

THE PHILIPPINES: The most uninhabitable place in the world?



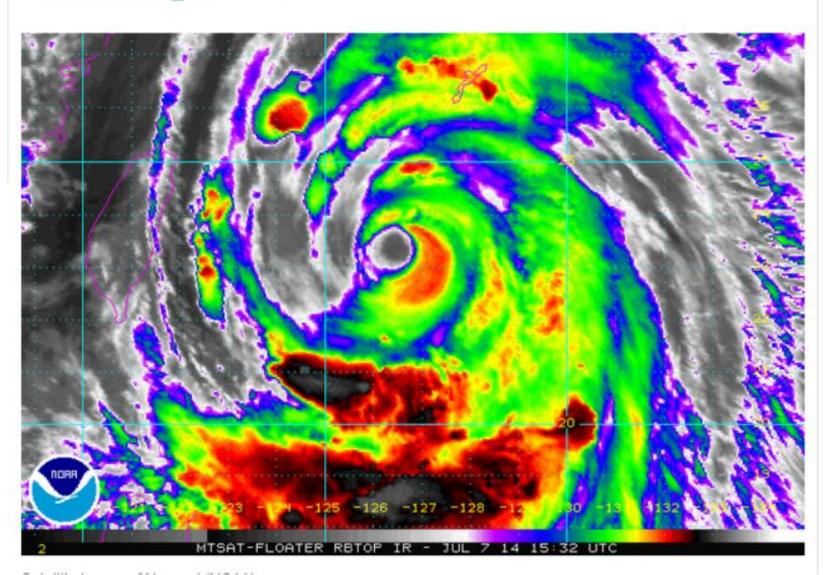
G My Jan & Marie & Mar

The World Risk Index, 2012					
Rank	Country	World Risk	Exposure (%)	Vulnerability	
		Index (%)		(%)	
1	Vanuatu	36.31	63.66	57.04	
2	Tonga	28.62	55.27	51.78	
3	Philippines	27.98	52.46	53.35	
4	Guatemala	20.75	36.3	57.16	
5	Bangladesh	20.22	31.7	63.78	
6	Solomon Islands	18.15	29.98	60.55	
7	Costa Rica	17.38	42.61	40.8	
8	Cambodia	17.17	27.65	62.07	
9	Timor-Leste	17.13	25.73	66.59	
10	El Salvador	16.89	32.6	51.82	



Enormous super typhoon Neoguri lashing Okinawa and targeting Japan

BY JASON SAMENOW July 7 at 1:31 pm





There is no such thing as natural disasters.







DISASTERS = Hazards + Exposure Capacity

NATURA HAZARD





Exposure







CAPACITI





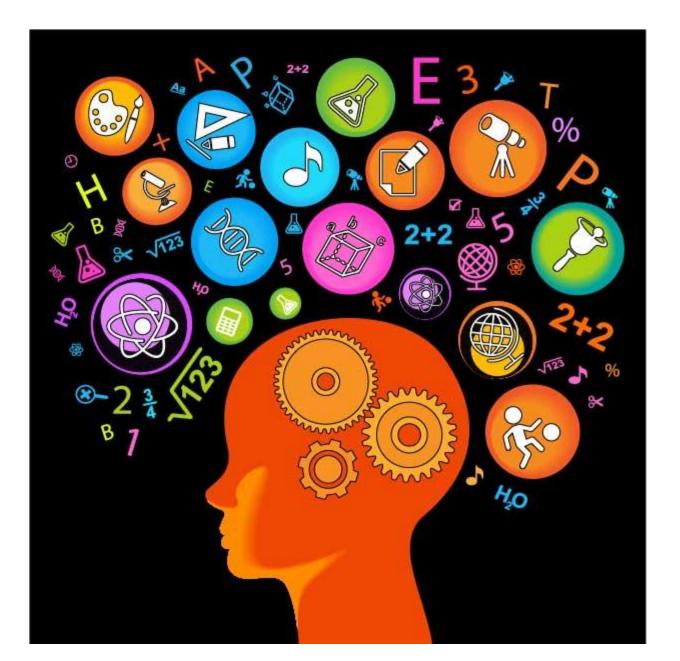




DISASTER
PREVENTION,
MITIGATION,
and
PREPAREDNESS

- Knowledge on Potential Hazards in your area
- Proper Land Use Planning
- The Right Engineering Interventions
- Proper Preparedness

