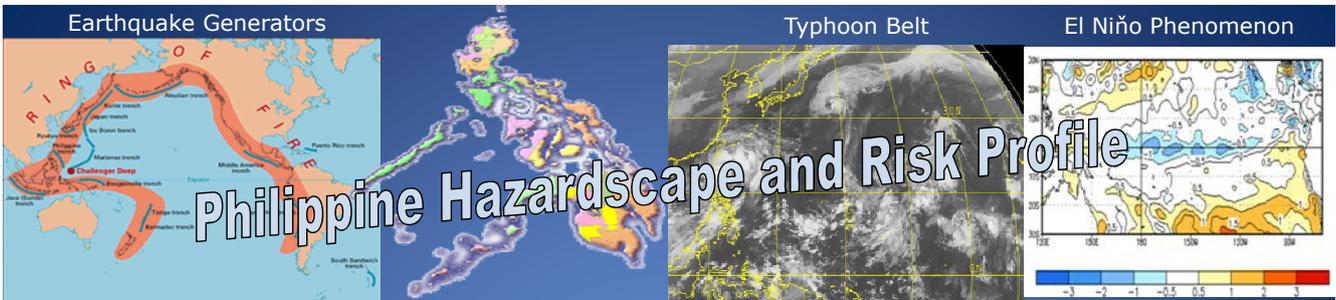
Guimaras Oil Spill

Typhoon Frank (Fengshen)

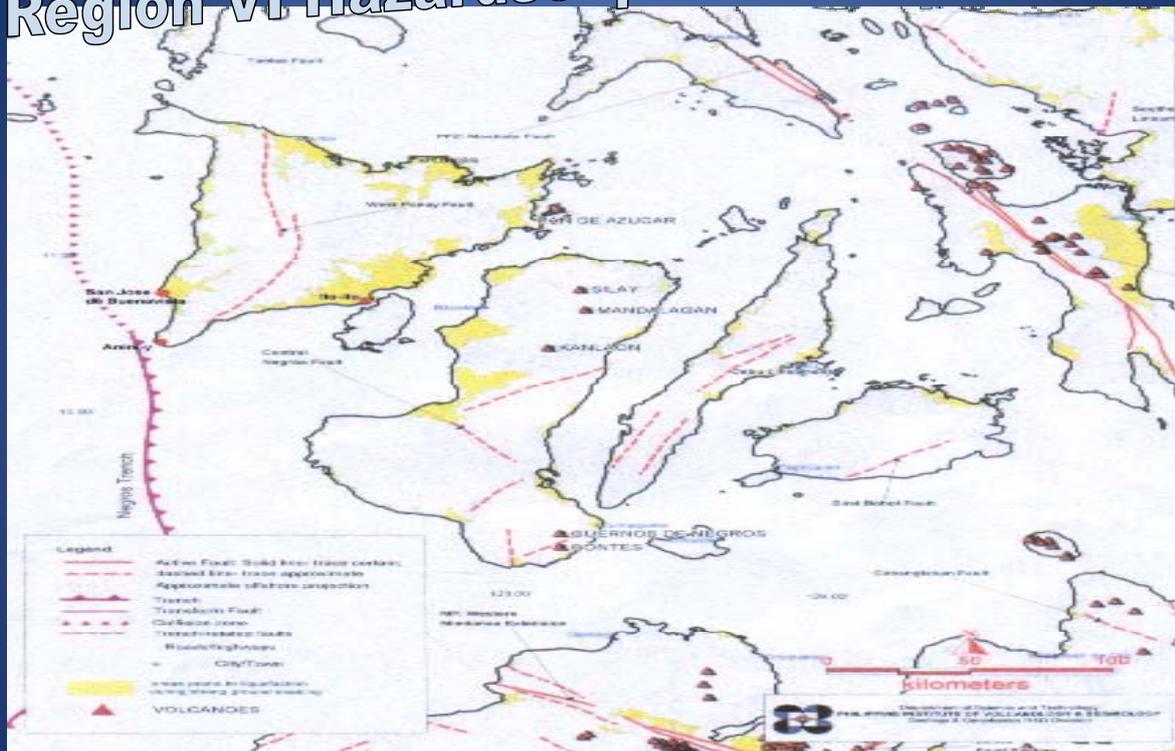
Tropical Storm Sendong (Washi)

