

Regional workshop on “Geo-referenced information system for improving disaster risk preparedness and management in Asia and the Pacific”

26-27 June 2014, UNCC, Bangkok, Thailand

DRRM in the Philippines: *DRRM Projects, Geoportals and Socio-Economic Integration*

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DOST Committee on Space Technology Application

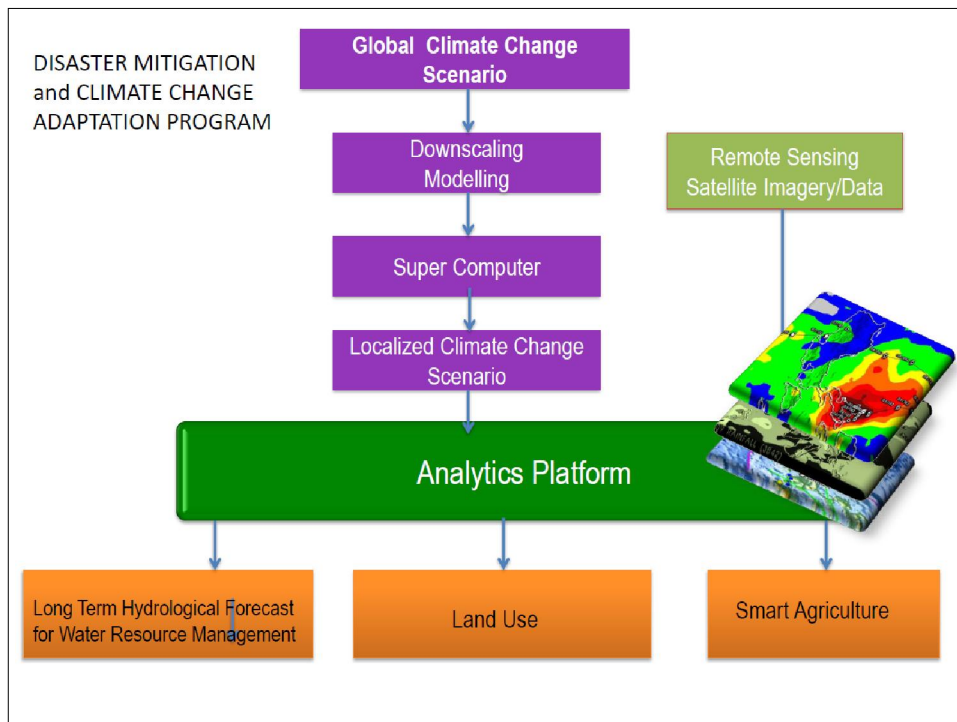


UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific



Outline

- DRRM Efforts in the Philippines
- Socio-Economic Data and Potential Integration in DRRM
- Planned Future Actions



DRRM Efforts (Examples)

- UP DOST NOAH Project
- UP DOST DREAM Program
- UNDP CCC Project Rebuild

NOAH Project



Component Projects

- Hydromet Sensors Development
- DREAM-LIDAR 3-D Mapping Project
- Flood NET-Flood Modeling Project
- Hazards Information Media
 - Strategic Communication Intervention
 - Disaster Management using WebGIS
- Enhancing Geo-hazards Mapping through LIDAR
- Doppler System Development
- Landslide Sensors Development Project
- Storm Surge Inundation Mapping Project
- Weather Information - Integration for System Enhancement (WISE)

Disaster Management using WEB-GIS



Objective

To provide robust visualization of geospatial data where the end-users can avail of near real-time high resolution hazards and disaster-related information as an important tool for decision- making.

