

Open Data and Disaster Risk Reduction

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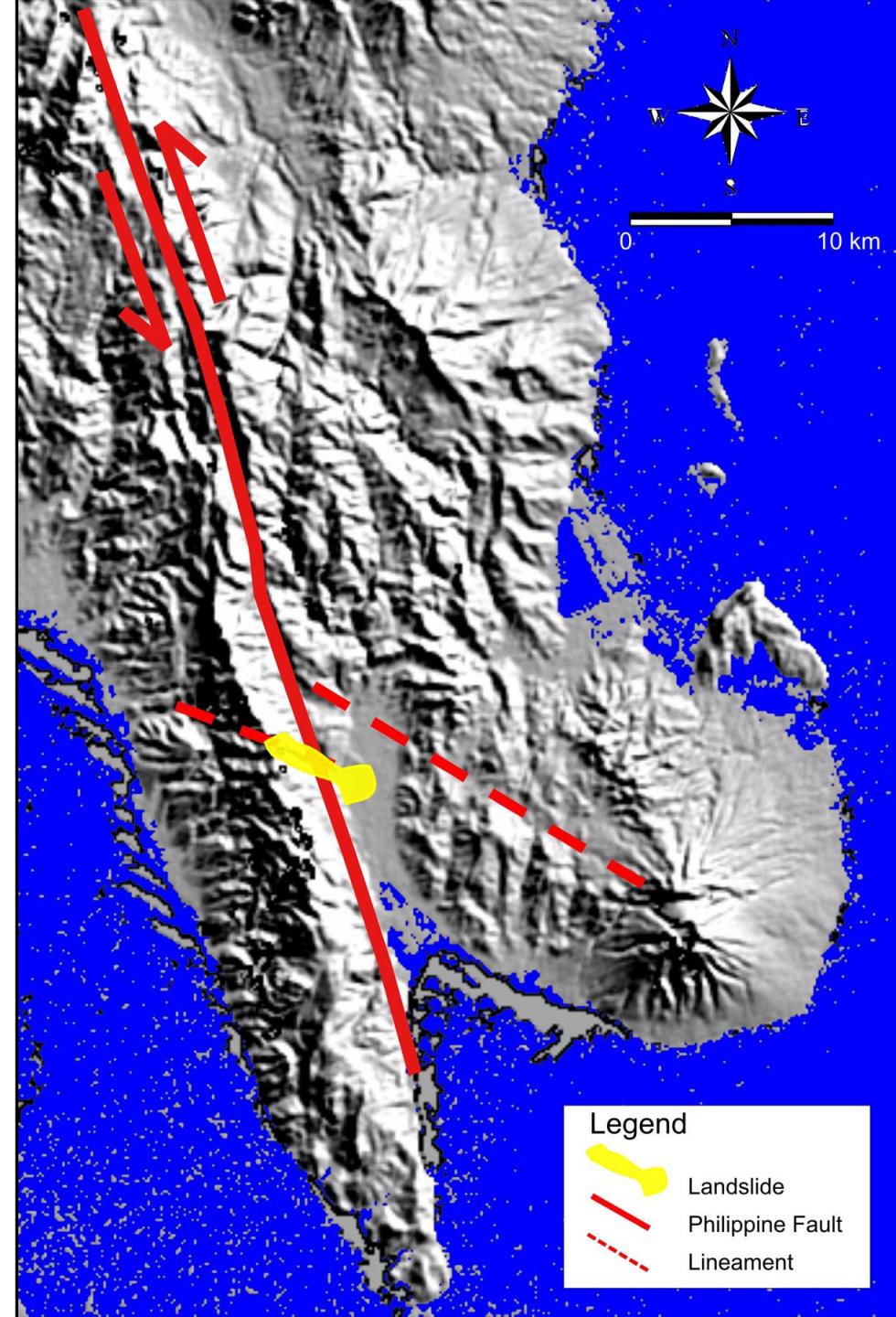
National Institute of Geological Sciences

