Introduction

The National Oceanic and Atmospheric Administration's (NOAA's) National Ocean Service (NOS) Center for Operational Oceanographic Products and Services (CO-OPS) is deeply committed to serving the needs of all of its customers. For over 200 years CO-OPS and its predecessors have gathered data along our nation's coasts and turned those data into meaningful information to protect life, property, and the environment. CO-OPS wants to determine how satisfied users are with their products and services, and would appreciate your feedback. The purpose of this survey, conducted in partnership with the federal government as part of the American Customer Satisfaction Index, is to help CO-OPS improve its water level and tidal current products and services for you.

Your answers are voluntary, but your opinions are very important for this research. Your responses will be held completely confidential, and you will never be identified by name. CFI Group, a third party research and consulting firm, is administering this survey via a secure server. The time required to complete this survey will be dependent on how certain questions are answered, but it will likely take approximately 15 minutes, and is authorized by Office of Management and Budget Control No. 1090-0007.

Please click on the "Next" button below to begin the survey.

SURVEY PART I

Information About You

Scaled questions to include "don't know/not applicable" response options.

The following questions are intended to help us better understand your responses by allowing us to classify responses by geographic area and by type of users. As with the entire survey, your responses are completely voluntary.

- 1) What is your postal zip code?
- 2) Do you use CO-OPS for: (check all that apply)
 - a) Marine and coastal products and services
 - b) Great Lakes products and services
 - c) Other: (specify)



- 3) Which of the following sectors do you represent? (select one)
 - **a.** Commercial Shipping
 - **b.** Professional Pilot
 - c. Recreational Boating
 - **d.** Private Consultant/Engineer
 - e. Academia
 - **f.** K-12 Education
 - **g.** Federal Government
 - **h.** Military
 - i. State and Local Government
 - **j.** Utilities/Water Management
 - **k.** Other (please specify)
- **4)** What is the nature of your primary activity?
 - a. Freight transport
 - b. Professional Pilot
 - c. Passenger transport
 - d. Commercial fishing
 - e. Law enforcement
 - f. National defense
 - g. Search and rescue
 - h. Dredging
 - i. Recreational boating/fishing
 - j. Tourism
 - k. Research
 - l. Coastal resource management
 - m. Coastal resident
 - n. Other (please specify)
- **5)** Where is your primary geographic area of interest/operating area?
 - **a.** East Coast
 - **b.** Gulf Coast
 - c. West Coast
 - d. Alaska
 - e. Pacific
 - **f.** Caribbean
 - **g.** Great Lakes
 - **h.** Other (please specify)



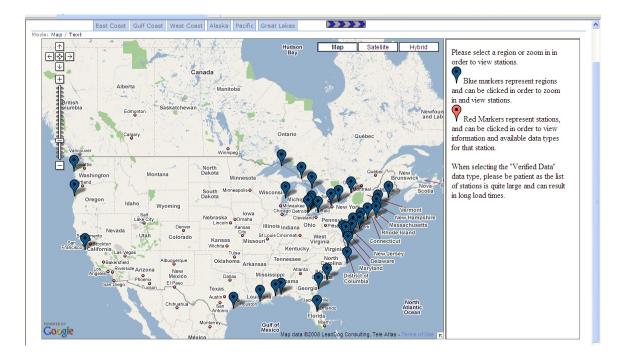
- 6) By what means do you receive CO-OPS information? (Select all that apply)
 - **a.** PORTS® Web pages
 - **b.** CO-OPS Web pages other than PORTS®
 - c. Non-CO-OPS Web pages
 - **d.** Automated phone system
 - **e.** Personal communication with CO-OPS via phone or email
 - **f.** Printed media (e.g. Tide and Tidal Current Tables)
 - **g.** Private Vendor
 - **h.** Other (please specify)
- 7) Using a 1 to 10 point scale where 1 means Not at all Useful and 10 means Very Useful, please rate the usefulness of receiving **water level information** in the following formats.
 - a. Text
 - b. Graphics
 - c. A combination of text and graphics
 - d. Digital (numerical information that can be downloaded)
 - e. Phone
 - f. published books and reports
- 8) Using a 10-point scale where 1 means Not at all Useful and 10 means Very Useful please rate the usefulness of having access to coastal information and data in the following time frames:
 - a) Past (older than 24 hours)
 - b) Real-time (newer than 24 hours to present)
 - c) Future (present to 5 days into the future)

Satisfaction with CO-OPS Products and Services

- 9) Have you ever had personal communication with CO-OPS staff to discuss CO-OPS products?
 - a) Yes
 - b) No (skip to Q13
- 10) On a 10-point scale where 1 means Poor and 10 means Excellent please rate the value of your personal communication with CO-OPS staff to discuss CO-OPS products.
- 11) During a typical year, how many times do you have personal communication with CO-OPS staff to discuss CO-OPS products?
 - a. 1-3 times a year
 - b. 4-6 times a year
 - c. 7-12 times a year