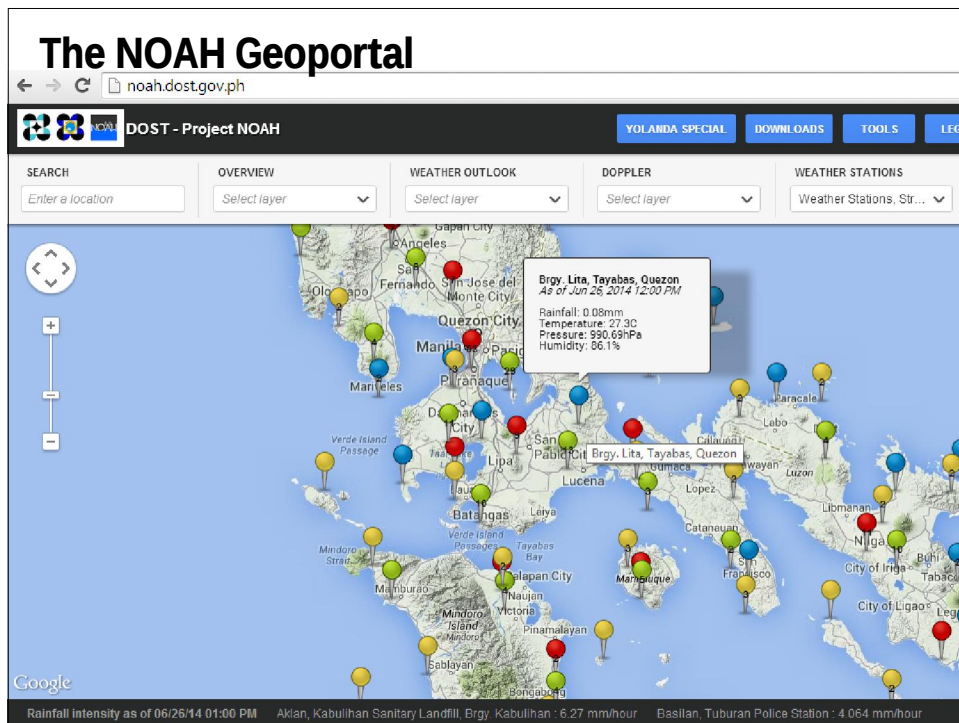
Accomplishments

- Web-based and mobile-based platforms (mobile apps) of noah.dost.gov.ph
- A central active repository of hazards and disaster-related information in the form of a disaster information geo-database system.
- Prototype I of Moses Tablet developed and launched. 70 units for distribution in Metro Manila preferably to barangays and PAGASA Regional Directors