6.9 Earthquake in Negros Oriental

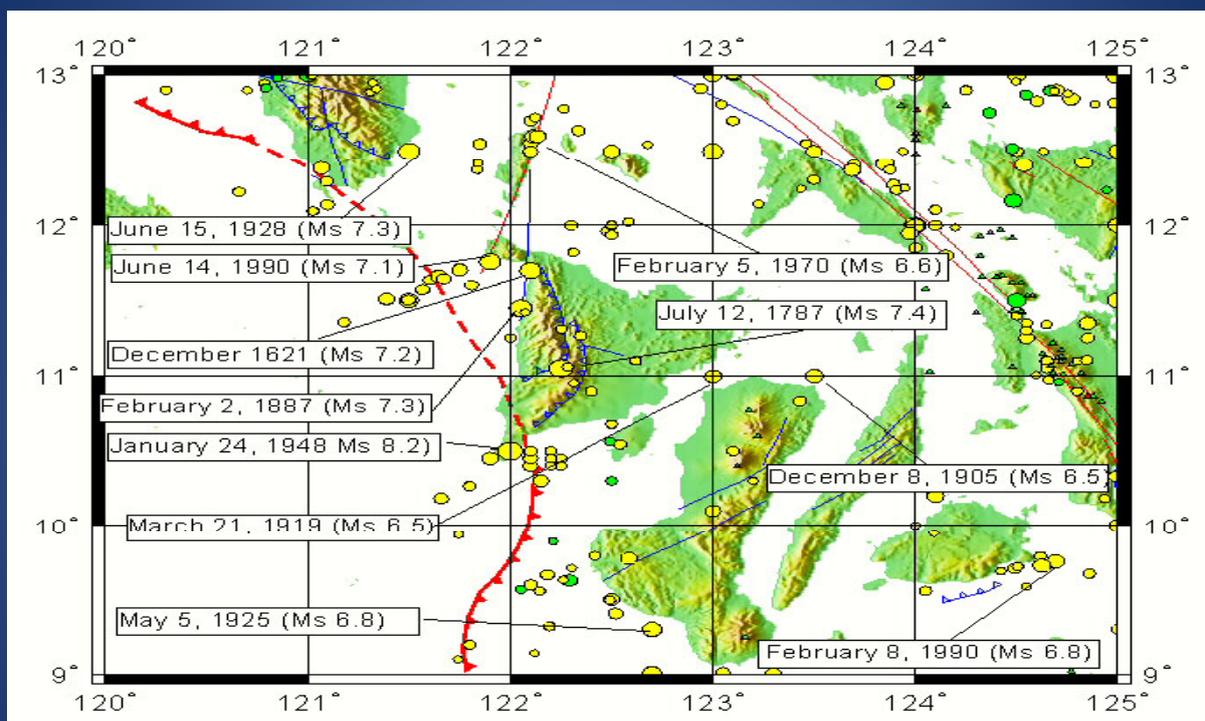
Compostela Valley Landslide



Region VI Hazardscape and Risk Profile



Distribution of Volcanoes & Seismic Hazards in Region VI

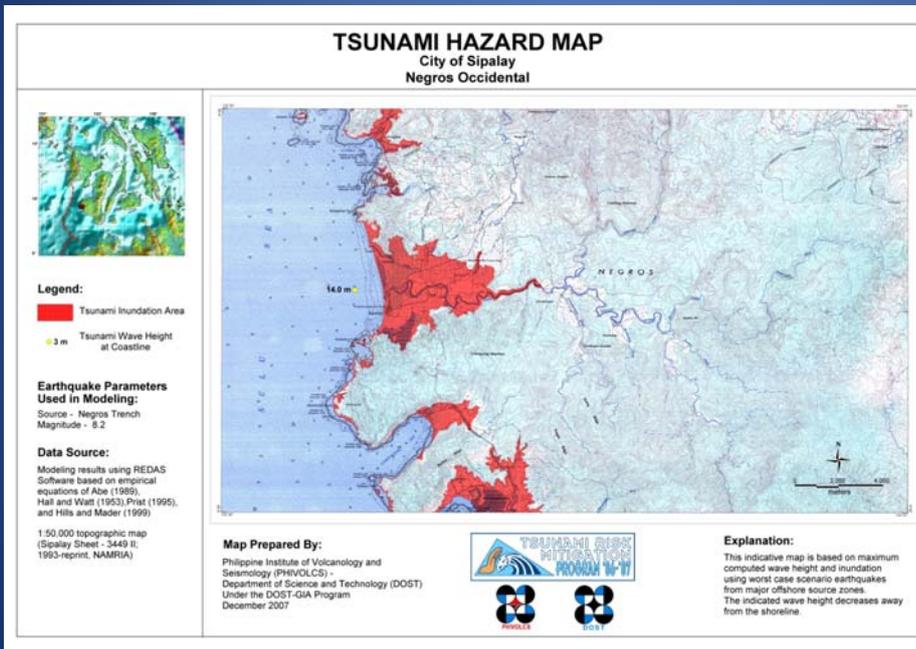


Seismicity of Region VI for the last 400 years (Ms 5 and above)

679 Tsunami-Prone Barangays in WV

Basis of listing of Tsunami Prone Barangays are indicative maps utilizing maximum wave height and inundation (worst case scenario earthquakes) from major offshore source zones.

