



# **FY 2019 Project Instructions for Coastal and Great Lakes Observing Systems**

October 2018

Engineering Division  
Center for Operational Oceanographic Products and Services  
National Ocean Service  
National Oceanic and Atmospheric Administration

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**PART 2 - The DYNAMIC PROJECT INSTRUCTIONS are located at**

[https://docs.google.com/document/d/1Z\\_2-gg5rInYnUpaFUZN59qGXtazMtFdDE\\_iKpi-yCsg/edit](https://docs.google.com/document/d/1Z_2-gg5rInYnUpaFUZN59qGXtazMtFdDE_iKpi-yCsg/edit)

The 2019 Operational Support List is available for reference as a shared Google document, available here:

<https://docs.google.com/spreadsheets/d/1aBu8SIKxNvIoAXL8mzIYf3iGwmFTjT7ITaqIp5ogfXg/edit#gid=1240521289>

## **PURPOSE AND FORMAT OF THE PROJECT INSTRUCTIONS**

These Project Instructions provide comprehensive requirements for the installation, maintenance, and removal of all CO-OPS observing systems including the National Ocean Service (NOS) National Water Level Observation Network (NWLON), Physical Oceanographic Real Time Systems® (PORTS®), and other observing systems. The requirements described within will help ensure that CO-OPS observing systems are able to collect continuous, reliable, defect-free data for generating multi-purpose products. The observing systems provide critical data to ensure safe navigation, calculate tidal datums which serve as chart datum and other height references, determine marine boundaries, determine flow rates to support International treaties, support National Weather Service tsunami/storm surge warnings, inform coastal resource managers, and analyze long-term sea level trends.

These Project Instructions have two parts. Part I - CO-OPS Observing System Support provides strategic and programmatic context for the observing systems, and Part II - Dynamic Project Instructions cover the maintenance requirements, references, and the station-specific instructions for individual stations. The Dynamic Project Instructions change throughout the year as needs arise. The station-specific instructions are prioritized in descending order of importance. Field personnel will accomplish as many of the requirements as resources permit. The Dynamic Project Instructions are available at [https://docs.google.com/document/d/1Z\\_2-gg5rInYnUpaFUZN59qGXtazMtFdDE\\_iKpi-yCsg/edit](https://docs.google.com/document/d/1Z_2-gg5rInYnUpaFUZN59qGXtazMtFdDE_iKpi-yCsg/edit)

The 2019 Operational Support List is available for reference as a shared Google document, available here: <https://docs.google.com/spreadsheets/d/1aBu8SIKxNvIoAXL8mzIYf3iGwmFTjT7ITaqIp5ogfXg/edit#gid=1240521289>

The spreadsheet identifies all the operational NWLON and subordinate stations. It contains three worksheets: (1) 2019 NWLON Stations, (2) 2019 Subordinate Stations, and (3) 2019 Current Meter Stations. An “X” within this spreadsheet indicates which stations support the various programs and NOAA mission goals. Counters are provided at the bottom of the list to indicate the number of stations supporting each program or type of project as well as the groupings of NOAA mission goals.

### **PART 1 - CO-OPS OBSERVING SYSTEMS SUPPORT**

CO-OPS observing systems include:

- (A) Base-funded Observing Systems, including coastal and Great Lakes NWLON stations, NWS-supported Tsunami NWLON stations, selected international GLOSS stations, and short-term water level gauging to support NOS VDatum, OCS hydrographic surveys and NGS Shoreline Mapping. Long-term stations base funded through NOS and NWS appropriations adhere to strict standards in order to provide tidal datums and long-term

sea level trends, as well as support for tsunami warnings.

- (B) Strategic Partnerships Stations, where CO-OPS has a direct mission interest that is supported by a partnership with another federal, state, local, or private entity. These are most often cost-shared partnerships that provide mission-critical support for stakeholders, and advance the mission and priorities of CO-OPS; for example, these partnerships may fill NWLON gaps. At this time our strategic partnerships include PORTS<sup>®</sup>, Texas Coastal Ocean Observing Network (TCOON) support, U.S. Army Corps of Engineers (USACE) Comprehensive Evaluation of Project Datums (CEPD), National Parks System (NPS) NWLON gap stations, U.S. Geological Survey (USGS) NWLON gap stations, National Estuarine Research and Reserves System (NERRS) NWLON gap stations, Ocean Observing and Monitoring Division (OOMD) support, Mobile Bay Storm Surge Regional Network support, and Puerto Rico Seismic Network (PRSN) support.
- (C) Transitional Partnership Stations, including one-off stations where legacy partnerships no longer closely align with CO-OPS primary mission and the CO-OPS Program Management Team is actively working to transition O&M responsibilities to others. These stations are acknowledged in the Project Instructions such that CO-OPS is able to transition operations and maintenance to others, and give clear guidance to field staff through the changeover.

