

Instrumental Oceanographic Buoy



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The Instrumental Oceanographic Buoy is designed to accommodate the use of many instruments in order to satisfy the oceanographic researcher's needs. These instruments, offered as an option, are grouped into three main categories:

Optical parameters

- Measurement of the light spectrum level in air and water (400 to 865 nm)
- Measurement of the concentration of colored biological matter dissolved in sea water

Meteorological parameters

- Wind direction and speed
- Atmospheric temperature and humidity
- Atmospheric pressure

Oceanographic parameters

- Water temperature
- Water salinity, density and conductivity
- Measurement of the water movement at many programmable depths

A software is designed to help the researcher read information from the buoy. This information is sent to a land station via UHF modem or satellite or a combination of UHF and Internet. The researcher can set at which interval he wants to receive information from the buoy.



A constant surveillance of the buoy is assured by the continuous check of the following parameters:

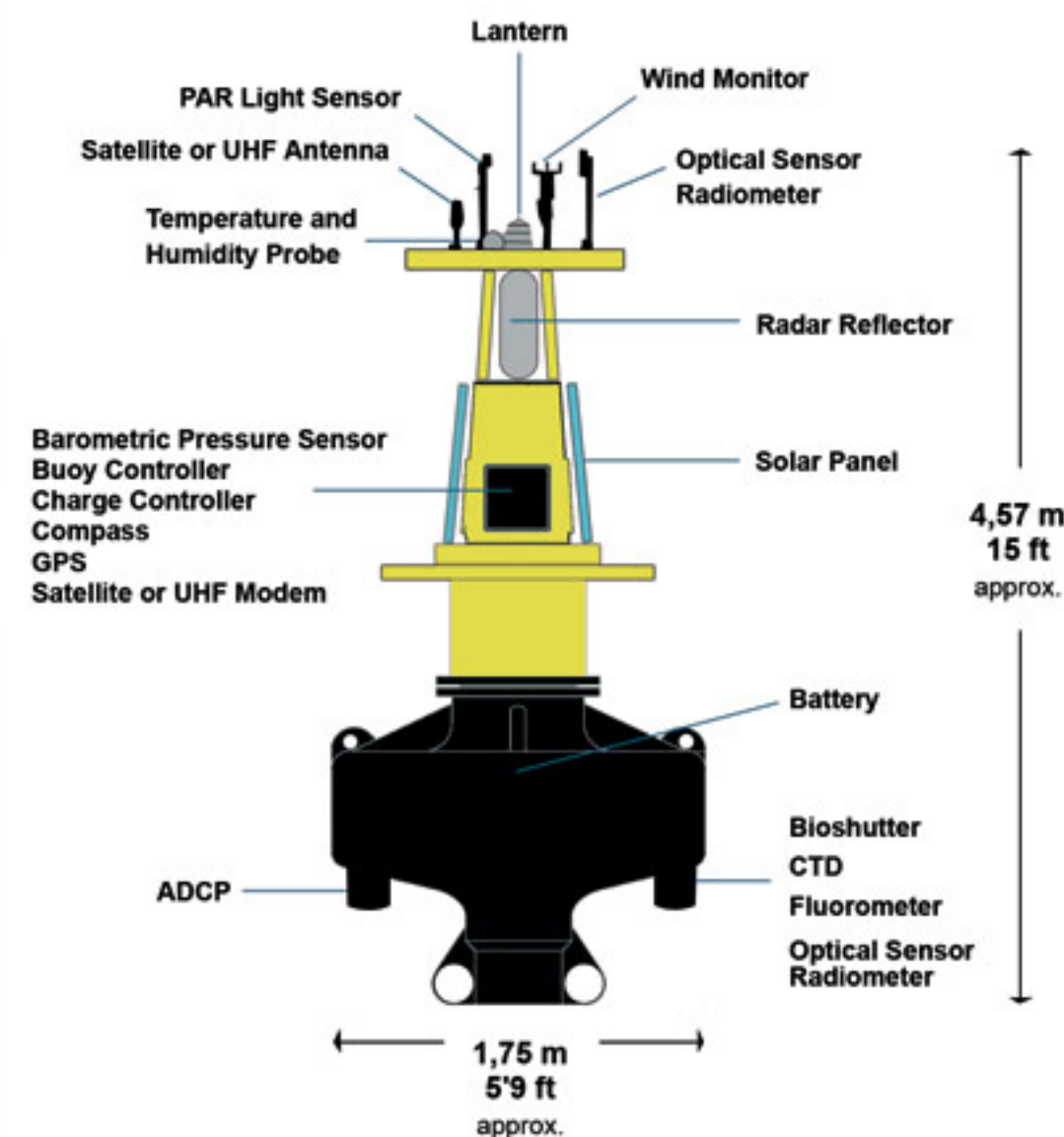
- Buoy position (via GPS)
- Pitch and roll
- Battery level

When the buoy modify its habits (moves away from his original point in spite of the anchor, low batteries), the software will inform the user.

You can see information received from a similar buoy on the St. Lawrence Observatory website :

<http://ogsl.ca/en/buoys/data.html>

You will find the information gathered by different buoys active on the St. Lawrence River.



MULTI ÉLECTRONIQUE

Multi-Électronique (MTE) Inc.

1, 8e Avenue
Rimouski (Québec) G5L 2L9
Canada

Tel: 418 724-5835
Fax: 418 722-4837

info@multi-electronique.com
www.multi-electronique.com

SYGIF INTERNATIONAL

Official distributor for
South America

Sygif International

120, Montée Industrielle-et-Commerciale,
Rimouski (Québec) G5M 1B1
Canada

Tel: 418 721-5353
Fax: 418 721-5356

contacto@sygif.qc.ca
www.sygif.qc.ca

MULTI ÉLECTRONIQUE

Developed in collaboration with:



Pêches et Océans
Canada

Fisheries and Oceans
Canada