Using Results to Communicate & Address Risk: Preparedness and Response

— Decision Support and Early Warning Systems —

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Pacific Disaster Center

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APEC Asia-Pacific Economic Cooperation

PACIFIC DISASTER CENTER

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Challenges & Gaps …

- Inadequate Tools for the Decision Makers
  - Information is Scattered
  - Warnings are Hard to Digest
  - Lack Situational Awareness
  - Risks are not Understood
  - Access and Dissemination is Limited

- Time is *LIFE*
  - Information you can't easily understand and act upon isn't particularly useful

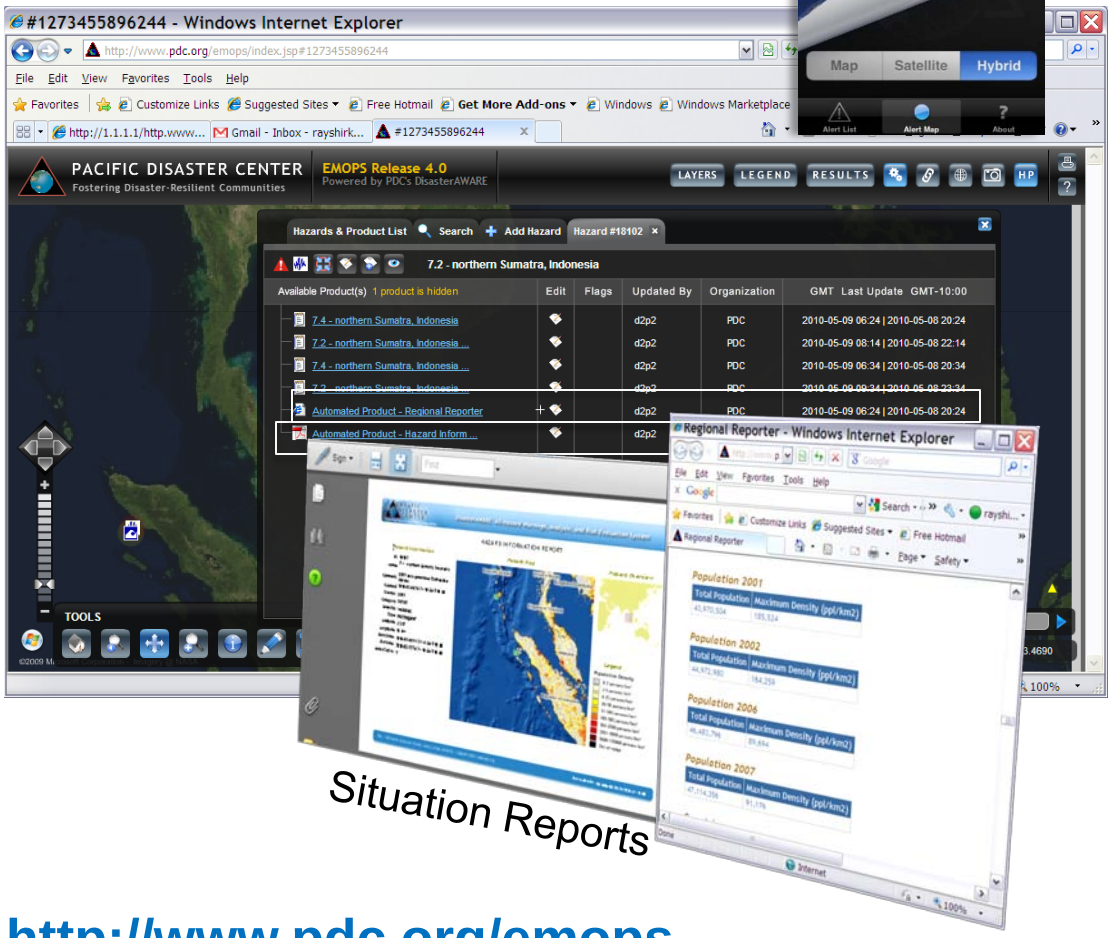
Sample Advisories

DisasterAWARE

- Integrated Multi-hazard Hazard Monitoring
- Disaster Early Warning
- Automated / Integrated Modeling
- Exposure (Risk) Maps & Historical Hazard data
- Customized Impact Modeling AND
- Intra-Agency Info Sharing
  - User Added Situation Reports
  - Damage Products, …
- Remote Access