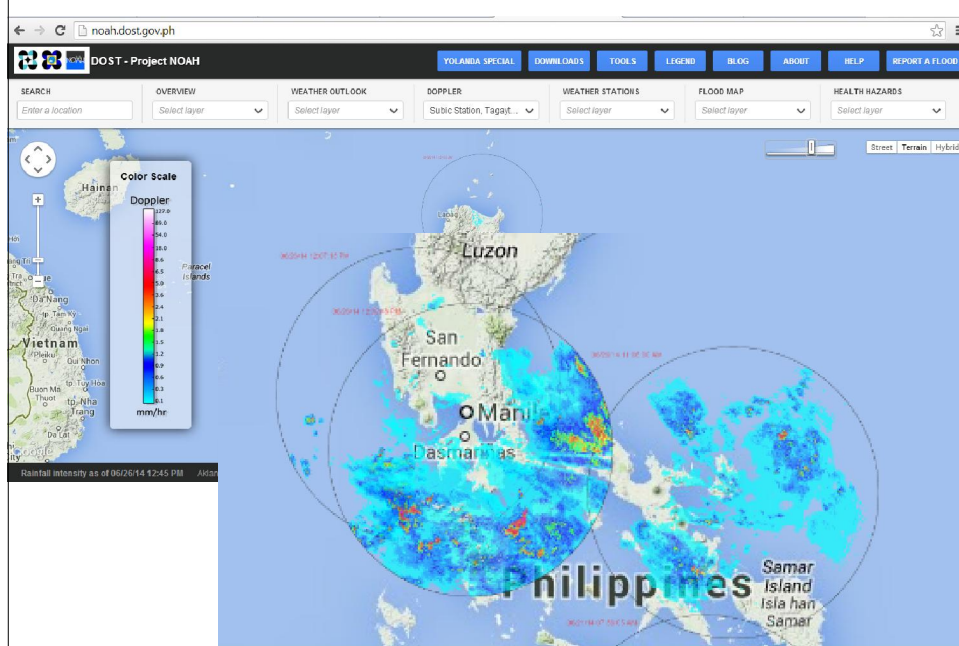
NOAH Project



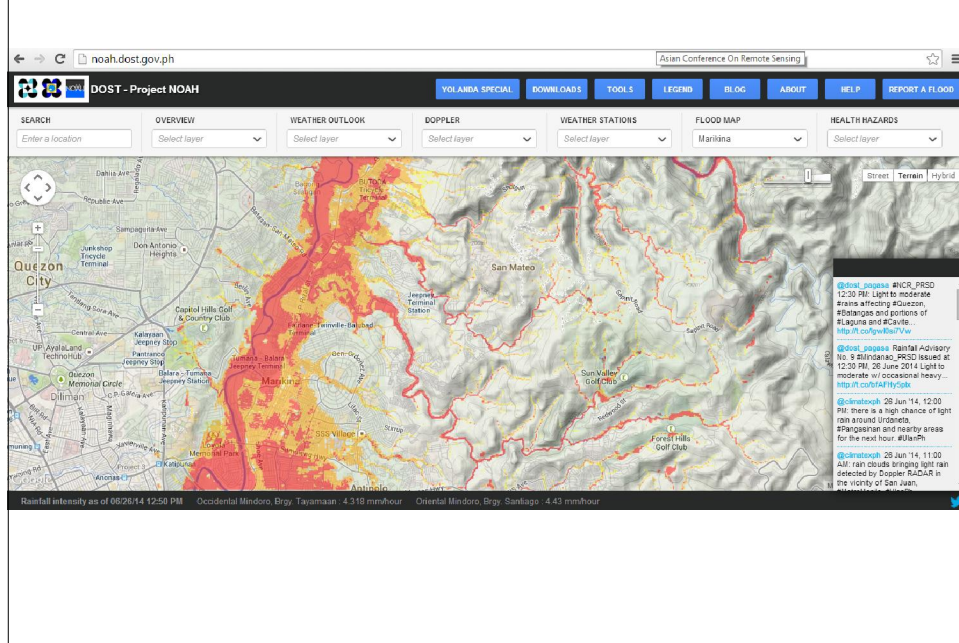
Project NOAH App for Android and iOS available



Doppler Radar Data(noah.dost.gov.ph)



Flood Map (noah.dost.gov.ph)



DREAM Program

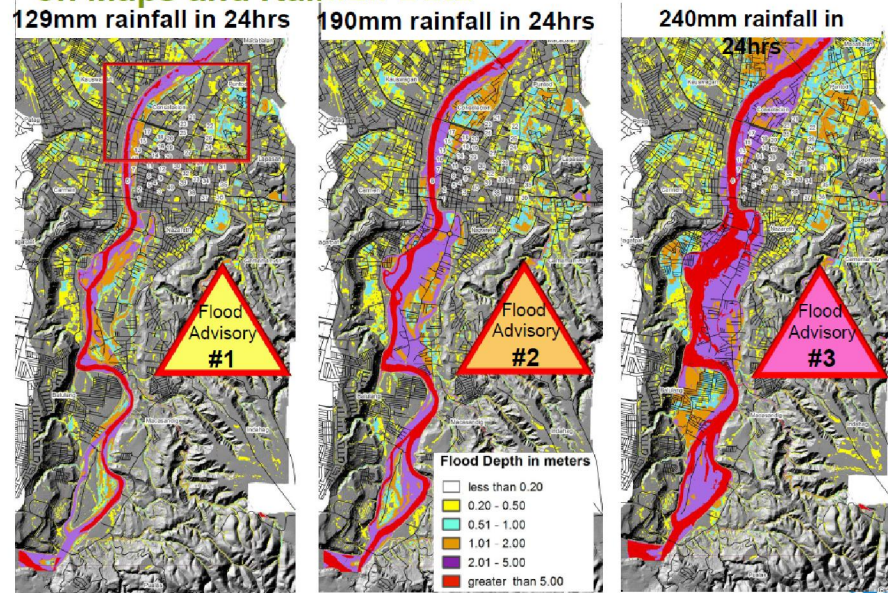


DREAM Program

- High-resolution data sets, especially for the flood plains
- Flood models è estimates of flood levels and inundation patterns è early (6-hour) warning system
- Exposure Data: Feature extraction (structures) from LiDAR data sets.



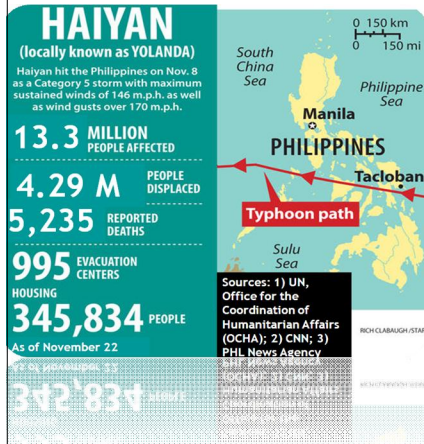
Development of Flood Advisory System based on Maps and Rainfall Data



Visualizing a flood hazard map in 3D



Satellite-based Monitoring of Rehabilitation in Typhoon-affected Regions (SMARTER Visayas)



Objectives

To acquire high-resolution satellite multispectral satellite imagery through a dedicated tasking services (DTS) for rapid assessment of the damages (e.g. infrastructures, natural resources)

Expected Outputs

- Geocoding of damaged areas and rehabilitation in 171 municipalities and cities, at least within 50 kms from the path of the eye of the typhoon, equivalent to 26,800 sq.km.
- Basic datasets in GIS compatible format linked to population data, administrative boundaries of barangay, municipalities and cities.

DOST DIRECTED RESEARCHES IN CY 2014

DREAM Phase 1 Outputs

Nationwide Hazard

Philippine Resources

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_5377