Modeling results using Rapid Earthquake Damage Assessment System (REDAS) Software based on empirical equations



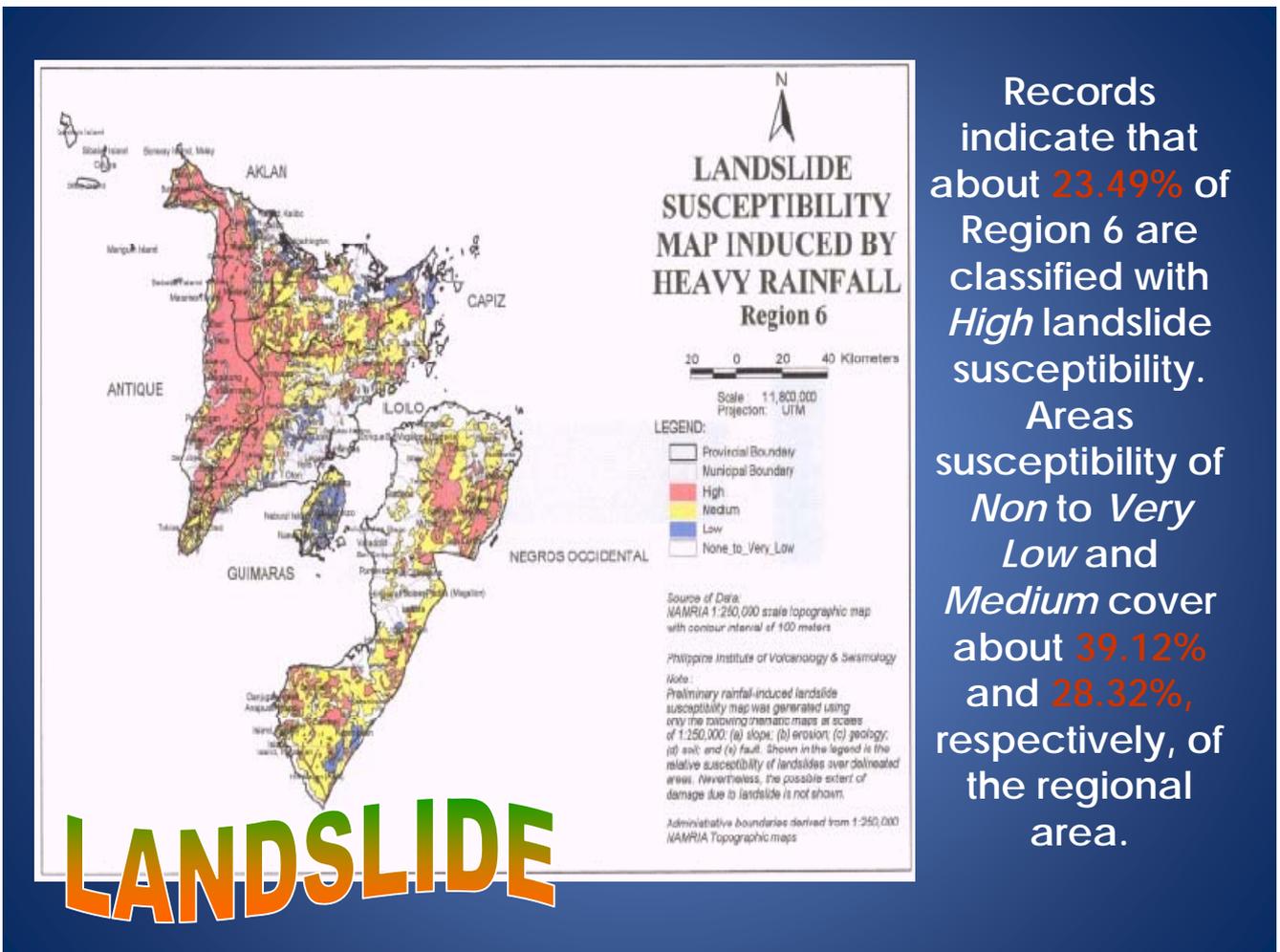
Aklan – 49; Antique – 230; Guimaras – 19; Negros Occidental – 172 (Sibalay 12); Iloilo – 110; Iloilo City - 99

Typhoon Frank

➤ On June 21, 2008, Typhoon Frank devastated the region which resulted to 305 deaths, 226 missing and 2,555 injured persons and a total of 9,678,453,462.28 Billion Pesos worth of damages in the infrastructure, agriculture, health, education, shelter and the environment.