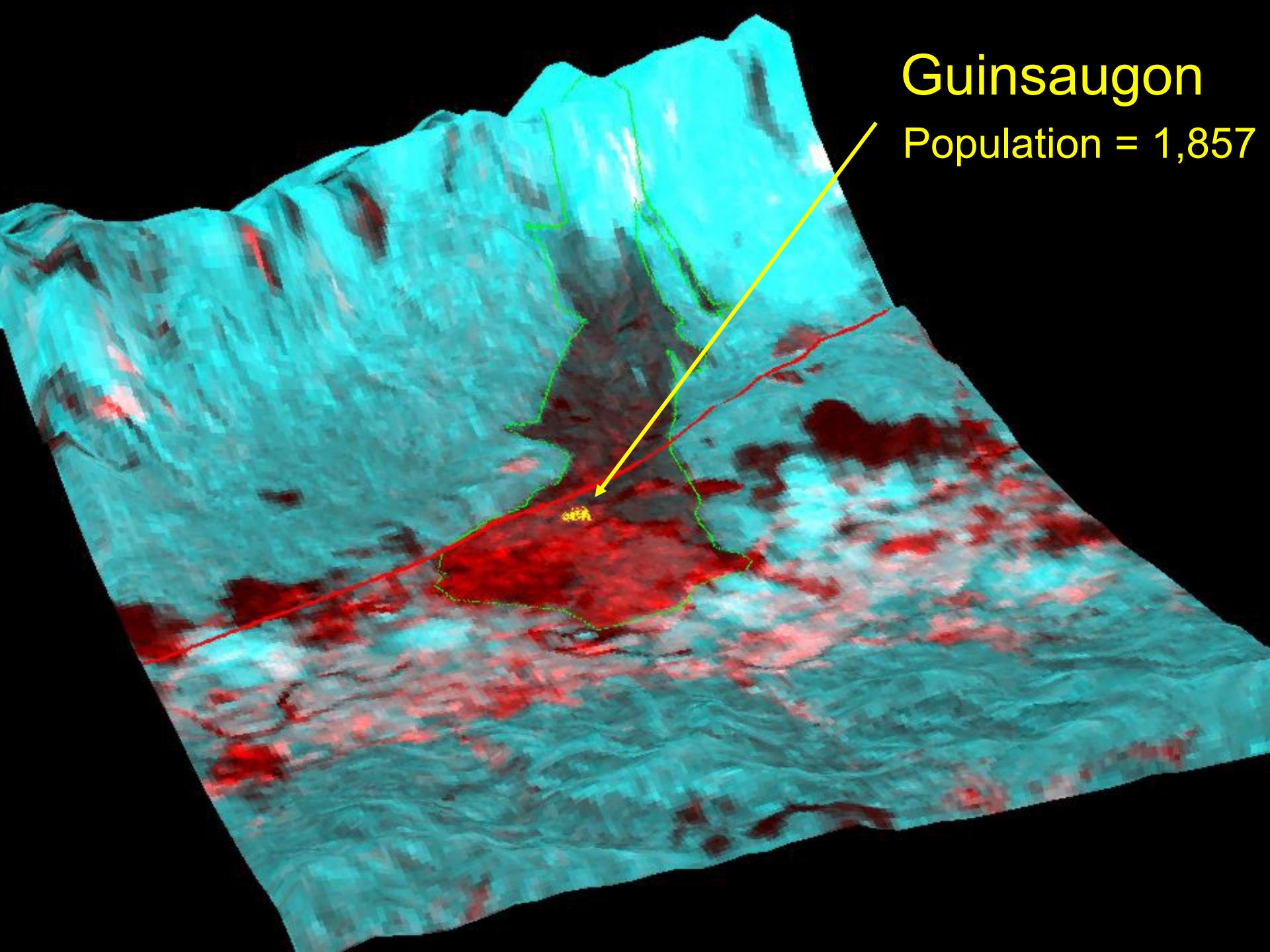
University of the Philippines



Southern Leyte

Shaded relief image generated from an SRTM digital elevation model with interpreted NW lineaments intersecting the Philippine Fault. Raw image data was taken from <http://www.landcover.org>





A 3D perspective view of a coastal area, likely a village, built on a hillside overlooking the sea. The terrain is rendered in shades of cyan and red, indicating elevation and slope. A green polygonal boundary outlines a specific settlement area. A yellow arrow points from the text "Guinsaugon" and "Population = 1,857" towards this outlined area. The village consists of numerous small, closely packed houses, many with red roofs, visible within the green boundary.

Guinsaugon
Population = 1,857

Fatalities=1221

Missing (dead) = 980

Bodies recovered= 139

Identified = 56

Unidentified = 83

Treated for injuries = 33

Died in the hospital = 2

Major Debris Avalanches in the 20th and 21st Century

1

1

1

(Ancash) Peru
25

(Ancash) Peru
03

Heles, Mt.
49

New Papua
(East Guinea
Britain) New
03

2006 Leyte)



Change,

Major rockslide-debris avalanches in the 20th and 21st centuries. Source: Proceeding of the 8th International Conference and Field trip on landslides, Granada, Spain, 27-28 September, Rotterdam: Balkema, 1996.