The sections below provide a summary of the strategic and programmatic context for the observing systems we support. Our Strategic Partnerships and Transitional Partnerships Stations are dynamic, and our O&M responsibilities can change within the fiscal year. CO-OPS employees can reference the Gauging Partnership Dashboard to determine the status of a specific partnership, and contact the associated Program Manager with any questions.

### **(A) Base funded Observing Systems**

#### **Coastal and Great Lakes NWLON Stations**

There are 159 coastal and 51 Great Lakes NWLON stations, supporting a variety of CO-OPS missions, as detailed in the 2019 Operational Support List. Installation, maintenance, and removal of NWLON stations shall be coordinated among the CO-OPS Observing Systems Manager (OSM), the Engineering Division (ED) Branch Chiefs, Oceanographic Division (OD) Branch Chiefs, and Filed Operations Division (FOD) Branch Chiefs, the CO-OPS Program Management Team (PMT).

#### **International Great Lakes Datum (IGLD) Support**

As stated in the “*NOAA: A Plan to Update the International Great Lakes Datum A Look Ahead: 2015-2025*” document, planning continues for the IGLD 2020 update and CO-OPS and NGS agree that a minimal update can be accomplished using just the 53 existing permanently operating NWLON/PORTS<sup>®</sup> water level stations established in the Great Lakes. It is also recognized that to obtain a complete picture of the lake levels, over 140 small ports and harbors of refuge have been identified as needing to collect water level and Global Navigation Satellite System (GNSS) data to incorporate into the interpolation model update.

The Great Lakes NWLON/PORTS<sup>®</sup> stations are being used as the foundation for the IGLD epoch update. CO-OPS and NGS are currently working on several bi-national multi-government agency research questions, which require scheduled maintenance at all 53 stations in the Lakes in order to meet the objectives of the technical questions and IGLD update. The IGLD epoch period is CY 2017 - 2023; and during the CY 17 scheduled maintenance the opening levels for this epoch needs to be run and during CY 24 scheduled maintenance the closing level needs to be run for this epoch. Using funding provided by the Environmental Protection Agency, and the NOS VDatum program, in FY19 CO-OPS will install, operate and remove temporary (seasonal) water level stations in the Great Lakes for the IGLD update project and that work is covered under a separate IDIQ Task and is not included in this document. CO-OPS also supports Great Lakes Restoration Initiatives for the IGLD update. In order for the temporary water level station data be used to strengthen the datum update and establish IGLD 2020 elevations at the seasonal locations, scheduled maintenance including levels are required at all the NWLON Great Lakes water level stations.

### **NOAA Tsunami Requirements**

The maintenance activities at the 17 Tsunami stations listed below are funded by NWS within the CO-OPS base budget.

1631428	Pago Bay, Guam
9411340	Santa Barbara, CA
9437540	Garibaldi, OR
9441102	Westport, WA
9442396	La Push, WA
9451054	Port Alexander, AK
9452634	Elfin Cove, AK
9457804	Alitak, AK
9459881	King Cove, AK
9461710	Atka, Nazan Bay, AK
9462450	Nikolski, Mueller Cove, AK
9751364	Christiansted Harbor, St. Croix, VI
9751381	Lameshur Bay, St John, VI
9752235	Culebra, PR
9752695	Vieques Island, PR
9759394	Mayaguez, PR
9759938	Mona Island, PR

### **Global Sea Level Observing System (GLOSS) Support**

CO-OPS is responsible for maintenance of the Global Sea Level Observing System (GLOSS) station at 2695535 Bermuda, Ferry Reach Channel as a replacement for the St. Georges Island/Esso Pier station . Associated operation and maintenance activities are base-funded. This replacement station was established in FY16 and has become the new long-term station location

for the Island. This is a critical GLOSS station, is tsunami capable, is needed for storm surge model validation and provides critical cross gulf stream steric measurements, given its unique location in the Atlantic Ocean. The Bermuda, St. Georges Island/Eso Pier station shall have closing levels performed and shall be removed in FY 19, using CO-OPS base funds. The 2019 NWLON Stations tab of the FY 2019 Operational Support List identifies the 26 NWLON stations that are part of GLOSS, in addition to the Bermuda station.

