

INFO SHARING PACOM J91

INFO SHARING

Connect communities of interest to information and information to communities of practitioners...

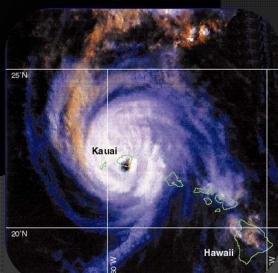
Through Fostering Disaster-Resilient Communities Information, Science, Technology, and Exchange

Concept & Origin

- Conceived in the aftermath of Hurricane Iniki (Impacted Kauai on Sept 11, 1992)
- A center to establish access to innovative, and more effective information resources supporting all levels of emergency management to better prepare for and respond to disasters.
- Today, PDC is an acknowledged leader in using the application of science and technology to advance international best practices in Disaster Risk Reduction (DRR).
- Open and unclassified















Active Country NDMO Users

- » Cambodia
- Vietnam
- Thailand
- Taiwan
- » Pakistan
- » Philippines
- » Indonesia
- » New Zealand

- » Australia
- » Burma
- » Laos
- » Nepal
- » Brunei
- » Mongolia
- » Malaysia
- » Singapore
- » Peru

- Marshall Islands
- » Palau
- » Micronesia
- » Malaysia
- » Singapore
- » Peru
- » Bahamas

Stakeholders

- United States
 - Pentagon (GSAF, NMCC)
 - PACOM, SOUTHCOM, NORTHCOM
 - White House (EOPUS)
 - State Department (Global Operations Center, US Embassies OFDA, USAID)
 - Veterans Affairs (Operations Center)
 - National Guard (Hawaii, Rhode Island, New York, New Jersey, Oregon...)
 - DHS Ops / FEMA (Region I & IX)
 - State EOCs (Hawaii, Florida, New Jersey, Utah....)

- Foreign Nations
 - Indonesia (BMKG)
 - Thailand (NDWC)
 - Vietnam (MARD)
 - Honduras
 - Philippines
 - Bahamas
 - Peru
 - El Salvador
 - Chile
 - Cambodia
 - Myanmar
 - Barbados
 - Bangladesh

- Regional & International
 - UN (OCHA, ...)
 - ASEAN (AHA Centre)
 - CDEMA
 - American Red Cross
 - Salvation Army
- General Public
 - Mom & Dad
 - Family, Friends
 - Colleagues, ...