RESCUE

PDCC



Day 7, Thurs, 23 Feb 2006

RESCUE 505



Day 6, Wed, 22 Feb 2006



Day 7, Thurs, 23 Feb 2006



Day 7, Thurs, 23 Feb 2006



KEY ASPECTS OF OPEN DATA

- Open data must be available in bulk (so it's easy to work with) and it should be available free of charge, or at least at no more than a reasonable reproduction cost. The information should be digital, preferably available by downloading through the internet, and easily processed by a computer too (otherwise users can't fully exploit the power of data – that it can be combined together to create new insights).

KEY ASPECTS OF OPEN DATA

- Open Data must permit people to use it, re-use it, and redistribute it, including intermixing with other datasets and distributing the results.

KEY ASPECTS OF OPEN DATA

- The Open Definition generally doesn't allow conditions to be placed on how people can use Open Data, but it does permit a data provider to require that data users credit them in some appropriate way, make it clear if the data has been changed, or that any new datasets created using their data are also shared as open data.

Cavite

BEFORE - March 14
110,506 structures mapped



Satellite imagery provided by Bing

Camiguin

BEFORE - March 14

73 structures mapped



Satellite imagery provided by Bing

Zambales

BEFORE - March 14

43,721 structures mapped



Satellite imagery provided by Bing

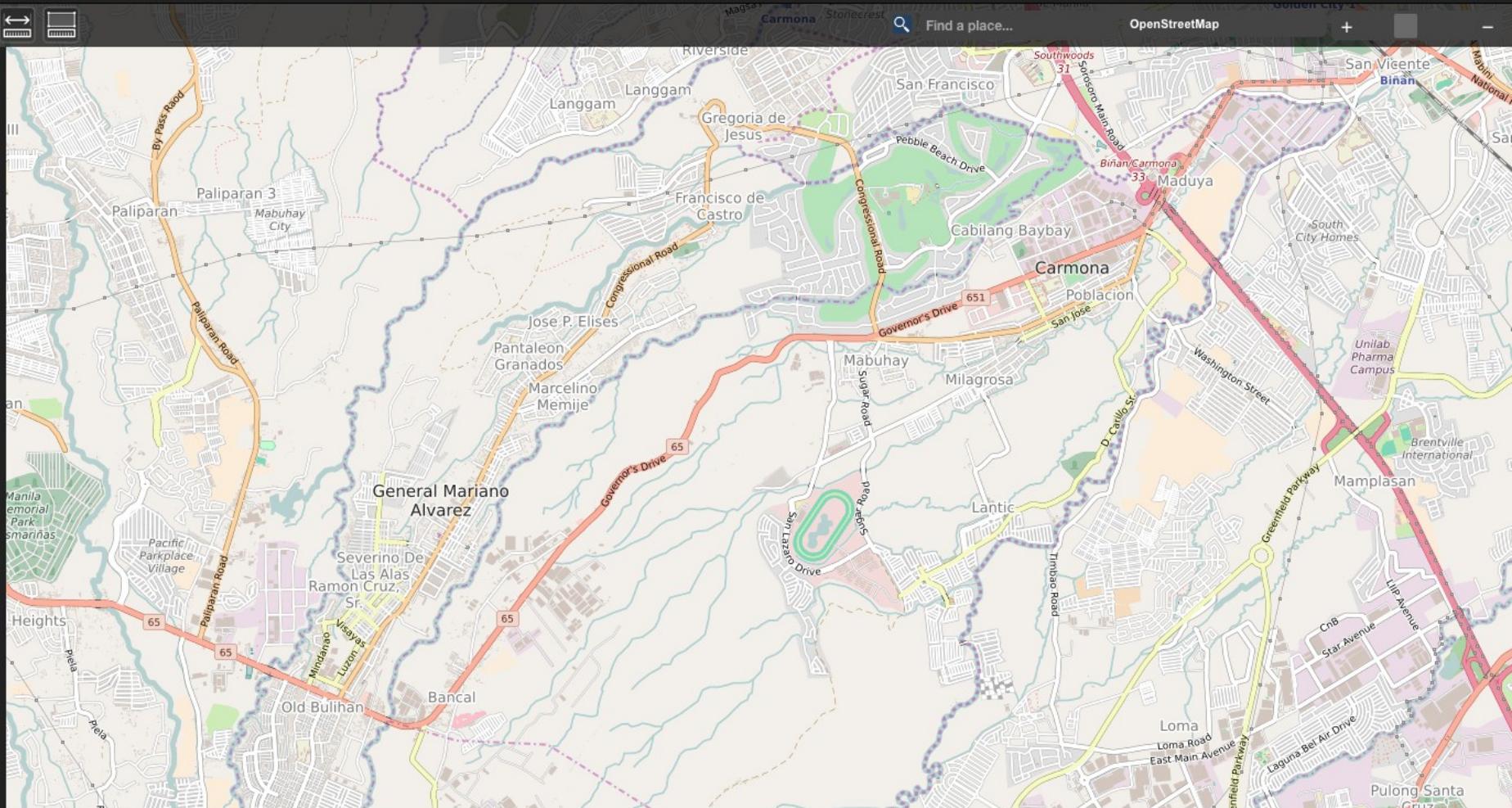
Biliran

BEFORE - March 14

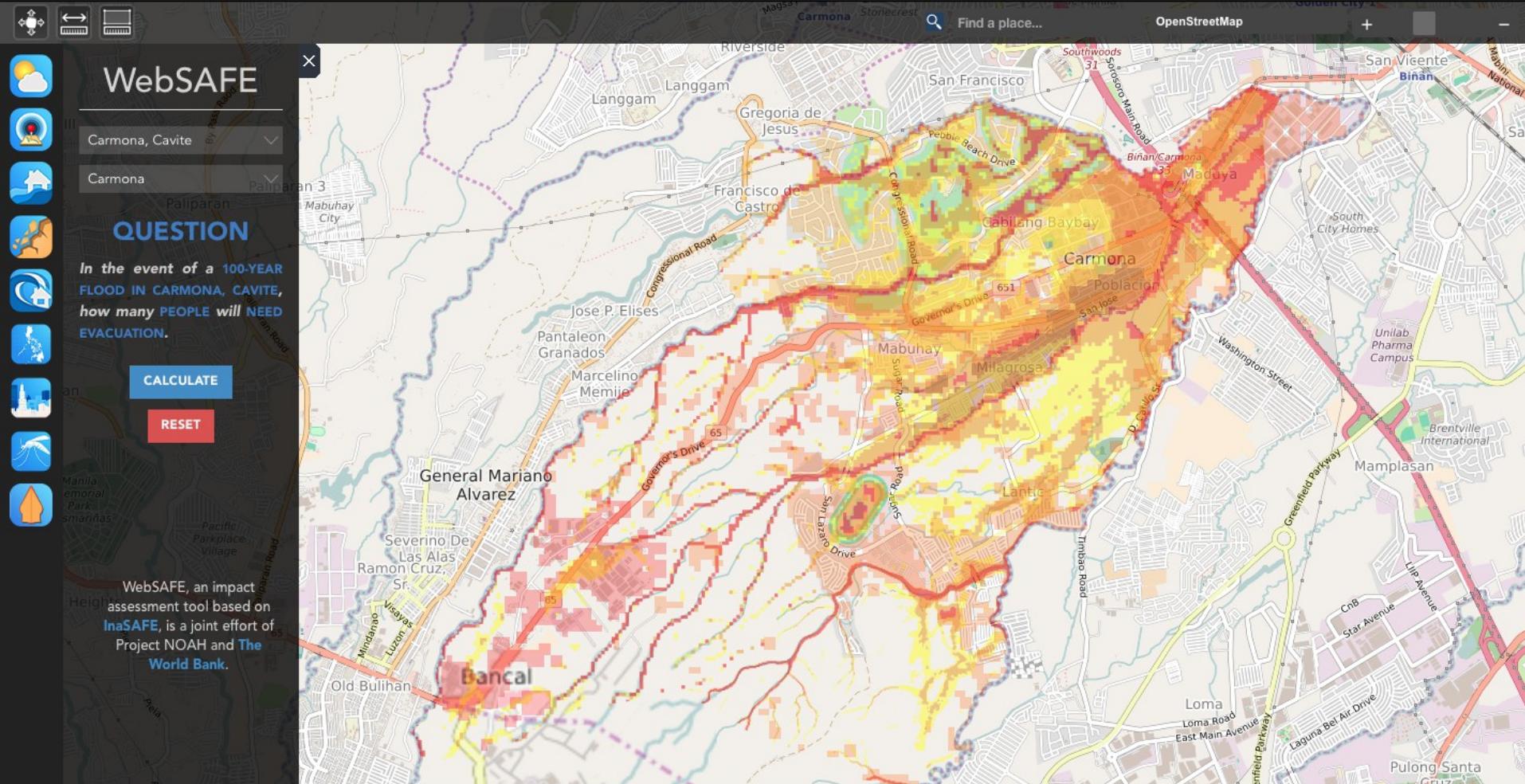
1,581 structures mapped



Satellite imagery provided by Bing



Rainfall Data as of 09/20/16 07:45 PM: Cagayan, Rizal Municipal Hall : 19.0 mm/hour



DOST - Project NOAH Beta

WebSAFE

Carmona, Cavite

QUESTION

In the event of a 100-YEAR FLOOD IN CARMONA, CAVITE, how many PEOPLE will NEED EVACUATION.