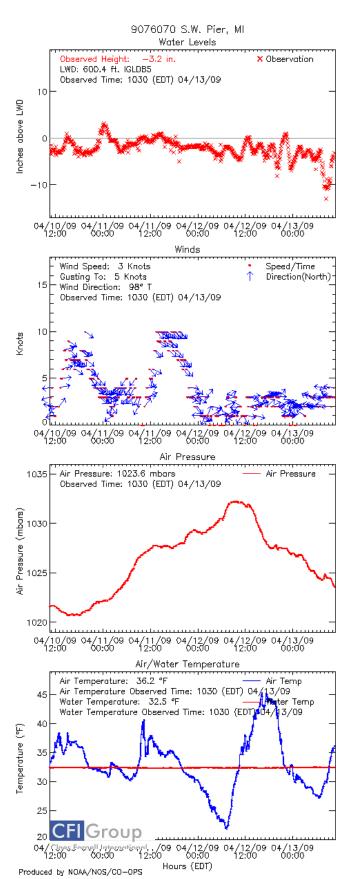
- d. More than 12 times a year
- 12) Please select the purpose of your personal communications with CO-OPS staff. (select all that apply)
 - a. Explanation or interpretation of available products
 - b. Synthesize available forecast products and information for your specific needs
 - c. Get more information than available in existing products
 - d. Report a data problem
- 13) Using a 10-point scale where 1 means "very poor" and 10 means "excellent," please rate the information that you receive from CO-OPS in terms of:
 - a) accuracy (rate on scale of 1 to 10)
 - b) reliability (rate on a scale of 1 to 10)



- 14) Above is a map that shows where CO-OPS data are available throughout the Continental US. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the map on the following:
 - a. Visual appeal
 - b. Ease of understanding
 - c. Ease of use
 - d. Allows me to find the information that I need



Questions for Great Lakes users



G1a) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Great Lakes Online** products.

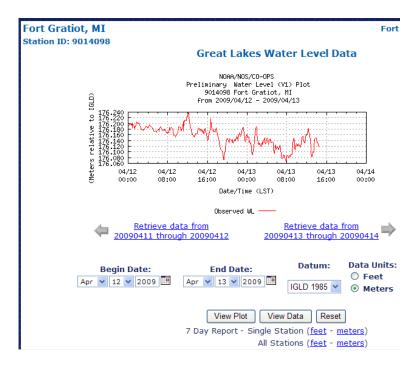
- At least once per day
 - Once per week
 - Once per month
 - Seasonally
 - Do not use
 - Not familiar with this information

G2a) **If Usage Indicated in G1a**) Referring specifically to CO-OPS **Great Lakes Online** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

G3a) **If Usage Indicated in G1a**) The graph above shows near real-time water levels and meteorological data for the station at SW Pier, MI. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time water level and meteorological data



G1b) During the last 12 months, please indicate the frequency with which you have used CO-OPS near **Real-time Water Level** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

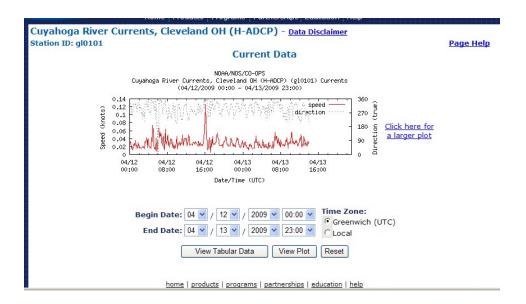
G2b) **If Usage Indicated in G1b**) Referring specifically to CO-OPS near **Real-time Water Level** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

G3b) **If Usage Indicated in G1b**) The graph above shows preliminary near real-time water levels for Fort Gratiot, MI. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time water levels





G1c) During the last 12 months, please indicate the frequency with which you have used CO-OPS near **Real-time Currents** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

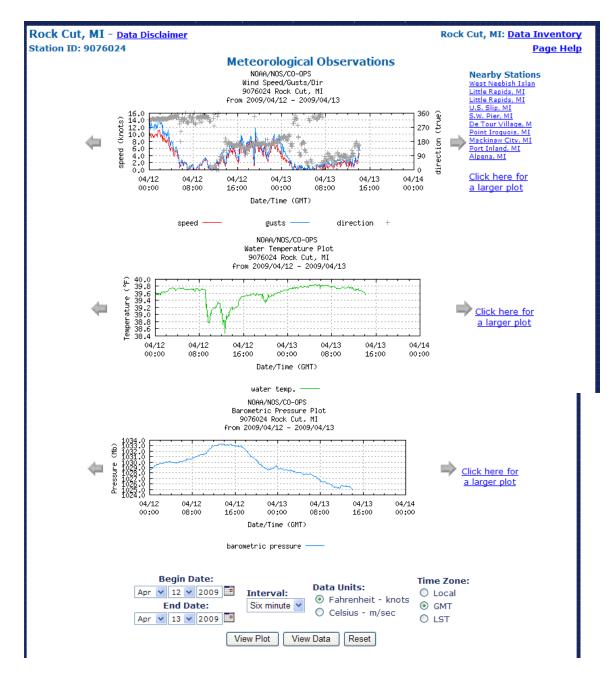
G2c) **If Usage Indicated in G1c**) Referring specifically to CO-OPS near **Real-time Currents** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

