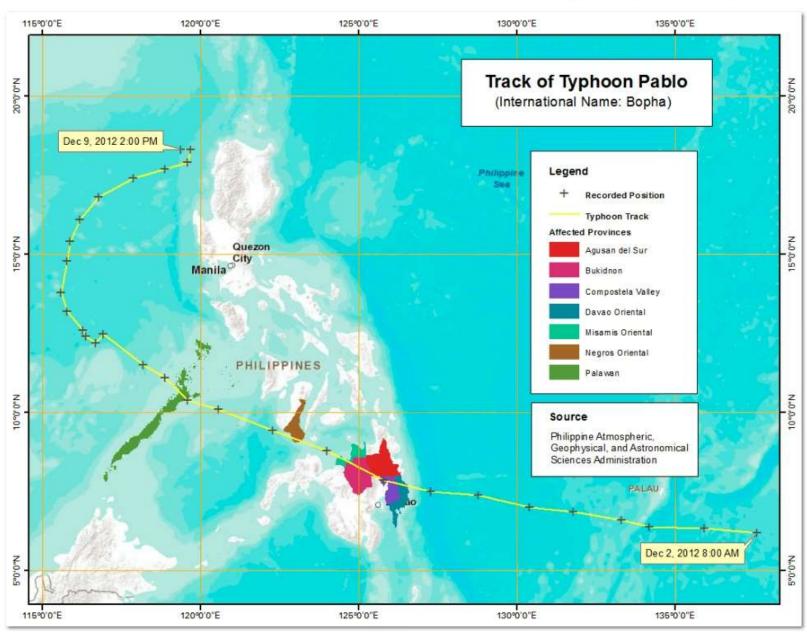


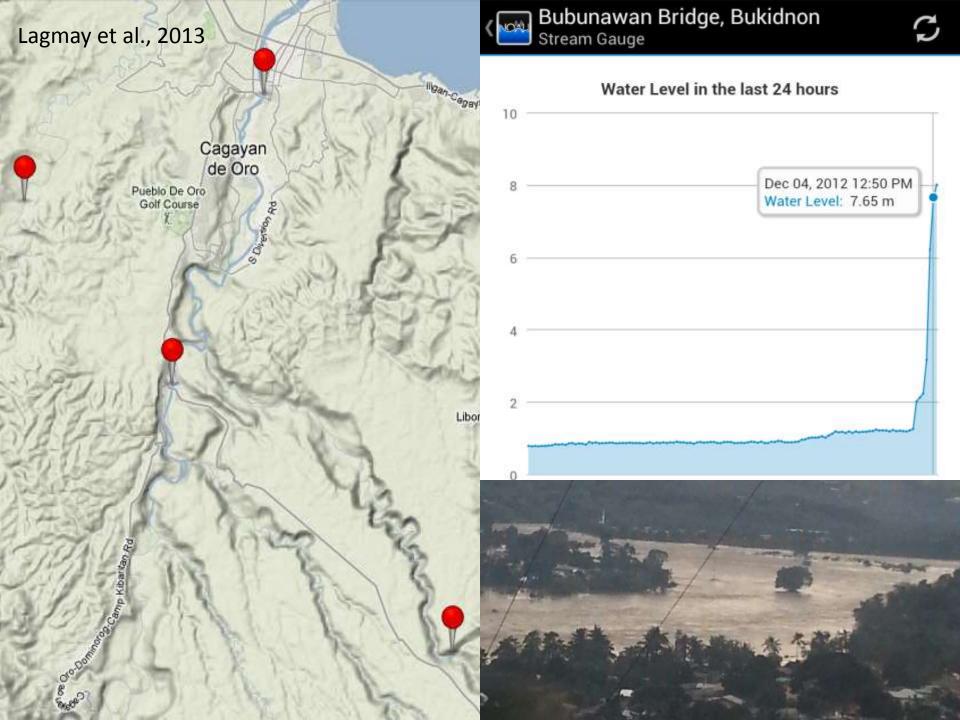
Project NOAH

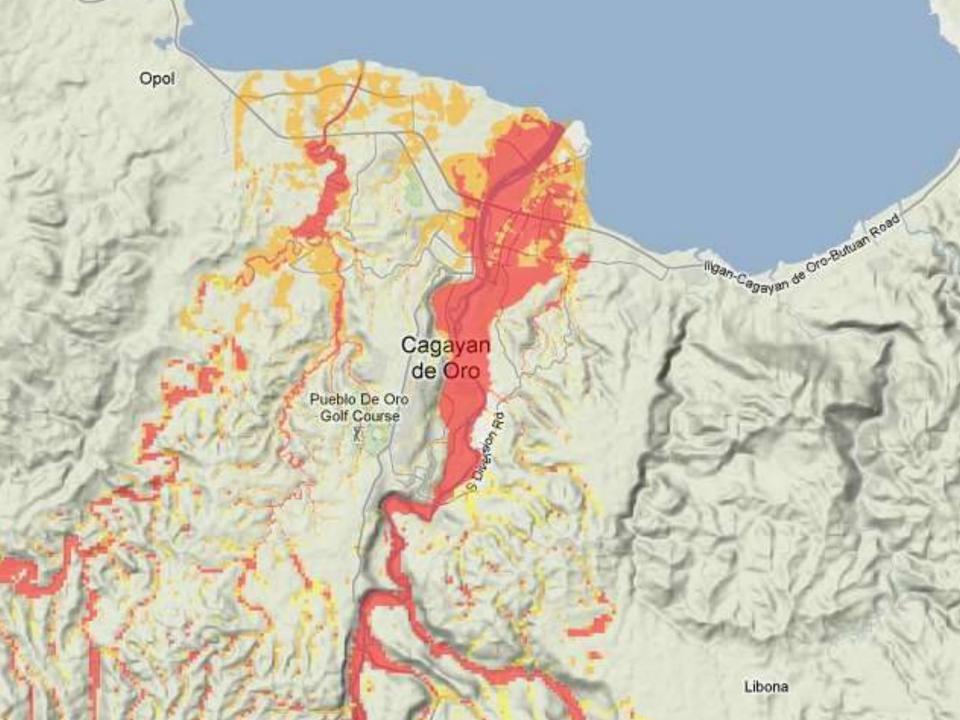
DOST Project NOAH team and collaborators