### **NOS VDatum Support**

VDatum is a software tool developed by the National Ocean Service (NOS) for transforming bathymetric/topographic data among 28 tidal, orthometric and ellipsoidal vertical datums. The ability to properly reference data to multiple vertical datums is critical to a variety of applications in the coastal zone, and it serves to extend the capabilities of emerging technologies in providing state-of-the art products.

A National VDatum complements NOS work in developing a national bathymetric database, a National Spatial Reference System (NSRS), and a national tidal datum reference system, which can be combined with the topographic data in providing seamless data products across the land-water interface. These products will also enable a consistent, accurate national shoreline to be defined relative to tidal and geodetic datums. Some other applications that benefit from VDatum include inundation modeling (storm surge, tsunami, and sea level rise impacts), ecosystem modeling, and coastal zone management. VDatum enhances the capabilities of technologies such as kinematic GPS (K-GPS) for vertical referencing of hydrographic survey depths, use of topographic and bathymetric LIDAR for determining mean lower low water (MLLW) and mean high water (MHW) shorelines, and development of digital elevation models (DEMs).

The vertical datums incorporated into VDatum are selected to accommodate the wide variety of bathymetric and topographic data sources that could potentially be used as input to the transformation software. Vertical datums can be classified as tidal datums (tidally derived surface), orthometric datums, or 3D ellipsoidal datums. Examples of the types of data that are referenced to these categories of datums include bathymetry that is usually referenced to a tidal datum, topographic data that is often surveyed relative to an orthometric datum such as the North American Vertical Datum of 1988 (NAVD88), and LIDAR data that is referenced to an ellipsoidal datum.

All VDatum water level gauging work is done via IDIQ contract and associated operation and maintenance activities are included in the IDIQ Scope of Work. Therefore, VDatum stations are not addressed in this document.

## **OCS Hydrographic Surveys and NGS Shoreline Mapping Surveys**

The requirements for the installation and removal of subordinate water level stations for NOAA in-house OCS hydrographic and NGS Shoreline Mapping remote sensing surveys shall be coordinated between the Products and Services Branch (PSB) Hydrographic Planning Team (HPT), FOD, the Operations Branch (OB) of the Hydrographic Surveys Division of the NOS Office of Coast Survey (OCS), or the Remote Sensing Division (RSD) of the National Geodetic Survey (NGS). The coordination is generally done through the CO-OPS Mapping and Charting Program Manager, the OSM, and the PSB Branch Chief, as CO-OPS' representatives on the Foundation Four (OCS, NGS, CO-OPS, and IOOS) Operations team. The selection and installation of stations and sensors for these surveys shall be coordinated with OB/RSD and approved by the Mapping and Charting Program Manager, in concurrence with the ED and OD/PSB/HPT. The DCP, sensor, and other required equipment shall also be coordinated between FOD and OB/RSD.

According to CO-OPS' policy, NOAA platforms (OCS NRT and OMAO Ships), CO-OPS' IDIQ contractors, and/or OCS hydrographic contractors shall install the subordinate water level stations for NOAA in-house hydrographic or remote sensing surveys. For NOAA contract hydrographic surveys, the subordinate water level stations shall be installed by OCS contractors according to the OCS Hydrographic Surveys Specifications and Deliverables document, available on the OCS web site at <http://nauticalcharts.noaa.gov/hsd/specs/specs.htm>. Subordinate gauges installed by NOAA or the OCS contractor may be used for both in-house and contract hydrographic surveys, as approved.

CO-OPS is responsible for maintaining control and subordinate stations for NOAA in-house hydrographic and remote sensing surveys. Priority stations will be added to the [Hydro Hot List](http://tidesandcurrents.noaa.gov/hydro_hotlist.html) at [http://tidesandcurrents.noaa.gov/hydro\\_hotlist.html](http://tidesandcurrents.noaa.gov/hydro_hotlist.html).

For NOAA contract Remote Sensing surveys, NGS contractors shall install the subordinate stations for Shoreline Mapping Surveys, according to the [NGS Water Level Specifications and Deliverables document](#), available on the [CO-OPS publications web page](#).