Use S&T as basis for policy-making



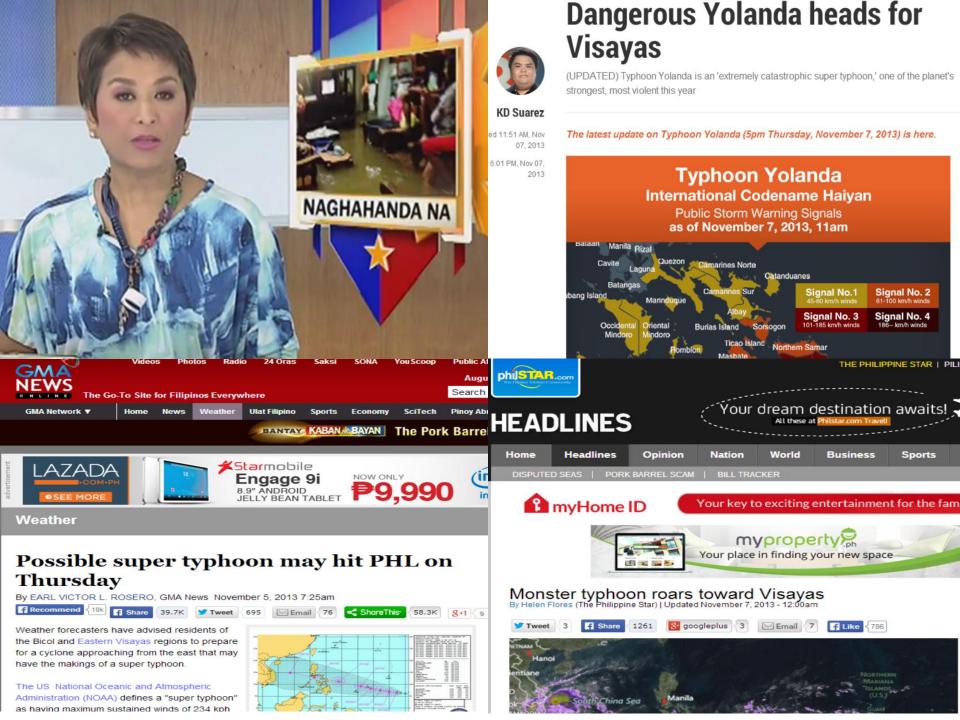
Components ng Project NOAH

- LiDAR
- Flood Hazard Mapping and Modeling
- Storm Surge Mapping and Modeling
- Landslide Hazard Mapping Enhancement
- Hydromet Sensors Development
- NOAH Web GIS









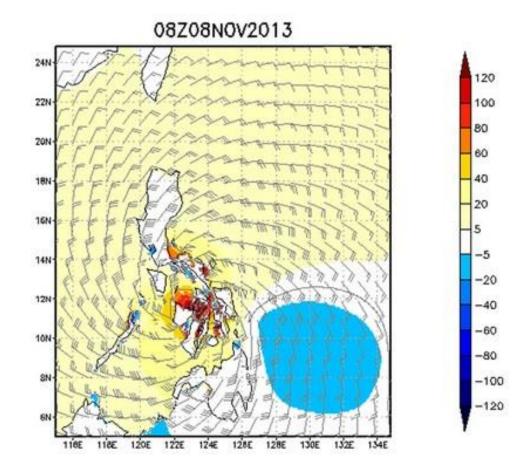
November 6 (Wednesday) 9:37PM

Dr. Lagmay's tweet showing storm surge forecast animation.