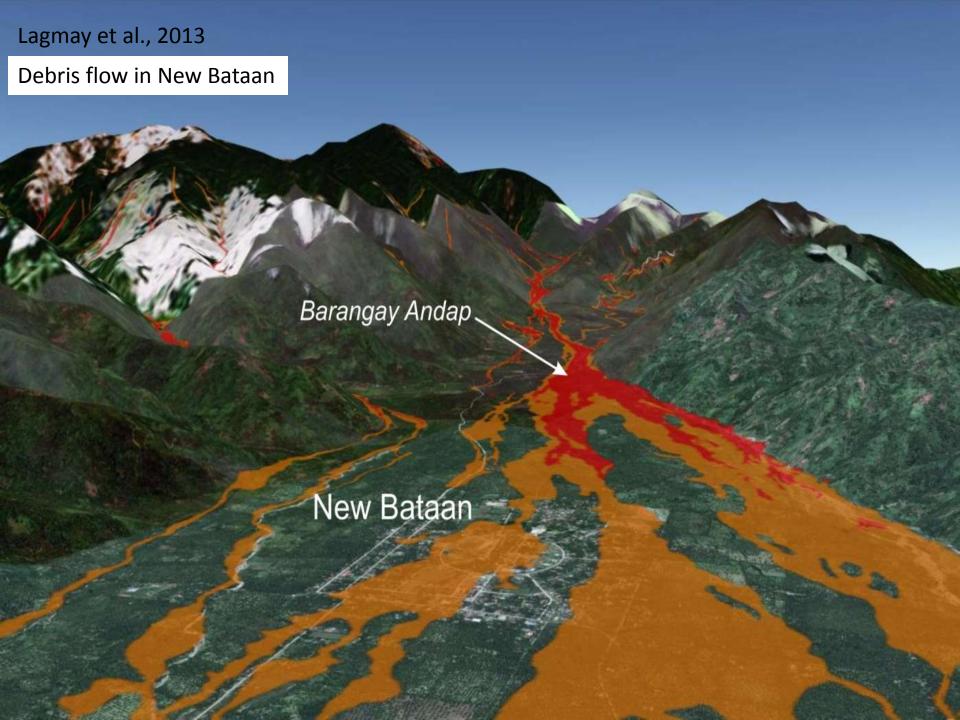












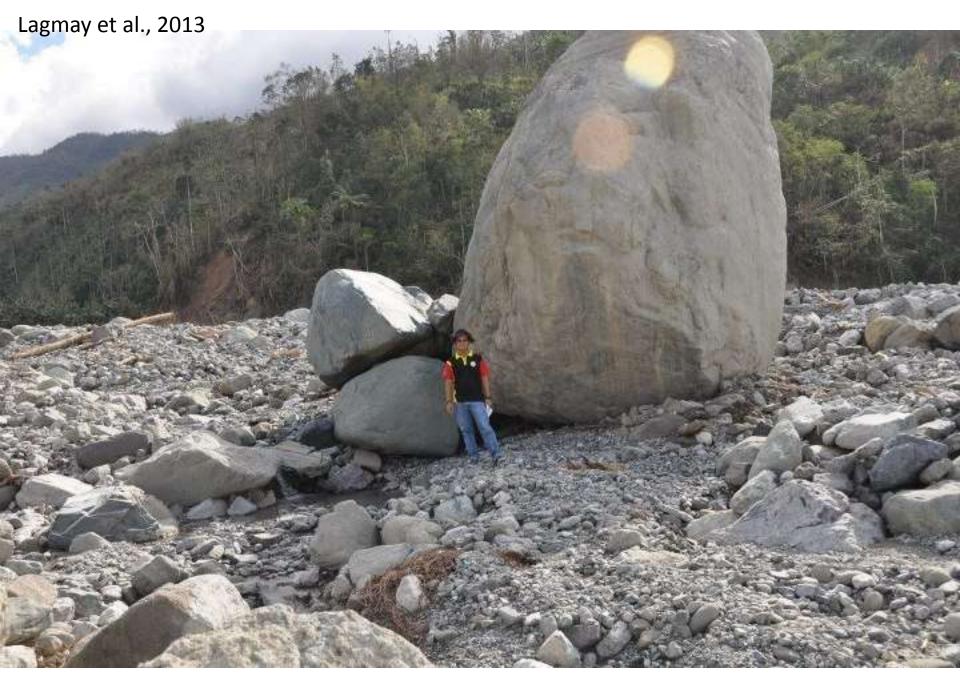
Lagmay et al., 2013 Bgy. Andap, before and after typhoon Pablo images



Debris flow field in New Bataan, Compostela Valley



Debris flow field in New Bataan, Compostela Valley

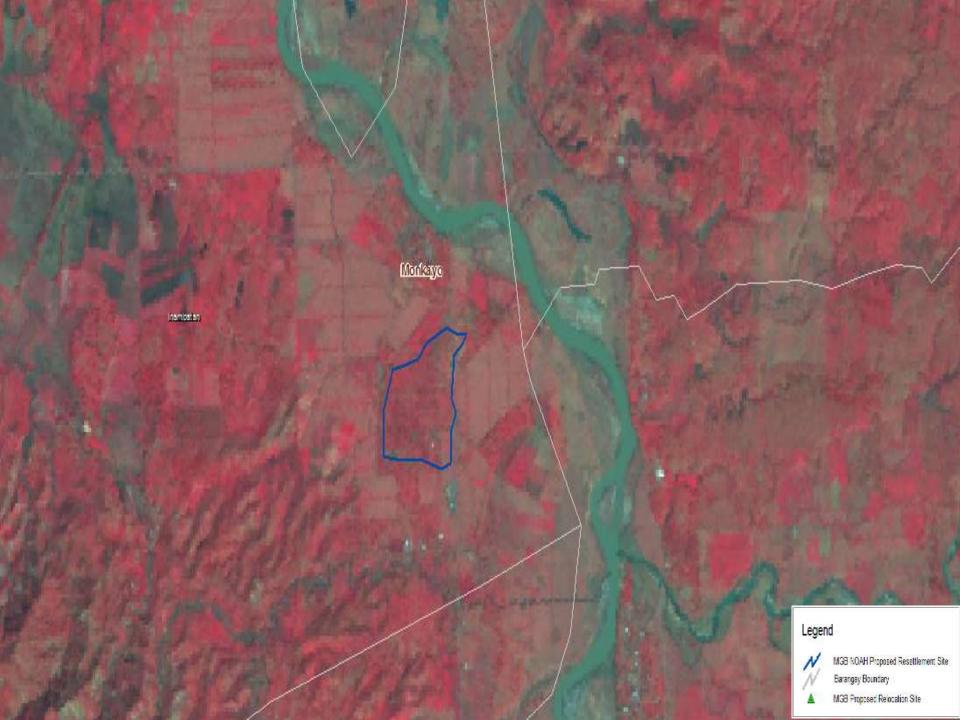


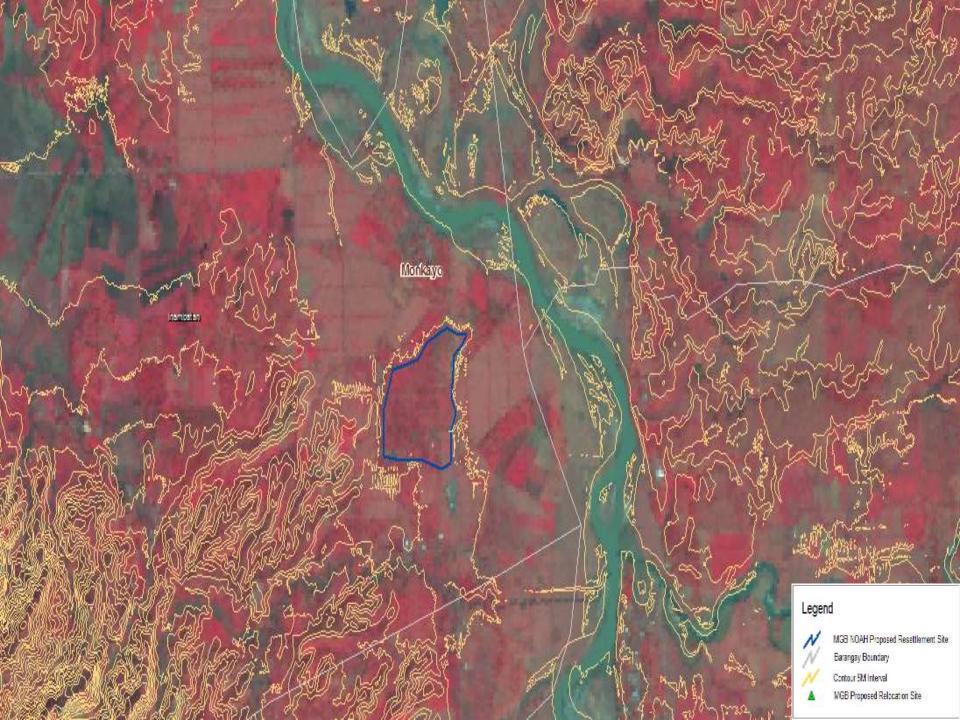
Debris flow field in New Bataan. Volume of deposit – 25-30 million cubic meters

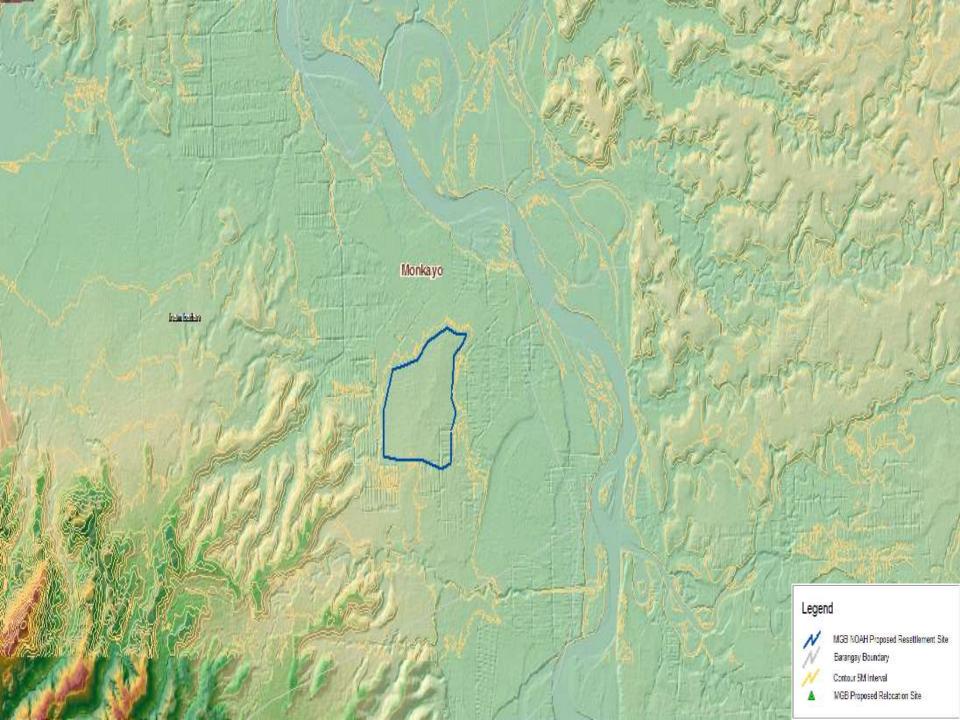
Debris flow field in New Bataan, Compostela Valley

