

Climate Services for the Coast: Forging Information Partnerships

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NOAA National Climatic Data Center

Coastal GeoTools 2009

March 3, 2009

Geospatial Tools: Providing a Resilience Context

People



Places



Possibilities



Partnerships

Society + Environment + Economy



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 February 27, 2009



Monitoring the Ocean's Carbon Balance

The idea seemed simple enough: the more carbon dioxide that people pumped into the atmosphere by burning fossil fuels, the more the oceans would absorb. Is the ocean's uptake of carbon changing its carbon cycle? After 30 years of observations, NOAA scientists found a surprising answer. [Read more...](#)

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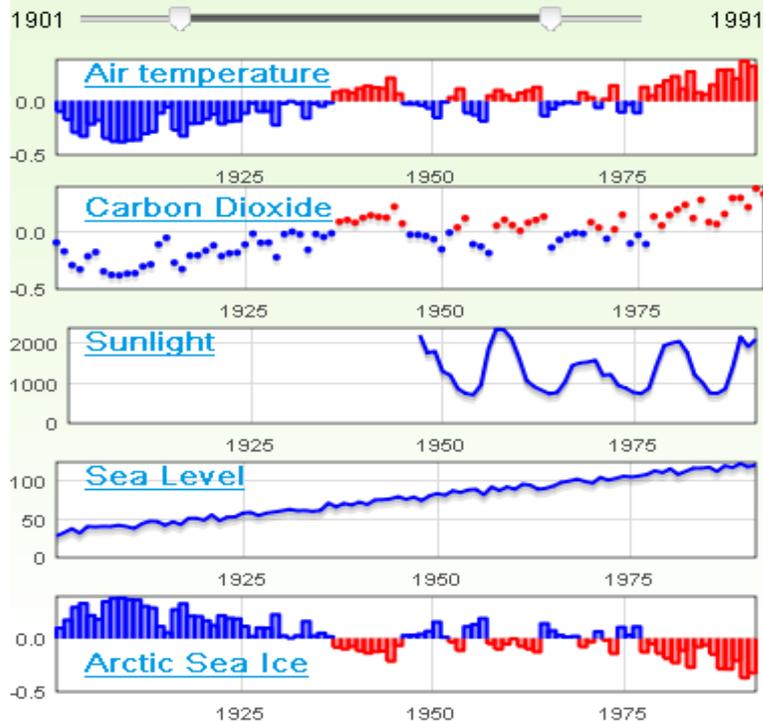
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We assess Earth's past and present climate, and forecast its future to help citizens make informed decisions in their lives and livelihoods

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CLIMATE OUTLOOKS & MONITORING





NOAA Climate Watch

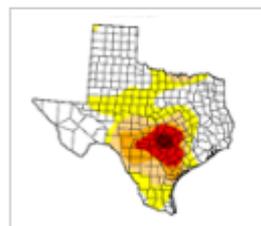
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[Shallow coastal flooding and sea level rise](#)

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[Historic Hurricane Tracking Tool](#)

Fusce vulputate lacus vehicula justo. Pellentesque pellentesque enim et neque. Fusce pharetra ante eu lacus. Suspendisse magna mauris, mollis ac, malesuada quis, euismod eget, augue. Praesent vitae nisi ut purus porttitor euismod. Vestibulum non ligula id purus tincidunt consequat.

Popular Data and Services

1. [Extreme Weather and Climate Events](#)
(Maps, tables, reports)
2. [U.S. Climate Normals, 1971-2000](#)
(Normals Data for ~8000 U.S. Locations)
3. [U.S. Storm Events Database](#)
(1950 - present, local storm and damage reports)
4. [Climate Maps of the United States](#)
(Over 700 maps of climate normals)
5. [Climate Monitoring](#)
(Maps and graphs depicting climate trends)
6. [NOAA Economics & Benefits](#)
(Cost/benefit valuations, data applications, links to data/products)
7. [6-10 Day Outlook](#)
8. [30 Day Outlook](#)
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 **Monthly Climatic Data for the World (DSI-3500)**

This product is available from the National Climatic Data Center (NCDC). It is available as digital data set (DSI-3500) and also as a publication named Monthly Climatic Data for the World (MCDW), both of which contain the same data. The geographic coverag...