Mahar Lagmay @nababaha

Check out the storm surge scenario for #YolandaPH .Visit noah.dost.gov.ph &click the storm tide forecast tab. pic.twitter.com/xFxUTQAdyU



26 RETWEETS

FAVORITES













9:37 PM - 6 Nov 13 - Details





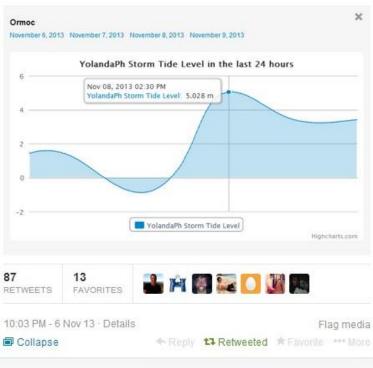


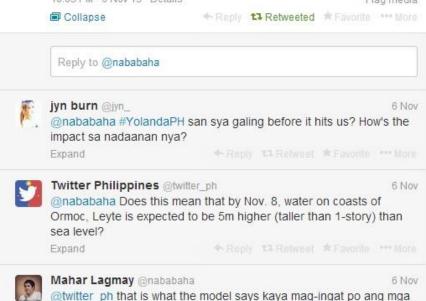


Mahar Lagmay @nababaha

6 Nov

Predicted storm surge height for coastal areas of Ormoc City on 8 November 2013. #YolandaPH pic.twitter.com/cZ5bKGa0NA





nasa coastal areas of Ormoc. Please look at the other areas as well.

Expand

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November 6 (Wednesday) 10:03PM

Dr. Lagmay's tweet showing predicted storm tide level for Ormoc at 5 meters by 2:30pm on Nov.8

November 7 (Thursday)

List of areas alerted for storm surge picked-up and posted by Interaksyon at 11:25PM



hour near the center with gusts of up to 260 kph as it moved west northwest

It is forecast to hit Guiuan or Abuyog, Leyte then cut through Biliran, northern

Cebu, Iloilo, Capiz, Aklan, Romblon, Semirara Island, southern Mindoro and

is expected to exit the Philippine area of responsibility on Saturday evening.

Authorities warned more than 12 million people are at risk from Yolanda,

hurricane in the United States' National Hurricane Center's Saffir-Simpson

The US Naw's Joint Typhoon Warning Center said Yolanda had maximum

wind scale -- meaning it has a wind speed of 250 kilometers per hour or

which had earlier been classified as a "supertyphoon" and category 5

Busuanga before heading towards the West Philippine Sea Friday night, but it

at 39 kph, the Philippine Atmospheric, Geophysical and Astronomical

Services Administration said late Thursday evening

higher, the strongest storm in the world this year

WALANG PASOK | Class Suspensions for

Thursday, November 7, due to 'Yolanda'

ANIMATION | See the projected path of

VIDEO I Typhoon Yolanda gains strength as it

Forensics experts to start identifying 'Yolanda' bodies on Saturday, health dept says

Judges, court workers in more than 10 'Yolanda'-hit regions to get salaries ahead of

Govt eases procurement rules for more

Govt should also provide contraceptives in 'Yolanda' evacuation centers, former solon

OTHER NATIONAL STORIES

PAYING IT FORWARD | Carpenter-soldiers off to Leyte

Death toll from supertyphoon 'Yolanda' rises to 3,633 -

Philippine organization launches global campaign for

As Yolanda victims' health woes mount, advocates urge Philhealth to use sin tax bonanza

DepEd allows 'emergency transfers' from Yolanda-

BREAKING NEWS

PAYING IT FORWARD | Carpenter-soldiers off to Leyte, bringing goods from 'Pablo' victims

Death toll from supertyphoon 'Yolanda' rises to 3,633 -ber 18, 2013 3:42 PM I Philippines News Agenr

Philippine organization launches global campaign for donations via mobile load

As Yolanda victims' health woes mount, advocates urne Philhealth to use sin tax honanza

DepEd allows 'emergency transfers' from Yolanda-

next 12 nours or more, has been raised over Maspate, Northern Samar, Eastern Samar, Samar, Levte, Southern Levte, Biliran Province, extreme northern Cebu, Bantayan Island, Capiz, Aklan, and northern Antique.

