

Pacific Islands Ocean Observing System Equipment: Standard Operating Procedures

Below are descriptions of the standard operating procedures for calibrating, validating, operating, and maintaining equipment owned and/or operated by PacIOOS.

High Frequency Radar

NOAA IOOS and the HFR Steering Team developed standard operating procedures for HFR. PacIOOS follows these guidelines.

<http://cordc.ucsd.edu/projects/mapping/documents/SCCOOS-BestPractices.pdf>

Document #1 titled "SCCOOS-BestPractices.pdf"

Datawell Waverider Buoys

PacIOOS operates 13 Waverider Buoys. PacIOOS follows the standard operating procedures outlined in the National Wave Plan (p. 31) and in the Datawell manual:

www.pacioos.org/certification/mk3.pdf

Document #2 titled "Datawell Waverider"

Near shore water quality sensors

PacIOOS operates 9 SBE 16plus V2&WET Labs FLNTUS sensors.

The manufacturer, Sea Bird Electronics, performs the instrument calibrations once every 2 years. PacIOOS staff provide operations and maintenance as recommended in the following manuals:

SBE 16plus V2

www.pacioos.org/certification/16plusV2_rs232_011.pdf

Document #3 titled "16plusV2"

And WET Labs

www.pacioos.org/certification/3en.pdf

Document #4 titled "WET Labs ECO Sensors"

PacIOOS operates 2 SBE 37SMP sensors

The manufacturer, Sea Bird Electronics, performs the instrument calibrations once every 2 years. PacIOOS staff provide operations and maintenance as recommended in the following manuals:

SBE 37 SMP:

www.pacioos.org/certification/37SMP_RS232_020.pdf

Document #5 titled "SBE-37"

PacIOOS operates 2 YSI 6600 V2 Sonde sensors

PacIOOS staff perform the calibrations using the procedures from the YSI manual, section 2.6, page 2-34. PacIOOS staff and partners also perform all operations and maintenance as recommended in the YSI manual.

www.pacioos.org/certification/069300-YSI-6-Series-Manual-RevJ.pdf

Document #6 titled "YSI Series 6"

Water Quality Buoys

PacIOOS operates the following equipment on the Big Island of Hawaii. The equipment is located on buoys.

PacIOOS operates a YSI 6600 V2 Sonde sensor at Hilo Bay

PacIOOS staff perform the calibrations using the procedures from the YSI manual, section 2.6, page 2-34. PacIOOS staff and partners also perform all operations and maintenance as recommended in the YSI manual.

www.pacioos.org/certification/069300-YSI-6-Series-Manual-RevJ.pdf

Document #6 titled "YSI Series 6"

PacIOOS operates a WET Lab WQM at Kiholo Bay.

The manufacturer, WET Labs, performs the instrument calibrations once every 2 years. PacIOOS staff and partners also perform all operations and maintenance as recommended by the WET Labs WQM Manual:

www.pacioos.org/certification/WQMWLen_0.pdf

Document #7 titled "WET Labs WQM"

PacIOOS operates a Satlantic SUNA at Kiholo Bay.

PacIOOS staff perform the calibrations in the lab using procedures according to

Satlantic: : www.pacioos.org/certification/SUNA-V1-Manual.pdf

Document#8 titled "Satlantic SUNA"

PacIOOS staff perform the operations and maintenance according to the Satlantic manual (SUNA is integrated with STOR-X):

www.pacioos.org/certification/STOR-X-Manual_0.pdf

Document #9 titled "STOR-X"

PacIOOS operates WET Labs ECO flourometers (CDOM and PE).

The manufacturer, WET Labs, performs the instrument calibration once every two years. PacIOOS staff and partners also perform all operations and maintenance as recommended by the WET Labs manual:

www.pacioos.org/certification/3en.pdf

Document #4 titled "WET Labs ECO Sensors"

PacIOOS operates a Nortek AQUADOP current profiler at Kiholo Bay.

PacIOOS staff and partners perform operations and maintenance according to the Satlantic manual. Aquadopp is integrated with STOR-X

www.pacioos.org/certification/STOR-X-Manual_0.pdf

Document #9 titled "STOR-X"

GLIDERS

PacIOOS operates one glider run annually. Both PacIOOS and University of Hawaii staff operate the glider. There are procedures followed for the construction, deployment, data collection, retrieval, and maintenance of the glider. These documents provide the operating procedures followed:

- 1) iRobot Seaglider User Guide:
www.pacioos.org/certification/iRobot_Seaglider_User_Guide-Rev.C-Jan12.pdf
Document #10 titled "iRobot Seaglider"
- 2) Seaglider Field Team Operations
www.pacioos.org/certification/3.1b_Field_Team_Operations.pdf
Document #11 titled "Seaglider Field Ops"