



Center for Operational Oceanographic Products and Services NOAA National Ocean Service

FY2006 Proposed Funding

	Presidential	House Mark	Senate Mark
Tide and Current Data			
Tide and Current Data Base	\$23,130	\$23,000	\$21,000
NWLON			\$4,500
PORTS®			\$3,000
Great Lakes NWLON			
Alaska Current & Tide Data			\$1,500
SUBTOTAL	\$23,130	\$23,000	\$30,000

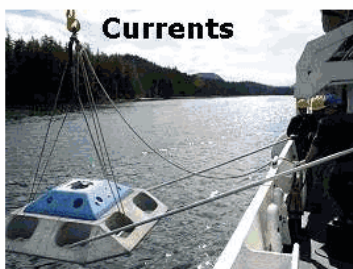
Protecting America's Coasts



Center for Operational Oceanographic Products and Services

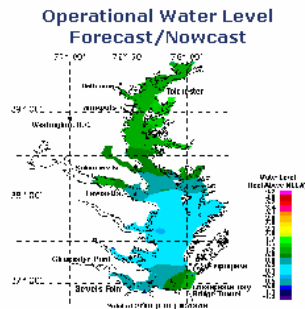
[Click here to go to the old CO-OPS website.](#)

NOAA Tides and Currents, managed by the Center for Operational Oceanographic Products and Services (CO-OPS), is the portal to the National Oceanic and Atmospheric Administration's vast collection of oceanographic and meteorological data (historical and real-time), predictions, and nowcasts and forecasts.



Currents

- Tides
- Water Levels
- Currents
- Predictions
- Meteorological Observations
- Bench Marks
- Datums
- Forecast/Nowcast
- Harmonic Constituents



CO-OPS provides the national infrastructure, science, and technical expertise to monitor, assess, and distribute tide, current, water level, and other coastal oceanographic products and services that support NOAA's mission of environmental stewardship and environmental assessment and prediction. CO-OPS provides operationally sound observations and monitoring capabilities coupled with operational Nowcast Forecast modeling.

New Zoomable Data Map



Check out the Tides and Currents new zoomable data retrieval map. Data may be retrieved using this map or via station lists from the "Products" drop down menu.

NOWCAST - Web Mapping Portal



The nowCAST Web mapping portal contains links to a variety of NOAA and non-NOAA Web sources of real-time coastal observations and NOAA forecasts.

New Website

- #1 NOS Website
- Release in FY05
- Improved access
- Current website still available

news

[2004-10-13]
New Current Meter installed in Delaware PORTS.

[2004-10-01]
New Tide Gage installed in the southern Chesapeake.

alerts

[2003-09-26]
Hurricane Jeanne also hits the Florida Coast!

[2004-09-14]
Hurricane Ivan hit the Florida Coast this morning.