FLOOD



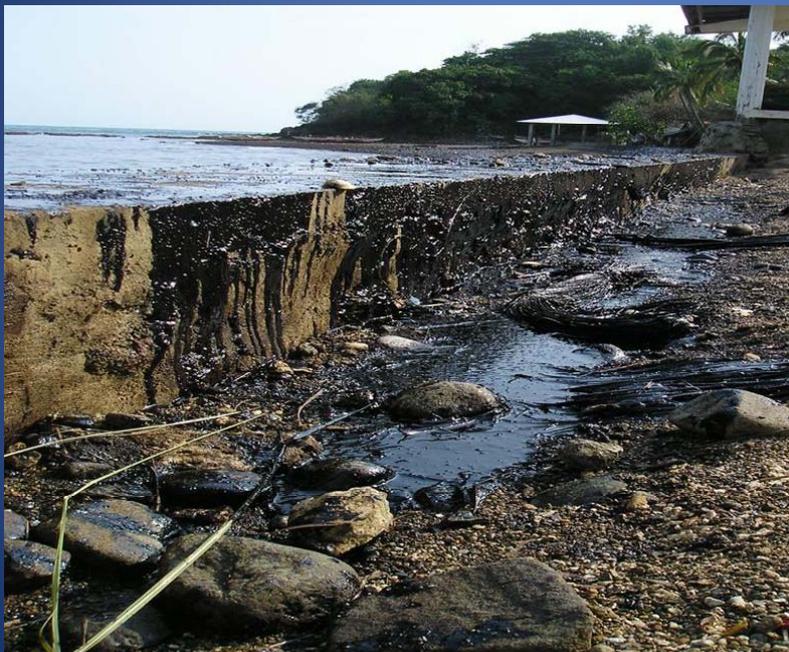
Records indicate that about **23.49%** of Region 6 are classified with *High* landslide susceptibility. Areas susceptibility of *Non to Very Low* and *Medium* cover about **39.12%** and **28.32%**, respectively, of the regional area.

LANDSLIDE

SUMMARY OF GEOHAZARD MAPPING AND ASSESSMENT (1:50,000 scale)

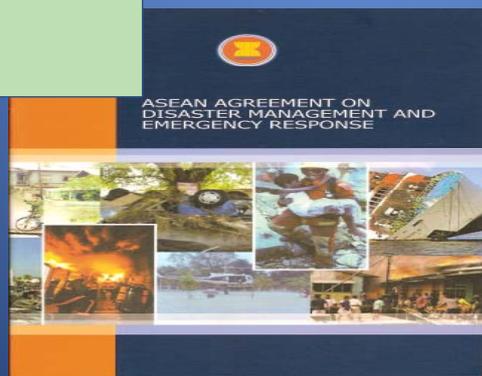
Province	Total No. of Mun/Cities	Total No. of Brgys.	High	Moderate	Low	None	No. of Brgys. Assessed
1. Iloilo	44	1,899	331	257	319	992	1,899
2. Antique	18	592	185	95	83	229	592
3. Capiz	17	473	46	38	129	260	473
4. Aklan	17	319	33	63	36	187	319
5. Negros Occ.	32	662	23	53	106	480	662
6. Guimaras	5	98	8	16	22	52	98
Total	133	4,043	626	522	695	2,200	4,043

Oil Spill in Guimaras



On August 11, 2006, the largest oil spill in the country which happened in the Province of Guimaras had affected 1,143.45 hectares of marine reserve along 234.84 km coastline and affected 478.48has. of mangroves, 107 has. of seaweeds and 974 has of fishponds

Significant Milestones in DRM



00_XXXXXXXX_15

Milestones in DRRM

Republic Act No. 10121

“ An Act Strengthening the Philippine Disaster Risk Reduction and Management System, Providing for the National Disaster Risk Reduction and Management Framework, Institutionalizing the National Disaster Risk Reduction and Management Plan, Appropriating Funds Therefor and for Other Purposes

Salient Features of RA 10121

- **Policy Statements and Terminologies on DRRM**
- **Scope** (all aspects of DRRM – governance, risk assessment & early warning, knowledge building and awareness raising, reducing underlying risk factors and preparedness for effective response)
- **Institutional Mechanisms and Functions**
 - DRRMCs (National, Regional, Provincial, City and Municipal Levels and the Barangay Development Council at the barangay level)
 - Office of Civil Defense
 - Permanent DRRMO at the P/C/M Level; DRRM Committee at the barangay level
 - Disaster Volunteers