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 **Global Surface Summary of the Day - GSOD**

Global Surface Summary of the Day is a product archived at the National Climatic Data Center (NCDC). It is produced by the National Climatic Data Center (NCDC) in Asheville, NC and is derived from The Integrated Surface Hourly (ISH) dataset, DSI-3505 (C005...

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 **Climate Atlas of the United States CD-ROM Versions 1.0 and 2.0**

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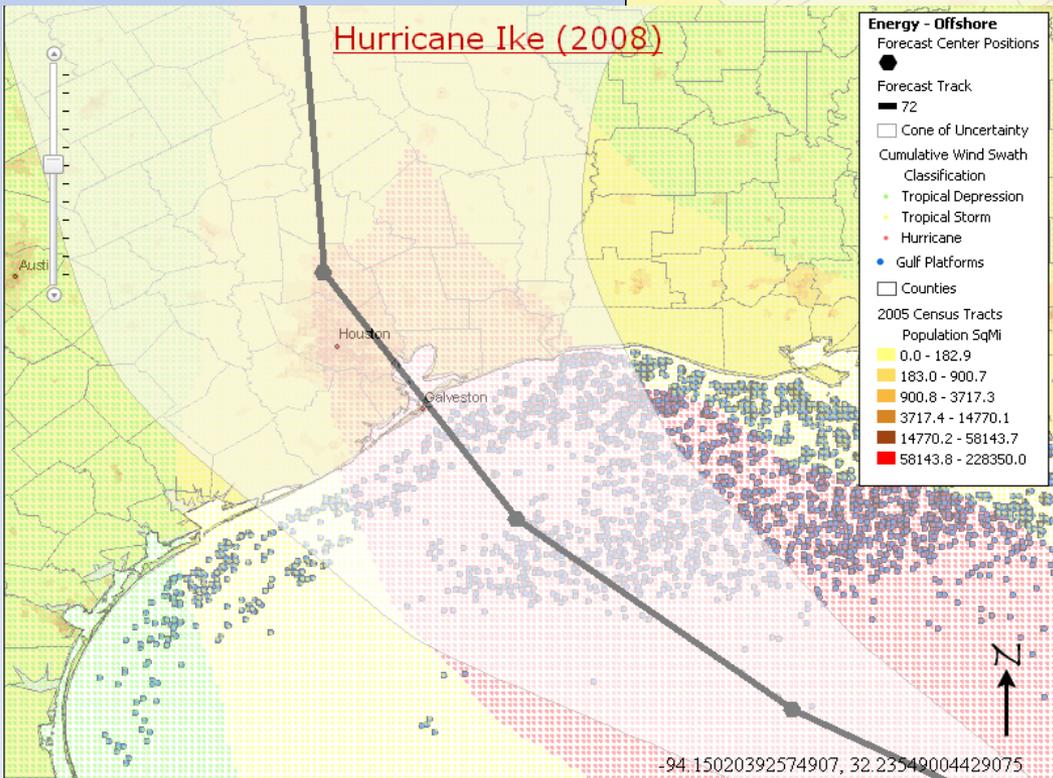
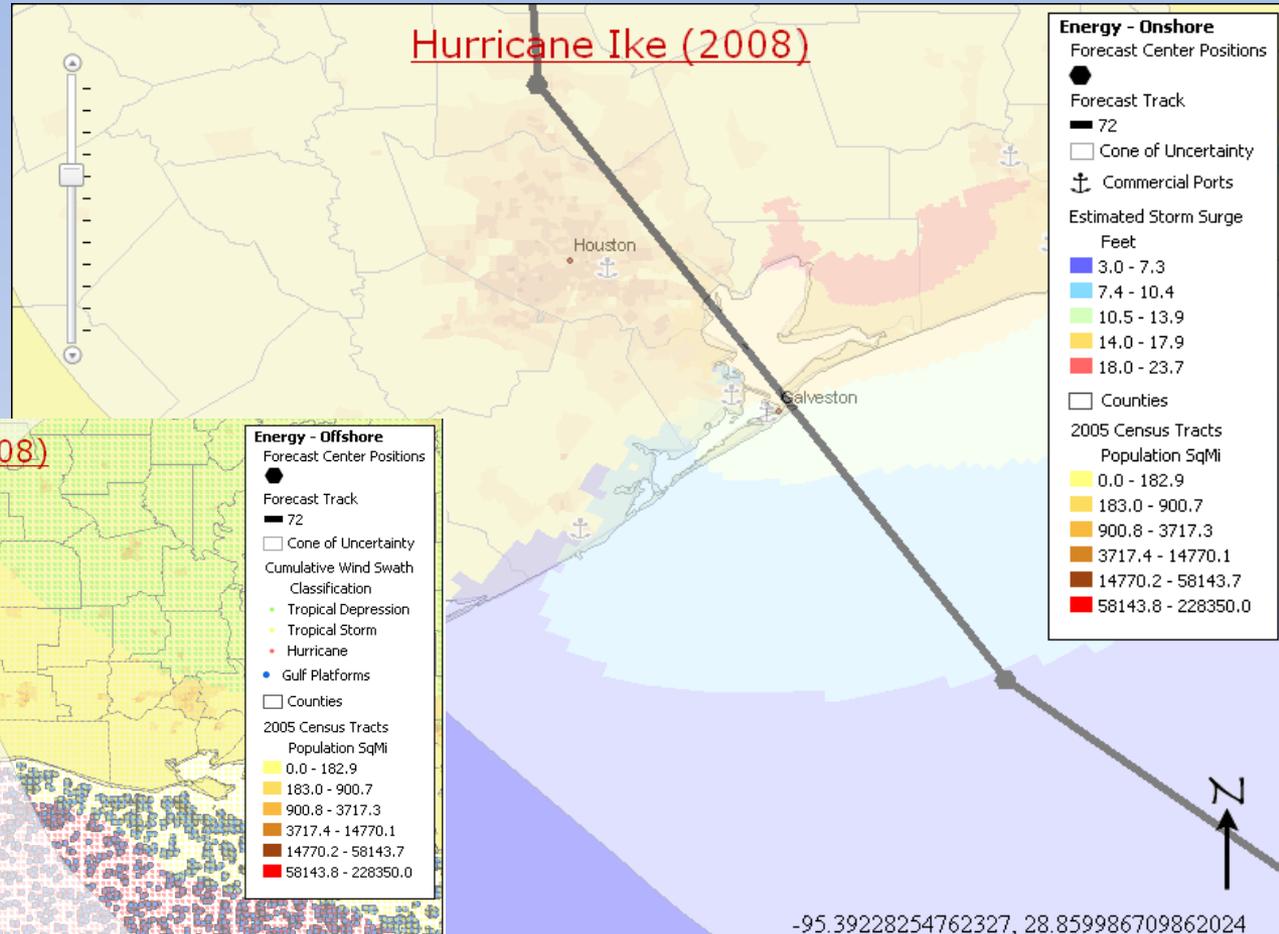
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 **Global Hourly Surface Data Summaries**