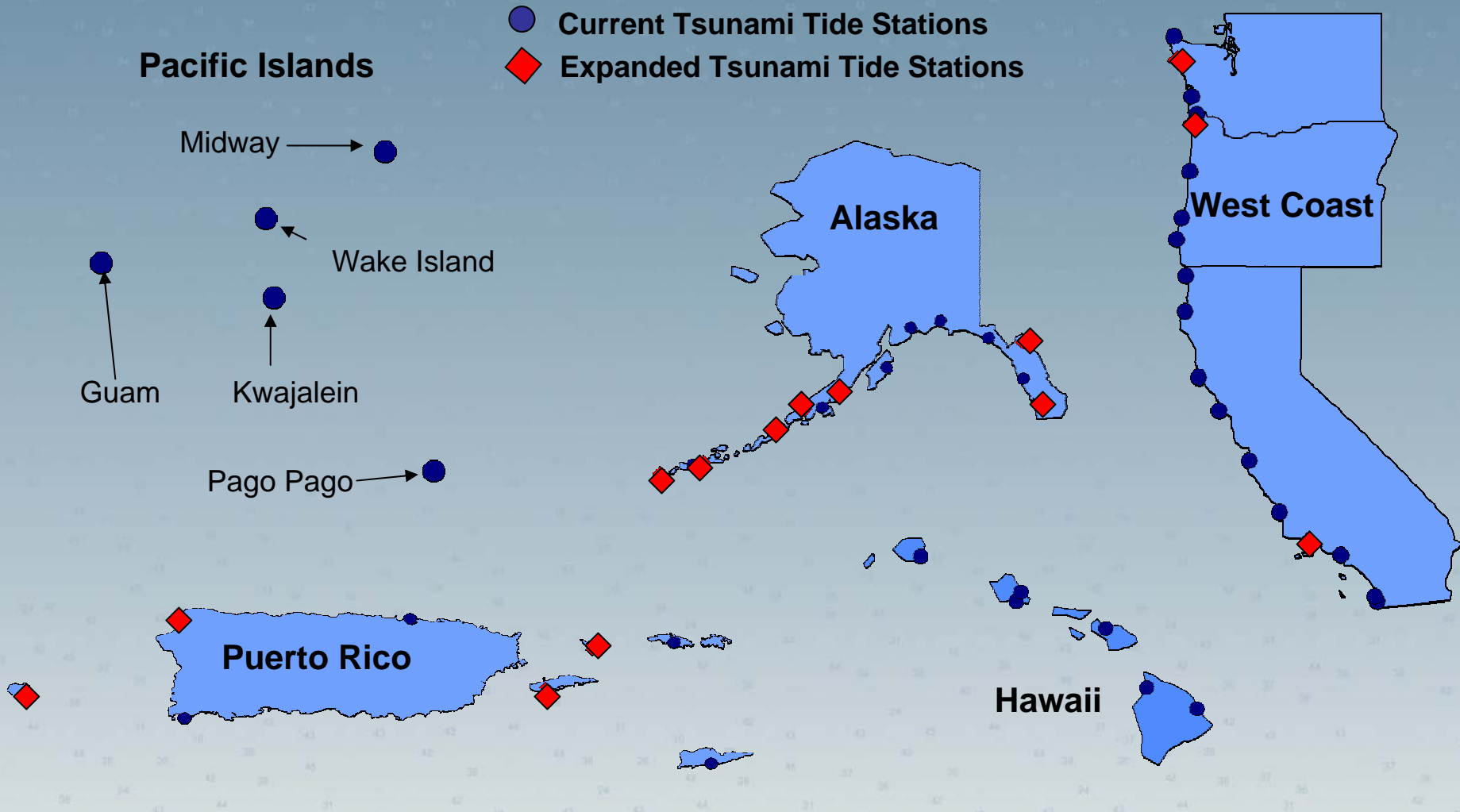
[Database Status](#)

[Website Status](#)

about us

[What is CO-OPS](#)
[Mission Statement](#)
[Organizational Chart](#)
[Contact Information](#)

National Water Level Observation Program



National Current Observation Program

2,821 Tidal Current Predictions Published Annually

- **34 Stations updated in FY05**
- **70 Stations planned for FY06**
 - **SE Alaska**
 - **Great Lakes**
 - **Hudson River**
 - **Prince William Sound**
 - **Penobscot Bay**
 - **East Coast – input welcomed**