Salient Features of RA 10121

- **Operational Mechanisms**
 - Coordination during Emergencies
 - Declaration of a State of Calamity
 - Remedial Measures
 - Mechanism for the IHAN
- **Participation, Accreditation, Mobilization, Protection and Development of Disaster Volunteers**
- **Training and Education in DRR**
 - Establishment of DRRM Training Institutes
 - Mandatory Training in DRR for Public Sector Employees
 - Integration of DRR in school curricula (secondary and tertiary)
 - National Service Training Program (NSTP)
 - Sangguniang Kabataan
 - Formal and non-formal, vocational, indigenous learning and out-of-school youth courses and programs

Salient Features of RA 10121

The National Disaster Risk Reduction and Management Council (NDRRMC)

- Secretary, DND as Chairperson
- *Four (4) Vice-Chairpersons:*
 - DILG – Disaster Preparedness
 - DSWD – Disaster Response
 - DOST – Disaster Prevention and Mitigation
 - NEDA – Disaster Rehabilitation and Recovery
- Members: Thirty-Nine (39)
 - Fourteen (14) line departments (DOH, DENR, DA, DepEd, DOE, DOF, DTI, DOTC, DBM, DPWH, DFA, DOJ, DOLE and DOT)
 - Twelve (12) other government agencies / offices (Office of the Executive Secretary, OPAPP, CHED, AFP, PNP, Office of the Press Secretary, NAPC-VDC, NCRFW, HUDCC, Climate Change Commission, PHILHEALTH and OCD)
 - Two (2) GFIs (GSIS and SSS)
 - One quasi-government agency (Philippine Red Cross))
 - Five (5) LGU Leagues (ULAP, LPP, LCP, LMP and LnB)
 - Four (4) Civil Society Organizations
 - One (1) Private Sector Organization
- Executive Director: OCD Administrator with the rank of Undersecretary

Salient Features of RA 10121

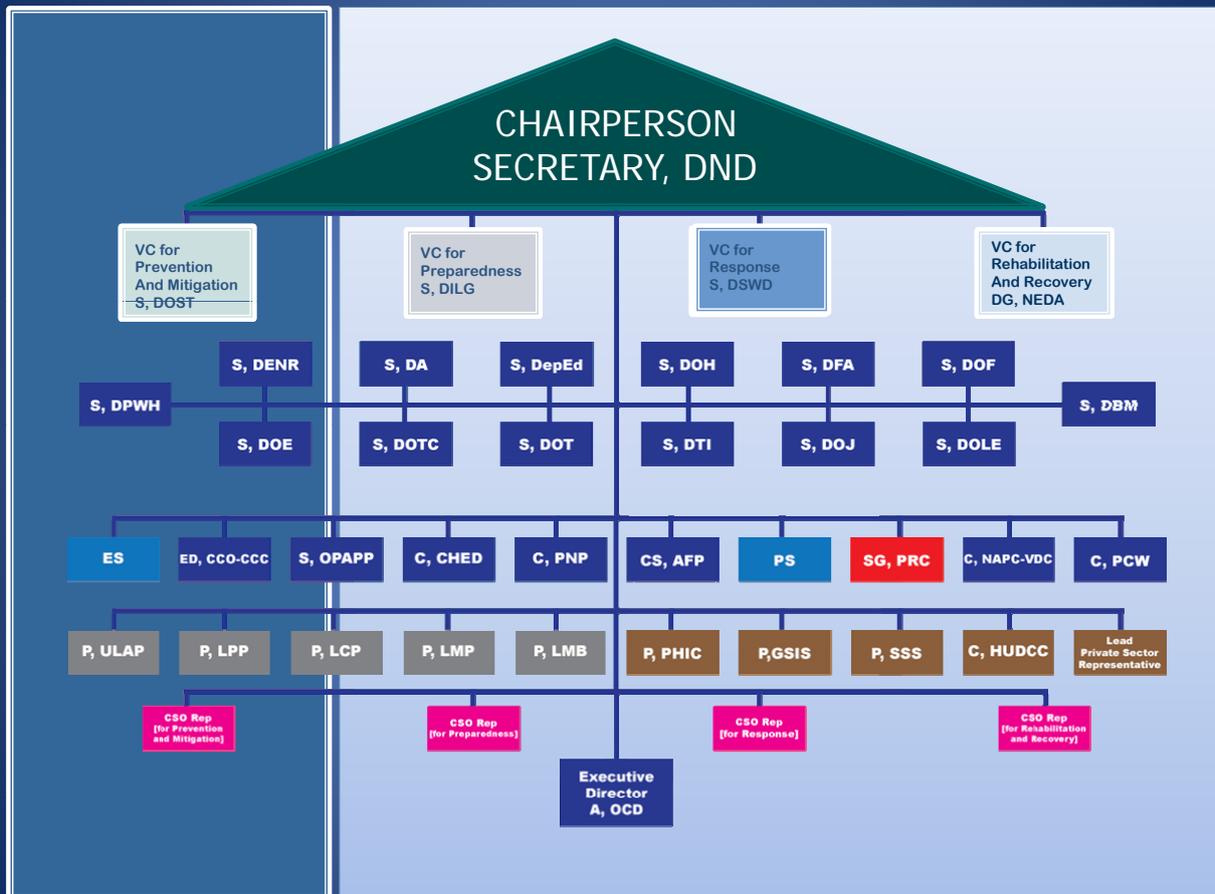
The Regional Disaster Risk Reduction and Management Council (RDRRMC)