Control stations designated on both the NWLON and subordinate operational station lists provide support for hydrographic and remote sensing survey operations. Survey dates, platforms, the required subordinate stations, and any changes or additions to this list will be provided by HPT in the hydro and remote sensing project status sheet file under a separate cover. The dates listed might change because of priority change or schedule, but these dates are provided for preliminary planning of field trips, as appropriate. Some of the planned NOAA in-house hydrographic and remote sensing subordinate station installations may be carried through the IDIQ task orders. For individual hydro/remote sensing projects, the project instructions developed by OD/HPT provide information about the number and names of subordinate projects needed for each project.

The Commanding Officer of the survey ship or the Chief, Hydrographic Field Party, together with CO-OPS personnel, will be jointly responsible for monitoring the proper operation of these stations during the periods of survey operations. The Hydrographic Planning Team (HPT) lead is the CO-OPS point of contact for hydro project planning activities and other operational support. Problems with the station installation, maintenance and/or operation shall be reported to FOD who will recommend a corrective course of action. The Configuration and Operational Engineering Team (COET) lead is designated as the technical point of contact for subordinate station installation, operation, and maintenance requirements and metadata documentation for NOAA in-house and contract hydrographic and remote sensing survey projects, and may be contacted for daily activities related to hydro operations.

## **(B) Strategic Partnerships Stations**

### **PORTS<sup>®</sup>**

PORTS<sup>®</sup> stations are installed, operated, upgraded, and removed under a cost-shared partnership agreement. Installation, maintenance, and removal of PORTS<sup>®</sup> stations shall be coordinated between the Maritime Services Program Manager, the OSM, all the Branch Chiefs, and the IDIQ Technical Representative. CO-OPS in collaboration with PORTS<sup>®</sup> partner generally plans and designs the PORTS<sup>®</sup> stations. FOD employees, IDIQ Contractors, or local user groups install PORTS<sup>®</sup> stations. Contractors and local user groups maintain PORTS<sup>®</sup> stations. CO-OPS shall support external maintenance groups as necessary. PORTS<sup>®</sup> water level, Met only, Air Gap, Visibility, Current Meter, and Meteorological station requirements are covered under each individual PORTS<sup>®</sup> operation and maintenance contract.

Forty-eight (48) NWLON stations provide support for numerous PORTS<sup>®</sup> navigational operations. PORTS<sup>®</sup> stations having meteorological sensors only are denoted on the subordinate station worksheet of the 2019 Operational Support List.

At this time, CO-OPS is planning to establish one new PORTS<sup>®</sup> in FY 2019: Kings Bay PORTS<sup>®</sup>. CO-OPS will coordinate with the local partners to support the station installations and CO-OPS personnel will inspect the newly established stations. See the Dynamic Project Instructions (DPI) for specific requirements for each site.

Station modifications will be executed using existing IDIQ contracts or local partner contracts as applicable.

- Mobile PORTS<sup>®</sup>: Installation of a new visibility station
- Mobile PORTS<sup>®</sup>: Relocation of a new side looking current meter station
- Lower Mississippi River PORTS<sup>®</sup>: Installation of Air Gap Sensor
- Tampa Bay PORTS<sup>®</sup> Relocation of McKay Bay water level sensor
- Tampa Bay PORTS<sup>®</sup> Installation of a new visibility station
- Tampa Bay PORTS<sup>®</sup> Installation of a new iATON current meter
- Tampa Bay PORTS<sup>®</sup> Installation of a new Air Gap Sensor

- Cape Cod PORTS® Installation of a new iATON or ATON current meter

### **Texas Coastal Ocean Observing Network (TCOON) Support**

CO-OPS has a MOA with the USACE Galveston District to manage, operate, maintain, repair, and disseminate water level data observed by the TCOON. The TCOON MOA consists of 30 operational stations located along the Texas coastline. The network collects water level data and other oceanographic and meteorological data. Coordination of the maintenance and repair of the stations is done through the Mapping and Charting Program Manager, the Technical Representative, the IDIQ Contractor Officer's Representative (COR), and the OSM. See the Dynamic Project Instructions for specific requirements for each site.

