OCEAN OBSERVATORIES INITIATIVE

OOI Mooring & Seafloor Instruments

Instrument	OOI Code	RCA	CE	CP	GP	GI	GA	GS	Data Source
ADCP	ADCPS, ADCPT, VADCP	X	X	X	X	X	X	X	
Benthic Fluid Flow	FLOBN	X							Raw Only
Bio-acoustic Sonar	ZPLSC, ZPLSG		X	X	X	X	X	X	
Bottom Pressure and Tilt	BOTPT	X							
Broadband Acoustic Receiver (Hydrophone)	HYDBB	X	X						See Note 2
Broadband Ocean Bottom Seismometer	OBSBB	X							IRIS Only
Bulk Meteorology Instrument Package	METBK		X	X		X	X	X	
CTD	CTDBP, CTDMO	X	X	X	X	X	X	X	
Diffuse Vent Fluid 3-D Temperature Array	TMPSF	X							
Digital Still Camera	CAMDS	X	X						Raw Only
Direct Covariance Flux	FDCHP		X	X		X		X	
Dissolved Oxygen	DOSTA, DOFST	X	X	X	X	X	X	X	
Fluorometer	FLORD, FLORT, FLCDR, FLNTU	X	X	X	X	X	X	X	
HD Digital Video Camera	CAMHD	X							Raw Only
Horizontal Electric Field, Pressure and Inverted Echo Sounder	HPIES	X							See Note 1
Hydrothermal Vent Fluid In-situ Chemistry	THSPH	X							
Hydrothermal Vent Fluid Interactive Sampler	RASFL	X							See Note 3
Hydrothermal Vent Fluid Temperature and Resistivity	TRHPH	X							
Low Frequency Acoustic Receiver (Hydrophone)	HYDLF	X							IRIS Only
Mass Spectrometer	MASSP	X							Raw Only
Nitrate	NUTNR	X	X	X		X	X	X	
Osmosis-Based Water Sampler	OSMOI	X							Raw Only
Particulate DNA Sampler	PPSDN	X							See Note 3
pCO2 Air-Sea	PCO2A		X	X		X	X	X	
pCO2 Water	PCO2W	X	X	X		X	X	X	

Photosynthetically Active Radiation	PARAD	X	X	X					
Seafloor Pressure	PRESF		X	X					
Seawater pH	PHSEN	X	X	X	X	X	X	X	
Short-Period Ocean Bottom Seismometer	OBSSP	X							IRIS Only
Single Point Velocity Meter	VELPT, VEL3D	X	X	X	X	X	X	X	
Spectral Irradiance	SPKIR	X	X	X		X	X	X	
Spectrophotometer	OPTAA	X	X	X		X	X	X	
Surface Wave Spectra	WAVSS		X	X		X	X	X	
Tidal Seafloor Pressure	PREST	X							
PI-ADDED INSTRUMENTS	**OOI Code**	**RCA**							**Data Source**
A-0-A Calibrated Pressure Instrument	A0ABPA30	X							
Cabled Array Vent Imaging Sonar (COVIS)	COVISA301	X							
MARUM Camera System	CAMPIA101	X							
MARUM CTD-DO Instrument	CTDPFA110	X							
MARUM Southern Hydrate Ridge Overview Sonar	OVRSRA101	X							
MARUM Quantification Sonar Southern Hydrate Ridge	QNTSRA101	X							
RAPID: A Community Test of Distributed Acoustic Sensing on the Ocean Observatories Initiative Regional Cabled Array	QuantX distributed acoustic sensing interrogator Silixa iDASv3 distributed acoustic sensor Silixa ULTIMA SM distributed temperature sensor)	X							
Self-Calibrating Pressure Recorder	SCPRAAA301	X							

Key
RCA – Regional Cabled Array; CE – Coastal Endurance; CP – Coastal Pioneer; GP – Global Papa; GI – Global Irminger; GA – Global Argentine Basin; GS – Global Southern Ocean

Unless otherwise noted, data should be available for download from the OOI Data Explorer https://dataexplorer.oceanobservatories.org/. PI-Added Instrument data are available on individual instrument pages accessible here: https://oceanobservatories.org/instruments/. Other data sources can be accessed via this page: https://oceanobservatories.org/how-to-access-data-dmwg/.

There are also many “Engineering” instruments available, including data concentrator loggers, wire following profiler controllers, and glider controllers. These often have “ENG” in their reference designator. Additional engineering instruments include the Hydrogen Sensor (HYDGN) and 3-Axis Motion Pack (MOPAK).

Note #1: Only L0 data is currently available for HPIES. To calculate science products, you will need to manually convert the data yourself using code available at http://oceanobservatories.org/instrument-class/hpies/

Note #2: Only miniSEED (.mseed) files are currently available for HYDBB data, and the data streams are not showing up in the data catalog. Data are available by accessing the raw data archive directly
e.g. https://rawdata.oceanobservatories.org/files/CE04OSBP/LJ01C/11-HYDBBA105/2018/05/04/

You can use the miniSEED player available from the IRIS website
https://ds.iris.edu/ds/nodes/dmc/data/formats/
Or the Python toolbox linked on the Community Tools site
http://oceanobservatories.org/community-tools/

Note #3: No processed analytical files are currently available from the Particulate DNA Sampler (PPSDN) or the Vent Fluid Interactive Sampler (RASFL). The data are still being processed at a lab at UW, and when complete they will be available via the Core Instrument Analytical Results page on the OOI website:
http://oceanobservatories.org/core-instrument-analytical-results/