Signal No. 3 (101-185 kph winds over 18 hours) is up over Ticao Island, Sorsogon, Romblon, Calamian Group of Islands, the rest of Antique, the rest of lloilo, Guimaras, northern Negros Occidental, northern Negros Oriental, Bohol, northern Cebu, Cebu City, Camotes Island, Siargao Island, and Dinagat Province.

Signal No. 2 (61-100 kph winds over 24 hours) is hoisted over Mindoro provinces Marinduque, Albay, extreme northern Palawan, Burias islands, the rest of Negros Occidental, the rest of Negros Oriental, Siquijor, the rest of Cebu, Camiguin, Surigao Del Norte, Surigao Del Sur, and Agusan Del Norte.

typhoon-hit areas amid chac Signal No. 1 (winds of 30-60 kph over 36 hours) is raised over Metro Manila. Bataan, Camarines Norte, Camarines Sur, Catanduanes, southern Quezon, Laguna, Rizal, Cavite, Batangas, Lubang Island, the rest of northern Palawan, Puerto Princesa, Misamis Oriental and Agusan del Sur. related Hong Kong adds \$5.16

> PAGASA said heavy to intense rainfall of 10.0-30.0 mm per hour should be expected within Yolanda's 600-km diameter

Storm surges

related VIDEO | Japan to

related PNoy orders website

tracking of foreign aid to

at height of 'Yolanda'

PHOTO I Empire State

Building lights up for the

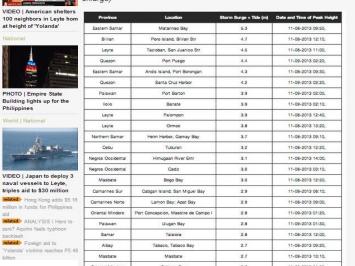
naval vessels to Levte.

triples aid to \$30 million

zero? Aquino feels typhoon

The Department of Science and Technology's Nationwide Operational Assessment of Hazards, or Project NOAH, also warned of dangerous storm surges of as high as five meters in coastal areas along Yolanda's path.

Project NOAH's list of areas forecast to experience storm surges (click image to





November 7 (Thursday) 10:58PM

- An updated list of an earlier model run with more than 100 specified localities with storm surge + tide values was placed on the website and blog. Updates to the simulation runs are made every 6 hours and details of the storm surge + tide heights can be seen in the <u>Project</u> <u>NOAH website</u> under the Weather Stations tab labeled YolandaPH Storm Tide Level.
- A total of 68 localities were included in the list. The updated model shows Ormoc, Leyte on top of the list with 5.2 meters predicted storm surge and tide level.
- Storm tide prediction was generated using Japan Meteorological Agency (JMA) Storm Surge Model results using 11:00 No PST JMA forecast data and WXTide results, both from 6 November 2013 – 10 November 2013.



Total of 68 localities

Ranate

Nationwide Operational Assessment of Hazards

News Feed Disaster Timeline About Project NOAH NOAH Open File Reports Search Blog Posts Update: Typhoon Yolanda highest predicted storm surge and tide Recent Posts Fluite 0 9 Tweet 0 8+1 0 # The model covers 12:00mn of 6 November 2013 to 12:00mn of 10 November 2013 (UTC). This update is based on the 5:00pm simulation. The next update is for the 11:00pm simulation. at 9 a.m. 19Z08N0V2013 Archives By Month Select Month Calendar of Posts November 2013 4 5 6 7 8 9 10 11 12 13 14 15 16 17 This list is an update of today's earlier model run with more than 100 specified localities with storm surge + tide 18 19 20 21 22 23 24 25 26 27 28 29 30 Updates to the simulation runs are made every 8 hours and details of the storm surge + tide heights can be

Search: **\$LOCATION** \$STORM TIDE \$DATE & TIME OF PEAK HEIGHT 11-08-2013 14:00 11-08-2013 08:00, Matarinao Bay 11-09-2013 02:10, Quezon Port Pusgo 4.6 Santa Cruz Harbor 4.3 11-09-2013 02:10. Quezon 4.3 Poro Island, Biliran Str 11-08-2013 12:30,

4.1

11-09-2013 02:00

seen in the Project NOAH website under the Weather Stations tab labeled YolandaPH Storm Tide Level.