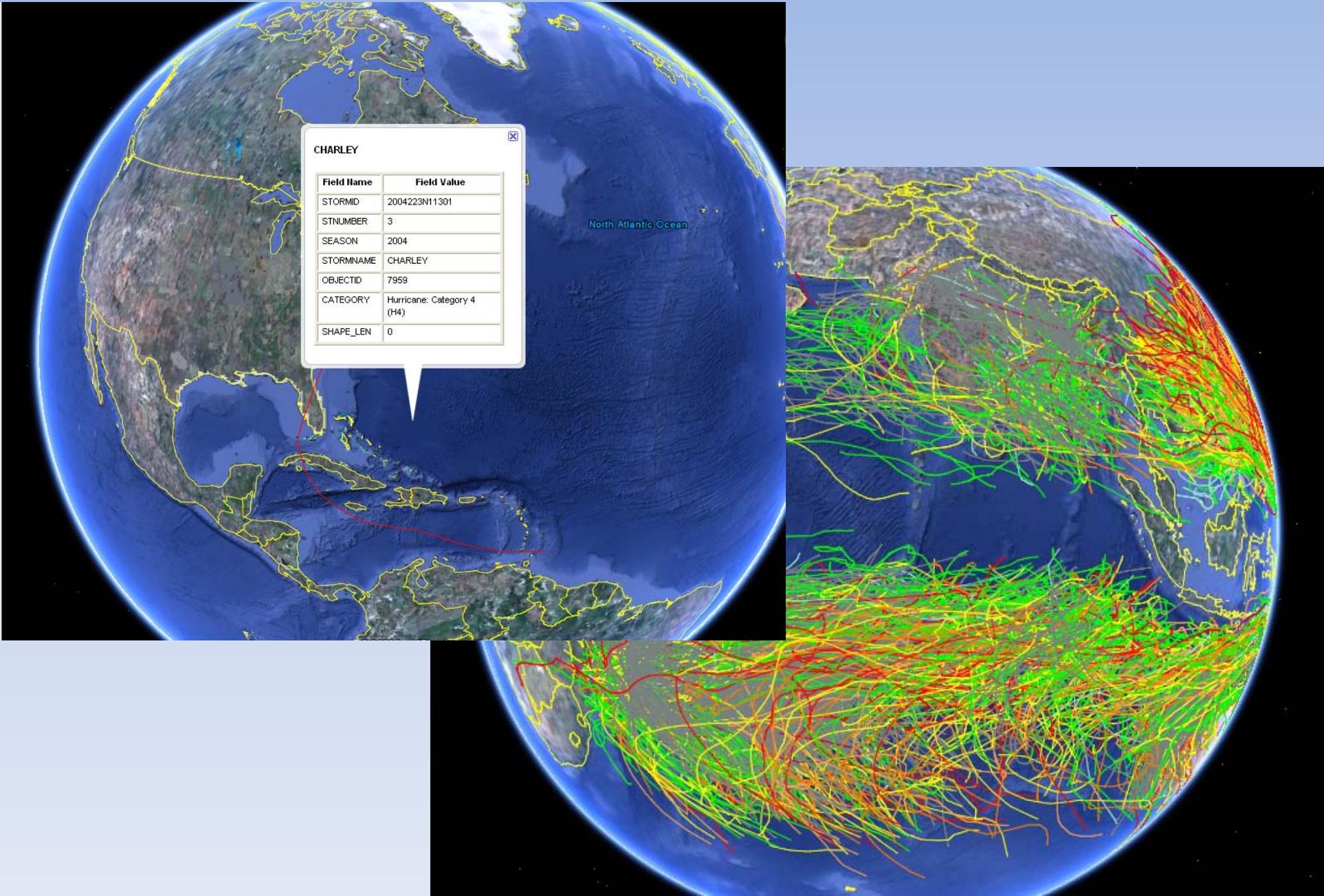
The Global Hourly Summaries are simple indicators of observational normals which include climatic data summarizations and frequency distributions. These typically are statistical analyses of station data over 5-, 10-, 20-, 30-year or longer time periods. ...

