



» Wildfire



» Hurricane



» Tropical Cyclone

» Tsunami



» Flooding

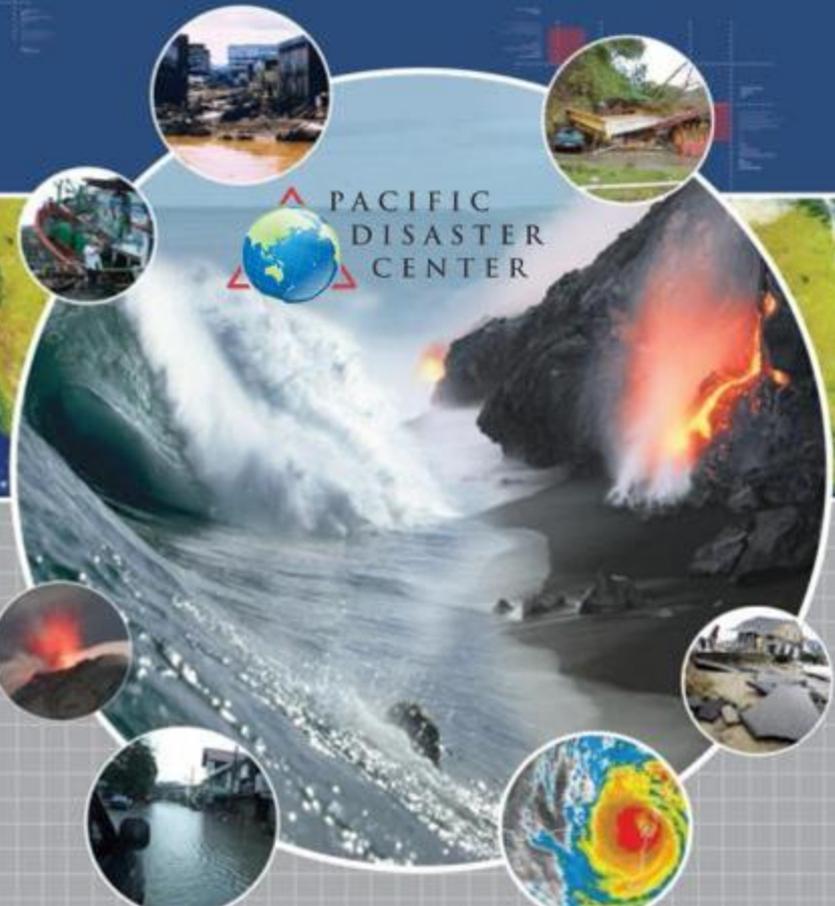
» Earthquake



» Pandemic Influenza



Fostering Disaster - Resilient Communities



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DisasterAWARE Platform: EMOPS

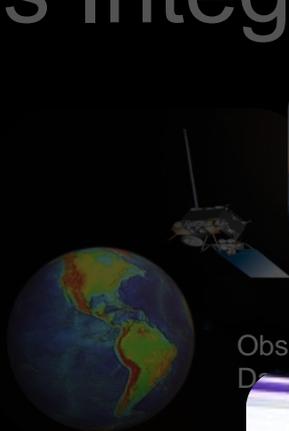
PDC Background

- ◉ Works to bridge the gap between science/technology providers & decision makers through **applied** information research and **evidence-based** analysis.
- ◉ A global program Headquartered in Hawaii with offices/staff in Asia and US Mainland.
- ◉ Established in 1996.
- ◉ Managed by the **University of Hawaii** since 2006.



PDC's Integrated Approach

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



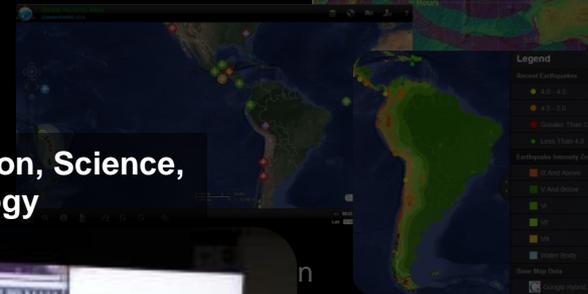
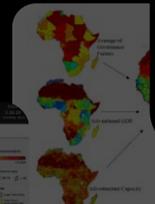
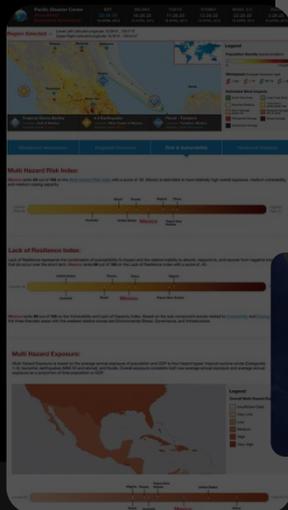
Integrating Information, Science, & Technology