Show Report

RESET

WebSAFE, an impact assessment tool based on InaSAFE, is a joint effort of Project NOAH and The World Bank.

Rainfall Data as of 09/20/16 07:45 PM: Apayao, Conner : 25.2 mm/hour

In the event of a flood in **Carmona, Cavite**, how many people might need evacuation?

Summary Needs Check List Census Data ▾

High Medium Low

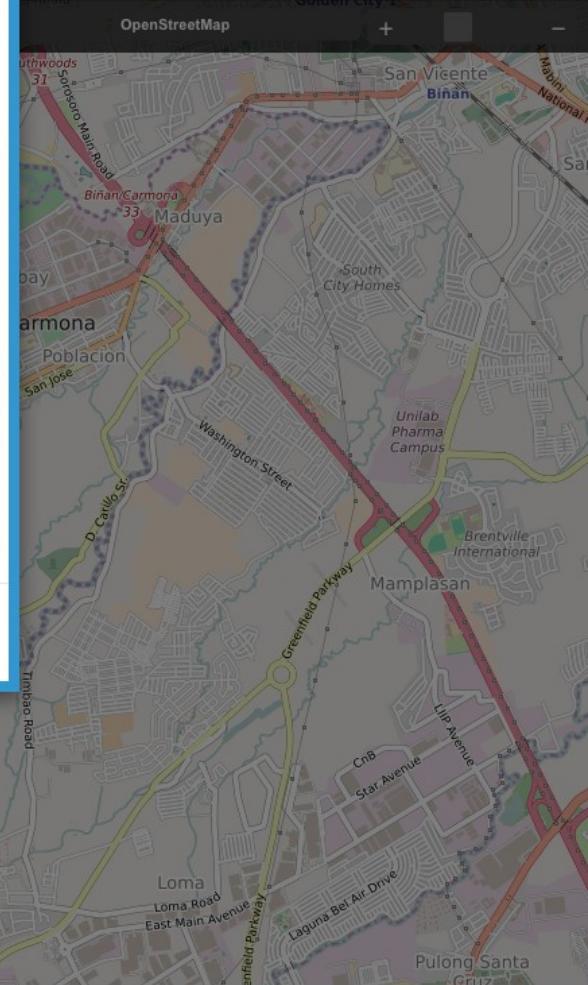
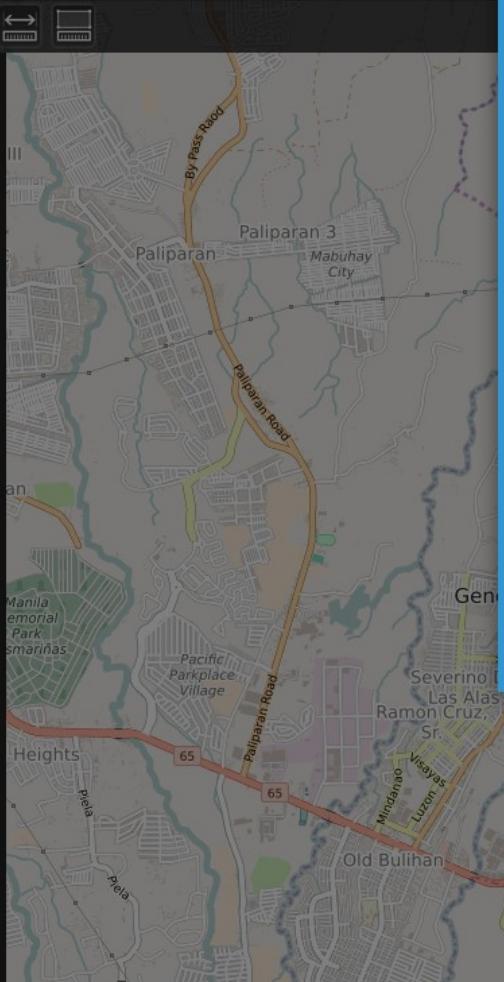
76,600
Estimated Total Population*

49,400
Population Affected

*Estimated population computed using current Philippine growthrate data.

View PDF Close

OpenStreetMap



In the event of a flood in **Tacloban City, Leyte**, how many buildings might be flooded?

