

CODE/DAVIS

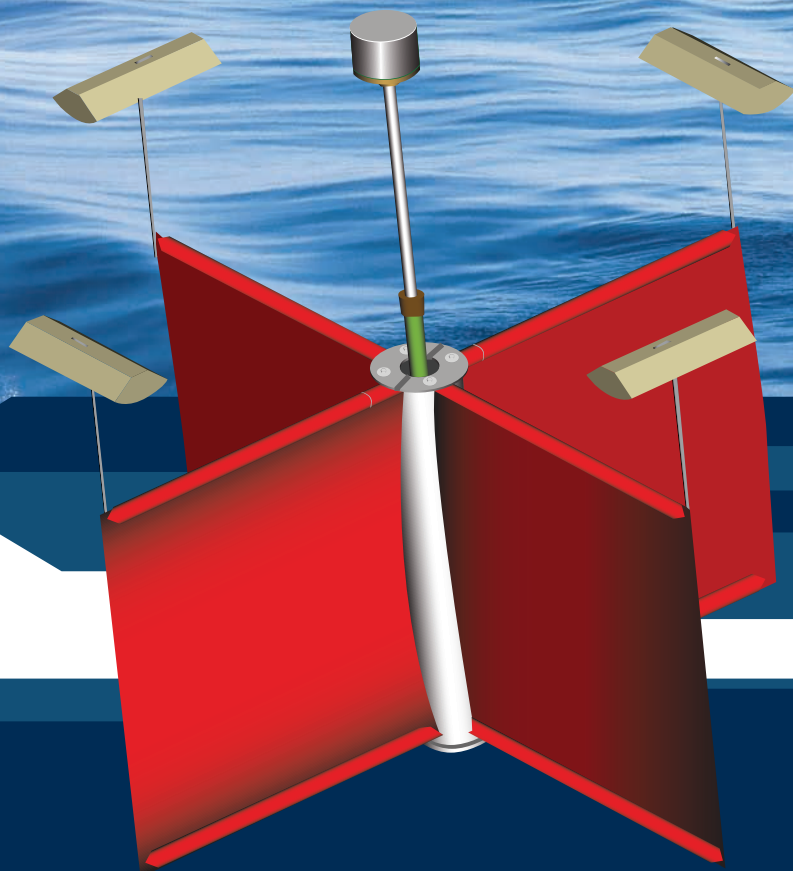
ARGO DRIFTER



Reliable Bi-Directional Communication

Rugged and Innovative Design

Surface Current Tracker



The MetOcean CODE/DAVIS drifter has been designed and tested to meet the performance criteria of the CODE (Coastal Ocean Dynamics Experiment) drifter developed by Dr. Russ Davis of SIO. The MetOcean CODE/DAVIS drifter is an inexpensive solution to acquire coastal and estuarian water currents within a meter of the water surface.

Utilized by the oceanographic and metrological community, the robust design allows for easy ship deployment. The MetOcean CODE/DAVIS drifter is equipped with a sea surface temperature sensor, GPS receiver and the option of either Iridium or Argos based satellite telemetry. The drifters operating life is between 3-12 months depending on the required rate of transmission.

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Technical Specifications

Buoy Dimension

Buoy Prior To Deployment

Packaged Length: 1016 mm (40 inches)
Diameter: 203.2 mm (8.0 inches)
Weight: 10.8 kg (23.5 pounds)

Deployed Surface Unit

Hull Diameter: 102 mm (4.0 inches)
Total Height: 1400 mm (55.1 inches)
Total Cross-section Width: 1090 mm (43 inches)
Drogue Vane: 50 mm (19.6 inches) X 70 mm (27.0 inches)
Length Of Exposed Mast: 400 mm (16.0 inches)
Float Size: 133 mm (5.25 inches) diameter X 216 mm (8.5 inches) long
Weight In Air: 8.0 kg (17.5 pounds)

Buoy Construction

Hull: Marine-grade aluminum
Flotation: Four, quarter-cylinder polystyrene floats

Operation Conditions

Air Temperature: -20° C to +35° C
Water Temperature: -2° C to +35° C
Water Type: Fresh or Salt
Significant Wave Height: 8.0 m / 26 ft
Wind Speed: 20 m/s / 40 knots
Wind Gusts: 30 m/s / 60 knots
External Humidity: 100% (external)
Sunlight: Direct Exposure
Operating Life: 3-12 months depending on sampling
Shelf Life: 24 months with storage conditions at ~21° C

Survival Conditions

Air Temperature: -30° C to 35° C
Water Temperature: -2° C to 35° C
Significant Wave Height: 12.0 m / 40 ft
Wind Speed (at 10m): 35 m/s / 70 knots

Electronics

Iridium Transceiver: 9602 SBD
Antenna: Low Profile Dual Band Iridium/GPS
OR
Argos PTT: MetOcean Model MAT 906
Power Supply: 10 Alkaline-manganese dioxide D-cells

Sensors

Sea Surface Temperature: US Sensor ±.05° C Thermistor
Battery Voltage: Precision Resistive Divider
GPS Receiver: Jupiter F2

Deployment

Deployment: Vessel



Data collection and communication experts

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