G3c) **If Usage Indicated in G1c**) The graph above shows preliminary near real-time currents for the Cuyahoga River, Cleveland OH. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time currents





G1d) During the last 12 months, please indicate the frequency with which you have used CO-OPS near **Real-time Meteorological (includes wind, air/water temperature, barometric observations)** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use



• Not familiar with this information

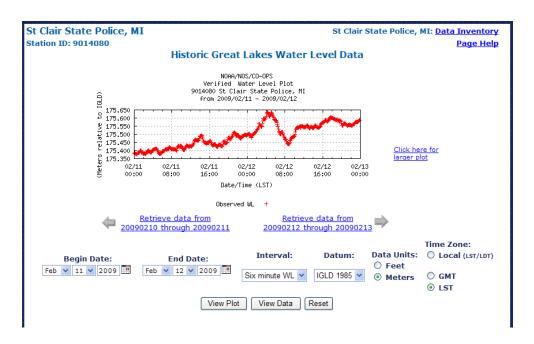
G2d) **If Usage Indicated in G1d**) Referring specifically to CO-OPS near **Real-time wind, air/water temperature, barometric observation** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

G3d) **If Usage Indicated in G1d**) The graph above shows preliminary near real-time meteorological data for Rock Cut, MI. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time meteorological data





G1e) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Historical Water Level** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

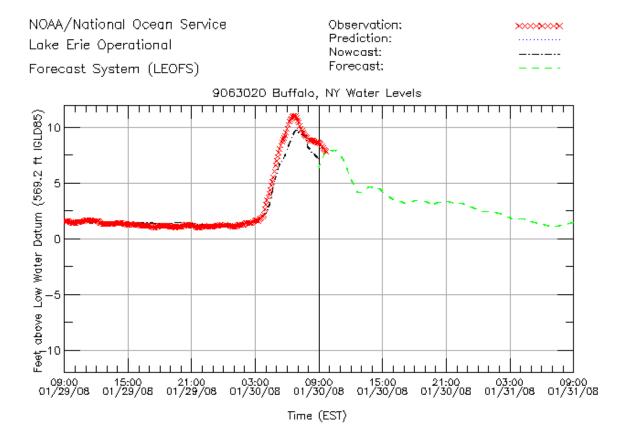
G2e) **If Usage Indicated in G1e**) Referring specifically to CO-OPS **Historical Water Level** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

G3e) **If Usage Indicated in G1e**) The graph above shows historical water levels for St. Clair, MI. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about historical water levels





G1f) During the last 12 months, please indicate the frequency with which you have used these CO-OPS forecast products shown above provided by CO-OPS.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

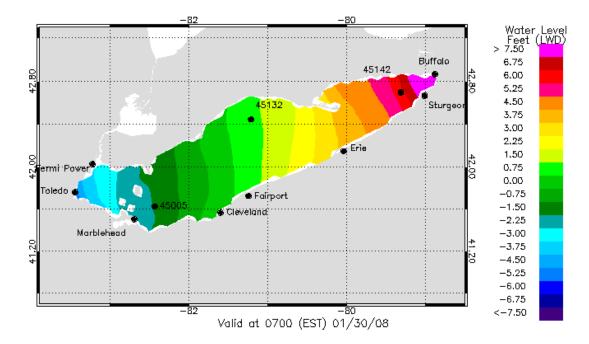
G2f) **If Usage Indicated in G1f**) Referring specifically to these CO-OPS forecast products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs



G3f) **If Usage Indicated in G1f**) The graph above shows a CO-OPS forecast water level product for Buffalo, NY in Lake Erie. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

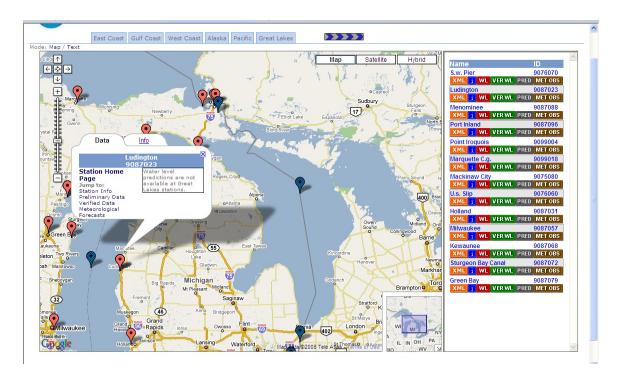
- Visual appeal
- Ease of understanding
- Tells me what I need to know about forecast water levels