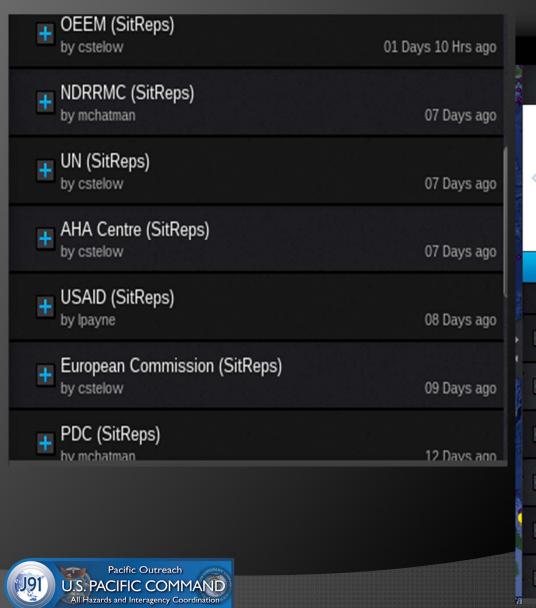


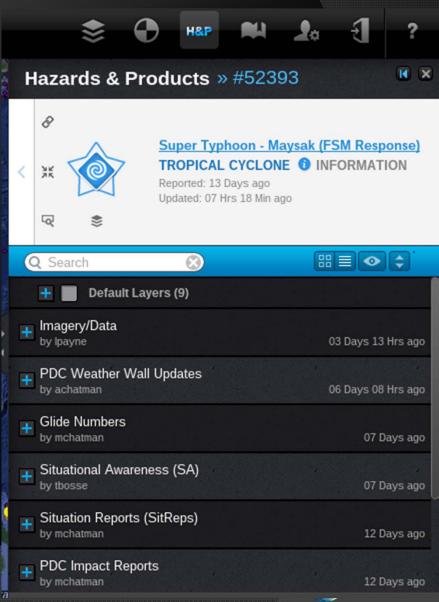


Capabilities

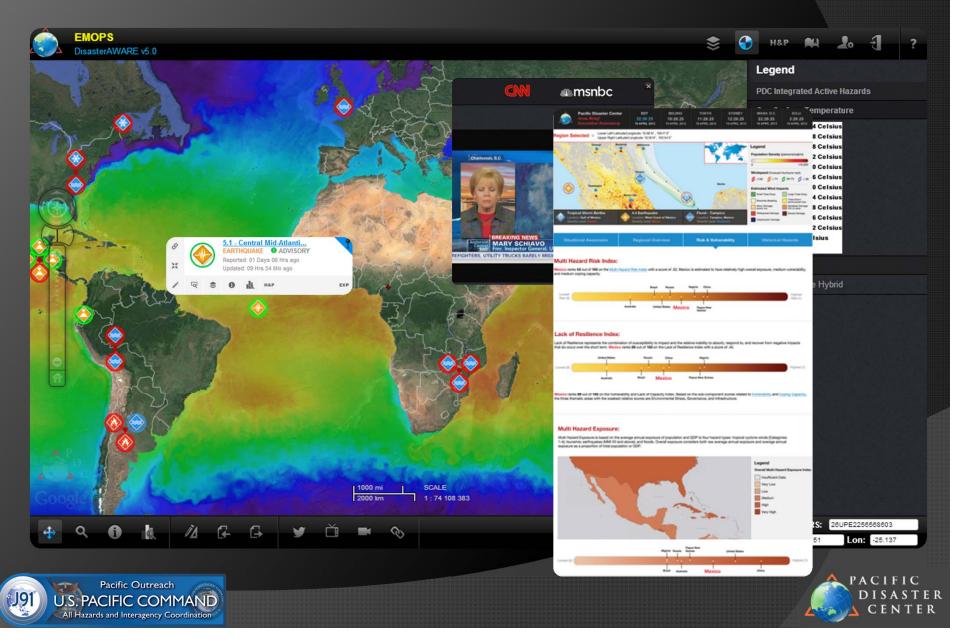


Shared Situational Awareness Tool





Internet-Based

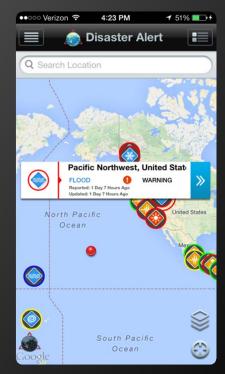


Mobile Public Disaster Alert App

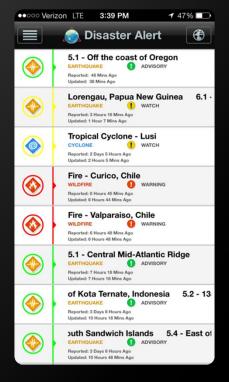
- Hazards occurring around the globe
- Android and iOS (iPhone/iPad) app via Android Market and iTunes



