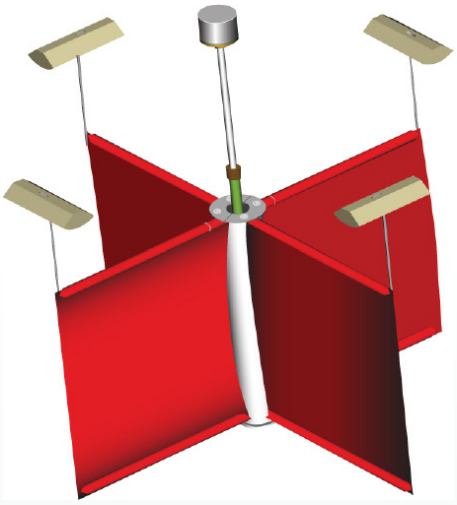
CODE/DAVIS

- Reliable bi-directional communication
- Rugged and innovative design
- Surface current tracker

METOCEAN SYSTEMS

The 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 CODE/DAVIS drifter is an inexpensive solution to acquire coastal and esturarian water currents within a meter of the water surface.

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



metOcean telematics

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CODE/DAVIS

TECHNICAL SPECIFICATIONS

PHYSICAL

- Prior to Deployment:

Packaged Length: 1016 mm (40 inches)
Diameter: 203.2 mm (8 inches)
Weight: 10.8 kg (23.5 lbs)

- Deployed Surface Unit:

Hull Diameter: 102 mm (4 inches)
Total Height: 1400 mm (55.1 inches)
Total Cross-section Width: 1090 mm 43 inches)
Drogue Vane: 50 mm (19.6 in.) X 70 mm (27.0 in.)
Length Of Exposed Mast: 400 mm (16.0 inches)
Float Size: 133 mm (5.25 in.) wide, 216 mm (8.5 in.) long
Mass in Air: 8 kg (17.5 lbs)

CONSTRUCTION

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

OPERATION CONDITIONS

Air Temperature	-20°C to +35°C (-4°F to +95°F)
Water Temperature	-2°C to 35°C (-28°F to 95°F)
Water Type	Fresh or Salt
Significant Wave Height	8 m (26 ft)
Wind Speed	20 m/s (40 knots)
Wind Gusts	30 m/s (60 knots)
External Humidity	100%
Sunlight	Direct exposure
Operating Life	3-12 months depending on sampling

SURVIVAL CONDITIONS

Air Temperature	-30°C to 35°C (-22°F to 95°F)
Water Temperature	-2°C to 35°C (-28°F to 95°F)
Significant Wave Height	12 m (40 ft)
Wind Speed	35 m/s (70 knots)
Shelf Life	24 months with storage conditions at ~21° C

ELECTRONICS

- Option 1:
  Iridium Transceiver: 9602 SBD
  Antenna: Low profile dual band, Iridium/GPS
- Option 2:
  Argos PTT: MetOcean Model MAT 906
- Power Supply: 10 alkaline-manganese dioxide AA cells

SENSORS

Sea Surface Temperature	US sensor ±.05°C thermistor
Battery Voltage	Precision resistive divider
GPS Receiver	Jupiter F2

DEPLOYMENT

Deployment Options	Vessel

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