Integrated Information Website: Hawaiian Archipelago Pilot Project

Design and implement a comprehensive, informational website to serve as a clearing house for weather and climate information.

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Nancy Soreide and Tracey Nakamura (NOAA/PMEL)
Hawaii regional web site

- Provide a central site for information concerning Hawaii; pilot site for other islands
- Link between science and public, but provide service to both
  - Unique demands (e.g., formats, presentation, etc.)
  - Large, wide-ranging information base
Hawaii Regional WEB

Data
- Programs
- Climate/Weather
- Observations
- Water quality
- More

Organizations
- Weather/Water
- Risk Mgmt
- Climate
- Ecosystems
- Economic Sus.
- Education

General Interest
- About
- Educational
- Sanctuary/Museum
- Maps
- Photos/Cams
- Agriculture
- Flora/Fauna
- Business
- Tourism
Three main entries:
1. General public
2. Organizations
3. Data

Integrate data, data/research providers and users
Data/Research providers

Organizations

- Weather and water information, forecasting and warning
- Risk management
- Climate variability and change
- Coastal and oceanic ecosystem management
- Economic sustainability - Fisheries, Agriculture
- Academic and educational organizations

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Weather and Water Information, Forecasting and Warning

- **NOAA National Weather Service**
- **National Weather Service Pacific Region Headquarters**
- **Extreme weather events** from NOAA NCDC
- **Tsunami monitoring**
  - Pacific Tsunami Warning Center
  - International Tsunami Information Center
- **Tropical cyclones, hurricanes**
  - Tropical Pacific Climate Information & Prediction System (TPCIPS) from the National Weather Service
  - Naval Maritime Forecast Center/Joint Tsunami Warning Center (NMFC/JTWC)
  - Central Pacific Hurricane Center - hurricanes, cyclones
- **Water Quality**
  - Hawaii State Department of Health - Water Quality
- **Extreme rain, wind, surf**
  - Pacific Disaster Center - extreme rain, wind, surf
- **Sea Level**
  - Sea Level Center at the University of Hawaii - sea level
- **Drought**
  - Pacific El Nino Southern Oscillation (ENSO) Applications Center (PEAC) - drought

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Risk Management

- Pacific Risk Management Ohana (PRiMO) from the NOAA Pacific Services Center
  - Risk management links
Organizations: Climate variability and change

- Pacific El Nino Southern Oscillation (ENSO) Applications Center (PEAC)
- International Pacific Research Center (IPRC) - Intra-seasonal to decadal climate research
- Sea Level Center at the University of Hawaii
- Pacific Islands Regional Integrated Science Assessment (Pacific RISA)
- NOAA CoastWatch
- NOAA Satellite and Information Service
- Water and Environmental Research Institute (WER) of the Western Pacific from the University of Guam
Organizations: Coastal and oceanic ecosystem management

Coastal and Oceanic Ecosystem Management

- NOAA National Ocean Service
- NOAA Fisheries Service
- Coral Reef Ecosystem Division of the NOAA Pacific Islands Fisheries Science Center
- Ecosystems and Oceanography Division of the NOAA Pacific Islands Fisheries Science Center
- Protected Species Division of the NOAA Pacific Islands Fisheries Science Center
Economic Sustainability - Fisheries, Agriculture

- NOAA Southwest Regional Fisheries Office
- Pacific Islands Fisheries Science Center
- Western Pacific Fishery Management Council
- Pelagic Fisheries Research Program - from SOEST, University of Washington
- Malama Kai Foundation - West Hawaii Fishery Council (WHFC) Liaison - coordinates between the WHFC, the Department of Land and Natural Resources, Division of Aquatic Resources (DLNR-DAR) and local, isolated fishing communities
- Fishery Biology and Stock Assessment Division of the NOAA Pacific Islands Fisheries Science Center
- Asia-Pacific Economic Cooperation (APEC) forum for facilitating economic growth, cooperation, trade and investment in the Asia-Pacific region
- Secretariat of the Pacific Community (SPC) - international organization's activities include natural resources such as agriculture, forestry and fisheries, as well as socio-economic programmes such as culture, health, statistics, women and youth
- Hawaii Division of Forestry and Wildlife
- Secretariat of the Pacific Community
- State of Hawaii Forestry Website
Organizations: Academic and Educational

