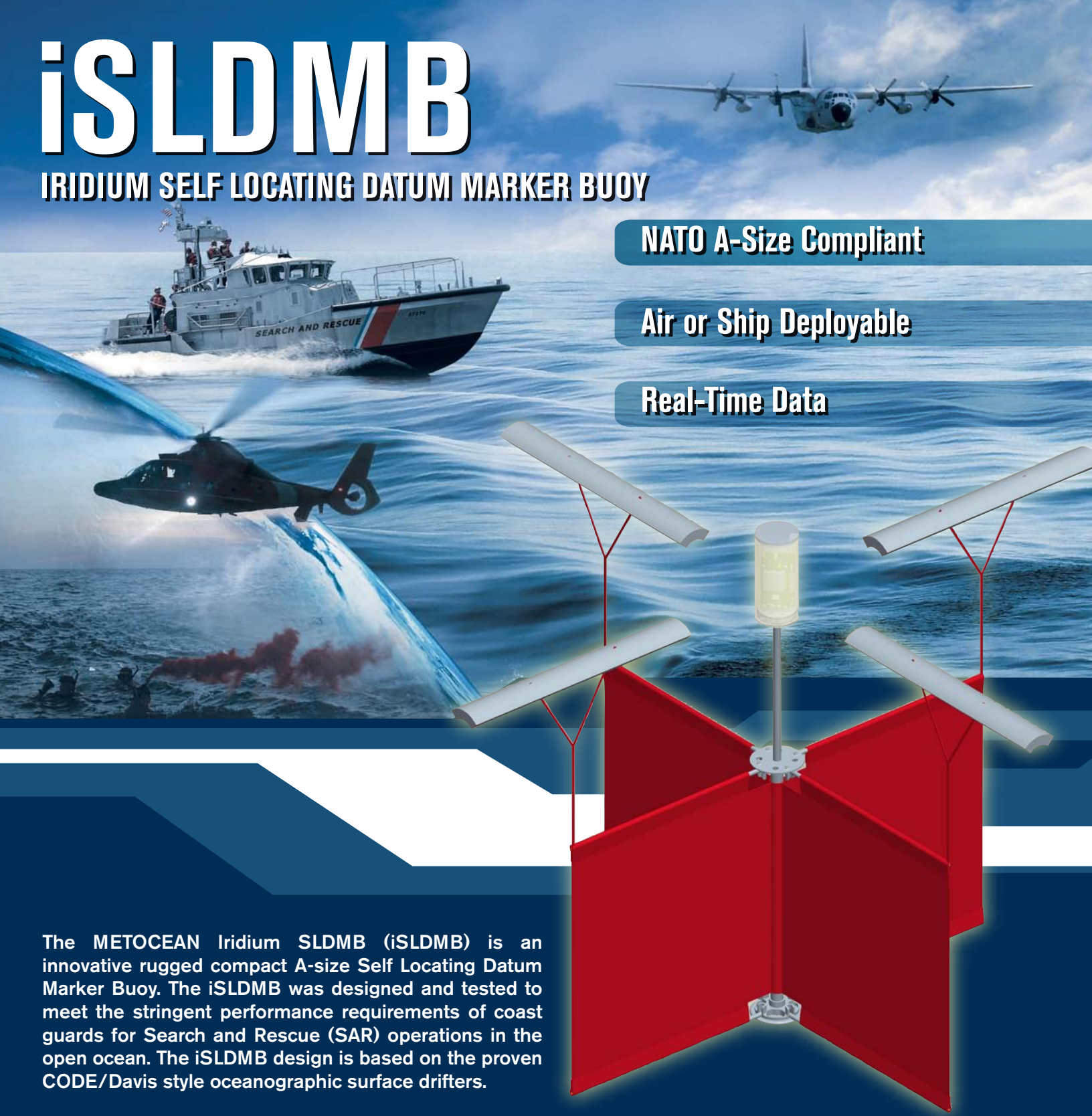
iSLDMB

IRIDIUM SELF LOCATING DATUM MARKER BUOY

NATO A-Size Compliant

Air or Ship Deployable

Real-Time Data



The METOCEAN Iridium SLDMB (iSLDMB) is an innovative rugged compact A-size Self Locating Datum Marker Buoy. The iSLDMB was designed and tested to meet the stringent performance requirements of coast guards for Search and Rescue (SAR) operations in the open ocean. The iSLDMB design is based on the proven CODE/Davis style oceanographic surface drifters.