### **USACE Comprehensive Evaluation of Project Datums (CEPD) Projects**

Since 2013, through agreements, CO-OPS has been providing the USACE CEPD Program with support for publishing official tidal datums. Twenty-one of forty-four USACE districts are coastal, and those 21 districts are required to plan CEPD projects using updated vertical references, which usually requires CO-OPS' assistance for computing and updating tidal datums. USACE provides funding to CO-OPS for this support for each district project. The coordination of new projects is coordinated between the Mapping and Charting Program Manager, CO-OPS Agreements Coordinator, the PSB Chief and the EDB Chief. Artara Johnson (COET) and Kelly Kriner (Datums Team) are designated respectively as technical points of contact for metadata documentation and datum computation. They should be contacted for day-to-day operations. Priority stations will be added to the CEPD Hot List.

### **United States Geological Survey (USGS) NWLON Gap Stations**

CO-OPS has entered into a strategic partnership with USGS to process and publish USGS data to help complement the NWLON network and fill in NWLON gaps where appropriate. CO-OPS is actively working to ingest USGS water level data and provide NOAA products at nine locations in NJ, MD, DE, and VA. These nine stations will help fill eight NWLON [gaps](#). ED provides technical assistance for metadata and data ingestion and FOD has provided field support to USGS to demonstrate the installation of deep rod benchmarks. While the partnership with USGS continues to grow, it is expected that CO-OPS will provide technical support and training, if requested, for instrument calibrations, sensor and bench mark network leveling, and field maintenance support, etc.

### **National Park Service (NPS) NWLON Gap Stations**

The National Park Service (NPS) and CO-OPS entered into an interagency agreement in 2016. Under this agreement, CO-OPS will provide products and services on a reimbursable basis that include station-planning, design, testing, installation, operation and maintenance, bench mark recovery and/or installation and leveling. Per the agreement, CO-OPS will provide on a no-cost basis technical assistance and training, data acquisition, data processing and product development. NPS is utilizing the IDIQ to install station at Lake Clark, AK and Chatham, MA to fill NWLON gaps. The Coastal Hazards Program Manager and the CO-OPS Agreement Coordinator, the OSM, the Technical Representative, the OD Branch Chiefs, the ED Branch

Chiefs, and the FOD Branch Chiefs coordinate these new projects. The Dynamic Project Instructions documents the station specific instructions.

<b>Project Station Number</b>	<b>Station Name</b>	<b>Partner</b>	<b>Funding Number and Remarks</b>
8447435	Chatham, MA	NPS	No funding exchange to occur in FY19. CRR 223 focused on upgrading the station to meet an NWLON gap. IDIQ contractor to rebuild Station in FY18.
945XXXX	Lake Clark	NPS	No funding exchange to occur in FY19. IDIQ contractor installation coordinated by NPS.

### **National Estuarine Research and Reserves (NERRS) NWLON Gap Stations**

CO-OPS has signed an agreement in 2017 with the Office of Coastal Management (OCM). Under that agreement CO-OPS will provide technical guidance and training, calibrate sensors, support OCM partners with purchasing temporary station equipment with OCM funding through CO-OPS contracting mechanism and through consultations. While OCM partners are responsible for installing the gauges, CO-OPS will provide technical assistance during the installation process as needed. CO-OPS will disseminate data through standard CO-OPS web pages for NERRS water level stations that fully comply with NWLON specifications. For other stations, data dissemination on CO-OPS website will be determined on a case-by-case basis, and individual data memos will be established with each NERRS.

Partnerships with the NERRS are transitioning from CO-OPS conducting operation and maintenance of local stations to OCM installing and maintaining those stations. CO-OPS would be interested in operating and maintaining gauges within NERRS, funding permitting, that fill NWLON gaps (e.g. Turkey Point). The NERRS stations at Wells, ME; Weeks Bay, AL; and Grand Bay, MS; are transitioning partnership stations where CO-OPS will provide technical assistance only. All NERRS stations are listed in this section.

The Coastal Hazards Program Manager, the CO-OPS Agreement Coordinator, the OSM, the Technical Representative, the OD Branch Chiefs, the ED Branch Chiefs, and the FOD Branch Chiefs coordinate these new projects. The Dynamic Project Instructions documents the station specific instructions.

<b>Project Station Number</b>	<b>Station Name</b>	<b>Partner</b>	<b>Funding Number and Remarks</b>
8518962	Turkey Point, NY	Hudson River NERRS	No funding exchange required. HRNERRS upgraded station in FY17 to meet an NWLON gap; and HRNERRS will continue to operate maintain station and CO-OPS will process data.
8419317	Wells, ME	NERRS	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
8732828	Weeks Bay, AL	NERRS	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
8740166	Grand Bay, MS	NERRS	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.