G4f) The graph above shows a CO-OPS forecast water level product for Lake Erie. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about forecast water levels

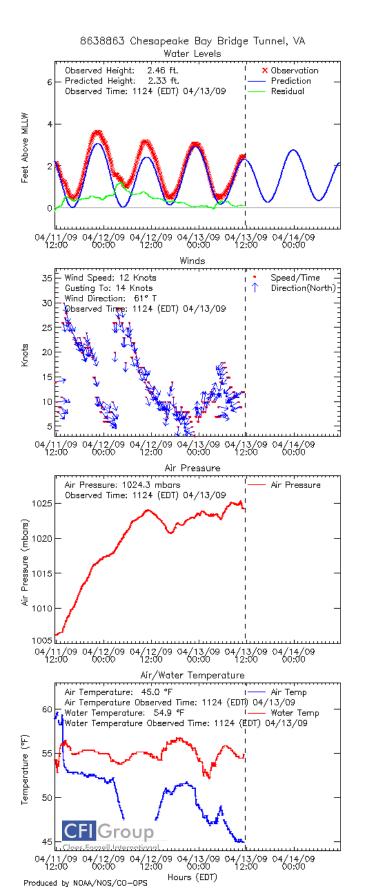




- G5) Above is a map showing what information is available for some local stations in the Great Lakes regions. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the map on the following:
 - Visual appeal
 - Ease of understanding
 - Ease of use
 - Allows me to locate the information that I need



Questions for Marine and Coastal Product Users



M1a) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Tides Online** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

M2a) **If Usage Indicated in M1a**) Referring specifically to CO-OPS **Tides Online** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

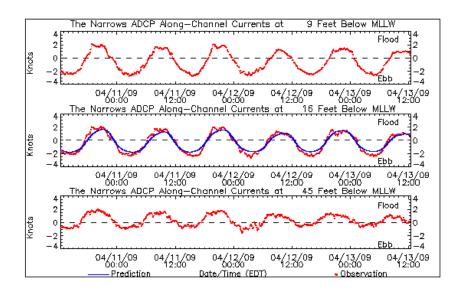
M3a) If Usage Indicated in M1a) The graph above shows near real-time water levels and meteorological data at the Chesapeake Bay Bridge Tunnel, VA. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time water level and meteorological data

The Narrows
Station ID: n03020

Physical Oceanographic Real-Time System The Narrows 3 Days Currents

Note: Click any plot to view data



M1b) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Physical Oceanographic Real-Time System (PORTS®)- Currents** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

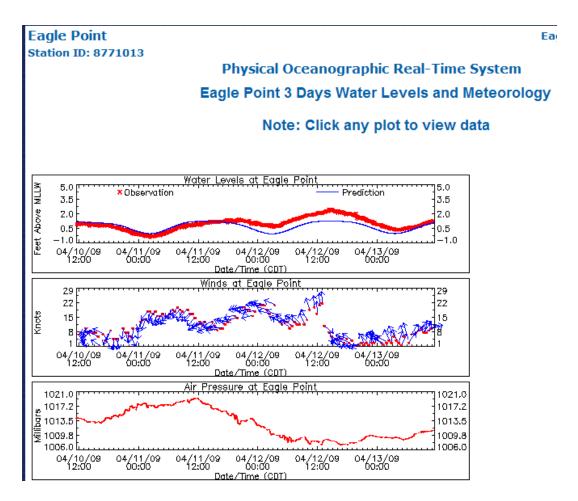
M2b) **If Usage Indicated in M1b**) Referring specifically to CO-OPS **PORTS**® **Currents** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3b) **If Usage Indicated in M1b**) The graph above shows near real-time currents at the Narrows in New York Harbor. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:



- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time currents



M1c) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Physical Oceanographic Real-Time System (PORTS®)** – **Water Level and Meteorological** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

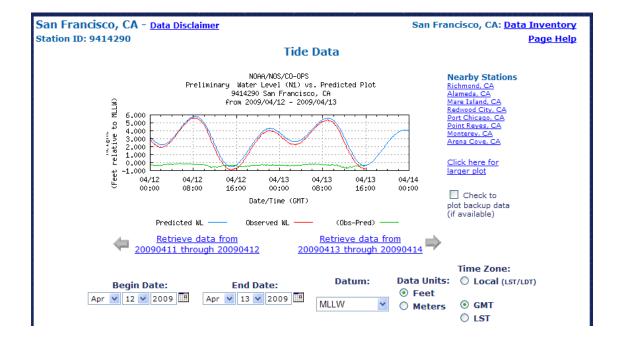
M2c) **If Usage Indicated in M1c**) Referring specifically to this CO-OPS **PORTS**®) product, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:



- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3c) **If Usage Indicated in M1c**) The graph above shows water level and meteorological observations for Eagle Point, TX. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time tides and winds and pressure





M1d) During the last 12 months, please indicate the frequency with which you have used CO-OPS near **Real-time Water Level** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

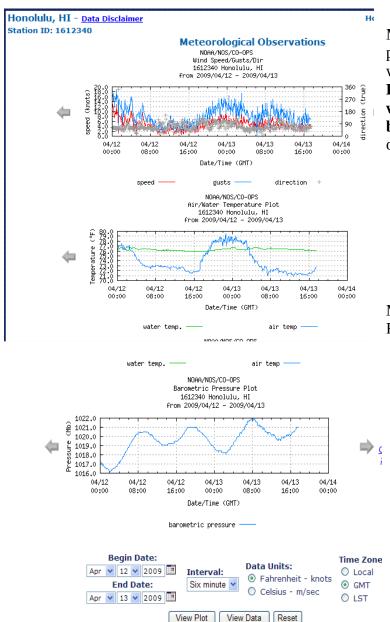
M2d) **If Usage Indicated in M1d**) Referring specifically to CO-OPS near **Real-time Water Level** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3d) **If Usage Indicated in M1d**) The graph above shows preliminary near real-time water levels for San Francisco, CA. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time water levels





M1e) During the last 12 months, please indicate the frequency with which you have used CO-OPS near **Real-time Meteorological (including wind, air/water temperature, barometric observations)** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

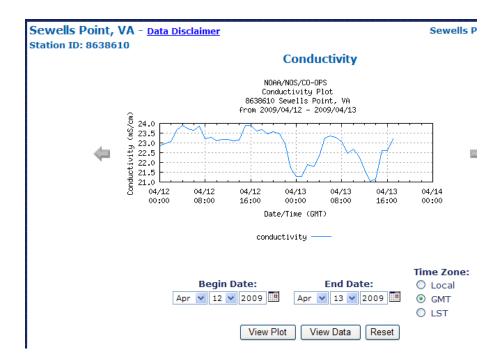
M2e) If Usage Indicated in M1e)
Referring specifically to CO-OPS near
Real-time wind, air/water
temperature, barometric
observations products, on a 10-point
scale, where 1 means Poor and 10
means Excellent, please rate the
quality of the information on the
following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3e) **If Usage Indicated in M1e**) The graph above shows preliminary near real-time meteorological data for Honolulu, HI. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about near real-time meteorology





M1f) During the last 12 months, please indicate the frequency with which you have used CO-OPS near **Real-time Water Conductivity** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

M2f) **If Usage Indicated in M1f**) Referring specifically to CO-OPS near **Real-time Water Conductivity** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3f) **If Usage Indicated in M1f**) The graph above shows preliminary near real-time water conductivity data for Sewells Point, VA. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding



• Tells me what I need to know about near real-time water conductivity information