Observation Systems & Technology



Improve Decision-support Capabilities

Advanced Applications, Models, Risk & Vulnerability Assessments



DisasterAWARE Platform

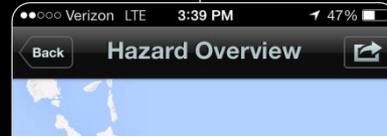
- ◎ DisasterAWARE (**A**ll-hazard **W**arning, **A**nalysis and **R**isk **E**valuation)
 - An integrated platform providing situational awareness, decision support, and information exchange capabilities to disaster management decision makers.
- ◎ DisasterAWARE incorporates international best practice methodologies and technologies for **data acquisition, hazard modeling, risk and vulnerability assessment, mapping, visualization, and communications.**

DisasterAWARE Platform

Key Features

- Integrated Multi-hazard Monitoring
- Disaster Early Warning
- Automated / Integrated Modeling
- Hazard Maps and Historical Hazard Data
- Intra-Agency Info Sharing
 - User Added Situation Reports
 - Damage Products, ...
- Remote Access (Disaster Alert)





Disaster Alert



Atlas



EMOPS



Custom

Applications

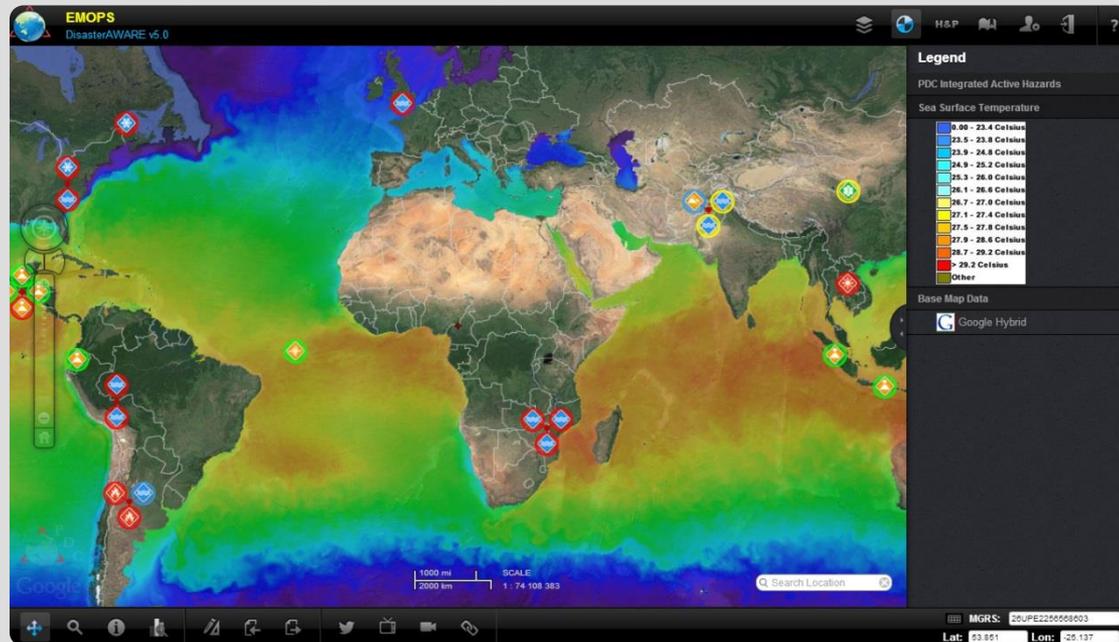
Disaster
Alert

Atlas

EMOPS

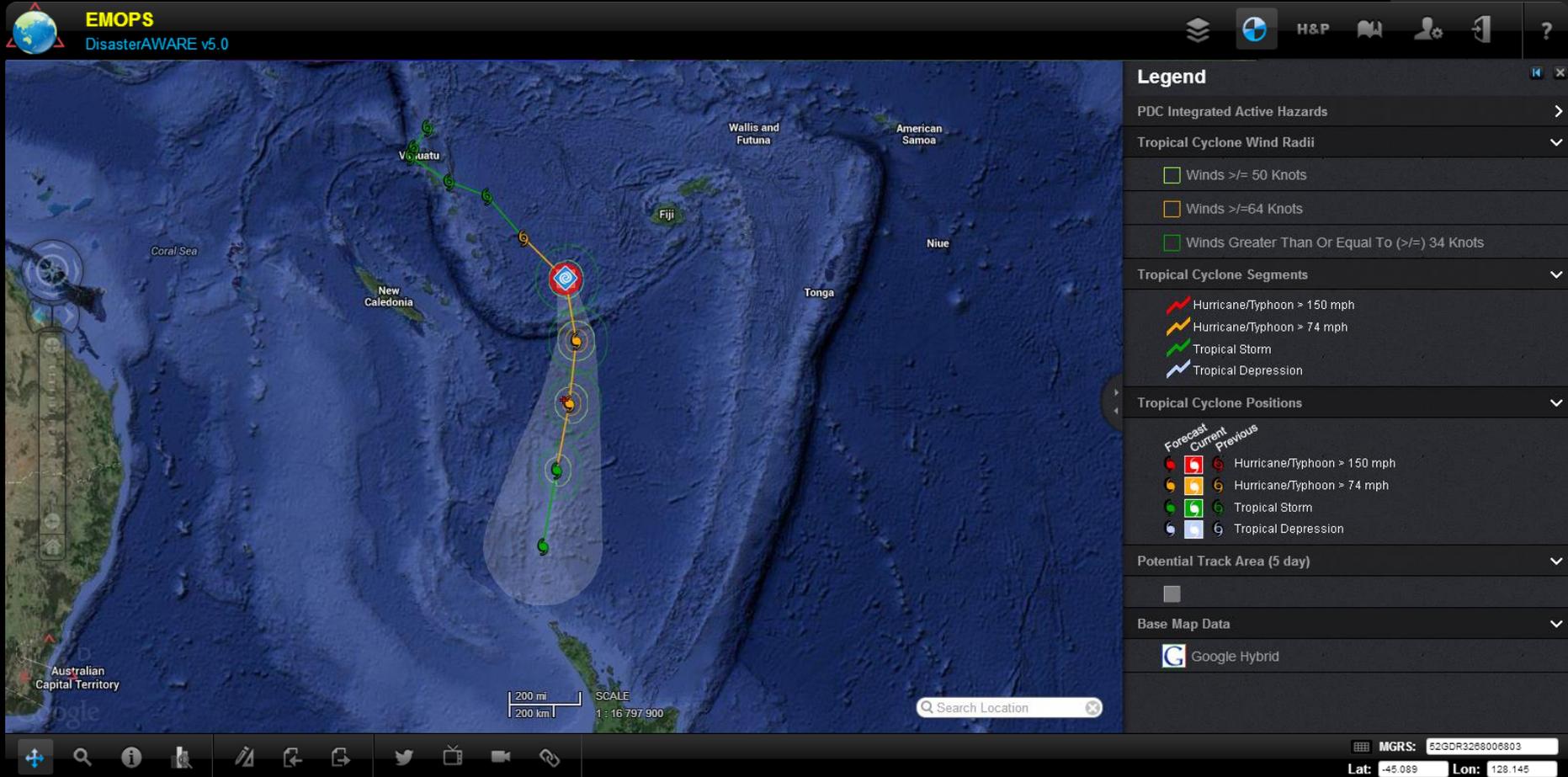
Custom

EMOPS is made freely available to disaster management practitioners around to support disaster risk reduction and humanitarian assistance activities.