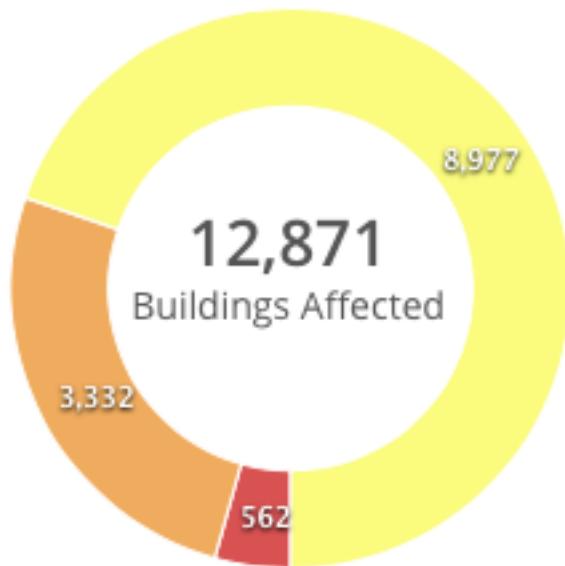
Summary

Building Types

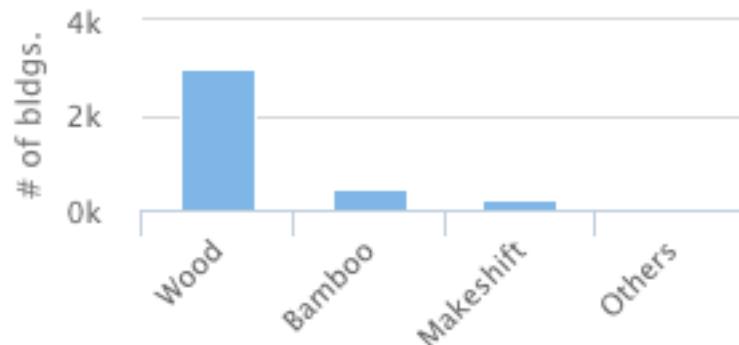
Check List

Other Info

High Medium Low



