

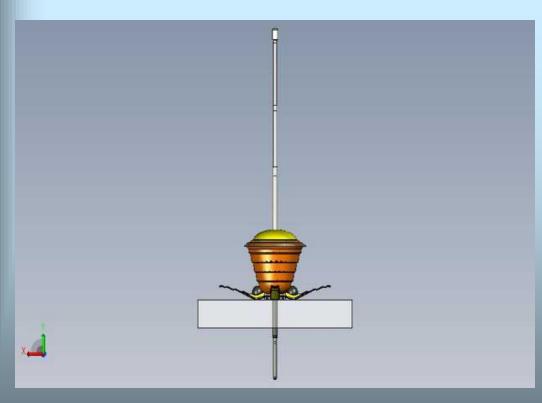
LINCOLN MARITIME



Airborne Expendable Ice Buoy (AXIB) for Polar Ice Zone Deployment



Air-Deployable Meteorological Buoy

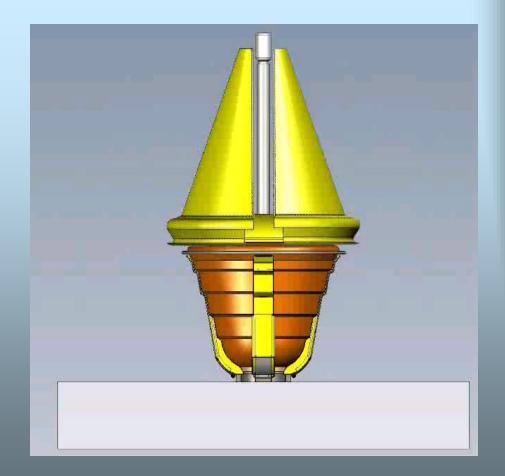


- Adaptable to ice or water
- Stays erect
- Withstands extreme weather
- Long life

LBI presents the

AXIB-PENGUIN TM





AXIB Principal Features

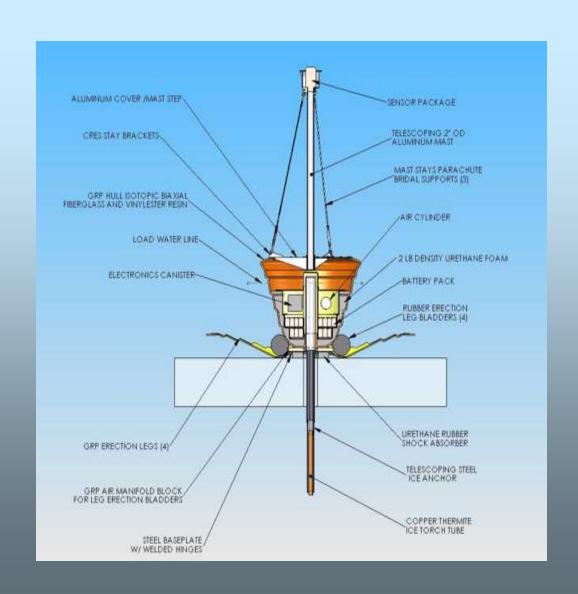
- Robust Hull Construction
- Sensor Mast
- Long life batteries (Lithium Thionyl Chloride)
- Legs to erect to vertical on ice
- Ice anchor



Erection Leg System



AXIB Fully Deployed



USCGC Healy Test

- Two AXIBs were installed by ship in Chukchi Sea during August '08 ice minimum
- One AXIB in water at edge of ice shelf
- One AXIB in multi-year ice



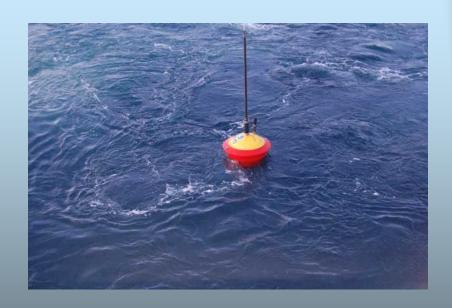
AXIB on Arctic Ice

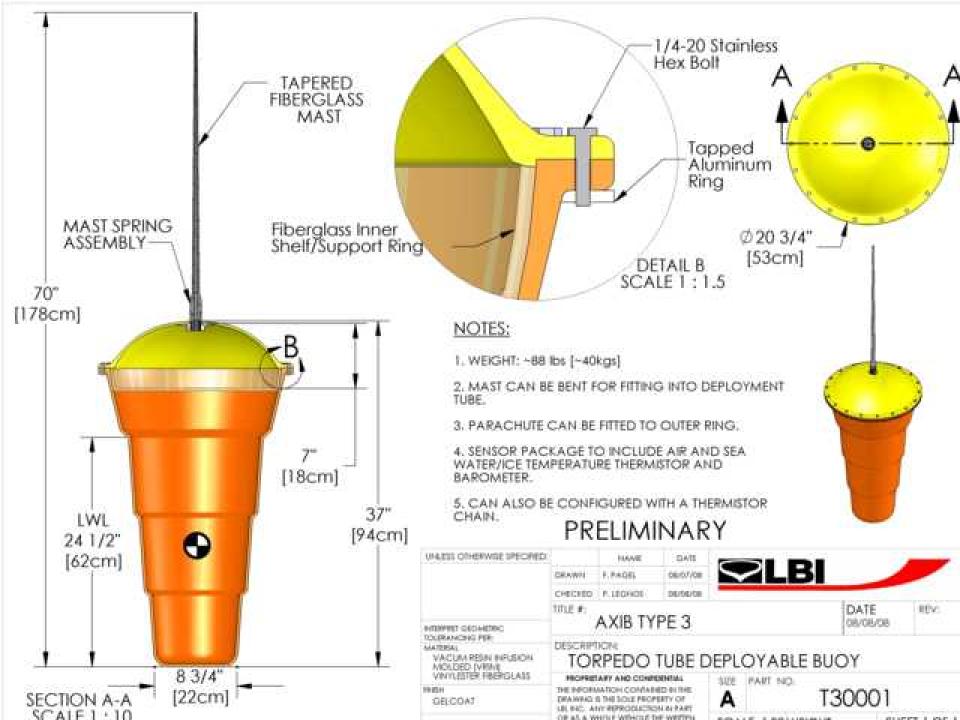
- Deployed from USCGC Healy in August '08
- Continuous operation of sensors and comms



AXIB in Arctic Water

- Effective operation while water-borne
- Sustained freeze-up during Winter '08-'09
- Continuous operation of sensors and comms
- Deployed overboard from ship





Persistent Arctic Multi-Sensor Buoy

- robust arctic
 meteorological platform
- ice-capable thermistor chain
- ice altimeter