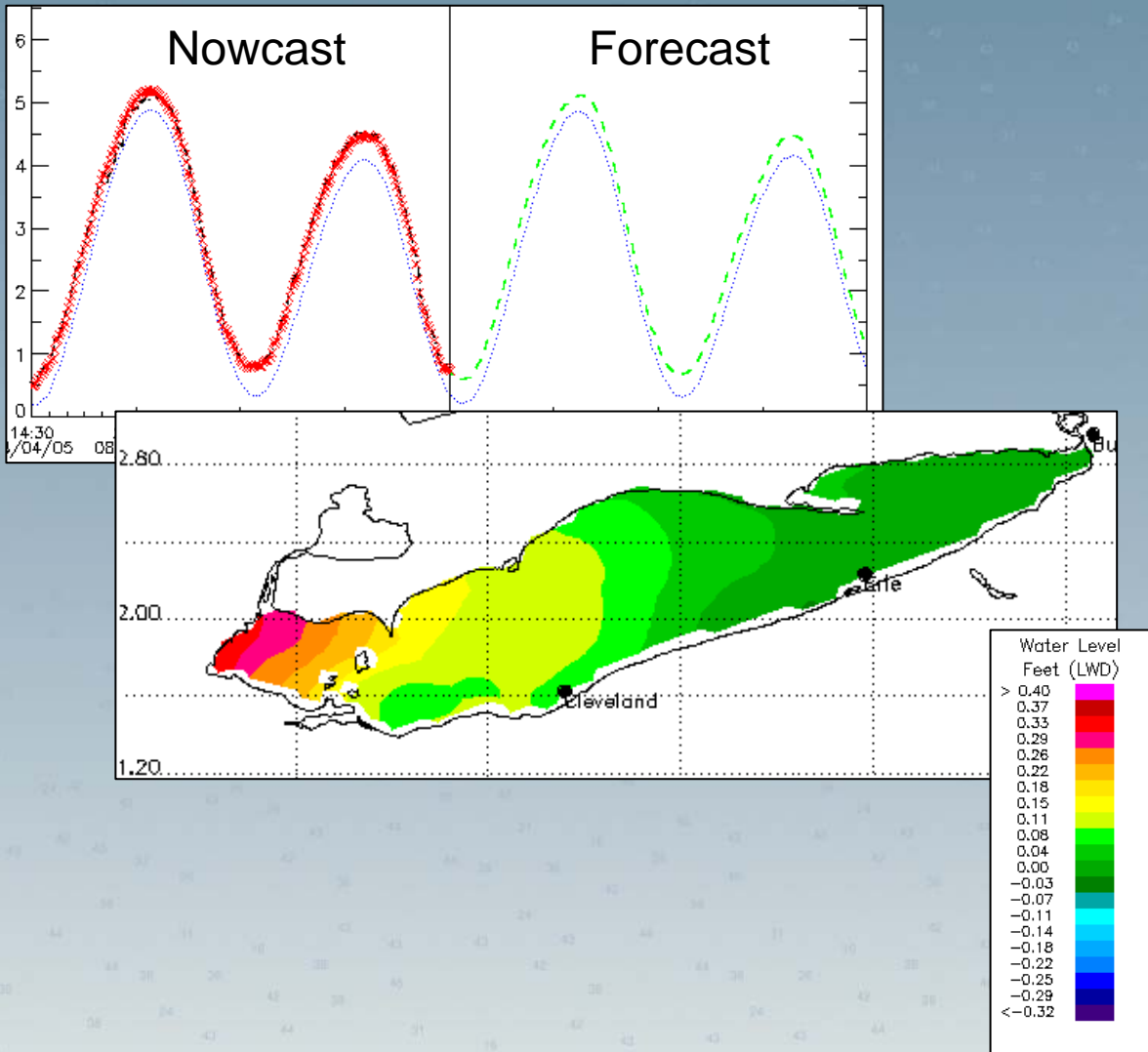
Charleston, South Carolina, 2003
Times and Heights of High and Low Waters

October			November			December			
Time	Height		Time	Height		Time	Height		
1 Su	0531 1207 1828	0.2 0.9 0.7	6 16	0905 1.2 3.7		1 0112 5.1 15.1	16 0010 4.5 13.7	1 0153 5.0 15.2	16 0038 4.6 14.0
2 Th	0017 0631 1313 1927	5.3 0.5 6.3 0.9							
3 F	0123 0737 1421 2037	5.2 0.7 6.2 1.0							
4 Sa	0231 0845 1529 2138	5.1 0.7 6.1 0.9							
5 Su	0336 0950 1623 2233	5.3 0.7 6.2 0.8							
6 M	0435 1048 1715 2323	5.4 0.6 6.2 0.6							
7 Tu	0527 1141 1801	5.7 0.5 6.2							
8 W	0009 0614 1229 1843	0.4 5.9 0.5 6.1							
9 Th	0050 0657 1314 1922	0.4 6.0 0.5 6.0							
10 F	0128 0736 1396 2000	0.3 6.1 0.6 5.8							
11 Sa	0205 0814 1438 2036	0.4 6.1 0.7 5.6							
12 Su	0239 0850 1514 2112	0.5 6.1 0.9 5.4							
13 M	0313 0925 1551 2148	0.7 6.0 1.1 5.1							
14 Tu	0347 1001 1630 2225	0.9 5.9 1.3 4.9							
15 W	0424 1040 1711 2306	1.1 5.7 1.5 4.7							

Time meridian 75°W
Heights are referred

Tide Tables 1995 HIGH AND LOW WATER PREDICTIONS
West Coast of North and South America
Including the Hawaiian Islands
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service