Januar	y -	Sandy	Н	ook															
Date	Day	Time		Heig	ht	Time		Heig	ht	Time		Heig	ht	Time		Heigh	ht	Time	He
1/01/2009	Thu	04:21AM	LST	0.5	L	10:28AM	LST	4.5	H	04:52PM	LST	0.1	L	11:04PM	LST	4.0	H		
1/02/2009	Fri	05:01AM	LST	0.6	L	11:12AM	LST	4.3	H	05:28PM	LST	0.1	L	11:48PM	LST	4.1	H		
1/03/2009	Sat	05:51AM	LST	0.7	L	12:01PM	LST	4.2	H	06:12PM	LST	0.2	L						
1/04/2009	Sun	12:37AM	LST	4.3	H	07:01AM	LST	0.8	L	12:55PM	LST	4.0	H	07:10PM	LST	0.2	L		
1/05/2009	Mon	01:29AM	LST	4.5	H	08:20AM	LST	0.6	L	01:54PM	LST	3.9	H	08:18PM	LST	0.2	L		
L/06/2009	Tue	02:28AM	LST	4.8	H	09:29AM	LST	0.4	L	03:01PM	LST	3.9	H	09:24PM	LST	0.0	L		
L/07/2009	Wed	03:33AM	LST	5.0	H	10:31AM	LST	0.0	L	04:10PM	LST	4.0	H	10:25PM	LST	-0.2	L		
/08/2009	Thu	04:39AM	LST	5.3	H	11:28AM	LST	-0.3	L	05:16PM	LST	4.3	H	11:24PM	LST	-0.5	L		
/09/2009	Fri	05:40AM	LST	5.6	H	12:24PM	LST	-0.6	L	06:15PM	LST	4.6	H						
L/10/2009	Sat	12:22AM	LST	-0.7	L	06:36AM	LST	5.9	H	01:19PM	LST	-0.9	L	07:10PM	LST	4.8	H		
/11/2009	Sun	01:18AM	LST	-0.9	L	07:29AM	LST	6.0	H	02:10PM	LST	-1.1	L	08:02PM	LST	5.0	H		
/12/2009	Mon	02:12AM	LST	-1.0	L	08:20AM	LST	6.0	H	02:59PM	LST	-1.2	L	08:55PM	LST	5.1	H		
1/13/2009	Tue	03:04AM	LST	-0.9	L	09:11AM	LST	5.8	H	03:45PM	LST	-1.1	L	09:48PM	LST	5.1	H		
1/14/2009	Wed	03:54AM	LST	-0.7	L	10:02AM	LST	5.4	H	04:30PM	LST	-0.9	L	10:41PM	LST	5.0	H		
1/15/2009	Thu	04:44AM	LST	-0.4	L	10:54AM	LST	5.0	H	05:15PM	LST	-0.6	L	11:34PM	LST	4.9	H		
1/16/2009	Fri	05:36AM	LST	0.0	L	11:45AM	LST	4.6	H	06:02PM	LST	-0.2	L						
1/17/2009	Sat	12:24AM	LST	4.8	H	06:33AM	LST	0.3	L	12:36PM	LST	4.2	H	06:53PM	LST	0.1	L		
1/18/2009	Sun	01:14AM	LST	4.6	H	07:37AM	LST	0.6	L	01:27PM	LST	3.9	H	07:49PM	LST	0.4	L		
1/19/2009	Mon	02:04AM	LST	4.5	H	08:42AM	LST	0.7	L	02:21PM	LST	3.6	H	08:47PM	LST	0.5	L		
1/20/2009	Tue	02:57AM	LST	4.4	H	09:40AM	LST	0.6	L	03:19PM	LST	3.5	H	09:41PM	LST	0.6	L		
1/21/2009	Wed	03:53AM	LST	4.4	H	10:32AM	LST	0.5	L	04:20PM	LST	3.5	H	10:31PM	LST	0.5	L		
1/22/2009	Thu	04:49AM	LST	4.4	H	11:20AM	LST	0.3	L	05:16PM	LST	3.6	H	11:19PM	LST	0.4	L		
1/23/2009	Fri	05:39AM	LST	4.6	H	12:05PM	LST	0.2	L	06:05PM	LST	3.8	H						
1/24/2009	Sat	12:04AM	LST	0.3	L	06:23AM	LST	4.8	H	12:48PM	LST	0.0	L	06:48PM	LST	4.0	H		
1/25/2009	Sun	12:49AM	LST	0.1	L	07:03AM	LST	4.9	H	01:30PM	LST	-0.1	L	07:27PM	LST	4.1	H		
1/26/2009	Mon	01:32AM	LST	0.0	L	07:40AM	LST	5.0	H	02:08PM	LST	-0.2	L	08:03PM	LST	4.2	H		
1/27/2009	Tue	02:12AM	LST	0.0	L	08:14AM	LST	4.9	H	02:44PM	LST	-0.3	L	08:38PM	LST	4.3	H		
L/28/2009	Wed	02:50AM	LST	0.0	L	08:48AM	LST	4.9	H	03:18PM	LST	-0.3	L	09:12PM	LST	4.3	H		
1/29/2009	Thu	03:27AM	LST	0.0	L	09:23AM	LST	4.7	H	03:49PM	LST	-0.3	L	09:47PM	LST	4.4	Η		
1/30/2009	Fri	04:04AM	LST	0.1	L	10:01AM	LST	4.6	H	04:21PM	LST	-0.2	L	10:27PM	LST	4.5	Η		
1/31/2009	Sat	04:43AM	LST	0.2	L	10:45AM	LST	4.4	H	04:54PM	LST	-0.1	L	11:12PM	LST	4.6	H		

M1g) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Predicted Water Levels** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

M2g) **If Usage Indicated in M1g**) The above table lists to CO-OPS **Tidal Predictions** for Sandy Hook, NJ. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Organization of the information
- Ease of understanding
- Tells me what I need to know about ides