Tage

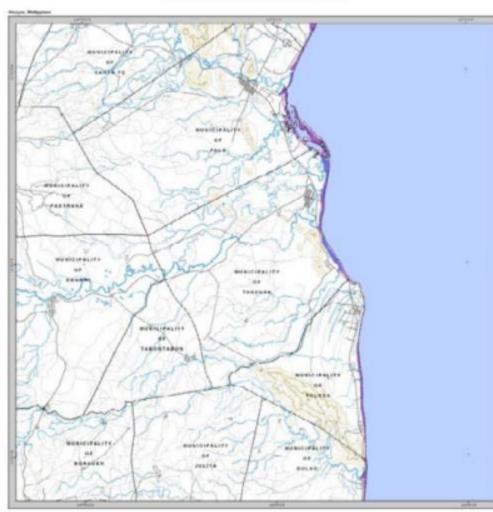
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news Project Noah
Noah

STORM SURGE HAZARD MAP



STORM SURGE HAZARD MAP





Communicate the risk effectively



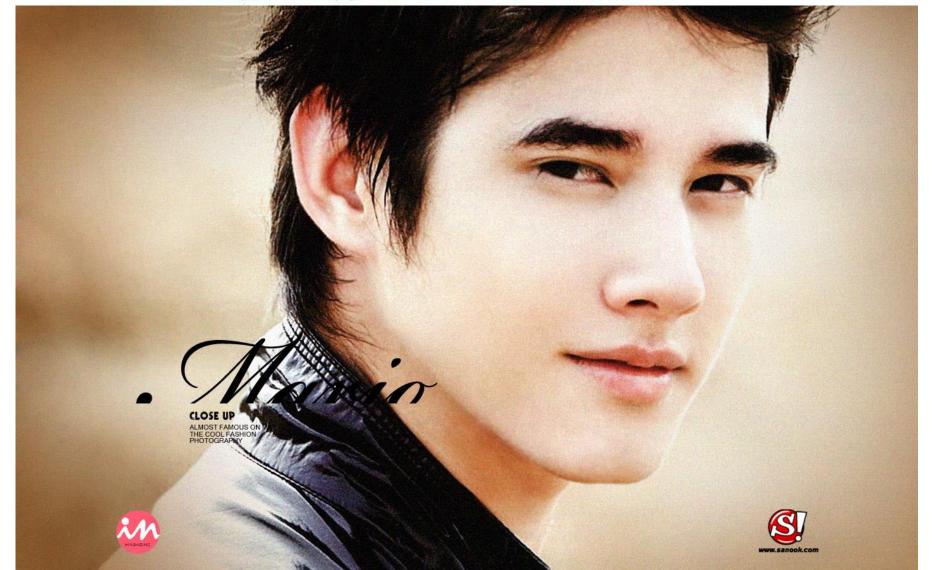
CARTOON BY MICHAEL MITTAG, WWW.COOLRISK.COM

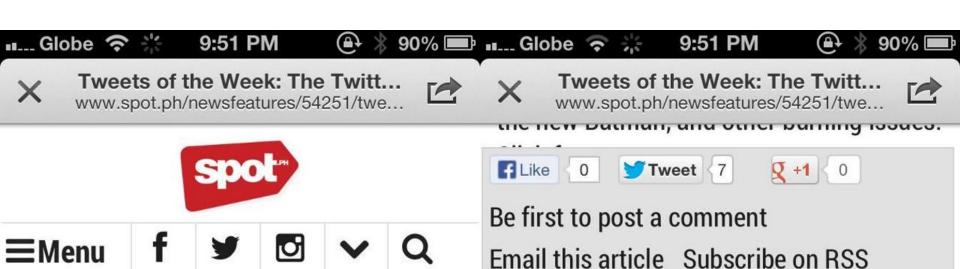
Tweets



mario @ohohmario Good after noon po 3h

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News+Features | Tweets of the Week
Tweets of the Week: The
Twitterati on the Million
People March, tropical
storm Maring + more
Who tweeted what and when.

Published on: Aug 27, 2013 - 11:00am



Tweets of the Week:

The Twitterati on the

Million People March,

19 of 30



GMA News @gmanews

22 Aug

"Ang love parang bagyo, 'yan eh. Mahirap i-predict kahit may PAGASA." - Anonymous | via @nababaha

Retweeted by Camille Bawan

Collapse

