

ITEM OPPORTUNITY SYNOPSIS

Scouting Number:

2023-186

Name of the item to be scouted:

MetOcean Telematics SVP Iridium Drifter Buoy

State item to be used in:

Describe the Item:

Please describe the item application/the end use of the item.

The MetOcean Surface Velocity Program (SVP) Iridium drifter has been designed and thoroughly tested to track ocean current and provide environmental data at a designated depth beneath the ocean surface. The buoy utilizes the dependable bi-directional Iridium satellite system to communicate and to transmit essential scientific data. This is a Simplified Acquisition, which has a shorter lead time to completion than an action over \$250,000.00. It is expected that this requirement will be awarded within the next 30 days, and any timely scouting (requested completed within 15 days from submission) would be appreciated to align with Simplified Acquisition requirements for posting and the Buy American Act Waiver process.

Supplier Information:

Type of Supplier Being Sought (select from the list below):

Manufacturer

x

Contract Manufacturer

Distributor

Other (Please Specify)

Reason for Scouting Submission (select from the list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

BABA

x

Other (Please Specify)

Buy American Waiver

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible)

Manufacturing process not known outside of attached datasheet.

Provide dimensions / size / tolerances / performance specifications of the item

QUICK SPECIFICATIONS Size (diameter) 15.50 inches (39.5 cm) Mass 40 lbs. (18.1 kg) Operating Life Up to 18 months Drogue Type Holey sock BUOY DIMENSIONS • Surface Unit Diameter: 15.50 inches (39.5 cm) • Mass (in air): 40 lbs. (18.1 kg) BUOY CONSTRUCTION • Surface Unit: Injection molded high impact ABS • Tether: Plastic coated stainless steel cable • Drogue: No rip nylon DROGUE • Length: 210 inches (5.3m) • Diameter: 24.00 inches (60 cm) • Style: Holey sock TETHER • Length (to center of drogue): 590.5 inches (15m) OPERATION • Air temperature: -20C to 50C (-4F to 122F) • Water temperature: -2C to +45C (28F to 113F) • Relative humidity: 0 to 100% marine environment • Barometric pressure (optional): 800 to 1060 mbar • Sea state: SS5 • Operating life: Up to 18 months* • Storage life: Up to 24 months • Storage temperature: -20C to +55C (-4F to 131F) • Time reference: UTC and Julian hour STORAGE • Storage temperature: -20C to +55C (-4F to 131F) • Storage life: Up to 24 months SURVIVAL • Temperature: -40C to +70C (-40F to 158F) • Sea state: SS6 • Deployment free fall height: 33 ft (10m) into water ELECTRONICS • MetOcean's Global Platform Transceiver Controller TM • Navman Jupiter 32 Global Positioning System module • Iridium 9602N Short Burst Data transceiver • Strain gauge drogue presence system DATA COLLECTION • As per the Drifting Buoy Cooperative Panel DBCP-2 format (standard) • Can be customized depending upon customer requirement (optional) DATA TRANSMISSION • Bidirectional communication ability allows the end user to select on demand Iridium transmission interval to suit operational requirement. • Transmissions can be set up at predetermined schedule intervals and/or poll the unit for immediate results. Data latency is less than 60 seconds from start of transmission

List required materials needed to make the product, including materials of product components, if applicable

Materials not known outside of attached datasheet.

Are there applicable certification requirements?

Yes

No

x

Please explain:

Are there any applicable regulations that apply to the production of this item?

Yes

No

x

Please explain:

Are there any other standards / requirements?

Yes

No

x

Please explain:

Additional Comments:

Additional technical comments:

Similar products manufactured by Lagrangian and Pacific Gyre were sent to the program office for technical evaluation.

Volume and Pricing:

Estimated Potential Business Volume (i.e. #units per day, month, year): One-time purchase of quantity six (6) buoys.

Estimated Target Price/Unit Cost Information: Aggregate price of \$15,300.00 for buoys and tethers.

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc.)

Deliver by 03/30/2024

Describe packaging requirements (i.e. individually/group packaging, etc.)

No packaging requirements specified by program.

Where will this item be shipped?

Delivery to Seattle, WA

Additional Comments:

Is there other information you would like to include?

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SVP Iridium Drifter

- Low Cost Telemetry Solution
- Optional Sensors Available
- Ship or Air Deployable



METOCEAN SYSTEMS

The SVP Iridium® drifter is an innovative addition to the spherical drifter family. The SVP Iridium® drifter has been designed and thoroughly tested to track ocean current and provide environmental data at a designated depth beneath the ocean surface.

The SVP Iridium® drifter is truly unique. The buoy utilizes the dependable bi-directional Iridium® satellite system to communicate and to transmit essential scientific data. Iridium® telemetry is the most cost effective means of transmitting data for environmental applications. The SVP Iridium® drifter is also remarkably versatile.

Optional air pressure sensor (BP), available upon request.



Quick Specifications

Size (diameter)	15.50 inches (39.5 cm)
Mass	40 lbs. (18.1 kg)
Operating Life	Up to 18 months
Drogue Type	Holey sock

SVP Iridium Drifter

TECHNICAL SPECIFICATIONS

BUOY DIMENSIONS

- Surface Unit Diameter: 15.50 inches (39.5 cm)
- Mass (in air): 40 lbs. (18.1 kg)

BUOY CONSTRUCTION

- Surface Unit: Injection molded high impact ABS
- Tether: Plastic coated stainless steel cable
- Drogue: No rip nylon

DROGUE

- Length: 210 inches (5.3m)
- Diameter: 24.00 inches (60 cm)
- Style: Holey sock

TETHER

- Length (to center of drogue): 590.5 inches (15m)

OPERATION

- Air temperature: -20C to 50C (-4F to 122F)
- Water temperature: -2C to +45C (28F to 113F)
- Relative humidity: 0 to 100% marine environment
- Barometric pressure (optional): 800 to 1060 mbar
- Sea state: SS5
- Operating life: Up to 18 months*
- Storage life: Up to 24 months
- Storage temperature: -20C to +55C (-4F to 131F)
- Time reference: UTC and Julian hour

STORAGE

- Storage temperature: -20C to +55C (-4F to 131F)
- Storage life: Up to 24 months

SURVIVAL

- Temperature: -40C to +70C (-40F to 158F)
- Sea state: SS6
- Deployment free fall height: 33 ft (10m) into water

ELECTRONICS

- MetOcean's Global Platform Transceiver Controller TM
- Navman Jupiter 32 Global Positioning System module
- Iridium 9602N Short Burst Data transceiver
- Strain gauge drogue presence system

DATA COLLECTION

- As per the Drifting Buoy Cooperative Panel DBCP-2 format (standard)
- Can be customized depending upon customer requirement (optional)

DATA TRANSMISSION

- Bidirectional communication ability allows the end user to select on demand Iridium transmission interval to suit operational requirement.
- Transmissions can be set up at predetermined schedule intervals and/or poll the unit for immediate results. Data latency is less than 60 seconds from start of transmission

* Operational life is dependent upon sensor suite, transmission interval and storage conditions.

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