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Columbia Bay East Entrance
Predicted Tidal Current January, 2009
Flood Direction, 297 True. Ebb (-)Direction, 122 True.
NOAA, National Ocean Service
               Slack Maximum Slack Maximum Slack Maximum Slack Maximum Slack Maximum Water Current Water Current Water Current
 \text{Day } \begin{matrix} \text{Time} & \text{Time} & \text{Veloc} & \text{Time} & \text{Time} & \text{Veloc} & \text{Time} & \text{
        1 0549 0818 -0.5 1143 1415 +0.6 1802 2035 -0.5 2358
                             0238 +0.6 0630 0859 -0.5 1226 1501 +0.6 1848 2119 -0.5
       3 0042 0325 +0.6 0716 0945 -0.4 1317 1551 +0.5 1941 2209 -0.4
       4 0135 0417 +0.5 0810 1040 -0.4 1418 1648 +0.5 2044 2309 -0.4
       5 0239 0515 +0.5 0912 1144 -0.4 1527 1750 +0.5 2155
                                  0018 -0.3 0352 0617 +0.5 1021 1255 -0.4 1636 1856 +0.5 2306
                              0132 -0.4 0502 0724 +0.5 1127 1412 -0.4 1741 2007 +0.6
       8 0011 0259 -0.4 0606 0834 +0.6 1228 1533 -0.5 1841 2116 +0.7
       9 0109 0414 -0.5 0705 0937 +0.7 1324 1636 -0.6 1935 2211 +0.8
     10 0202 0509 -0.6 0759 1030 +0.8 1416 1727 -0.7 2026 2301 +0.8
     11 0252 0557 -0.7 0849 1119 +0.8 1506 1814 -0.7 2114 2347 +0.9
     12 0339 0642 -0.7 0937 1206 +0.8 1554 1859 -0.7 2200
                 0033 +0.9 0425 0725 -0.7 1023 1253 +0.8 1641 1941 -0.7 2246
```

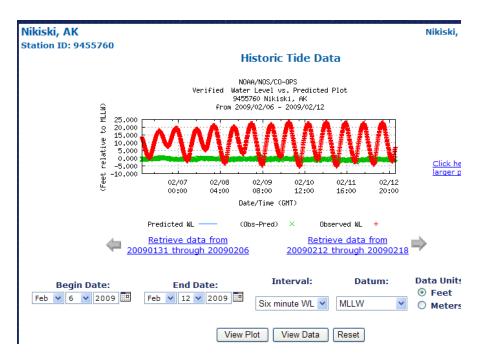
M1h) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Current Predictions** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

M2h) **If Usage Indicated in M1h**) The above table lists tidal current predictions for Columbia Bay, AK. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Organization of information
- Ease of understanding
- Tells me what I need to know about tidal currents





M1i) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Historical Water Levels** (Graphic or Data Listing) products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

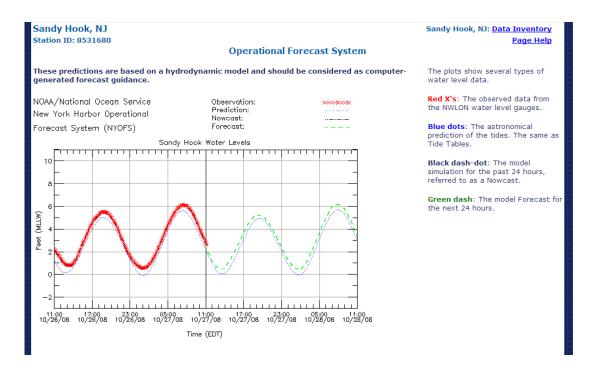
M2i) **If Usage Indicated in M1i**) Referring specifically to CO-OPS **Historical Water Level** products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3i) **If Usage Indicated in M1i**) The graph above shows historical water level for Nikiski, AK. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about historical water levels





M1j) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Water Level Forecast** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information

M2j) **If Usage Indicated in M1j**) Referring specifically to these CO-OPS forecast products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs



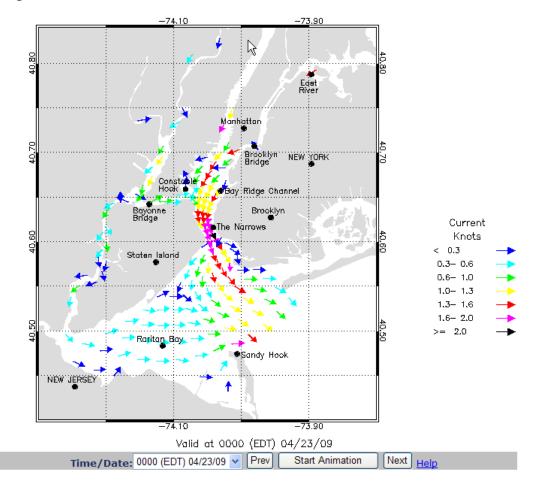
M3j) **If Usage Indicated in M1j**) The graph above from a CO-OPS Operational Forecast System shows observed, predicted, and forecast water level for Sandy Hook, NJ. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about forecast water levels



New York Harbor Field Currents Forecast Guidance

These predictions are based on a hydrodynamic model and should be considered as computer-generated forecast guidance.



M1k) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Current Forecast** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information



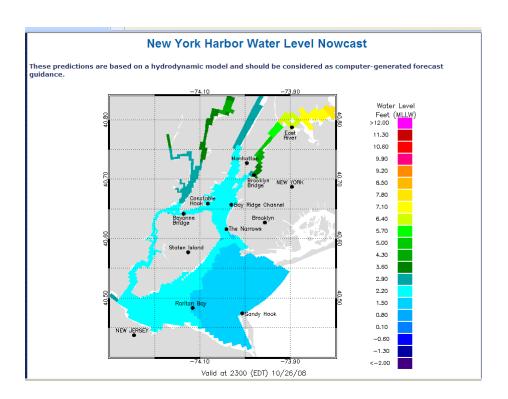
M2k) **If Usage Indicated in M1k)** Referring specifically to these CO-OPS forecast products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3k) **If Usage Indicated in M1k)** The above map is a still image from a CO-OPS Operational Forecast System animation showing Field Currents Forecast Guidance for New York Harbor. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about forecast currents





M1l) During the last 12 months, please indicate the frequency with which you have used CO-OPS **Animated Water Level Nowcast** products.

- At least once per day
- Once per week
- Once per month