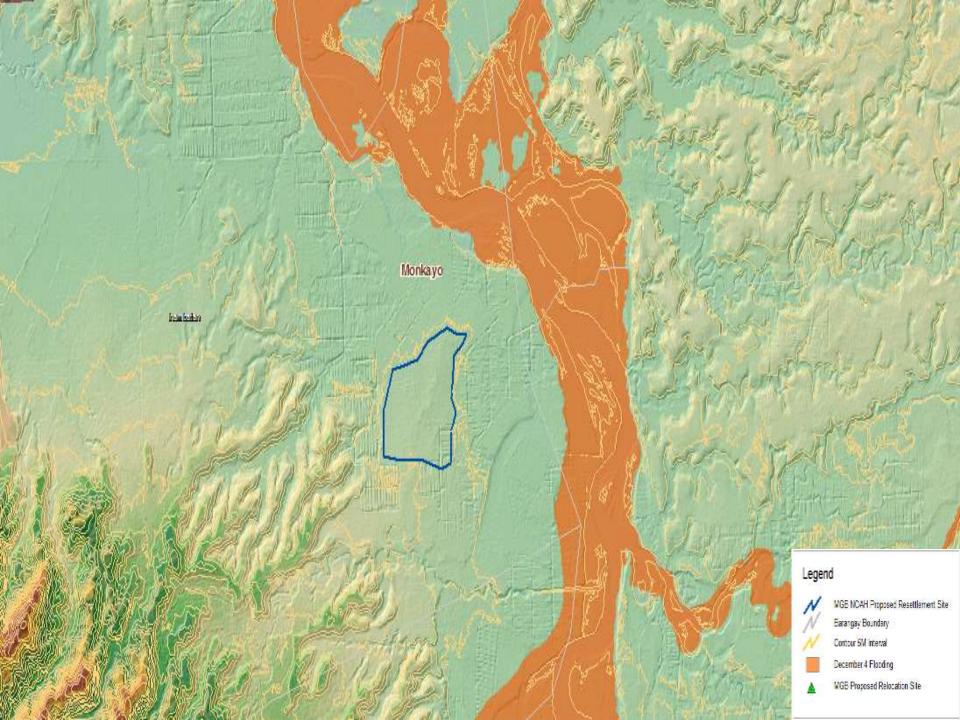


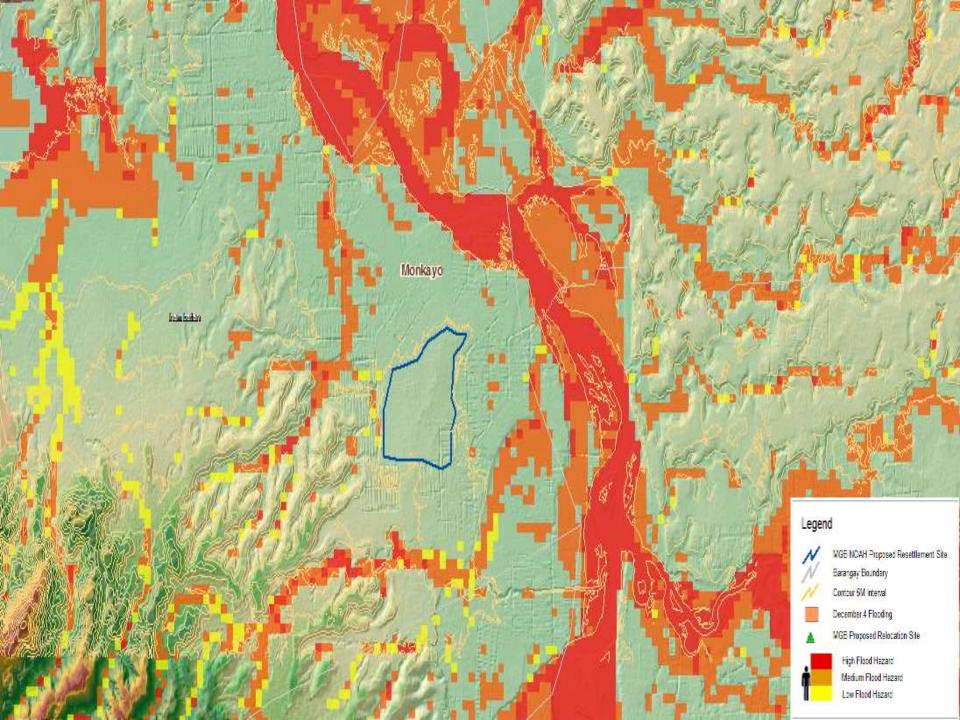




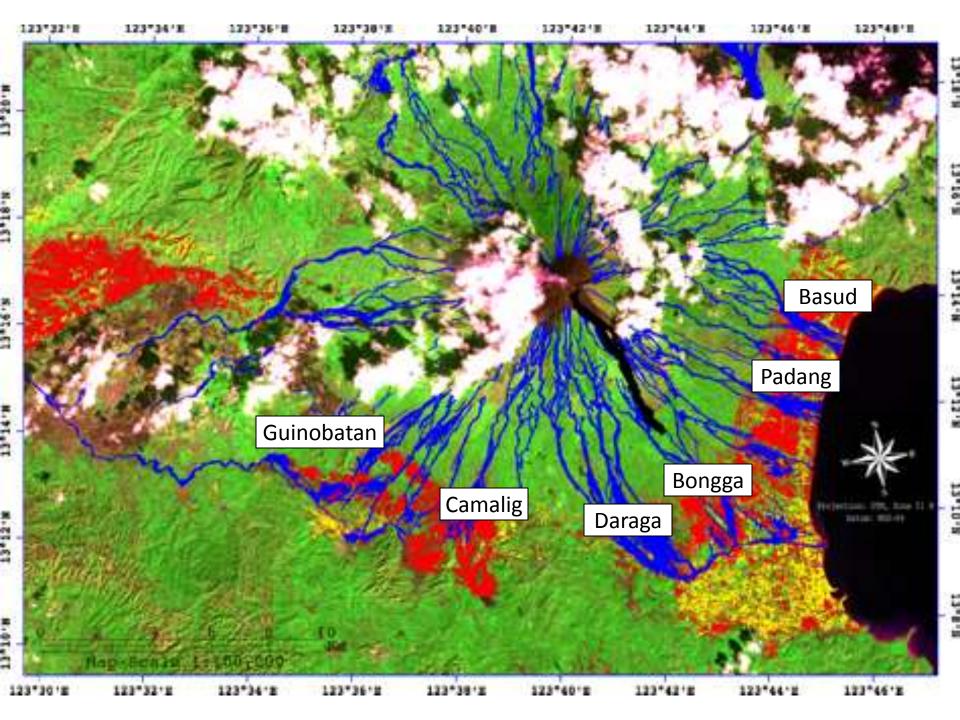




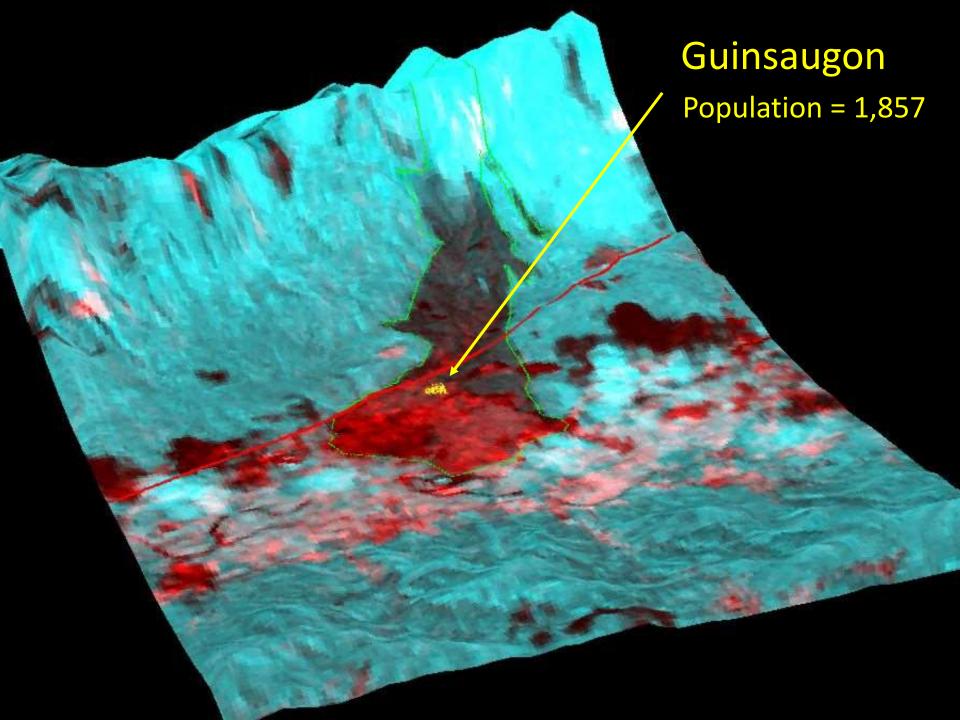














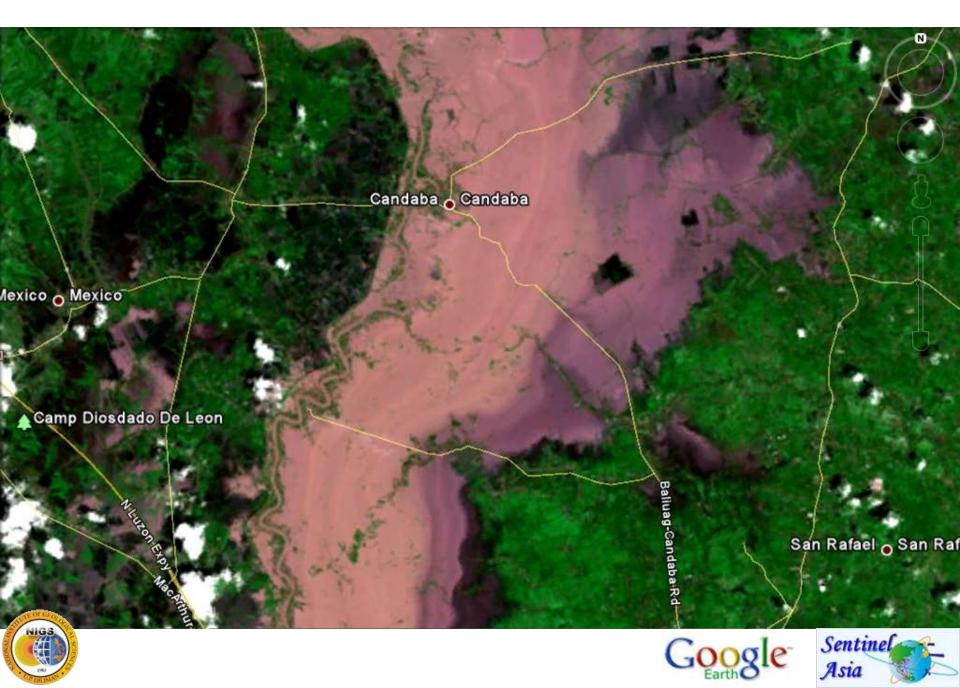
Feb. 17, 2006 Guinsaugon landslide 1126 dead US\$ 2.203 million 15-20 million cubic meters

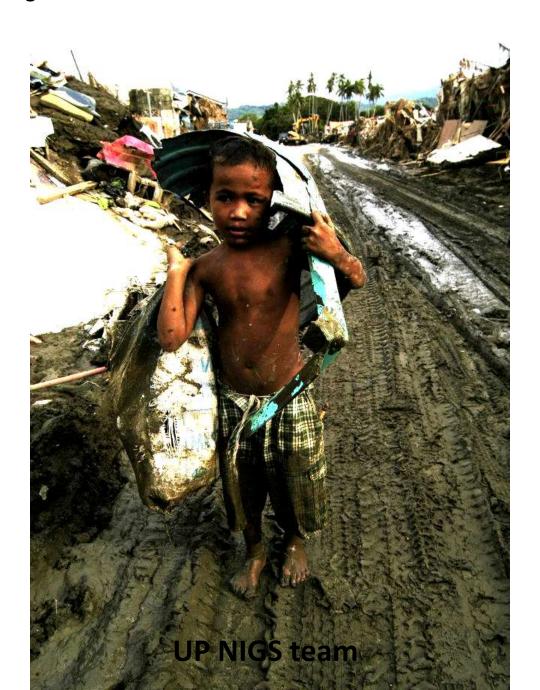






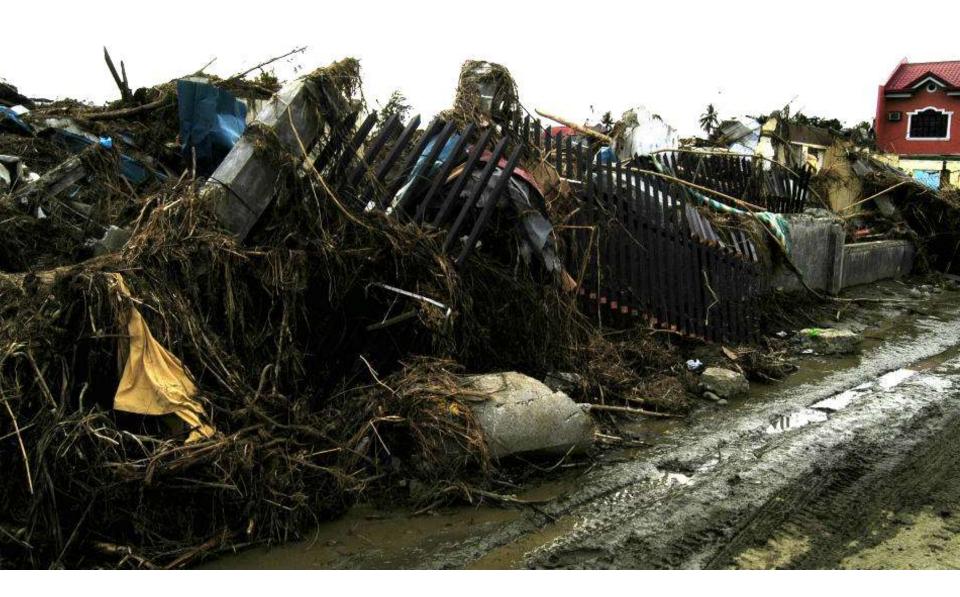
Pedring and Quiel typhoons in 2011







Orchids Home Subidivision, Santiago, Iligan



DOST PROJECTS UNDER THE NOAH

In response to President Aquino's instructions to put in place a responsive program for:

- flood mitigation, specifically targeting a 6 hour flood early warning system for communities along 18 major river systems;
- enhancement of geohazard maps and;
- 3) enhancement of storm surge vulnerability maps

the DOST is presenting the **Nationwide Operational Assessment of Hazards**



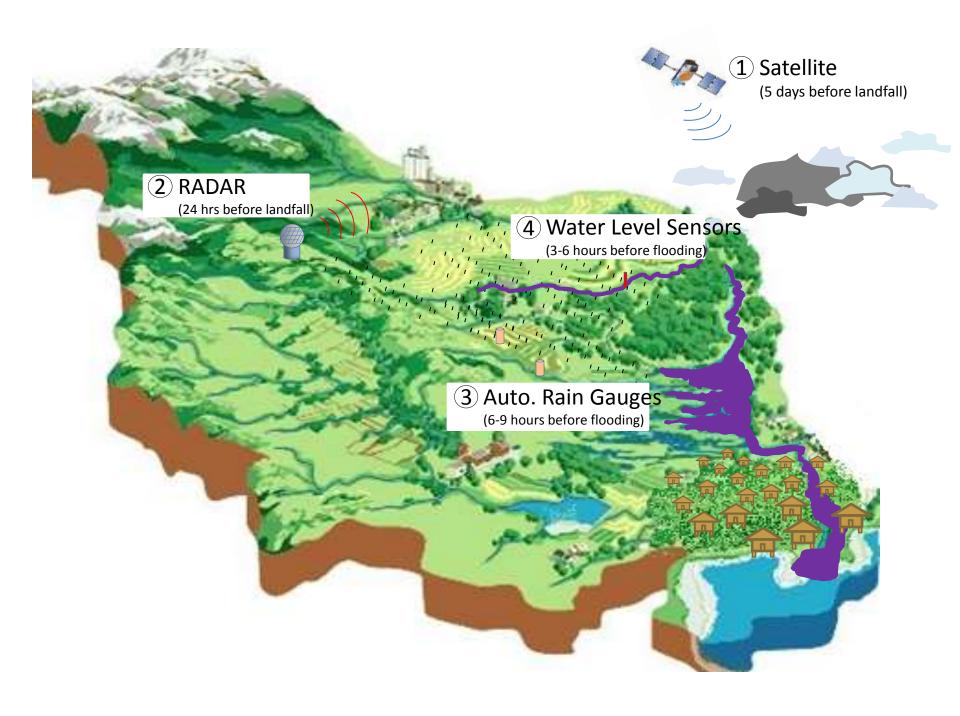
DOST PROGRAMS UNDER THE NOAH PROGRAM

Project NOAH

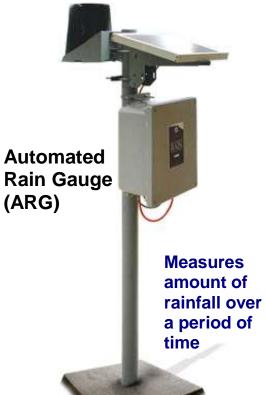
HydroMet DREAM-LIDAR FloodNET Hazard Information Landslides Doppler System Storm Surge Sensors Media and Geohazards Development

Development





Teknolohiyang Gamit ng **Project NOAH**



Measures

- Wind Speed
- Wind direction
- Air Temperature
- Air humidity
- Air pressure
- Rain amount, duration &