Operational Forecast Systems

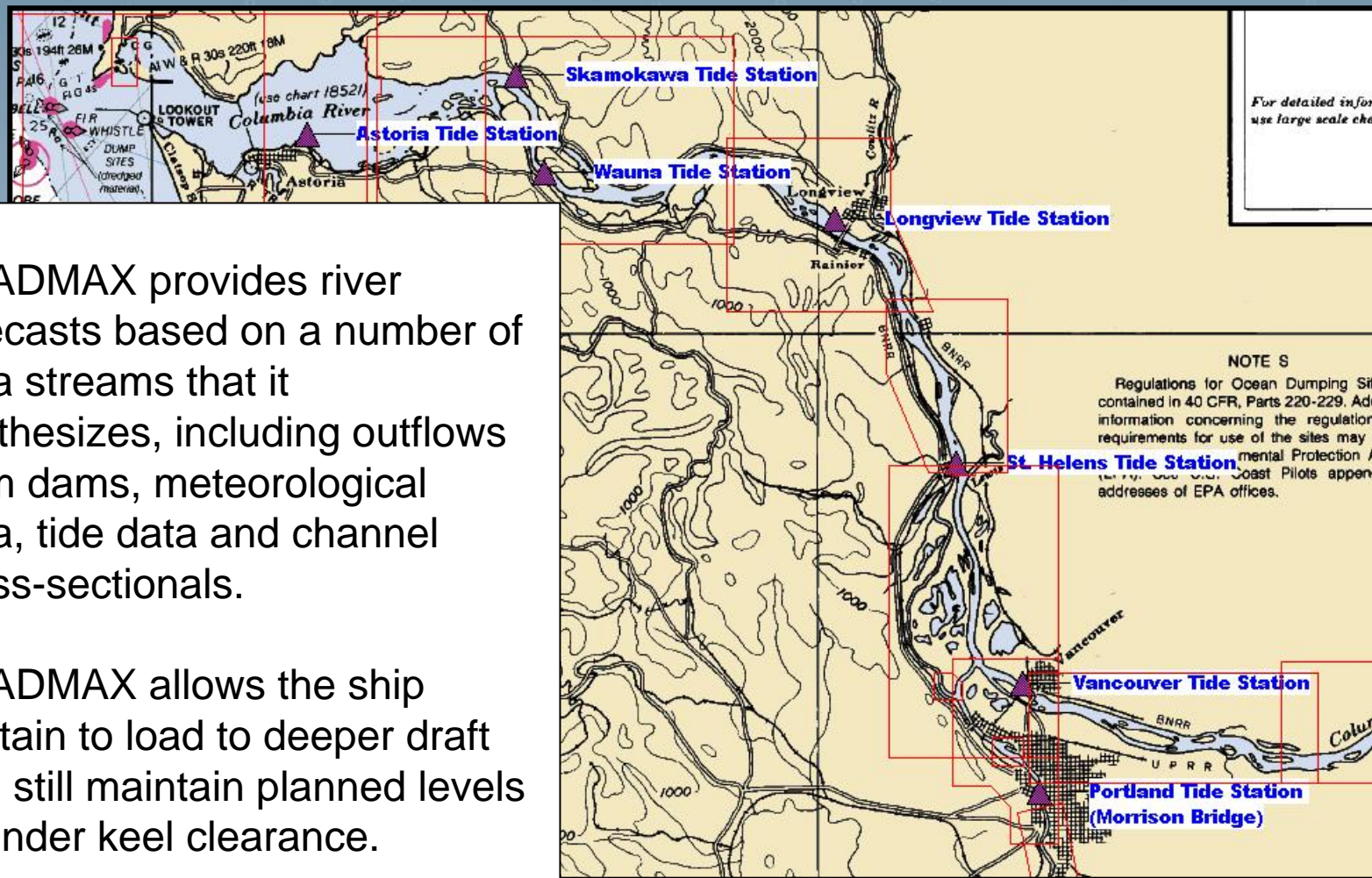


- **3 new models**
 - **Lake Erie**
 - **Lake Michigan**
 - **St. Johns River**
- **Planned:**
 - 3 new models**
 - **Lake Superior**
 - **Lake Huron**
 - **Lake Ontario**

Physical Oceanographic Real-Time Systems (PORTS[®])



Physical Oceanographic Real-Time Systems (PORTS®)



LOADMAX provides river forecasts based on a number of data streams that it synthesizes, including outflows from dams, meteorological data, tide data and channel cross-sectionals.

LOADMAX allows the ship captain to load to deeper draft and still maintain planned levels of under keel clearance.

Physical Oceanographic Real-Time Systems (PORTS[®])

Estimating Economic Benefits from NOAA PORTS[®] Information: A Case Study of Tampa Bay

By Hauke Kite-Powell, Woods Hole Oceanographic Institute
July 2005



Tampa Bay
Harbor Safety & Security Committee

Sal Litrico
Chairperson

Physical Oceanographic Real-Time Systems (PORTS®)

A= 8519483 BERGEN POINT WEST REACH, KILL VAN KULL (A1 - Acoustic WL)
B= 8519461 BAYONNE BRIDGE (Q1 - AIR GAP)