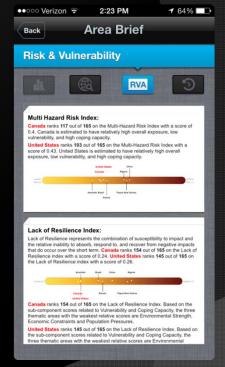
1.3M+ Downloads

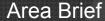


Interactive map



Hazards list

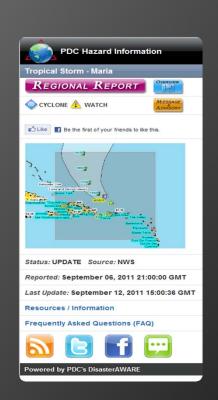








Utilize Social Media



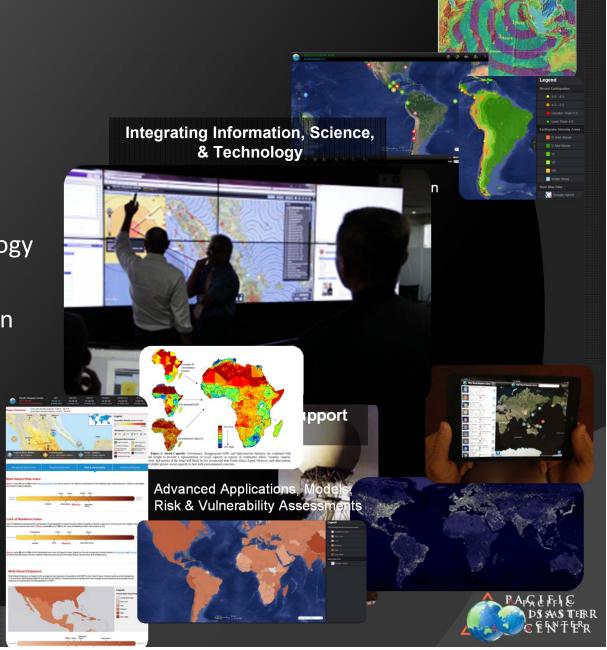




Integrated GEOSpatial Approach



- Applied Science & Technology
- Capability Building
- Evidence-Based Information Products
 - Policy & Decision Makers
 - Disaster Managers
 - Planners
 - Humanitarian Assist. Missions





Objective: Building a Bridge

Science Community Decision Makers

Peer Review

Audience

The Public

Low

Comfort with Uncertainty

High

Complex

Vocabulary

Simple

Technical Groups

Associations

Very Public

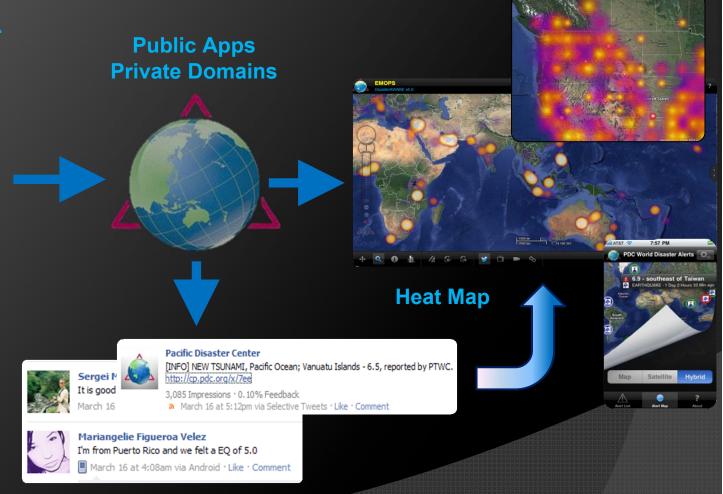




Knowledge ... Awareness

Public Advisory ...

```
.. TSUNAMI INFORMATION BULLETIN ...
THIS BULLETIN IS FOR INFORMATION ONLY
THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAP
DECISIONS REG"
ANY ACTIONS 1 Hazard Severity Level: WARNING
AN EARTHQUAKE This is a Cyclone Hazard.
ORIGIN TIME Available Hazard Data:
               Hazard ID
                                          = 33263
              Hazard Name
Severity
                                         = Hurricane - Sandy
= WARNING
                Latitude
                                          = -75.2
               Longitude
               Hazard End
                                (GMT) = October 28, 2012 21:00:00 GMT
(HST) = October 28, 2012 11:00:00 HST
= CYCLONE
 HISTORICAL E Hazard Type
               Category
                                          = EVENT
 HOWEVER - EA Comment
   HUNDRED KI Available Incident Data:
                 ncident ID
                                           = 32.1351371988319.1
                Issued ID
                 urrent Advisory
                                          = 22
                Outlein Advisory - 22
Incident Time (GMT) - October 22, 2012 15:00:00 GMT
Issued Time (GMT) - October 27, 2012 21:00:00 GMT
Message ID - 32.1351371988319
Incident Type - CYCLONE
```





Web, FB, Twitter, Smart Phone, ...