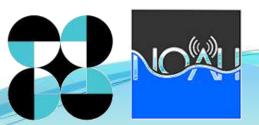




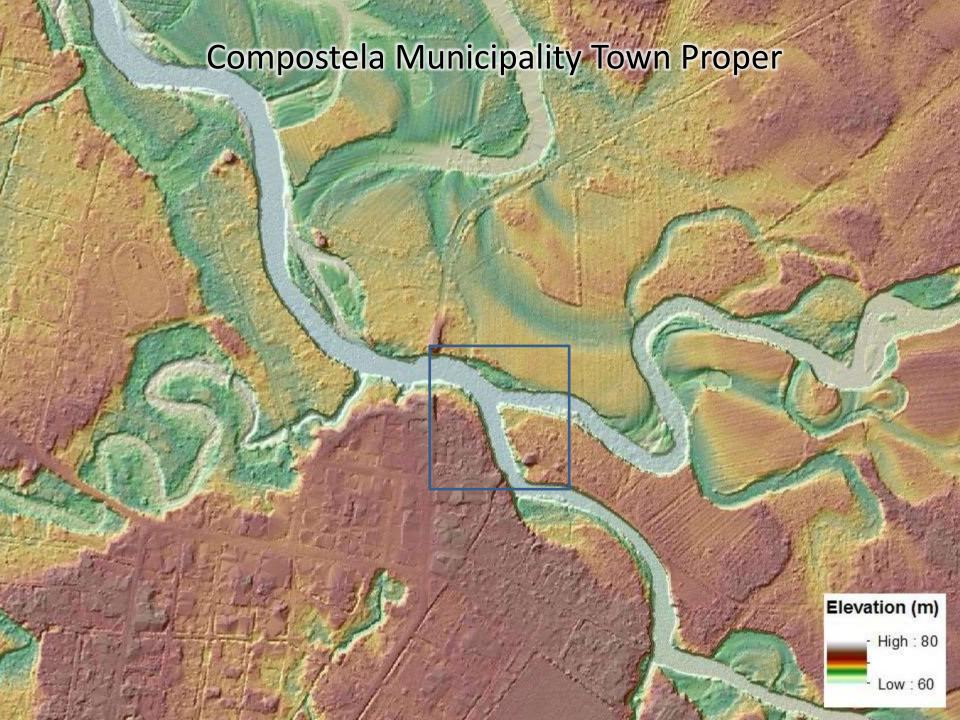
Doppler Radar

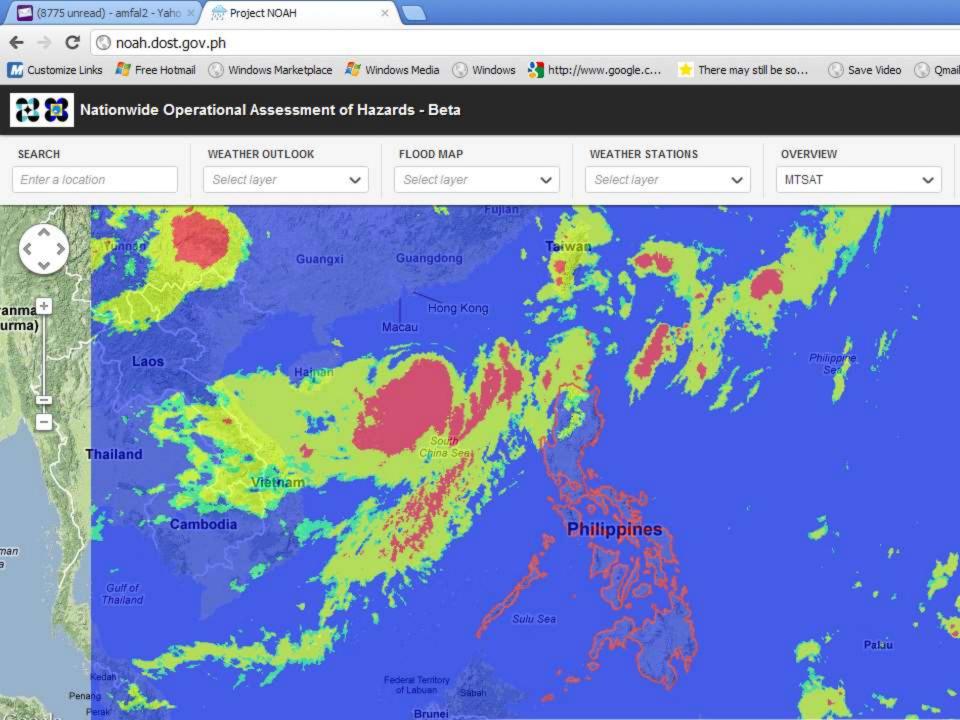


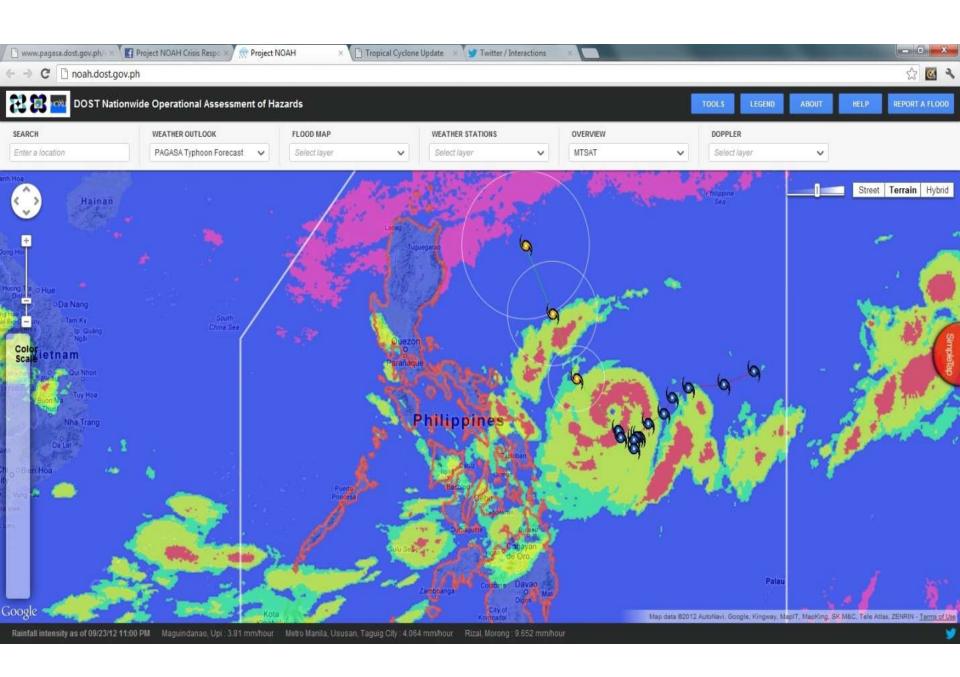
Stream Gauge

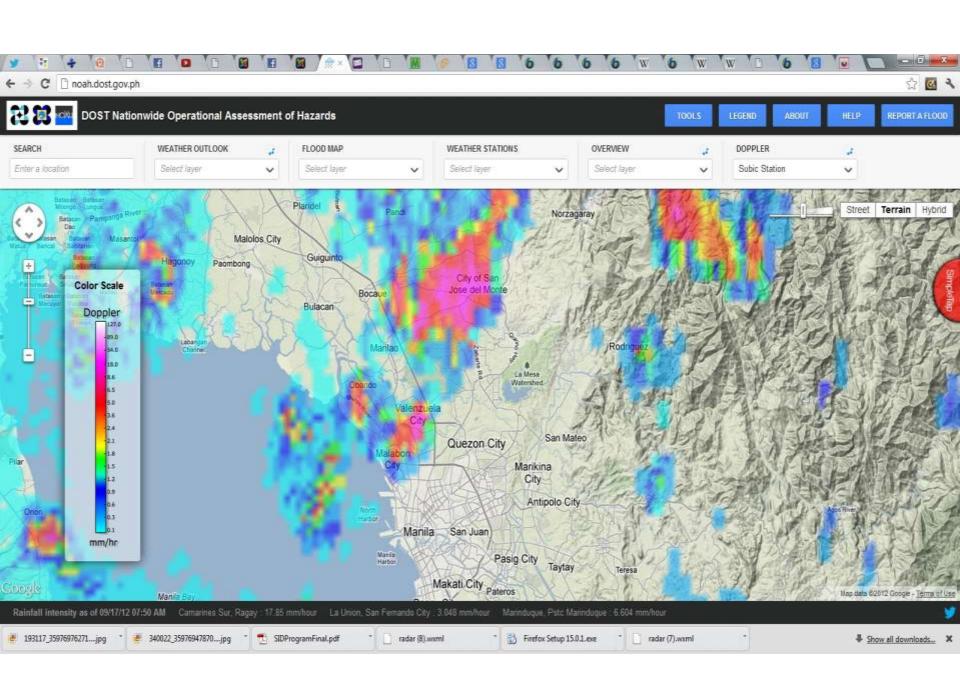