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Storm Impact

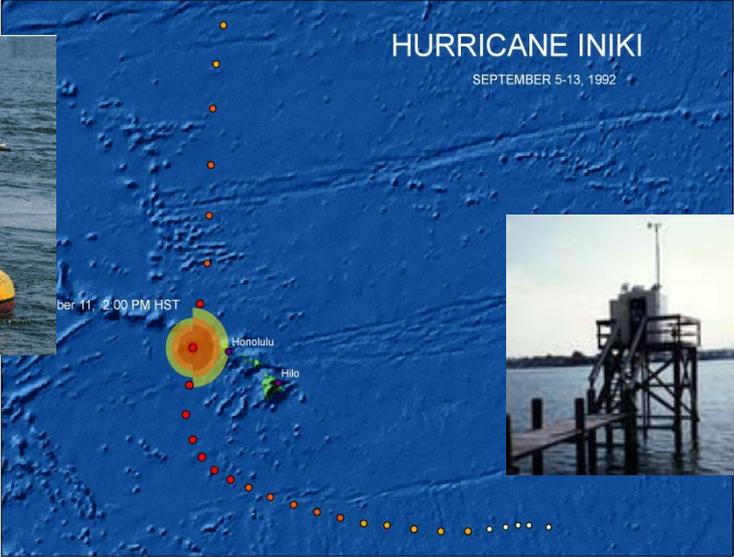
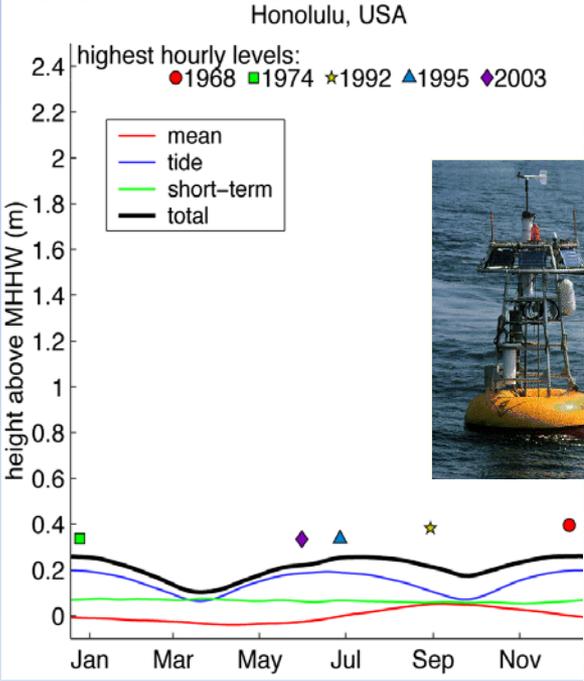
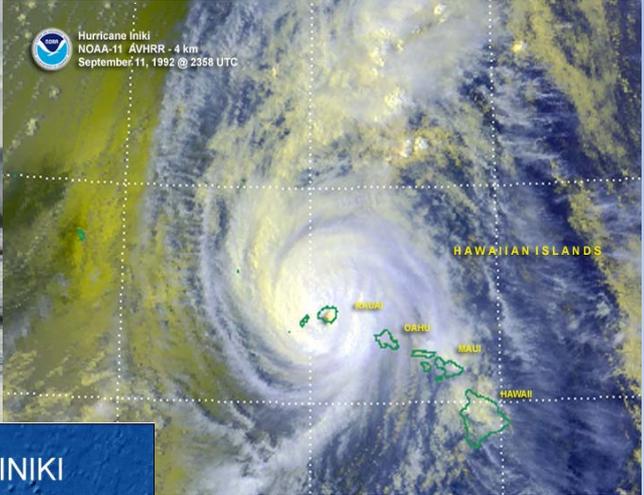