🕇 Reply 🔼 Retweet 🗯 Favorite 🚥 More

1,123 RETWEETS 578 **FAVORITES**















2:39 PM - 22 Aug 13 - Details

Reply to @gmanews @alassea027



charlene opada @charleneopada

24 Aug

"@gmanews: "Ang love parang bagyo, 'yan eh. Mahirap i-predict kahit may PAGASA." - Anonymous | via @nababaha" Expand



Mahar Lagmay

@nababaha

Forecast track & satellite image of typhoon #SantiPH . Paki share din po ito sa inyong mga kaibigan at mga kababayan pic.twitter.com/ 75VuzARmtb

10/11/13, 8:06 AM





Mahar Lagmay

@nababaha

Forecast track & satellite image of typhoon #SantiPH. Ang magretweet nito ay gaganda ang love life. pic.twitter.com/VEqIvZrJsm

10/11/13, 8:21 AM





Empower Local Leaders



Empower
Disaster
Managers









ABS@CBN NEWS







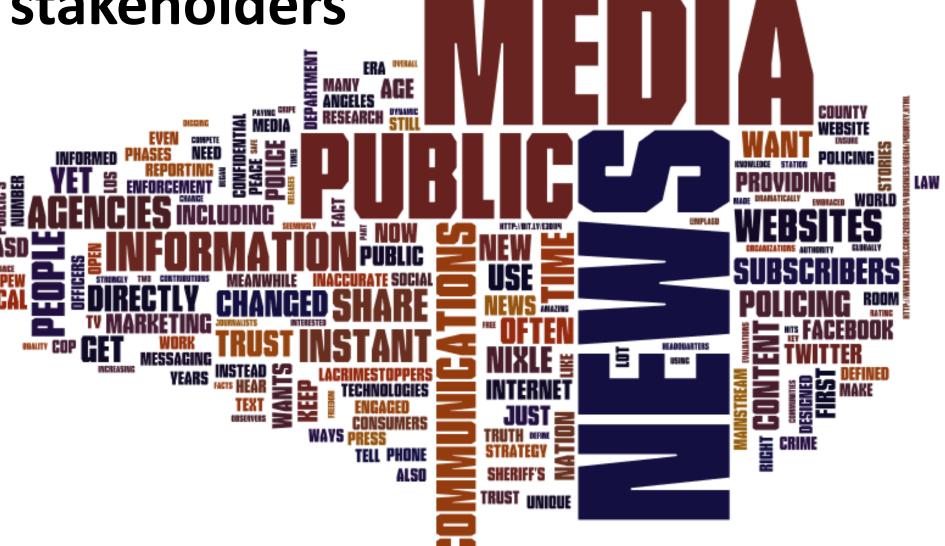
NBI: MGA NAGLAKAS-LOOB NA KASUHAN ANG ASAWANG MAY KABIT, DUMAMI DAHIL SA "THE LEGAL WIFE"