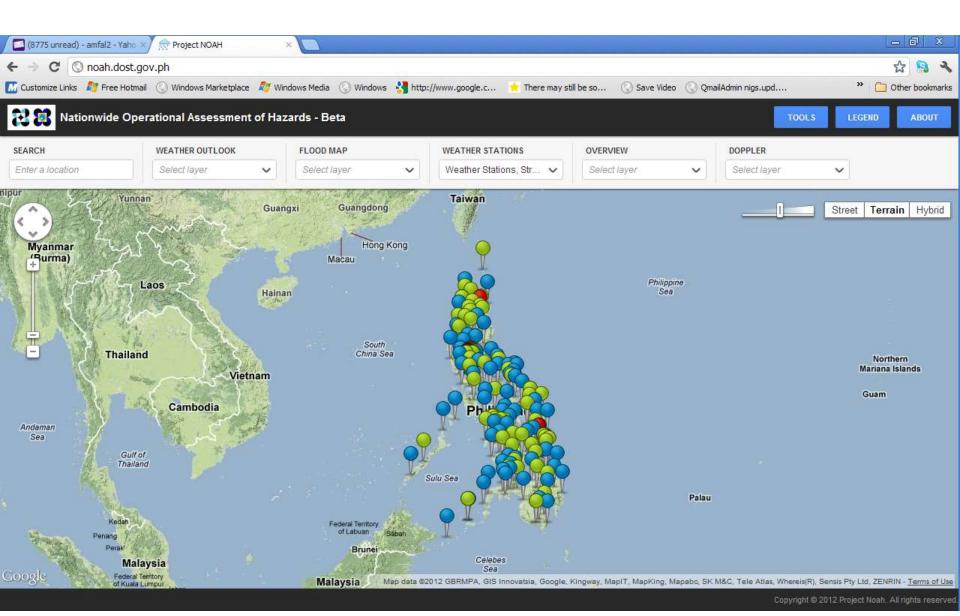


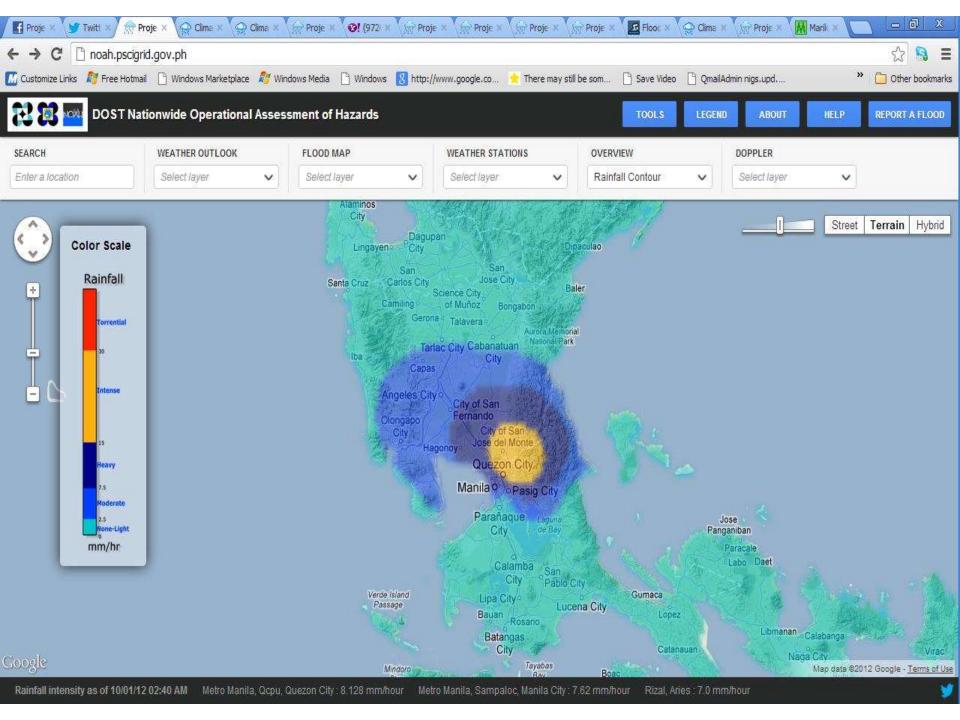


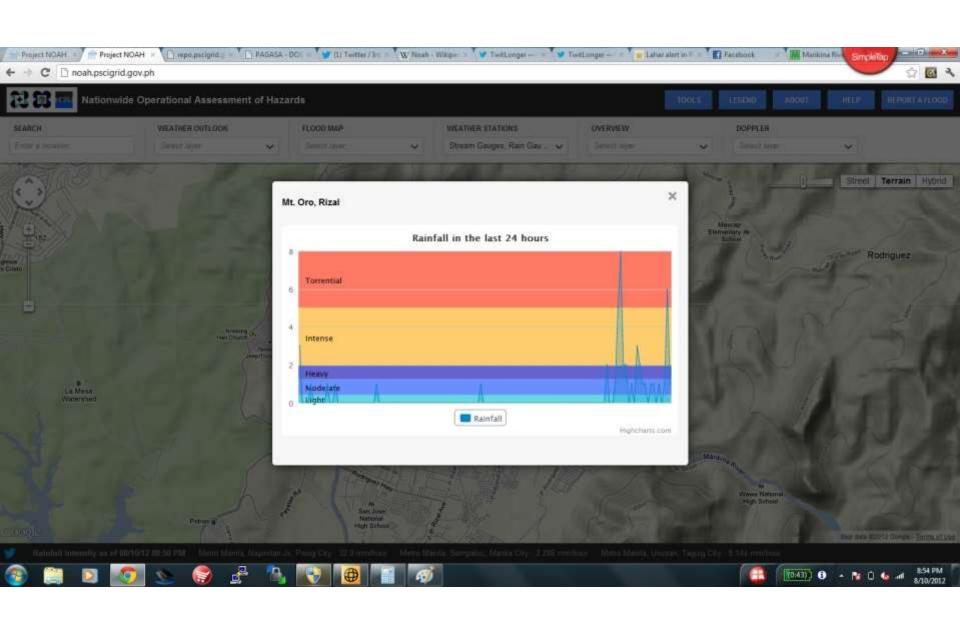


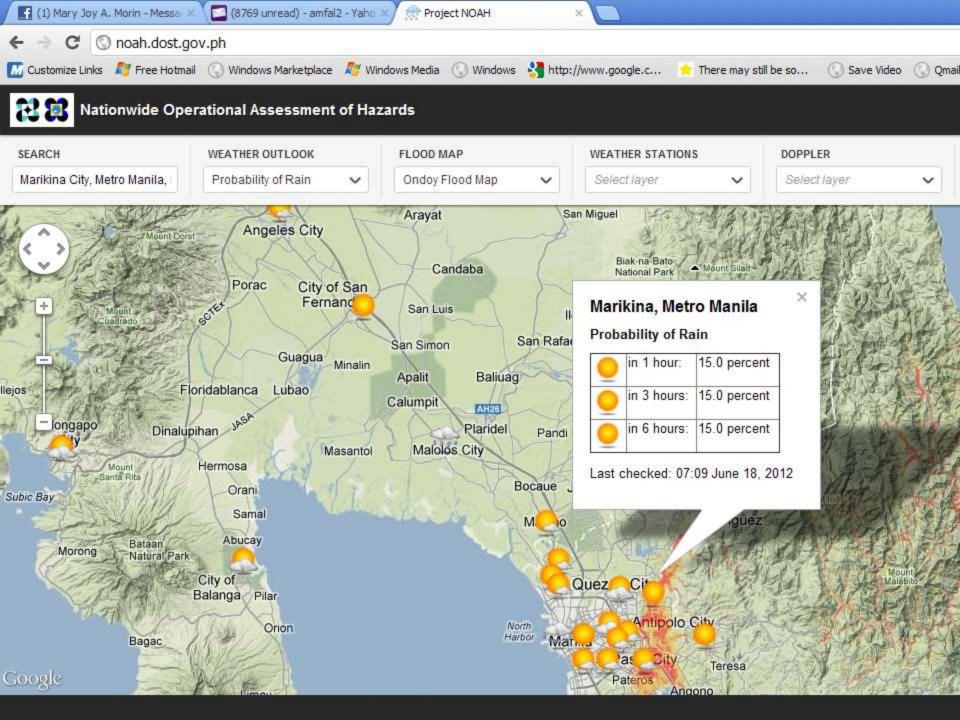


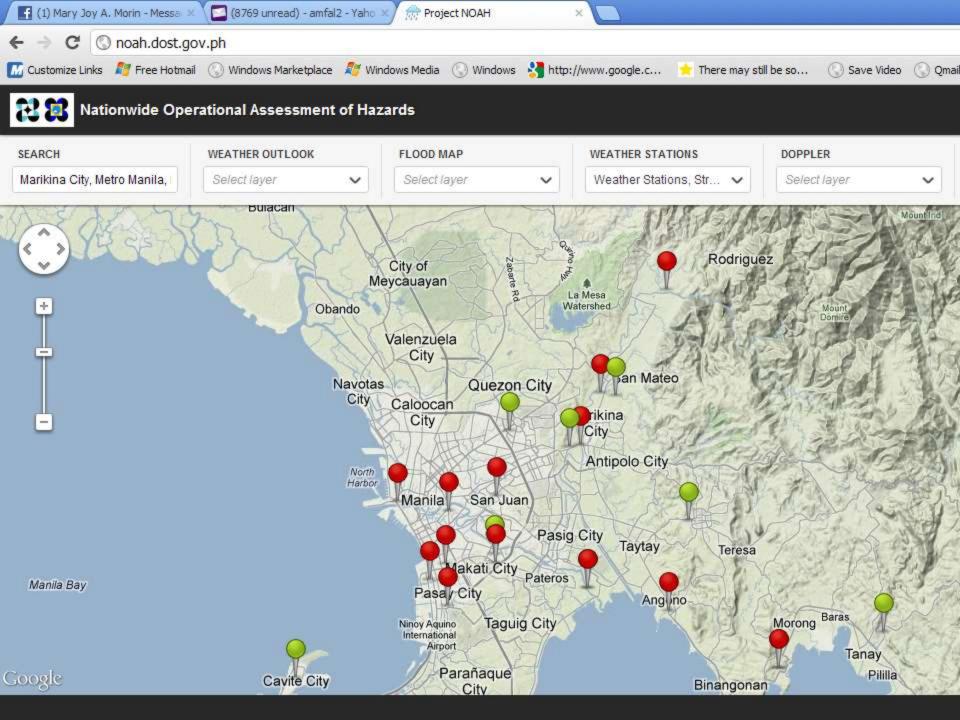