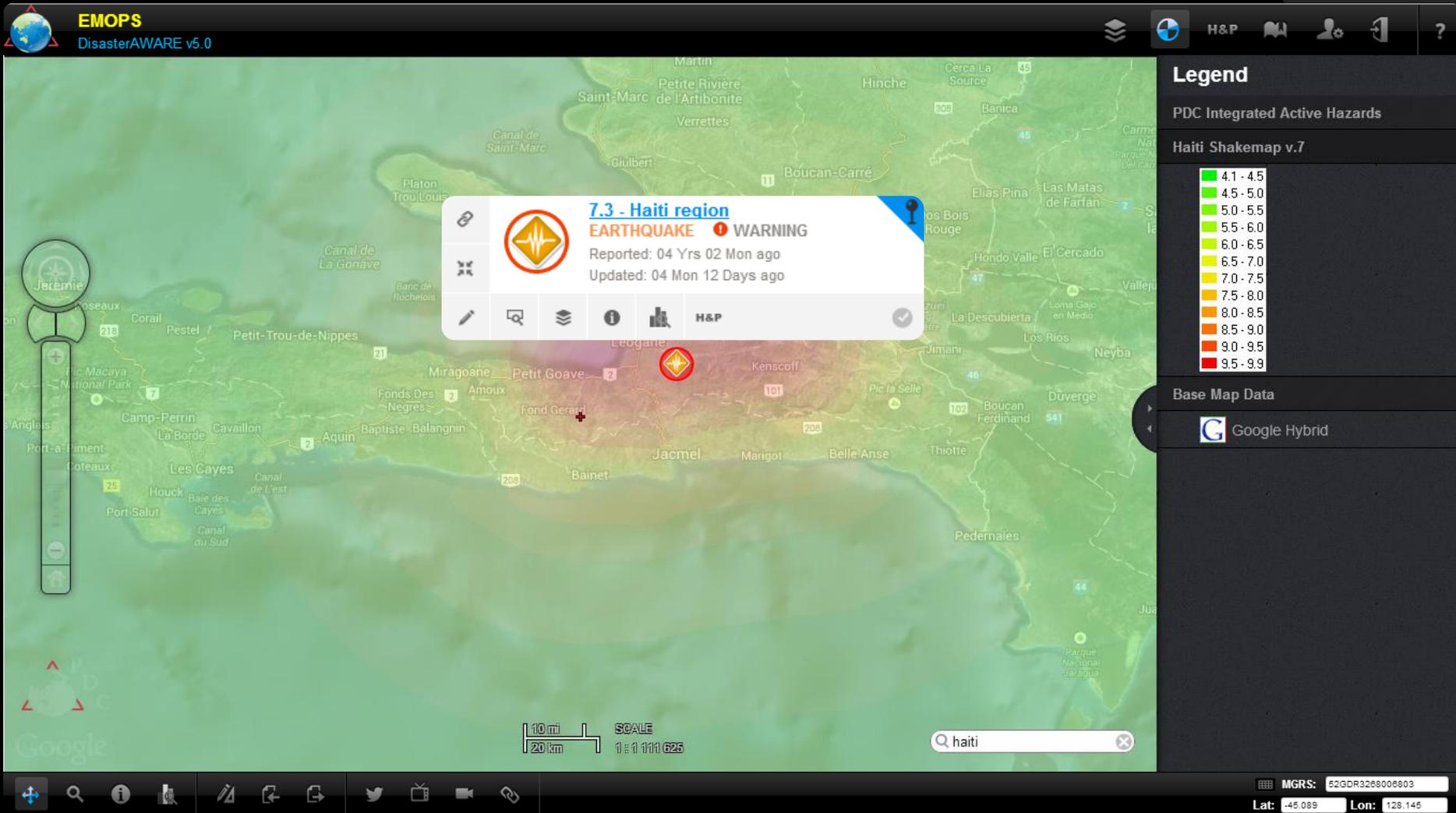


<http://emops.pdc.org>

Example: Tropical Cyclones



Example: Earthquakes



Example: Tsunamis

EMOPS
DisasterAWARE v5.0

March 11 - Tsunami Respon...
TSUNAMI **WARNING**
Reported: 03 Yrs 00 Mon ago
Updated: 04 Min 02 Sec ago

March 11 - Tsunami Response (Pacific Ocean) - Near East Coast Of Honshu Japan - 8.9
TSUNAMI **WARNING**
Reported: 03 Yrs 00 Mon ago
Updated: 04 Min 53 Sec ago

PDC Tsunami Special Event
by rshirkhodai 03 Yrs 00 Mon ago

NOAA Tsunami Energy Map
by jlivengood 03 Yrs 00 Mon ago

DLR Initial Damage Assessment
by thorne 03 Yrs 00 Mon ago

Sendai, Japan
Pre-Event March 11th, 2011 Post-Event March 12th, 2011
Sendai Japan - Pre/Post imagery comparison by MODIS

108 products | 21 products are hidden

Applications

Disaster
Alert

Atlas

EMOPS

Custom

Customized versions of DisasterAWARE, such as the AHA Centre's DMRS, incorporate specific national or regional data, provide for customized alerting rule and distribution, and allow access by authorized users.





"Fostering Disaster-Resilient Communities"