iPhone App

May 10, 2010



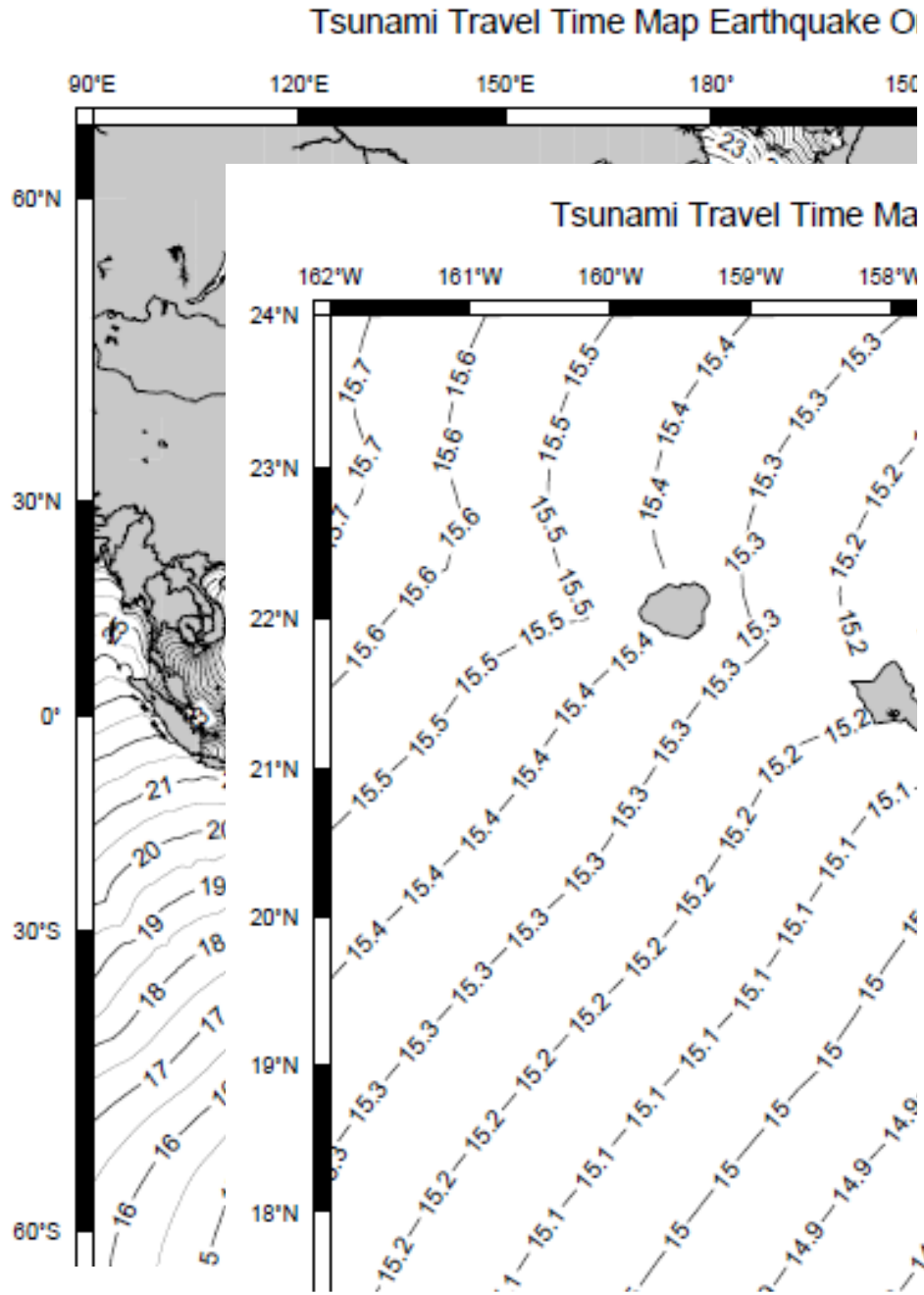
Situation Reports

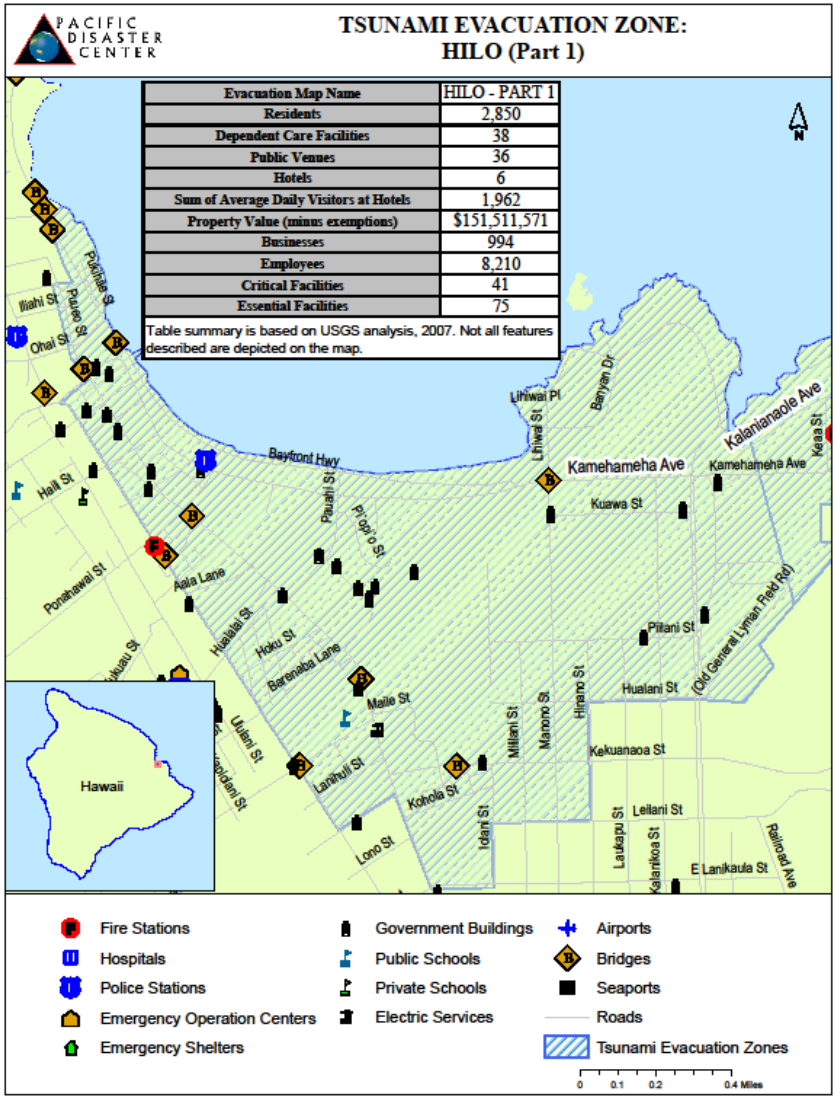
http://www.pdc.org/emops

Hurricane Preparedness Exercise 2010

#1277498426897 - Windows Internet Explorer
http://www.pdc.org/emops/index.jsp#1277498426897
Haiti Earthquake 2010
File Edit View Favorites Tools Help
Favorites
Web Slice Gallery
#1277498426897
Page Safety Tools
PACIFIC DISASTER CENTER
Fostering Disaster-Resilient Communities
EMOPS Release 4.0.1
Powered by PDC's DisasterAWARE
LAYERS
LEGEND
RESULTS
HP
LEGEND
Haiti Internally Displaced Pers
Haiti Police
Haiti Hospitals
Haiti Aid Distribution Sites
Haiti Damage Areas (Jan16)
Catastrophic
Extensive
Moderate
Limited
RESULTS
Identify 4
Haiti Aid Distribution Sites
AGENCY DESCR TYPE
WFP Cham de Mars aid distribution site Food, Water, and NFI
Haiti Hospitals
NAME TYPE COUNTRY DEPARTMENT MUNICIPALI ADDRESS DAMAGE OP STATUS NUM BEDS CONTACT
De l OFATMA (Cite Militaire) Health Center Haiti Ouest Port-Au-Prince 36 Rue Piquant No Visible Damage Full 47 509-222-3846, 509-222-7853
Haiti Internally Displaced Persons
NAME
Camp increase (size / population)
Camp increase (size / population)
Baie de
Port-au-Prince
TOOLS
METADATA SUMMARY
Haiti Hospitals
Abstract:
Various facilities in and around Port-au-Prince, Haiti derived from multiple sources including NGA, UN, UNJLC, PDC, Reliefweb, and OpenStreetMap. Infrastructure locations are unverified and should only be used as a guideline
Open in Browser
Full Metadata
LAYERS
Keyword Search
Government
Haiti Prisons
Haiti UN Facilities
Haiti Military Facilities
Haiti Government Facilities
Haiti Embassies
Emergency Services
Haiti Operations Center
Haiti Aid Distribution Sites
Haiti Police
Haiti Hospitals
Haiti Field Hospitals
Haiti Fire Stations
Hospitals
Click to view metadata summary
Transparency:
Internet | Protected Mode: Off
100%

