

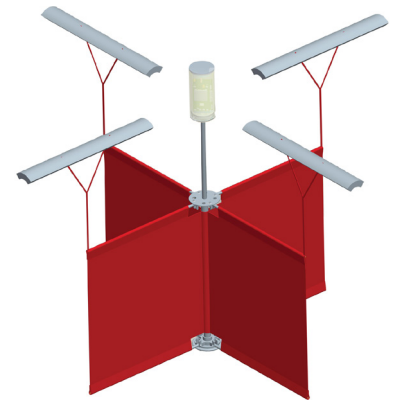


iSLDMB NAVAL SYSTEM



The MetOcean Telematics Iridium Self-locating Datum Marker Buoy (iSLDMB) is an innovative, rugged, and compact NATO A-size Search and Rescue Buoy. The iSLDMB was designed and tested to meet the stringent performance requirements of coastguards for Search and Rescue (SAR) operations in the open ocean. Deployed to ground-truth open ocean current prediction and patterns, inevitably reducing search and rescue time to save lives.

TECHNICAL SPECIFICATIONS	
OPERATION CONDITIONS	<ul style="list-style-type: none"> • 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 at 10°C: Minimum 15 days • Shelf Life: 36 months with storage conditions at ~20°C
SURVIVAL CONDITIONS	<ul style="list-style-type: none"> • 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 (68 knots)
ELECTRONICS	<ul style="list-style-type: none"> • Controller: GEN II • Iridium Transceiver: 9602 SBD • Antenna: Low profile dual band Iridium / GPS • Power Supply: 10 alkaline-manganese dioxide AA cells. FAT variation 12X
SENSOR	<ul style="list-style-type: none"> • Sea Surface Temperature: US sensor $\pm 0.05^\circ\text{C}$ • Battery Voltage: Precision resistive divider • GPS Receiver: Navman Jupiter 32 • Air Temp: US Sensor $\pm 0.05^\circ\text{C}$ • Strobe: 2NM visibility, 60 flashes per min.
AIR DEPLOYMENT PARAMETERS	<ul style="list-style-type: none"> • Rotary Wing Aircraft: 100 – 10,000 ft • Fixed Wing Aircraft: 120 to 220 KIAS: 200 – 10,000 ft
OPERATING PARAMETERS	<ul style="list-style-type: none"> • Rapid SAR Mode: The first 24 hours after deployment data sampled and transmitted every 10 minutes • Standard SAR Mode: The next 48 hours after deployment data sampled and transmitted every 30 minutes • Scientific Mode: Active until end of battery life
CERTIFICATIONS	<ul style="list-style-type: none"> • Form factor, ballistic coefficient, center of gravity (COG) and mass match NATO A-Size parameters of pre-existing certified sonobuoys.



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