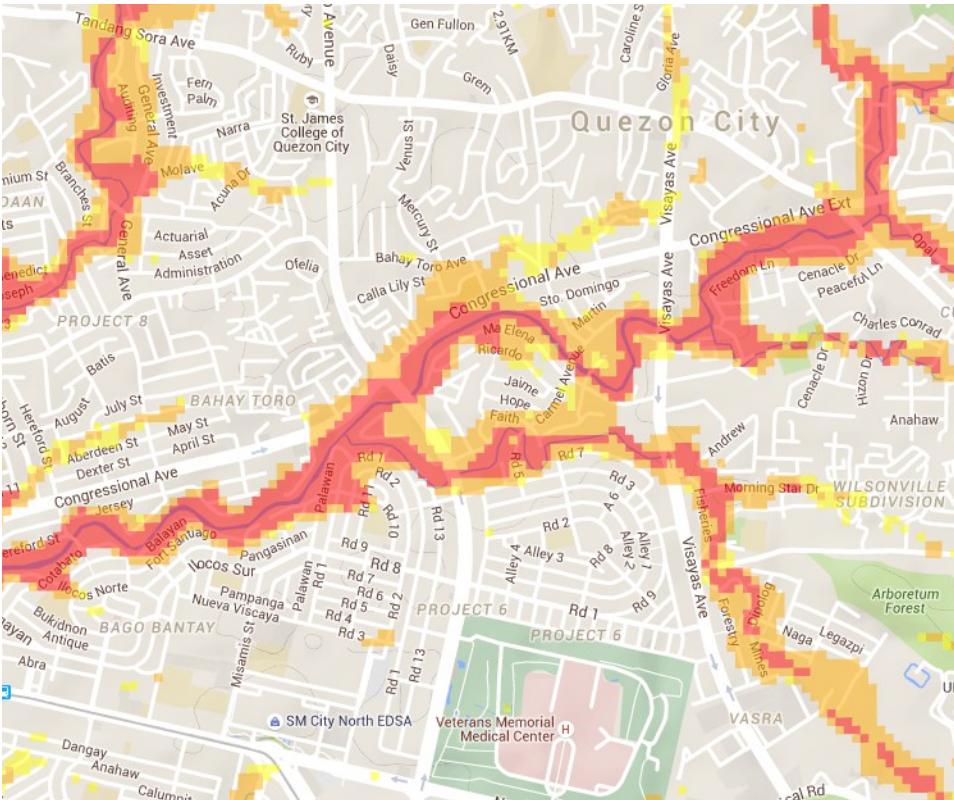
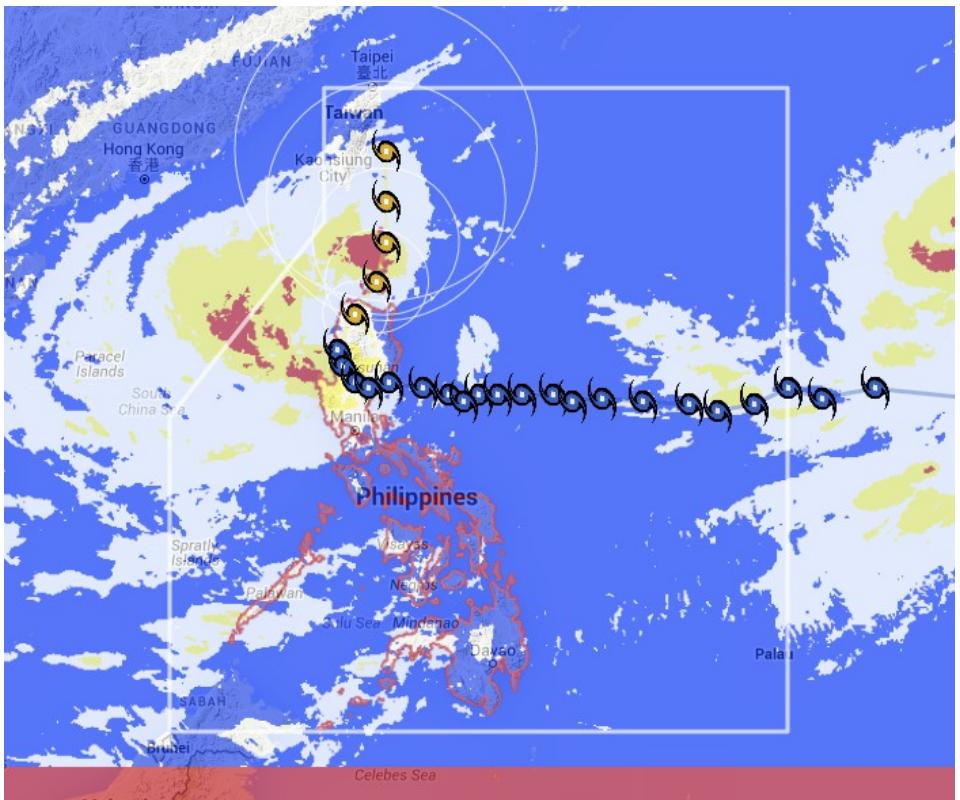
 **38,558**
Total Buildings



[View PDF](#)

[Close](#)