CIAL MEDIA | TV Patrol email: tvpatrol@abs-cbn.com 🗶 TV P

Capitalize on the power of the entertainment industry



Involve all stakeholders



Results

Minimum estimate of informal settlers at risk from	31,478
storm surges	

2010 Population of Tacloban City 221,174

Number of dead in Tacloban City according to 1,725 NDRRMC as of Nov. 25

Percentage of deaths relative to informal settlers in Tacloban City at risk from storm surges 5.5%

0.8%

Percentage of deaths relative to entire population of Tacloban City

1912 reports on Tacloban storm 'killing' 15,000 resurface

googleplus

f Like <11k

By Camille Diola (philstar.com) | Updated November 19, 2013 - 12:52pm

303

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TYPHOON AND TIDAL WAVE IN THE PULLLIPINES.

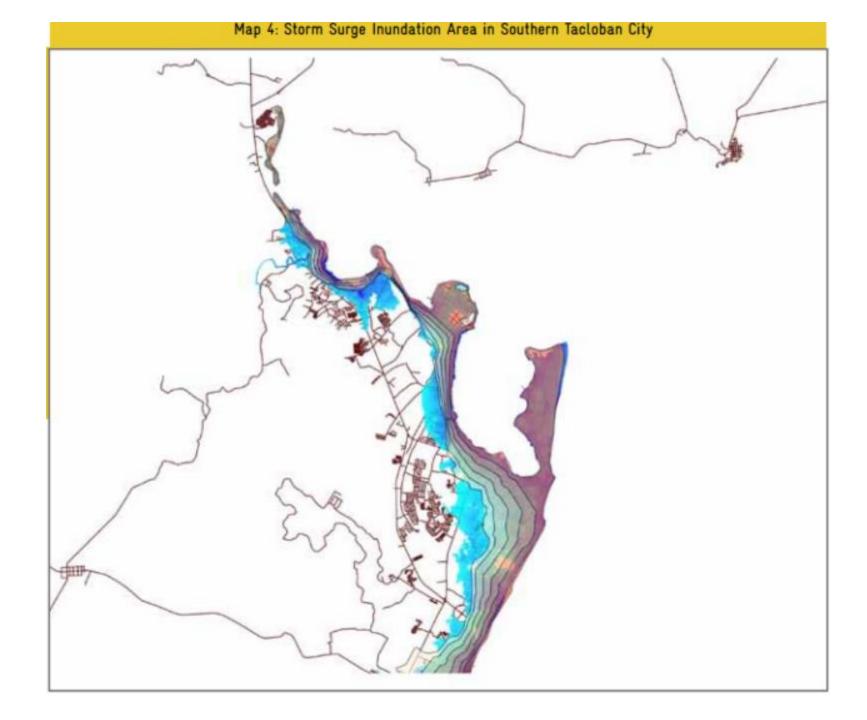
7000 Lives Lost.

Marr. advises, brought by the steamer Gaelic from Chinore and other ports in the Far Bast, contain details of the fearful destruction wrought in the Phillipine Islands by the typhoon and tidal wave during October. It is estimated that 400 Europeans and 6000 astives lost their lives, many being drowned by the rush of water, while others were killed by the violence of the wind. Esveral towns have been swept or blown sway. The hurricane first struck the Bay of Panta Paula, and devastated the district lying to he south of it No communication with the neighborhood was possible for two days. The hurriesne reached Leyte on October 12, and striking Tacloban, the capital, with terrific force, reduced it to ruize in less than half an hour. The bedies of 196 Europeans have been recovered from the fallen baildincs. Four hundred natives were buried in the rains. A score of small trading vessels and two Sydney traders were wrecked on the southern coast, and their crews drowned. At Games the sea swept inland for a mile, destroying property worth seven million dellars, and many natives lost their lives. The Government prison at Tacloban was wrecked, and of the 200 rebels therein half succeeded in making their secape. The town of Hernin was swept away by flood, and its 5000 inhabitants are missing. The small station of Weers, near Loog, is also gene, while in Long itself only three houses are left standing. Thousands of natives are reaming about the devastated province seeking food and medical attendance. In many cases the corpses were mutilated as though they had fallen in battle, and the expressions of their faces were most agenit-