Challenges & Gaps ...

- Inadequate Tools for the Decision Makers
 - Lack Situational Awareness
 - Warnings are Hard to Digest
 - Information is Scattered
 - Risks are not Understood
 - Dissemination is Limited
- Information not easily understood is not particularly useful



Starting time: HST 11/14/2005 11:39 Starting time: UTC 11/14/2005 21:39

Location: longitude 144.8 EAST latitude 38.2 NORTH Magnitude: 7.3

Arrival Time is in HST

Longitude	Latitude	Arrival Time	Location
141.750E	39.000N	2005/11/14 12:22:4	5 Ofunato, Honshu
145.570E	43.280N	2005/11/14 13:05:5	7 Hanasaki, Hokka
138.230E	34.600N	2005/11/14 13:13:2	4 Omaezaki, Honsh
132.970E	32.78ON	2005/11/14 13:50:2	9 Tosashimizu,Sh
163.000E	56.000N	2005/11/14 14:39:5	3 Ust-Kamchatsk
156.000E	50.600N	2005/11/14 14:49:0	5 Severo_Kurilsk
127.670E	26.22ON	2005/11/14 14:58:1	Naha,Okinawa
166.618E	19.290N	2005/11/14 15:06:4	6 Wake
166.621E	19.289N	2005/11/14 15:06:4	7 Wake
144.652E	13.438N	2005/11/14 15:11:3	6 Guam
174 103F	52 731M	2005/11/14 15:16:2	Shemma

HURRICANE DAVID FORECAST/ADVISORYNUMBER 15 NATIONAL WEATHER SERVICE MIAMI FL EP0402 0000Z WED AUG 29 1979

HURRICANE CENTER LOCATED NEAR 13.7N 58.0W AT 29/0000Z POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE WEST-NORTHWEST OR 285 DEGREES AT

11 FT ESTIMATED MINIMUM CENTRAL PRESSURE 942 MB MAX SUSTAINED WINDS 120 KT WITH GUSTS 135 KT. WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 13.7N 58.0W AT 29/0000Z AT 28/2300Z CENTER WAS LOCATED NEAR 13.7N 57.0W

FORECAST VALID 29/0600Z 14.2N 59.2W MAX WIND 120 KT... GUSTS 135 KT. 64 KT... 35NE 35SE 35SW 35NW. 45 KT... 45NE 45SE 45SW 45NW. 34 KT... 135NE 135SE 135SW 135NW.

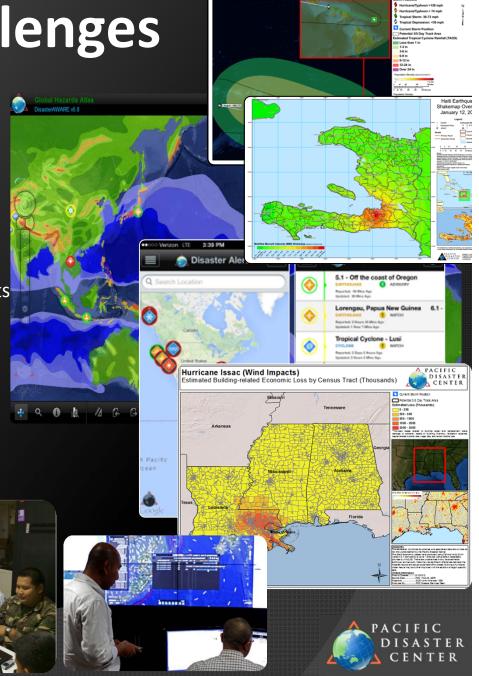
FORECAST VALID 29/1200Z 14.8N 60.3W MAX WIND 125 KT...GUSTS 140 KT. 64 KT... 40NE 40SE 40SW 40NW. 50 KT... 50NE 50SE 50SW 50NW. 34 KT... 130NE 130SE 130SW 130NW.