- University of Hawaii
- School of Ocean & Earth Science and Technology (SOEST) at the University of Hawaii
- List of Academic Institutions & Centers from Pacific Islands Internet Resources
- Department of Meteorology at the University of Hawaii
- National Institute of Water and Atmospheric (NIWA) Research - A New Zealand Crown Research Institute
- East-West Center - Education and research organization that helps promote the establishment of a stable, peaceful and prosperous Asia Pacific community
- Pacific Regional Planetary Data Center serving planetary research and education community through the Pacific (NASA/University of Hawaii)
- List of Regional Organizations from Pacific Islands Internet Resources
- Pacific Islands Regional Integrated Science Assessment (Pacific RISA)
- Hawaii Institute of Marine Biology at Coconut Island - University of Hawaii
- Pacific Region Integrated Data Activity for Enterprise (PRIDE) at Asia Pacific Data Research Center

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Data links

Environmental Data

- Programs
- Climate/Weather/Surf forecasts
- Observations
- Water quality observations
- More data and information about the Hawaiian Archipelago

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Data links: programs

Programs

- **Hawaii Ocean Time series (HOT)** The Physical Oceanography component of HOT strives to describe and understand the ocean climate and variability at a deep-water site in the North Pacific subtropical gyre near Hawaii.
- **Hawaii Beach Monitoring Program** - from USGS and University of Hawaii
- **Hawaii Coral Reef Initiative - Research Program** - from University of Hawaii
Data links: climate/weather

Climate/Weather/Surf Forecasts

- Honolulu Marine Products from National Weather Service
- Hawaii Surf forecast for Oahu
- Hawaii Weather forecast
- Tropical Pacific Island Rainfall Outlooks
- Tropical Pacific Climate Information & Prediction System (TPCIPS) from the National Weather Service
- Pacific Region Weather Server at the University of Hawaii
- Tropical Storm Tracking from Unisys
- Tropical Weather Server/Pacific Basin Tropical Cyclone Products (satellite imagery updated hourly) - from Ohio State University
- Extreme weather events from NOAA-NCDC
- World Precipitation Probability Forecast from the International Research Institute (IRI) for Climate Prediction

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Observations

- Atmospheric, oceanic, and air-sea flux data and products from the IPRC/Asia Pacific Data Research Center
- Sea Level Data Center at University of Hawaii
- Climatology in the Pacific Islands from Pacific ENSO Applications Center (PEAC) at University of Hawaii
- Pacific Rainfall Database (PACRAIN) from the University of Oklahoma
- Hawaiian Islands Marine Data from National Data Buoy Center
- TAO/TRITON Buoy Data - Realtime El Nino/La Nina data
- Pacific Ocean Buoy Data - from StormSurf
- Climate Variations during ENSO in the US Asia Pacific Islands from Pacific ENSO Applications Center (PEAC) at University of Hawaii
- WOCE-MAD Data Pacific Ocean Ongoing cruises
- WOCE-MAR Data Pacific Ocean Repeat cruises
- Pacific Ocean Repeat Section Data Inventory and Information (Ocean CO2 CDIAC)
- Tide Data from NOAA
- Latest Tsunami Event Message from National Weather Service
- Tsunami Observations and Data from NOAA Tsunami website
- COSMOS Virtual Data Center - a portal to the strong ground motion records - acquisition and application of strong-motion data in order to increase public safety from earthquakes
- Pacific Hydrographic Data from the CLIVAR Data Assembly Center at Scripps Institution of Oceanography
- Pacific Islands Climate Data and Maps from the NOAA National Weather Service
- Upper Ocean Thermal Data from the TOGA/WOCE transect PX3/PS3 between NE Australia and Japan, from CSIRO
- Hawaiian GIS Data from the National Park Service’s Pacific Island Network Data Clearinghouse
- Pacific Rim Streamflow Data Set
- Hawaii and Pacific Islands Local Climate Data Summaries from Western Regional Climate Center
- Satellite data
  - Satlab server at GOES
  - NOAA Coaview for the Central Pacific
  - NOAA Coaview regional Satellite Product Server
  - Realtime Eastern Pacific GOES satellite imagery (film loop)
  - Realtime Geostationary Satellite (GOES) Server
Water Quality Observations