Chile Earthquake/Tsunami 2010

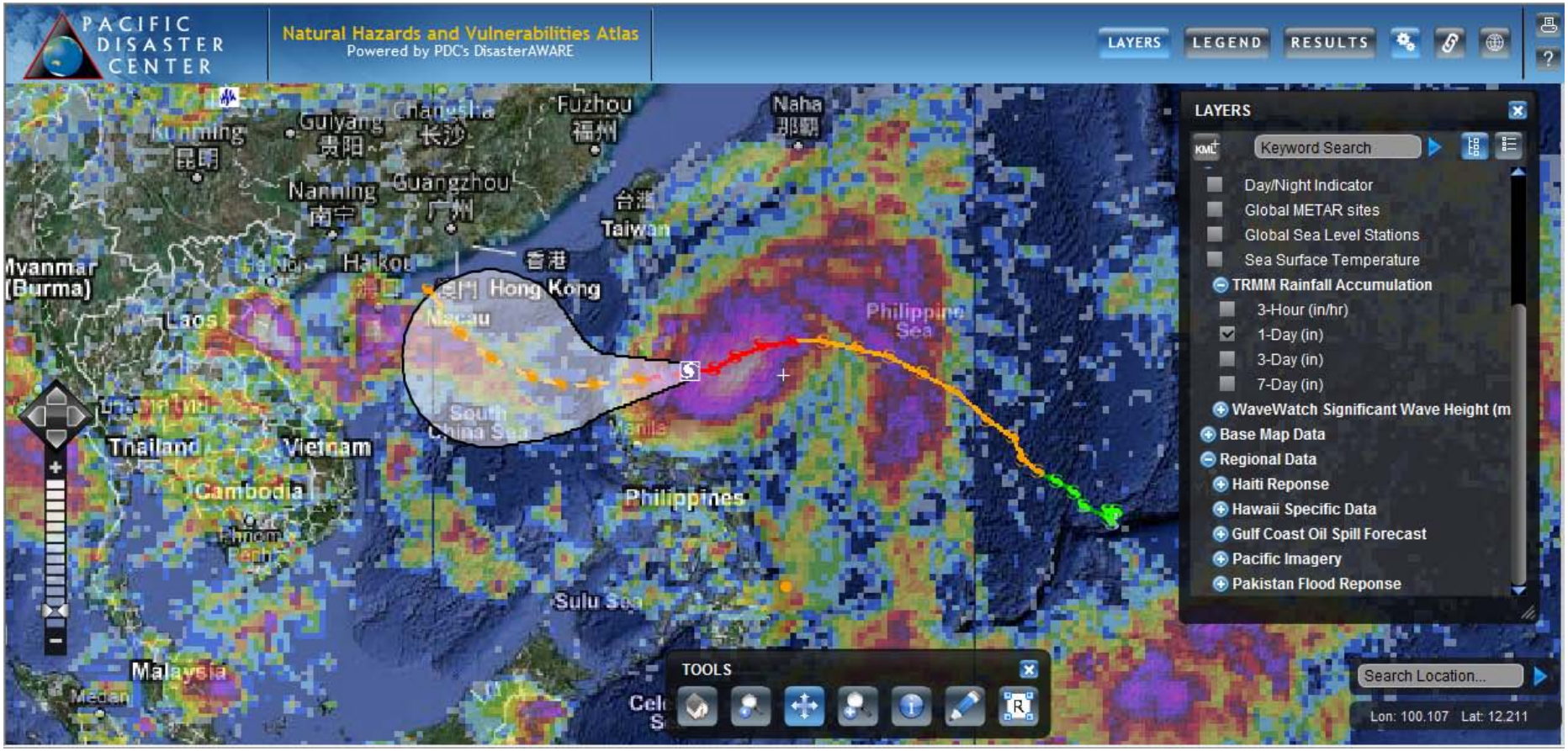




iEMOPS App

iTunes Apps Store (search ‘Pacific Disaster Center’)

PDC Global Hazards Atlas



http://www.pdc.org/atlas

Acknowledgements

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- **Published Source Materials**
  - Images used in presentation from various Pacific Disaster Center online and mobile applications:

    DC's Emergency Operations system (EMOPS): www.pdc.org/emops;

    PDC's Natural Hazards and Vulnerabilities Atlas: www.pdc.org/atlas; and

    Disaster Alert (iPhone/mobile device application): http://www.pdc.org/PDCNewsWebArticles/2010/iTunes/disaster_alert.htm