



The leading **designer** and manufacturer of

**surface
drifters**

ClearSat SLDMB GEN III



ClearSat-SLDMB-II is small light and robust.

Efficient marine operations demand accurate information on surface currents present in the area of interest. This is especially critical in planning and coordinating an effective response to a marine emergency. The US Coast Guard has accepted Self Locating Datum Marker Buoy as a reliable tracker of surface currents that can be used independently or with operational surface current models to plan operations for search and rescue, or marine activities.

The ClearSat-SLDMB-III is the next generation Self Locating Datum Marker Buoy . It is smaller and lighter than previous SLDMBs. It has the added advantage of being identical in size and weight to an A-size

sonobuoy. Because it fits into the A-Size sonobuoy SLC, it can be transported, handled, and stored with the same pallets and racks used for the A-Size sonobuoy. New logistics are not required for this SLDMB. And it can be deployed from an A-size sonobuoy launcher found in most aircraft used in marine operations.

This SLDMB can be rapidly delivered the site of a potential operations by fixed or rotary-winged aircraft, and from vessels. It is electronically actuated on water entry. The self-deploying design of the ClearSat-SLDMB ensures it will be operational almost immediately after entering the water.

This GPS self-locating buoy accurately tracks the top layer of the ocean surface currents because the SLDMB is configured according to CODE (California Ocean Dynamic Experiment) design that minimizes velocity contamination caused by winds and waves acting on a surface drifter. GPS measured locations are reported every 10 minutes in near real-time by Iridium SBD messaging to permit rapid analysis and assimilation of *in situ* current conditions

Pictures to the right show sequence from air deployment.



Technical Specifications:

SLDMB Hull	7.6 cm diameter, 63.5 cm length. 5061 aluminum, black anodizing. Weight 3.4 Kg.
Drogue	.64 x .64 m cross-section, drogue center at 47 cm from surface. Rugged coated polypropylene.
Power supply	12 VDC 28 Ah alkaline battery pack. Long-lived, low temperature lithium battery pack is available (option).
RF Output:	5 Watts (max) into 50 Ohms. (Iridium 9602 L band 1616 - 16256.5 MHz through dual band antenna.
SST:	-5.0 to 45.0 +/- 0.1 C. 10-bit resolution with standard calibration: Extended low temperature range for ice monitoring.
GPS	Latitude, longitude +/- 0.000001 deg. 10 min. GPS position reported first 24 hours on the mark.
Air deployment:	A-Size sonobuoy SLC.
Environmental	-50 to +50 storage, -5 to 45 C operation.

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For information about Argos data collection services (USA: clsamerica.com Non-US users: cls.fr)