MAG	UTC DATE y/m/d h		<u>LAT</u> deg	<u>LON</u> deg	DEPTH km	<u>Region</u>
5.9	2006/04/29 (04:06:13	-11.313	118.534	30.0	SOUTH OF SUMBA
5.1	2006/04/28 :	18:01:28	41.766	80.669	31.8	SOUTHERN XINJIA
	2006/04/28 (TAIWAN
. .	0006/04/07:	10.10.10	16 050	170 700	75.0	TONICA
	2006/04/27 : 2006/04/27 :					TONGA EASTER ISLAND RE
5.2	2006/04/27	14:48:25	<u>-6.174</u>	147.711	87.8	EASTERN NEW GUI
5.3	2006/04/27 (04:18:28	0.321	30.026	10.0	LAKE EDWARD REC
5.3	2006/04/26	16:38:54	4.499	95.944	74.5	NORTHERN SUMAT





- Tools for Decision Makers
 - Simplify, Integrate, & Expedite Processing
 - Understand Exposure
 - Disseminate Early Warning
 - Social Media, Mobile Apps
 - Support Decisions Based on Latest Assessments
- Info for Policy Makers & Planners
 - Assess Socio-Econ Risks & Vulnerabilities
- Capacity for Practitioners
 - Training & Exercise
 - Workshops





International Partnership Testimonies

□ Taiwan – National Center for Disaster Redu	ction – Typhoon Morakot
--	-------------------------

"... During ... Typhoon Morakot, instant assistance provided by PDC does [mal] help us during the most difficult time. Partnership between PDC and NCDR is the best practice of international cooperation and collaboration ..."

Wei-Sen Li, Deputy Director, NCDR

☐ UN OCHA - Major event support: Typhoon Nargis

"... thank you for PDC's support during the early stages of the Myanmar cyclone response. ... [Support provided by our] PDC colleagues was highly valued by all."

Terje Skavdal, Head, UNOCHA, Regional Office for Asia and the Pacific

Thailand - National Disaster Warning Center (NDWC)

" ... PDC was the first organization to provide experts and assistance to help Thailand set up its early warning system [following the tsunami] ... I would like to again extend my grateful appreciation to PDC"

Vice Minister, Dr. Smith Dharmasaroja, Thailand

Cambodia – ASEAN Ministerial Meeting on Disaster Management

"... ASEAN Countries will further exert [their] outmost efforts in managing and reducing regional disasters ... I would like to thank ... Pacific Disaster Center [and others] ... who have provided technical support"

Prime Minister of Cambodia, H.E. Samdech Hun Sen

Pakistan – Earthquake Support

"... It was really heart warming to see the excellent work of the PDC ... May I add that all such works, in the interest of overall humanity, be widely distributed and global as well as regional responses br sought."

Prime Minister's Secretariat, ERRA, Islamabad, Pakistan, MAJ M. Hussain

Sri Lanka – NGO: Mercy Corp

"Your imagery will have a profound impact on return to normalcy for people in this district."

Mercy Corp GIS Coordinator in Sri Lanka, Glenn Brooks

□ Philippines – National Disaster Coordinating Council (NDCC)

"... please allow me to extend our heartfelt thanks and appreciation to the PDC for supporting the initiatives and projects of the Council to make it more relevant and attuned to global trends in addressing the concerns of disaster management at the national, regional and global settings... to take a more proactive and scientific approach to disaster management ..."

Administrator and Executive Officer, NDCC, Philippines, COL Elma C. Aldea