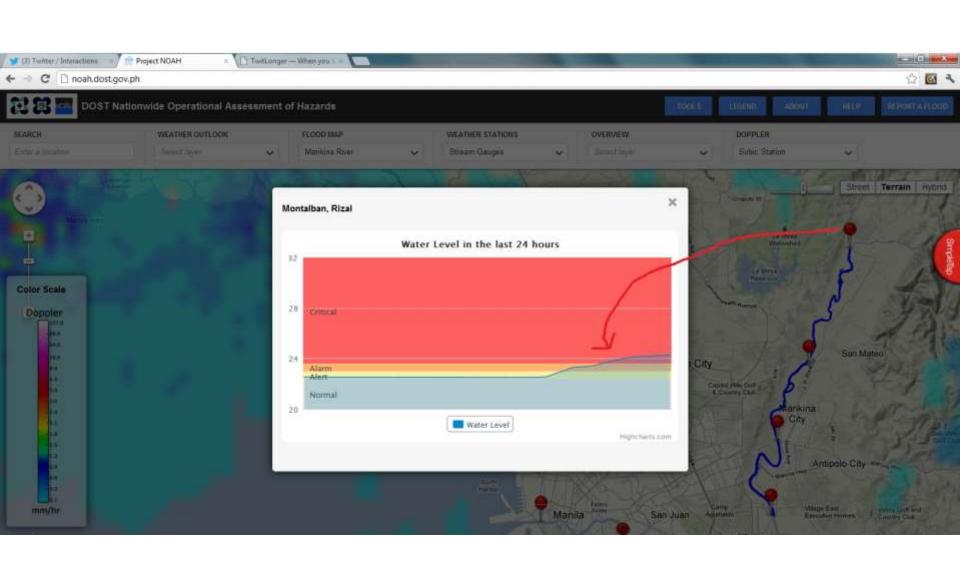


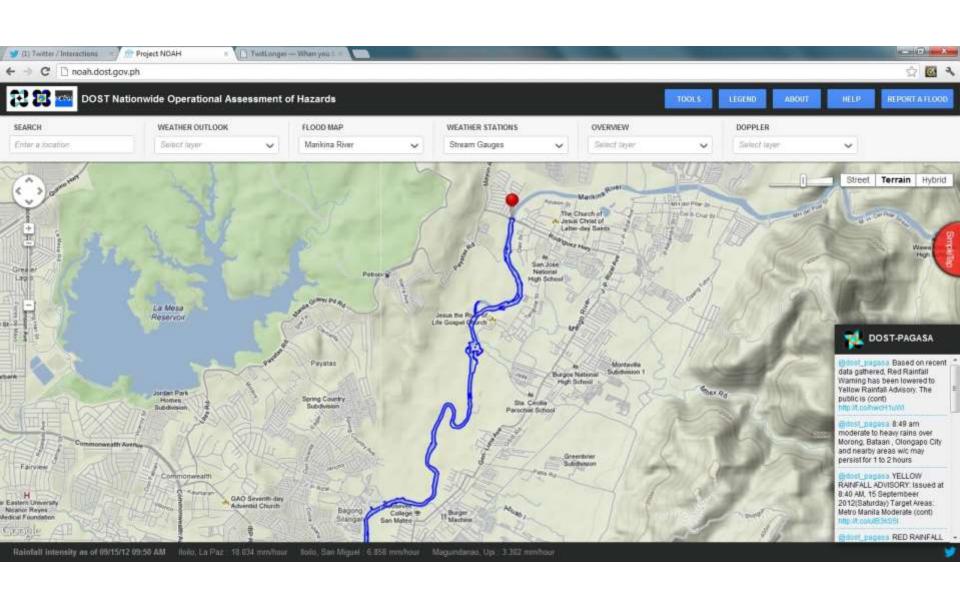






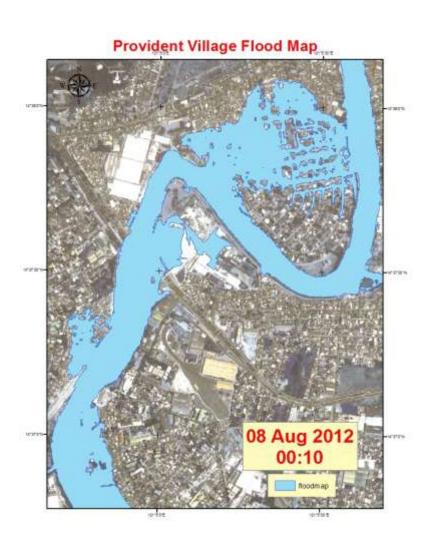






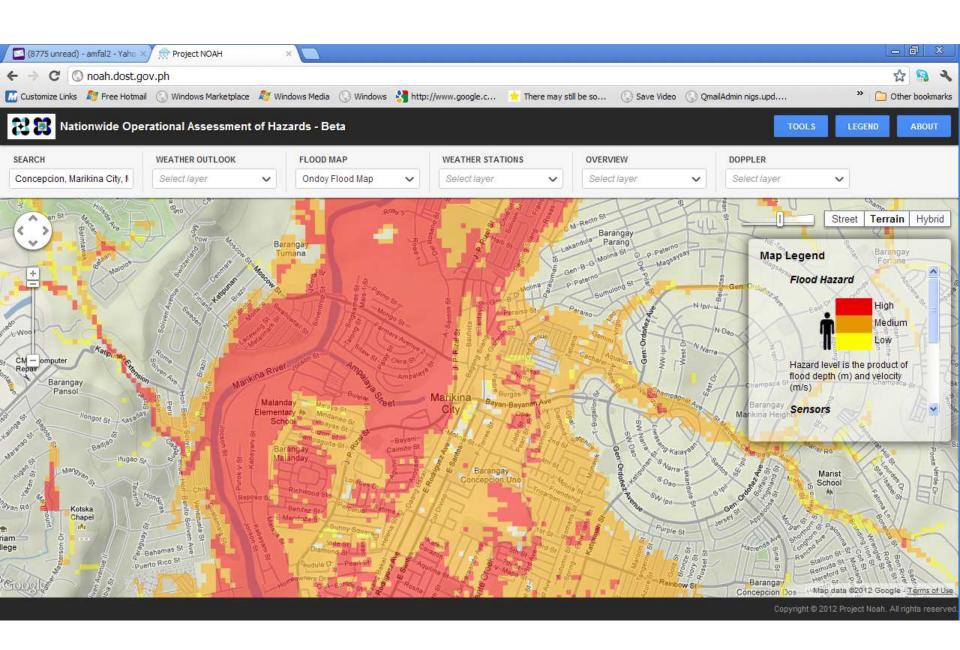
Simulated over Office of Civil Defense (OCD) – CSCAND Lidar data