- Seasonally
- Do not use
- Not familiar with this information



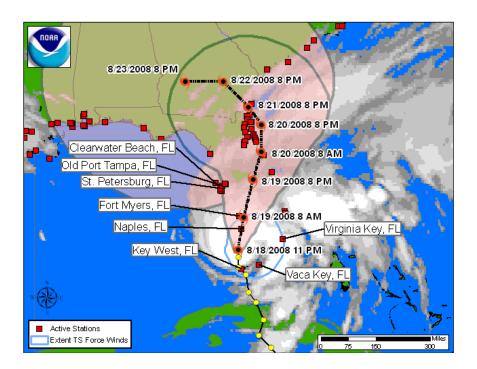
M2l) **If Usage Indicated in M1l**) Referring specifically to these CO-OPS nowcast products, on a 10-point scale, where 1 means Poor and 10 means Excellent, please rate the quality of the information on the following:

- Clarity
- Timeliness
- Accuracy
- Organization of information
- Meets my needs

M3l) **If Usage Indicated in M1l**) The above map is a still image from a CO-OPS Operational Forecast System (OFS) animation showing a Water Level Nowcast for New York Harbor. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the graph on the following:

- Visual appeal
- Ease of understanding
- Tells me what I need to know about nowcast water levels





- M4) Above is an example of the CO-OPS **Storm QuickLook**, which is initiated when a National Weather Service storm center issues a tropical storm warning for the U.S. or its island possessions. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the map on the following:
 - a. Visual appeal
 - b. Ease of understanding
 - c. Ease of use
 - d. Allows me to find the information that I need





M5) Above is a clickable map showing what information is available for some local stations over a portion of the East Coast. Using a 10-point scale where 1 means Poor and 10 means Excellent, please rate the map on the following:

- a) Visual appeal
- b) Ease of understanding
- c) Ease of use
- d) Allows me to locate the information that I need



CO-OPS provides oceanographic data and information in the following general categories:

Tidal Predictions: The times and strength of the tide and tidal currents at a given location determined by a mathematical process which accounts for the gravitational effect of the Moon and Sun.

Observational data: Reports of the measured water level, current or other variable at a specific time for a given location.

Forecast Model Guidance: Information based on hydrodynamic models that use realtime observational data and weather forecast inputs to produce nowcast and forecast guidance of water levels and currents.

- M6) Are the meanings of these categories of oceanographic information and data clear?
 - a) yes
 - b) no

M6a) **(If NO to QM14)** Please explain which definitions are not clear in the space provided below.



Customer Satisfaction Index

Now, please think about your overall satisfaction with the CO-OPS Program.

- 15) First, please consider all of your experiences with CO-OPS. Using a 10-point scale on which 1 means Very Dissatisfied and 10 means Very Satisfied, how satisfied are you with CO-OPS?
- 16) To what extent has CO-OPS met your expectations? Using a 10-point scale on which 1 now means Falls Short of your Expectations and 10 means Exceeds your Expectations, to what extent has CO-OPS fallen short of, or exceeded your expectations?
- 17) Forget CO-OPS for a moment. Now, imagine an ideal oceanographic products and services center. How well do you think that CO-OPS compares with that ideal center you just imagined? Please use a 10-point scale on which 1 means Not Very Close to the Ideal, and 10 means Very Close to the Ideal.

Desired Outcomes

- 18) Using a 10-point scale where 1 means Not at all Likely and 10 means Very Likely, how likely would you be to take action based on the information you receive from CO-OPS?
- 19) Using a 10-point scale, on which 1 means Not at all Confident and 10 means Very Confident, how confident are you that CO-OPS will do a good job of providing products and services in the future?
- 20) If you have any additional comments you would like to provide to the Center for Operational Oceanographic Products and Services (CO-OPS) at this time, please do so below. For example, can you suggest a specific product improvement?

Thank you for your time. CO-OPS appreciates your input and will use this feedback to better serve its customers.

