

Belmont Forum and Future Earth co-branded Collaborative Research Action on Transdisciplinary Research for Ocean Sustainability

Organizational Annex: BOEM, USA (with international access)

Participating partner:

This call is supported by the [U.S. Department of the Interior, Bureau of Ocean Energy Management \(BOEM\)](#)

Available resources:

BOEM can assist appropriate projects, from **all countries** participating in the call, through the loan of Government Furnished Equipment (GFE) from an inventory of oceanographic equipment worth up to US\$ 2M.

This includes Acoustic Doppler Current Profilers (ADCPs), Conductivity-Temperature-Depth (CTDs) sensors, buoys of different sizes and materials, acoustic releases, a fully equipped meteorological-oceanographic buoy able to observe atmospheric and oceanographic variables, and a waveglider with atmospheric and oceanographic sensors.

See the full list of equipment below. Please note that all equipment is subjected to availability at request time, and that the inventory can change over time.

Notice:

Information about BOEM can be found at the website: <https://www.boem.gov>. Details of the call and the application process are provided via the <https://bfgo.org> website.

Eligibility and modalities for allocation of equipment:

Research consortia should indicate in their proposals their intention to request BOEM equipment, and if possible which devices and how many. Requesters will pay for round trip transportation, be responsible for damage/loss, and will need to acknowledge BOEM in any paper/report/document/presentation that emanates from their research.

Scientific areas of interest for BOEM:

BOEM's Environmental Studies Program develops, funds, and manages rigorous scientific research specifically to inform policy decisions on the development of energy and mineral resources on the Outer Continental Shelf (OCS). BOEM-funded research covers physical oceanography, atmospheric sciences, biology, protected species, social sciences and economics, submerged cultural resources and environmental fates and effects.

BOEM's research interests include environmental, social, cultural and economic impacts of living and non-living resource extraction (e.g. fisheries, aquaculture, dredging, mining of sand and minerals), and non-extractive industries (e.g. shipping, tourism, energy). BOEM is particularly interested in enhancing its knowledge base on the potential impacts of human activities on the socio-ecological systems it stewards.

Research addressing social and/or ecological system structure and functioning, and their resilience to stressors is of relevance to BOEM. Interdisciplinary research is of particular interest as physical, ecological and social elements are commonly addressed in BOEM's environmental documents. The geographical area of interest to BOEM is the United States Outer Continental Shelf (OCS) as defined in current legislation, i.e., the OCS Lands Act.

Contact Point:

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Equipment	Serial number	Specifications	Notes
PIES sensors (inverted echosounders)		Model 6.1E2 PIES	25 sensors are available; all have an older model battery pack that restricts the system battery to 180 A-hrs
ADCP TD RDI	2977	1200 kHz, 200 m	not all ADCPs will be available before 9/2019
ADCP TD RDI	2461	300 kHz, 100 m	
ADCP TD RDI	1343	300 kHz, 200 m	
ADCP TD RDI	1391	300 kHz, 200 m	
ADCP TD RDI	224	300 kHz, 200 m	
ADCP TD RDI	213	300 kHz, 200 m	
ADCP TD RDI	215	300 kHz, 200 m	
ADCP TD RDI	4913	75 kHz, 1500 m (RDI)-2000m	
ADCP TD RDI	209	200 kHz, 200 m	
ADCP	4918	75 kHz, 2000 m	
ADCP	4914	75 kHz, 2000 m	
ADCP	4888	75 kHz, 2000 m	
ADCP	1200	300 kHz, 200 m	
ADCP	1299	600 kHz, 200 m	
Acoustic Release	230		
Acoustic Release	124		
Acoustic Release	2-7242		
Acoustic Release	195		
Acoustic Release	200-703		Yellow/older model
Acoustic Release	004-105		Yellow/older model
Acoustic Release	3405		Yellow
Acoustic Release	3505		Yellow
Acoustic Release	3705		Yellow
Acoustic Release	109		
Acoustic Release	161		
Acoustic Release	125		
Acoustic Release	162		
Acoustic Release	167		
Acoustic Release	220		

Met Buoy and Integrated Components

Metocean Buoy: UAF	Make	Model	Part Number
Hull	Tidelands	SB-138	na
Y bridle, chain, shackles	Tidelands	SB-138	401.1047
Water Temp Sensor	Campbell Scientific	109SS (20ft)	21448-3
Iridium SIM Card	JouBeh Technologies	na	na
Iridium MSISDN	JouBeh Technologies	na	na
Iridium MSISDNC	JouBeh Technologies	na	na
Compact Flash Module	Campbell Scientific	CFM100-ST-SW	17345-13
Storage Card, 2 GB	Campbell Scientific	CFMC2G	20578
Iridium Transciever IMEI	Campbell Scientific	Iridium9522B/com9522b	na
Barometer	Campbell Scientific	Viasala	PTB110
Heading/Pitch/Roll Sensor/Enclosure	PNI Corp.	TCM 2.6	TCM2.6
Charge Controller/Enclosure	SunSaver	MPPT	MPPT
Air Temp Sensor/Shield	Campbell Scientific	109SS (20ft)	21448-3
Humidity/Temp Probe/Shield	Campbell Scientific	HC2S3-L15	27725-6
Iridium Antenna/Coax/Mount	JouBeh Technologies	AT-1621-142W	AT-1621-142W
Hukseflux Pyranometer/Mount	Campbell Scientific	LP02 - 20ft	22127-5
GPS Antenna/Mount	Campbell Scientific	GPS16x-HVS	22131
Solar Panels	Solarland	30 watt	SLP030-12U
Navigation Lantern	Tidelands	SolaMax Marine Lantern	SolaMax
Tower	Tidelands	SB-138	na
Enclosure	Hoffman	na	na
Sensor Mast/Internal Rack	RPS	na	na
Data Logger	Campbell Scientific	CR1000	16130-23
Wind Sensor	RM Young	05103-45 Alpine	05103-45 Alpine
Acoustic Release	Teledyne Benthos	SR-100	na
3/8" x 3" Bolts (tower to mid)	na	na	na
Handles (tower to mid)	Tidelands	SB-138	na
Retaining Plates (tower to mid)	Tidelands	SB-138	na
Thumb drive	na	na	na
Com Cable	RPS	na	na
Anchor, 3x rr wheel on spindle	RPS	na	na
Batteries, 2x	Lifeline	12v 150AH AGM	GPL-30HT
Cabling/Connectors	Bulgin	na	na

531 buoys (for moorings)

- 14 big ones (48");
- 17 medium;
- 11 medium with frames
- 21 small;
- 5 conical
- 184 small glass (cages)

