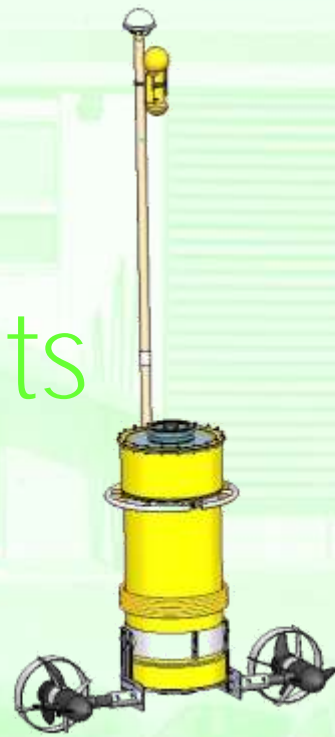


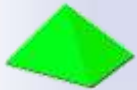
Acoustic underwater measurements



REPOSITIONABLE
BUOY

made

Electrical, Gas, and Safety



APPLICATION

This development has been a specific demand from the French General Delegation for Armament

This autonomous buoy is equipped with an engine and a GPS allowing to record acoustic traces listened in the area under surveillance.

It compensates the drift due to wind and current to stay on the defined point attributed.

Permanently, it records and transmits to the base the signal obtained by the on board hydrophone.

A UHF radio link allows to an operator based on earth to get the buoy status, and to control it.



TECHNICAL CHARACTERISTICS

Low frequency signal obtained :

Bandwidth of recorded signals : 100 Hz to 100 kHz

Input noise \leq noise of the sea 0 of Knudsen

Bandwidth of VHF transmitted signal : 100 Hz to 60 kHz

Recorded signal dynamics > 90 dB

Data and GPS settings storage autonomy : 4 hours

Electric autonomy :

Buoy & GPS electronics : 8 hours

Engine energy : 4 + 4 hours

VHF signal transmission low frequ. : 4 hours

Command control : 8 hours

Motorization :

Two engines controlled by

a 12 V—360 W chopper

Powered by a 13,6 kg engine



UTILIZATION

Tomography

Oceanographic data


Passive surveillance : ambient noise, mammals

Environmental data : waves, winds

Position controlled underwater listening/surveillance network

Underwater mobile objects trajectory calculation

Telemetry

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