#### **Ocean Observing and Monitoring Division (OOMD) Support**

CO-OPS and the Climate Program Office (CPO) Ocean Observing and Monitoring Division have been collaborating since 2007. OOMD has provided funding in the past and funding is expected in FY 19 for CO-OPS support. The scope of work for this support involves three priorities involving maintenance of Platform Harvest water level station, installation of cGPS sensors on NWLON (and GLOSS) stations, and upgrade of NWLON infrastructure at remote island locations. The Technical Director, the PSB Branch Chiefs, and the EDB Branch Chief coordinate these new projects. The Dynamic Project Instructions documents the station specific instructions.

<b>Project Station Number</b>	<b>Station Name</b>	<b>Partner</b>	<b>Funding Number and Remarks</b>
9411406	Platform Harvest, CA	NASA/JPL	TBD

#### **Puerto Rico Seismic Network (PRSN)**

The Puerto Rican water level observation network managed by the Puerto Rico Seismic Network (PRSN) shall receive technology assistance support for the operation and maintenance of six water level stations located at Aguadilla, Yabucoa, Fajardo, Arecibo, Caja de Muerto, and Vieques Island (Isabel Segunda). CO-OPS receives the water level data from these existing PRSN stations and that data is made available on CO-OPS website in support of regional tsunami warnings. However, CO-OPS does not process any metadata for these six stations (as

approved by ELT as of 2018). PRSN also operates water level stations in other locations outside of Puerto Rico for which CO-OPS has not committed assistance.

**Mobile Bay Storm Surge Regional Network**

CO-OPS established five stations for Mobile Bay Storm Surge in 2013 as per the reimbursable agreement with the local partners. These stations need to be maintained as per the agreement.

<b>Project Station Number</b>	<b>Station Name</b>	<b>Partner</b>	<b>Funding Number and Remarks</b>
8735391	Dog River Bridge, AL	Mobile County Commission	1RK6XS3-P00
8735523	East Fowl River Bridge, AL	Mobile County Commission	1RK6XS3-P00
8737138	Chickasaw Creek, AL	Mobile County Commission	1RK6XS3-P00
8738043	West Fowl River Bridge, AL	Mobile County Commission	1RK6XS3-P00
8739803	Bayou La Batre, AL	Mobile County Commission	1RK6XS3-P00

**(C) Transitioning Partnership Stations**

In FY17, CO-OPS discontinued operation and maintenance support for several unfunded partner stations as listed below. Operational support for these stations were discontinued because services were not being cost reimbursed by the partners. The Technical Assistance Specialist works with the partners on knowledge transfer of CO-OPS standards and specifications, and best maintenance and operations procedures. In FY19, CO-OPS will assess the performance of these stations and determine if continued ingestion, processing, and data dissemination should continue. The CO-OPS Partner station list identifies stations that support Coastal Hazards Program projects at <http://tidesandcurrents.noaa.gov/coastal.shtml>. The Dynamic Project Instructions documents the station specific instructions.

The stations identified in the following table are legacy partnerships that no longer closely align with CO-OPS Mission Priorities. These stations are being acknowledged in the project instructions for CO-OPS technical support to enable transition of operations and maintenance to the partner and to give clear guidance to field staff through this changeover. Specific station requirements, where applicable, are provided for these stations being maintained by CO-OPS.

Support for transitioning stations should be coordinated with the Technical Representative, Project Lead, the PMT, the OSM, and the ED and FOD Branch Chiefs, and shall follow the guidelines and specifications provided in “[Standing Project Instructions for the Coastal and Great Lakes Water Level Stations](#)”.

Project Station Number	Station Name	Partner	Funding Number
8423898	Fort Point, NH	UNH	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
8662245	Oyster Landing, SC	Baruch	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
8762483	I-10 Bonnet Carre Floodway, LA	NWS	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
8762484	Frenier Landing, LA	NWS	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
9414575	Coyote Creek, CA	USACE	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
9414958	Bolinas Lagoon, CA	MCOSD	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance.
9761115	Barbuda	Antigua-Barbuda Meteorological Services	CO-OPS is not responsible for O&M in FY19. Support focused on technical assistance. Equipment will be transferred to the U.S. Dept. of State.
g10301	St. Clair River (also referred to as the Blue Water Bridge current meter		CO-OPS is not responsible for O&M in FY 19. Station transferred to U.S. Army Corps of Engineers.