- Water Quality in Hawaii - US Dept of Agriculture
- Hawaii State Department of Health - Water Quality
- A Guide to Water Quality at Vacation Beaches (PDF) - Natural Resources Defense Council
- Mamala Bay Links
  - Mamala Bay Dredge Disposal Studies - from USGS
  - Fact Sheet: Seafloor Studies of Mamala Bay, Honolulu, Hawaii - from USGS
  - Mamala Bay Data - from USGS
  - Mamala Bay Dredge Disposal Studies - Publications - from USGS
  - West Mamala Bay Wastewater Facilities Plan from Hawaii Department of Environmental Services
  - Draft Report on Coastal Pollution from the Mamala Bay Study Commission, provided by Environment Hawaii
  - Mamala Bay water quality monitoring Project - from University of California, Santa Barbara
  - Mamala Bay Bottom Characteristics - an integrated GIS analysis with figures from USGS and ESRI
- Kaneohe Bay
  - NOAA Sponsored Long-Term Kaneohe Bay Monitoring Project (October 1998 through July 2001) - includes photos, maps, data
  - Water Quality Assessment and Monitoring - final report on Kaneohe Bay (PDF) - from University of Hawaii
  - Location File for Kaneohe Bay - users guide for running models
  - Erosion Mitigation and Archaeological Data Recovery, Kaneohe Bay - Project description from Pacific Consulting Services for US Army Corps of Engineers
  - Kaneohe Stream Project - AECOS environmental consulting firm
More Data and Information about the Hawaiian Archipelago

- [Asia Pacific Newspapers](#) (some links broken, some good)
- [Tariff Information for the APEC member economies](#)
- [Asia-Pacific in Figures](#) features and trends from United Nations Economic and Social Commission for Asia and the Pacific
- [Pacific Cadastral (mapping, boundaries) GIS Data and Maps](#) for Offshore Minerals Management Offshore Leasing Program (US Dept. of Interior)
- [Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)](#) - international forum for researchers and industry to share experiences on data mining, data warehousing, machine learning, databases, statistics, knowledge acquisition and automatic scientific discovery, data visualization, causal induction and knowledge-based systems.
- [Facts on Native Hawaiian and Other Pacific Islander Population](#) from U.S. Census Bureau
- [Hawaii GIS data](#) (political boundaries, hydrography, land use, placenames, etc) from GeoCommunity.com
- [Biotic Database of Indo-Pacific Marine Mollusks (OBIS)](#)
- [Links to Hawaii data sets](#) from the Hawaii/Pacific Islands Liaison for NESDIS/NODC/NCDDC
- [Status of Interactions of Pacific Tuna Fisheries in 1996](#) - Food and Agriculture Organization (FAO) of the United Nations
General interest

Hawaiian Archipelago

General Interest

- About
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Status

- Framework complete
- Comments on organization/content
- Add “value-added” products from APDRC and other PRIDE members
- Link users to research effort:
  - What is useful/desirable?
- Expand to other island domains:
  - Data supply
  - Bandwidth issues
Next Step

- Input from participants
- Input from users
  - Tracking statistics
- Organization(?)
- New region