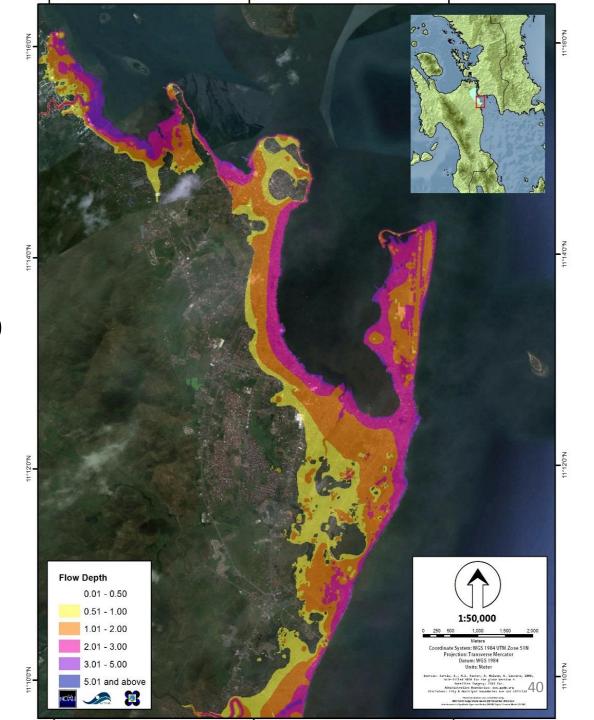
Gentlemen's lace boots, in the fashionable shades of tas, at H. H. Hart's.

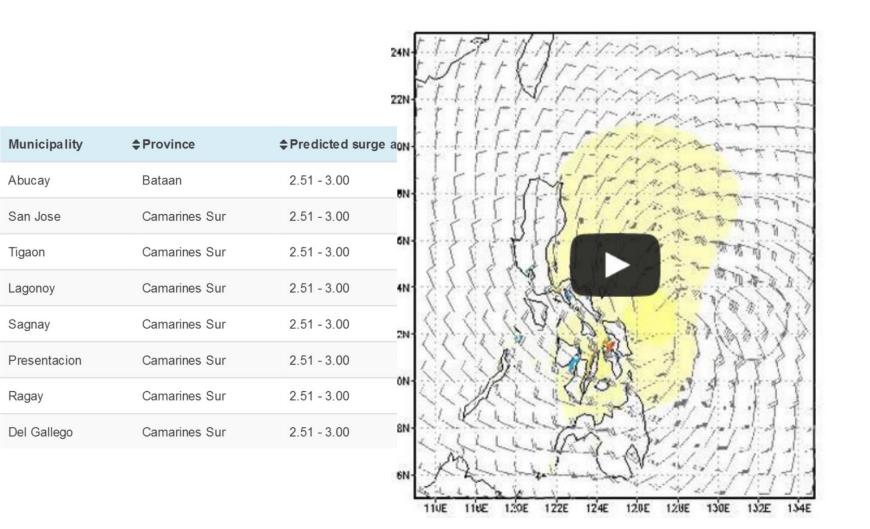
Little Ethel: "Reggie Rex and I is goin' to be married when we grow up." Nurse: "I thought you didn't like Reggie." Little Ethel: "I dont; but married men is never

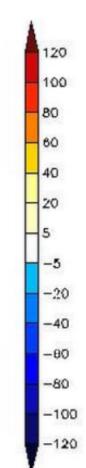
MANILA, Philippines - An old front page of the defunct Washington Herald resurfaced online running a story headlined "15 000 die in Philippine storm" and citing flattened out cities



Storm Surge Inundation map







Recap

Difference between hazards and disasters

The Culture of Safety

Communicating Risks



Tamang impormasyon sa tamang panahon!

Maraming Salamat!