- Regional Directory of OCD - Chairperson
- *Four (4) Vice-Chairpersons:*
 - DILG – Disaster Preparedness
 - DSWD – Disaster Response
 - DOST – Disaster Prevention and Mitigation
 - NEDA – Disaster Rehabilitation and Recovery
- Members: Thirty-Nine (36)
 - Fourteen (14) line departments (DOH, DENR, DA, DepEd, DOE, DOF, DTI, DOTC, DBM, DPWH, DFA, DOJ, DOLE and DOT)
 - Twelve (12) other government agencies / offices (CHED, AFP, PNP, NAPC-VDC, NCRFW, HUDCC, Climate Change Commission, PHILHEALTH and OCD)
 - Two (2) GFIs (GSIS and SSS)
 - One quasi-government agency (Philippine Red Cross))
 - Five (5) LGU Leagues (ULAP, LPP, LCP, LMP and LnB)
 - Four (4) Civil Society Organizations
 - One (1) Private Sector Organization
- Secretariat: OCD Regional Office

RA No. 10121

Powers and Functions of the NDRRMC

- NDRRMC is empowered with policy-making, coordination, integration, supervision, monitoring and evaluation functions to be carried out through seventeen (17) tasks / responsibilities as provided for under Sec. 6, RA 10121



The National Disaster Risk
Reduction and Management
Framework (NDRRMF)
approved on June 16, 2011

The NDRRM Framework. .

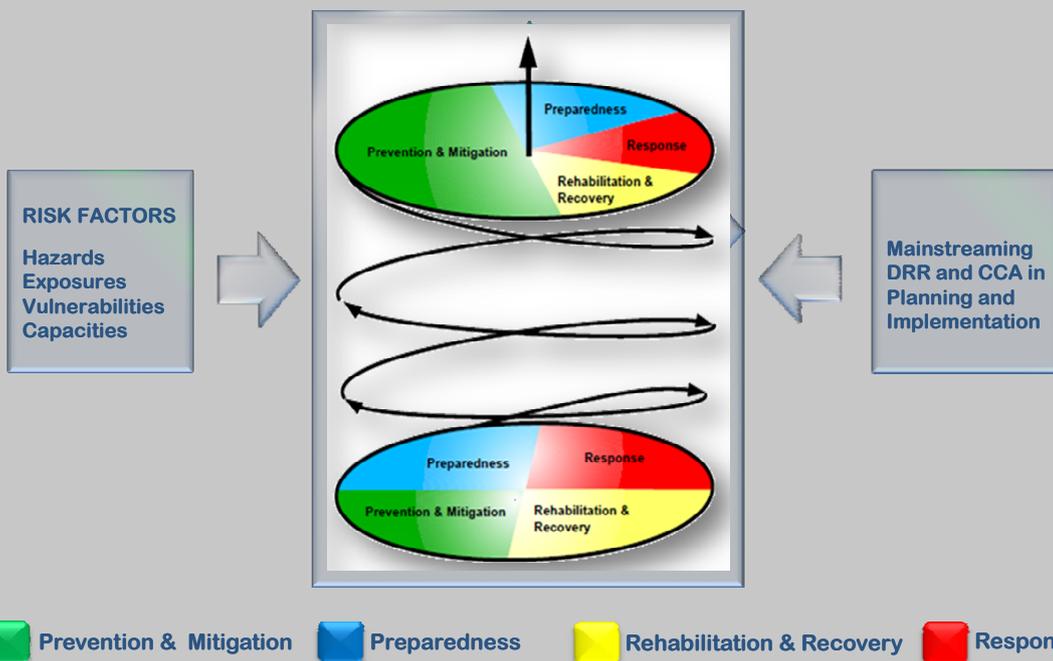
- Serves as the principal guide to DRRM efforts in the country
 - Provides for a comprehensive, all-hazards, multi-sectoral, inter-agency and community-based approach to DRRM