AVOIDING DISASTERS



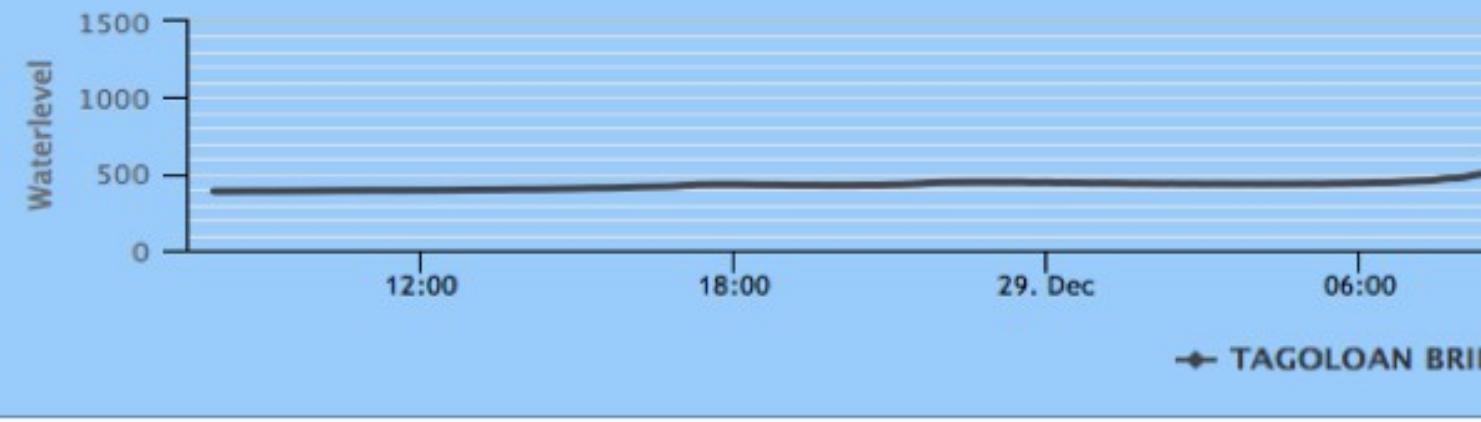
WARN

Based on weather forecasts and
near-real time information

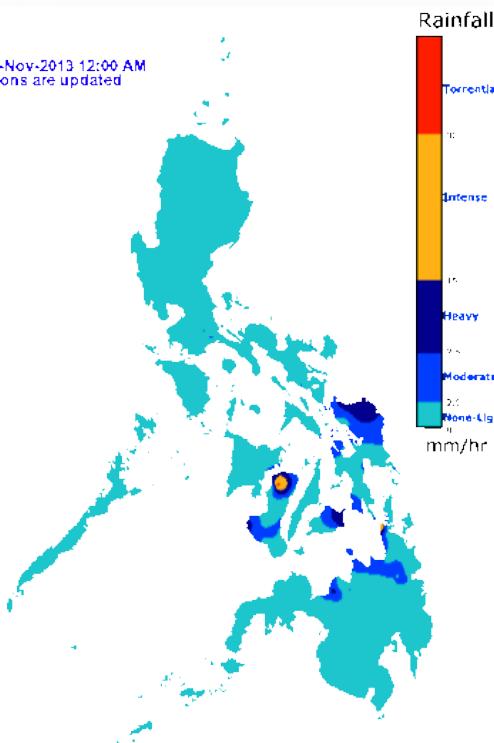
RESPOND

Based on awareness of hazards, education
individuals and access to accurate hazard maps

Waterlevel



As of 08-Nov-2013 12:00 AM
322 stations are updated



4 RETWEETS 2 FAVORITES



Eric Tagoloan

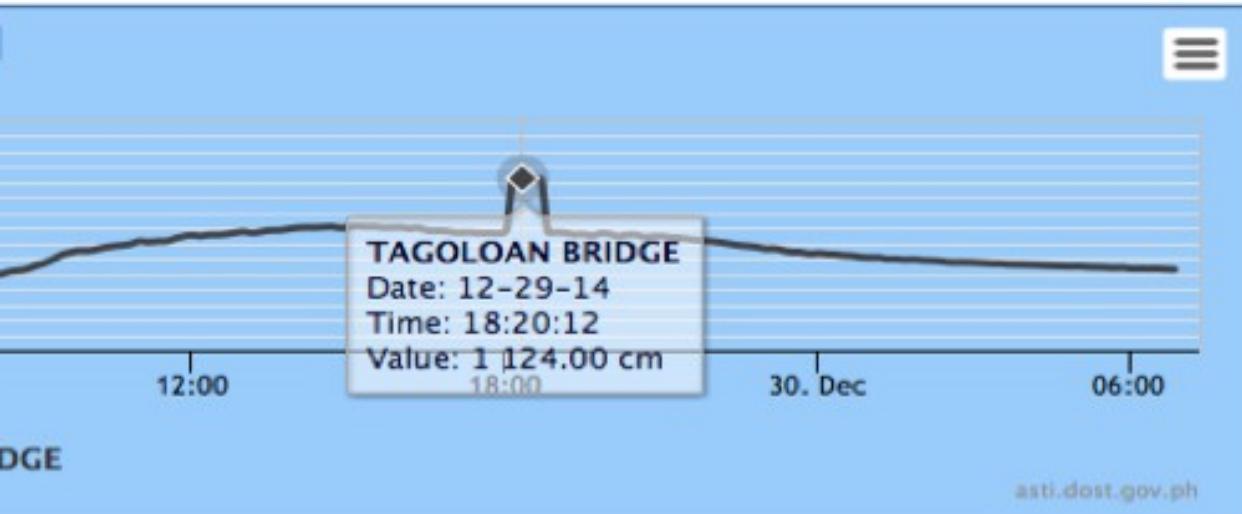
December 29, 2014

- 12:14 PM Outgoing Call 1
12:13 PM Canceled
12:12 PM Canceled

mobile
(0906) 326 3215

FaceTime

Notes



Peak flood
6:10 pm
29 Dec.
2014



Kagay Whitewater Rafting added 5 new photos — with Yaj Ydnar Bulletz and others.

Earlier This afternoon at Brgy. Natumolan, Tagoloan Misamis Oriental.

Like · Comment · Share · 87 4



FAILED DISASTER PREVENTION AND MITIGATION VS

DISASTERS
AVERTED

DISASTERS W/ MASSIVE
LIVES LOST