The inexpensive expendable drifter is equipped with an Iridium bi-directional satellite transmitter, sea surface temperature sensor, and a GPS receiver. Due to the urgency of SAR situations, the iSLDMB is able to communicate critical data within real-time to the end-user. Robustly designed, the iSLDMB is air certified and can be deployed with ease from helicopters, ships, fixed wing and rotary wing aircraft. The drifter's operating life is between 15-120* days depending on the required data transmission rate.

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iSLDMB

IRIDIUM SELF LOCATING DATUM MARKER BUOY

Technical Specifications

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%
Sunlight:	Direct Exposure
Operating Life at 10°C:	Minimum 15 days
Shelf Life:	36 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:	35 m/s / 68 knots

Electronics

Controller:	GPT II
Iridium Transceiver:	9602 SBD
Antenna:	Low Profile Dual Band Iridium / GPS
Power Supply:	10 Alkaline-manganese Dioxide AA Cells

Sensors

Sea Surface Temperature:	US Sensor ±.05°C Thermistor
Battery Voltage:	Precision Resistive Divider
GPS Receiver:	Navman Jupiter 32

Deployment

Deployment Options:	Vessel Rotary wing aircraft Fixed wing aircraft

Certifications

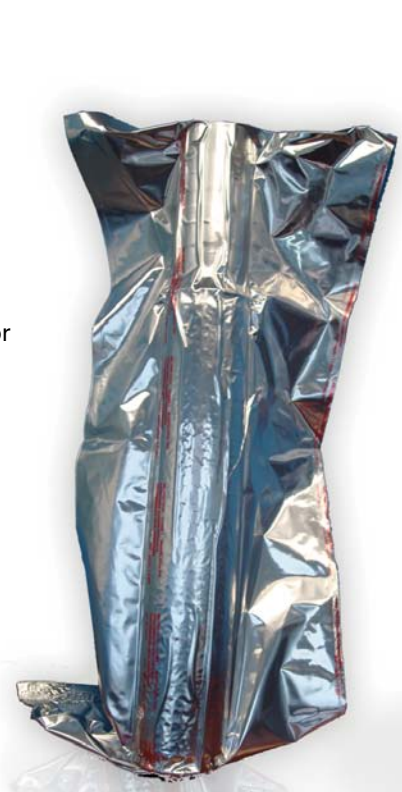
Form factor, ballistic coefficient, center of gravity (COG) and mass match NATO A-Size parameters of pre-existing certified sonobuoys.

Air Deployment Parameters

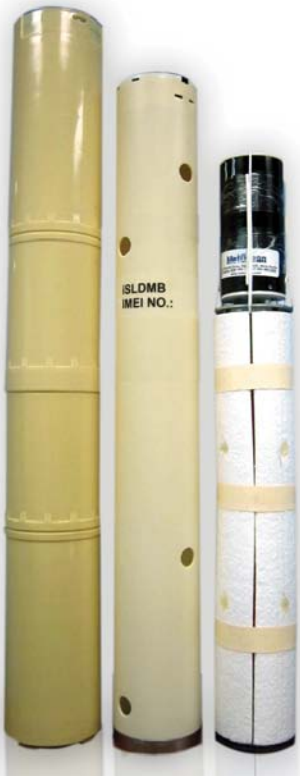
Rotary Wing Aircraft:	Hover: 25 – 10,000 ft 70 to 90 KIAS: 100 – 10,000 ft
Fixed Wing Aircraft:	120 to 220 KIAS: 200 – 10,000 ft

Operating Parameters

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



Vessel deployment configuration



Air deployment configuration

MetOcean

Data collection and communication experts

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