Rapid Flood Simulation for Flood Events

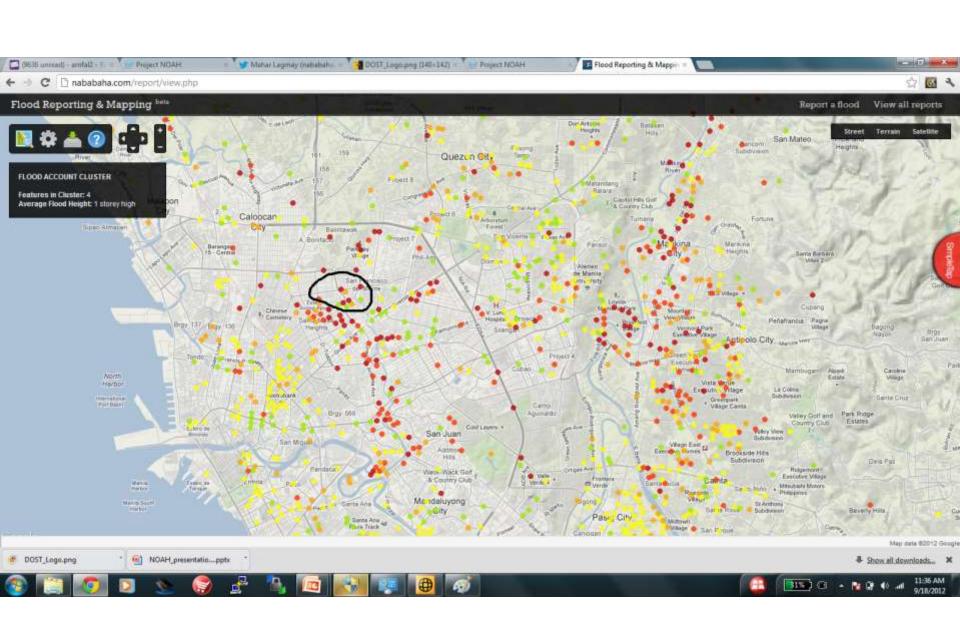




DREAM

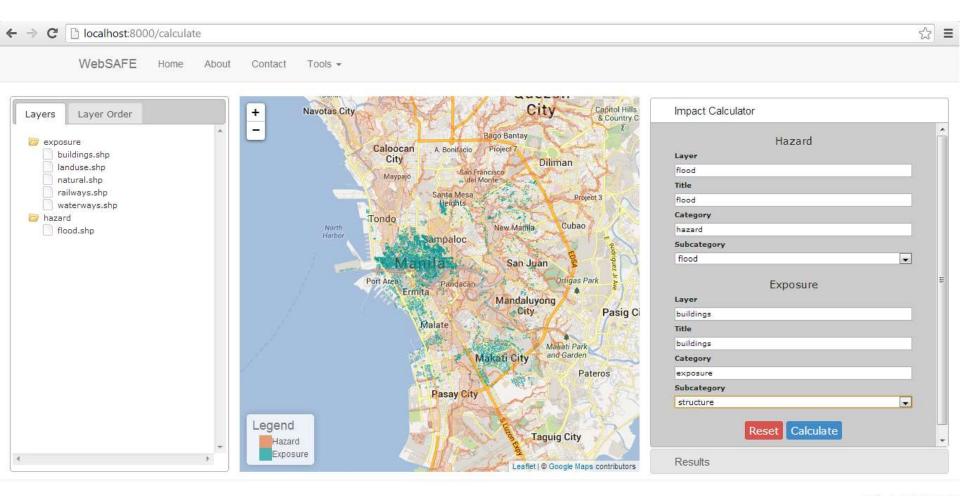


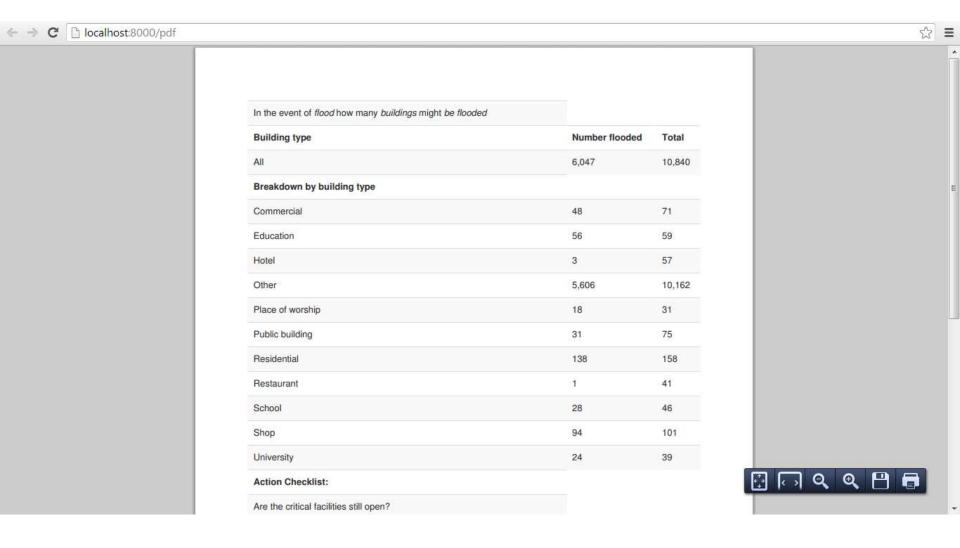
Simulated over Office of Civil Defense (OCD) – CSCAND Lidar data

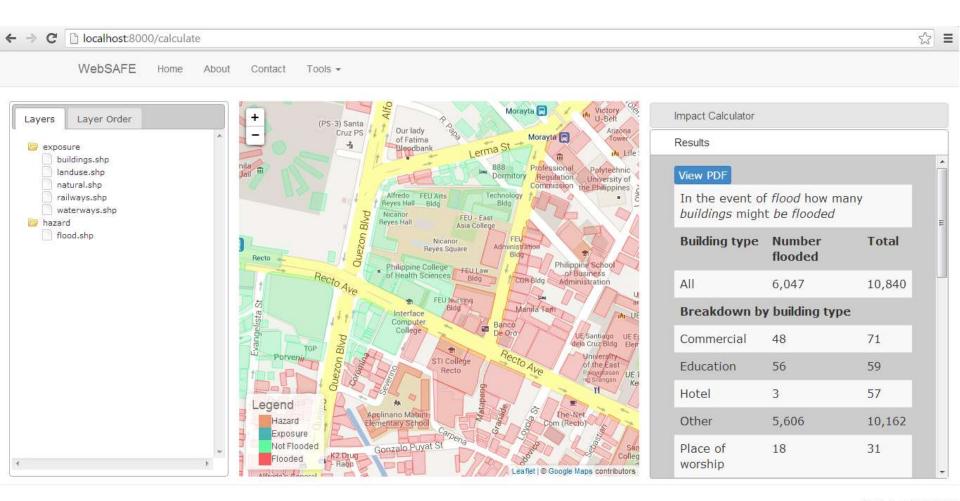


Using WebSAFE, we can perform the following operations:

- Create Impact Scenario Cases for specific hazards (ie. 10year, 100-year flooding)
- Integrate data from Project NOAH, National Government Agencies and Local Government Units
- Estimate Exposure of Population and Properties to specific Hazards
- Conduct Damage and Needs Assessments for Relief Operations
- Provide hazard, demographic and vulnerability information for Responders and Rescuers







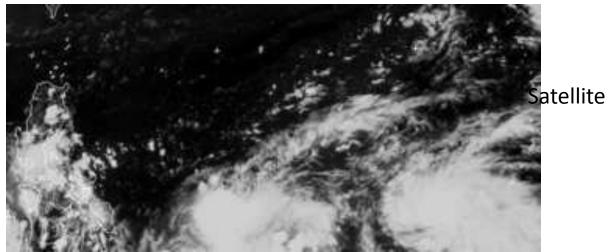
Tweets

Expand





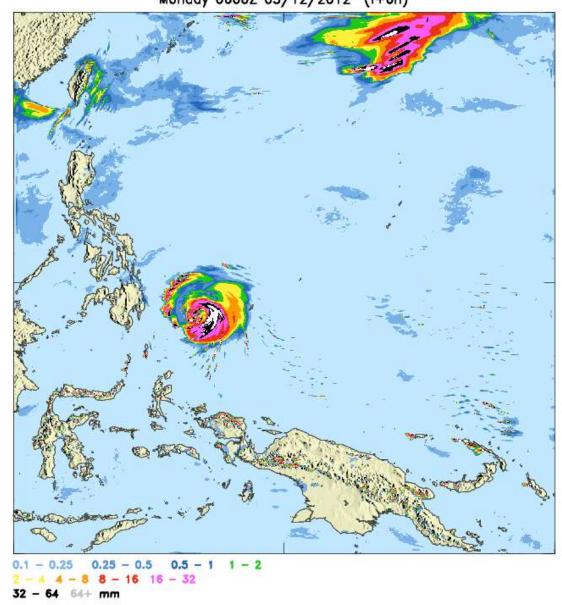




MANILA4-OP 6h accumulated precipitation [mm] Monday 0600Z 03/12/2012 (t+6h)



6 hours accumulated rainfall in millimeters (mm)



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