Hurricane Tracks



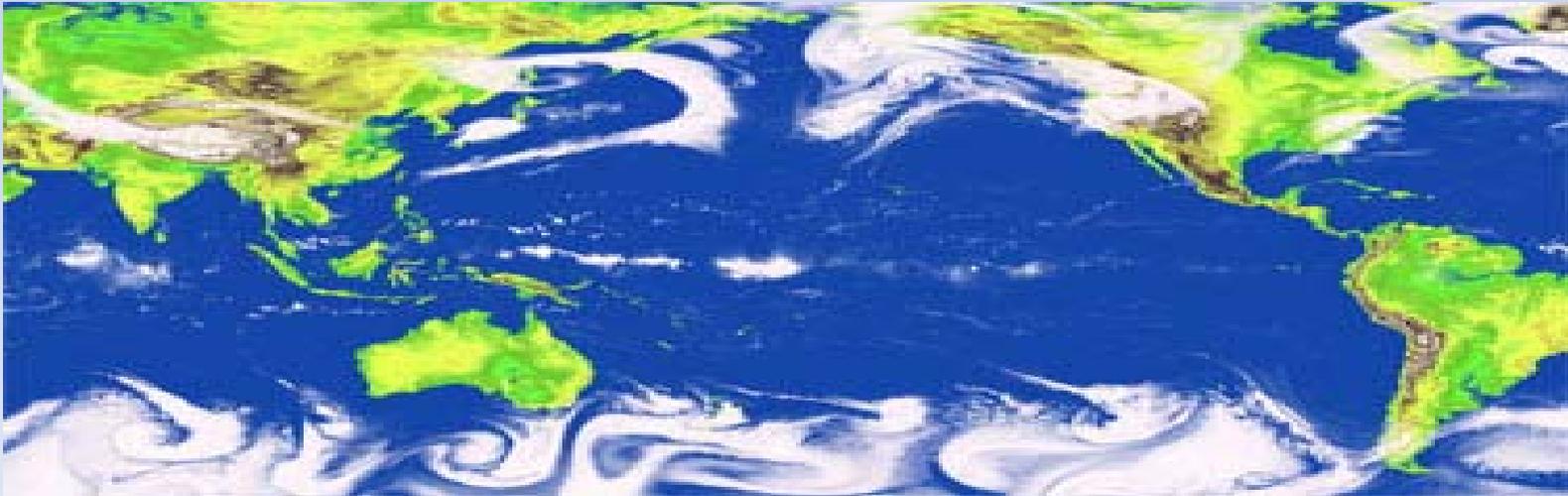
PRICIP

Pacific Region Integrated Climatology Information Products



Objectives

- ◆ Analyze patterns and trends of storm frequency and intensity - “storminess”- in historical records collected throughout the Pacific region;
- ◆ Integrate the results of these analyses; and
- ◆ Develop a suite of extremes climatology-related data and information products that can be used by emergency managers, mitigation planners, and government agencies, and decision-makers in other key sectors including water and natural resource management, agriculture and fisheries, transportation and communication, and recreation and tourism.



Derived Data Products

A suite of “Strong Winds”, “Heavy Rains”, and “High Seas” extremes-related products that are based on analyses of historical records collected throughout the Pacific region.

◆ Inter-annual Indicators

- ❖ Patterns – Intensity and Frequency
- ❖ Return Periods
- ❖ Trends – Intensity and Frequency

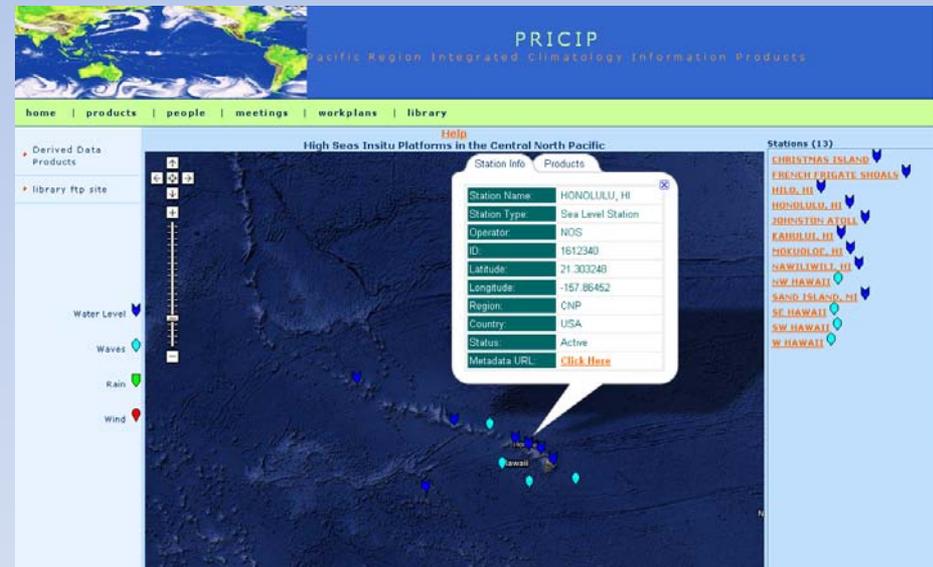
◆ Annual

- ❖ Patterns – Intensity and Frequency
- ❖ Trends

◆ Associations with Climate Indices

Preliminary results of these analyses can be viewed via a beta-version of a Google map-based query utility.

<http://www.pricip.org/ddp.php>



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