VISION

Safer, adaptive and disaster-resilient Filipino communities towards sustainable development

NDRRM FRAMEWORK

Safer, adaptive and resilient Filipino communities toward sustainable development



The National Disaster Risk Reduction and Management Plan

The National Disaster Risk Reduction and Management Plan (NDRRMP)

- **Serves as a road map** on how disaster risk reduction and management will contribute to the attainment of sustainable development, build the adaptive capacities of communities, increase the resilience of vulnerable sectors and optimize disaster mitigation opportunities with the end in view of promoting people's welfare and security towards gender-responsive and rights-based sustainable development.
- **Outlines the activities aimed at strengthening the capacity of the national government and the LGUs together with partner stakeholders**, to build the disaster resilience of communities and to institutionalize arrangements and measures for reducing disaster risks, including projected climate risks and enhancing disaster preparedness and response capabilities at all levels.

The National Disaster Risk Reduction and Management Plan (NDRRMP) (cont'd)

- Highlights the importance of mainstreaming DRRM and CCA in the development processes such as policy formulation, socioeconomic development planning, budgeting and governance particularly in the area of environment, agriculture, water, energy, health, education, poverty reduction, land-use and urban planning and public infrastructure and housing, among others
- Also highlights the need for institutionalizing DRRM policies, structures, coordination mechanisms and programs with continuing budget appropriation on DRR from national down to local levels. Through permanent mechanisms, competency and science-based capacity building activities can be done, alongside the nurturing of continuous learning through knowledge development and management of good DRRM practices on the ground.
- Inclusion of human-induced disasters in the area of DRRM, based on RA 10121. This means that mainstreaming DRRM into the peace process and conflict resolution approaches is also included in the national DRRM plan. Through this, losses in lives and damages to properties will be minimized and communities in hazards and conflict zones can immediately go back to their normal lives after.

In summary, the NDRRMP has:

4 Priority Areas with 4 Long Term Goals

14 Objectives

24 Outcomes

56 Outputs

93 Activities

THE NATIONAL DRRM PLAN 2011-2028 **DRRM Priority Areas and Long-Term Goals:**

Disaster Preparedness

Establish and strengthen capacities of communities to anticipate, cope and recover

from the negative impacts of emergency occurrences and disasters

Disaster Response

Provide life preservation and meet the basic subsistence needs of affected population based on acceptable standards during or immediately after a disaster

Disaster Prevention and Mitigation

Avoid hazards and mitigate their potential impacts by reducing vulnerabilities and exposure and enhancing capacities of communities

Disaster Rehabilitation and Recovery

Restore and improve facilities, livelihood and living conditions and organizational capacities of affected communities, and reduced disaster risks in accordance with the "building back better" principle

**Safer,
adaptive and
disaster
resilient
Filipino
communities
towards
sustainable
development**

THE NATIONAL DRRM PLAN 2011-2028

Priority Programs and Projects (2011-2013)

- 1. Development of plans → Joint work plan for DRRM and CCA, Local DRRM plans, National Disaster Response Plan (to include a system for Search, Rescue and Retrieval SRR; scenario-based preparedness and response plans), Risk financing**
- 2. Development of understandable and consistent IEC and advocacy materials on RA 10121, DRRM and CCA**
- 3. Development of guidelines → Communications and information protocol before, during and after disasters; Creation of DRRM teams; Criteria/ standards for local flood early warning systems; Evacuation; Infrastructure redesign and/or modifications; Manual of operations of disaster operations centers**

THE NATIONAL DRRM PLAN 2011-2028

Priority Programs and Projects (2011-2013)

- 4. Development of tools → DRRM and CCA mainstreaming in the national and local-level planning, DANA and Post-DANA; Psychosocial concerns**
- 5. Establishment of → DRRM Training Institutes; End-to-End local flood early warning systems through integrated and sustainable management river basins and water sheds; local DRRM Councils and Offices and their operations centers**
- 6. Conduct inventory of existing DRRM and CCA resources and services**
- 7. Development and implementation of DRRM and CCA activities using the 5% of government agency's GAA**
- 8. Hazard and risk mapping in the most high-risk areas in the country**

THE NATIONAL DRRM PLAN 2011-2028

Priority Programs and Projects (2011-2013)

- 9. Institutional capability program on DRRM and CCA for decision makers, local chief executives, public sector employees, and key stakeholders**
- 10. Mainstreaming DRRM and CCA in local development planning.**
- 11. PDNA capacity building for national government agencies, regional line agencies, and local offices**
- 12. Review, amend and/or revise the Building Code and integrate DRRM and CCA; Executive Order no. 72 s. 1993; Implementing Rules and Regulations of RA 10121; Various related environmental policies**

Institutionalization of Incident Command System (ICS)



Budget / DRRM Funds

- SEC. 21. *Local Disaster Risk Reduction and Management Fund (LDRRMF).*
- SEC. 22. *National Disaster Risk Reduction and Management Fund (NDRRMF).*
- SEC. 23. *Funding of the OCD. - As lead agency to carry out the provisions of this Act, the OCD shall be allocated a budget of One billion pesos (PhP 1,000,000,000.00) revolving fund starting from the effectivity of this Act.*

Link to DM Organizations

- The Philippines is a pilot country using a common code of hazard events, i.e., the web-based Global Unique Disaster Identifier (GLIDE) number established by the **Asian Disaster Reduction Center (ADRC) in Japan**. The OCD partnered with ADRC to maintain CALAMIDAT.PH, a Philippine database of natural and human-induced disaster events that uses the code
- **ADRC Visiting Researcher Program**
- **JICA** capacity enhancement Program for OCD 2010 to 2015
- **Oxfam International** re DP activities
- **Hawaii-based Pacific Tsunami Warning Centre (PTWC)**
- **Association of Southeast Asian Nations (ASEAN)** regional cooperation on risk reduction
- **ASEAN Regional Emergency Response Simulation Exercise (ARDEX)**

Link to DM Organizations

- **World Bank** on PDNA re rehabilitation of devastation of Typhoon Sendong (Pharma)
- **RedR Australia** re conduct of USAR
- **USAID-USFS-ASEAN** institutionalizing Incident Command System (ICS)
- **AUSAID** re Human Resource Development for OCD-DND
- United Nations Economic Commission for Latin America and the Caribbean (UNECLAC) re damage and needs assessment methodology.
- The Building Safe Learning Environments (BSLE) Project (June 2007-June 2008) implemented by DepEd with funding support from **UNICEF, Swedish and Dutch governments**.
- Mainstreaming DRR into the infrastructure sector is being addressed with support from the **Asian Disaster Preparedness Center (ADPC)**
- **United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA)**, the **International Search and Rescue Advisory Group (INSARAG)** Asia-Pacific Earthquake Response Simulation Exercise
- **PHapCares Foundation, Inc.**, for the *"Gamot-Agad" Program which is aimed to provide immediate dispatch of essential quality medicines to disaster victims and other victims of prevalent emergencies.*

Link to DM Organizations

- Community-Based Disaster Risk Management (CBDRM) as a model to engage communities in DRR undertaking **PDRSEA Phase 4 Project supported by the Asian Disaster Preparedness Center (ADPC)** and the European Commission
- The DILG in cooperation with **the German Technical Cooperation (GTZ), DIPECHO**, the League of Provinces of the Philippines, the UP Department of Geography and Philippine Geographical Society,
- convened the “First National Conference on Mainstreaming Disaster Risk Reduction (NCDRR) in Local Governance
- **AusAID** with technical assistance from UNDP re “Hazards Mapping and Assessment for Effective Community-Based Disaster Risk Management Project” (called READY)

ADRC Counterpart

Principal

Name : **USEC Benito T. Ramos**
Job Title : Administrator, Office of Civil Defense (OCD) and Executive Director, National Disaster Risk Reduction and Management Council (NDRRMC)
Organization : OCD-NDRRMC
Office Address : Office of Civil Defense
Camp General Emilio Aguinaldo, Quezon City, Philippines
Telephone Nos.: (632) 9122424 / (632) 9115061 up to 65
Fax No. : (632) 9122424 / (632) 9111406
E-mail Address : genramos@ndcc.gov.ph

Alternate:

Name : **Crispina B Abat**
Job Title : Chief, Plans and Program Division and Head, NDRRMC Secretariat
Organization : OCD-NDRRMC
Office Address : Office of Civil Defense
Camp General Emilio Aguinaldo, Quezon City, Philippines
Telephone Nos. : (632) 9120441 / (632) 9125947 / (632) 9115061 up to 65
Fax No. : (632) 9120441 / (632) 9125947
E-mail Address : crispinab.abat@yahoo.com



NDRRMC



OFFICE OF CIVIL DEFENSE



RDRRMC VI

Thank You and Mabuhay!

Contact Numbers:

(+6333) 337-6671; (+6333) 336-9353; (+6333) 509-7919

E-mail: ocdrc6@yahoo.com.ph / aletahumada26@yahoo.com

SMS: (+63)915-7905408 / Mobile: +63-9176346314

ADRC Visiting Researcher Program
January 15 to April 23, 2013