



WOODBUOY

An Eco-friendly Marine Platform

A sustainable solution
for data collection

WOODBUOY

Protecting Our Oceans

The ocean, covering 70% of the Earth's surface, is a vital and dynamic system. It sustains countless marine species and provides a critical source of protein for over one billion people. However, climate change and overexploitation are placing immense pressure on this fragile ecosystem, making the need for reliable, timely, and comprehensive ocean data more urgent than ever.

Drifting Buoys: A Window into Ocean Health

Drifting buoys play a key role in helping scientists map and monitor ocean conditions, assess climate change impacts, and provide early warnings for ocean-related natural disasters.



The Challenge: A New Wave of Marine Debris

Despite their invaluable contributions, all drifting buoys have a limited lifespan. Once they stop transmitting data, they often become marine debris, adding to the growing problem of pollution in our oceans.

WOODBUOY: An Eco-Friendly Alternative

In response to this challenge, EMS Sistemas and CLS Group have collaborated to develop the WOODBUOY. This innovative buoy design replaces almost all plastic components with sustainable wood, significantly reducing its environmental impact.



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Eco- friendly & easy to operate with a wooden hull, the WoodBuoy limits microplastic pollution at sea while remaining very small & light.
With its interchangeable battery, it will be able to transmit for up to 400 days

A VARIETY OF FEATURES AVAILABLE FOR YOUR NEEDS



PERSONALIZED ALERTS

Thanks to its GPS/Kinéis modem, a range of alerts are available to suit your needs via Argos Services such as sensor and battery level alerts



DEDICATED PORTAL

API and Web platform for data access and advanced tracking display (Winds, Currents, Sea Level Anomaly ...)



FIELD EQUIPMENT

100% compatible with the CLS goniometer/direct receiver, if you want to recover your WoodBuoy at sea



FIELD EQUIPMENT

Configure your WoodBuoy transmissions (Argos & GPS) via a dedicated app.

Check your transmissions, download your data and map your beacon positions from your mobile phone.

CLS

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With more than 6000 ocean devices tracked each month and nearly 40 years of leadership, CLS has always been a partner to the oceanographic community.

EMS Sistemas

EMS has a deep understanding of oceanographic instrumentation from over 30 years of providing solutions to the scientific community.

Redundant processing centers 24/7

30

Million messages processed per day

100,000

Platforms tracked worldwide



EMS SISTEMAS & CLS – PARTNERS OF CHOICE FOR THE OCEANOGRAPHIC COMMUNITY

EMS Sistemas and CLS Group have combined their experience to design a new, innovative and eco-responsible ARGOS/KINEIS tracker measuring just 15cm. Our aim was to meet a real need in the oceanographic community: to continue studying the ocean while limiting the deployment of plastic instruments.

EMS Sistemas has been building and deploying oceanographic platforms for scientists for more than 30 years.

CLS provides ocean data telemetry services for a broad spectrum of applications including ocean modeling, metocean platform monitoring, plastic tracking and more.

For almost 40 years, CLS has provided expert satellite services to the meteorological & oceanographic communities. CLS is therefore a key partner of all main international in-situ observation programs and coordinating bodies such as DBCP, Argo and GOOS.

Through a number of partnerships, CLS has built strong historical collaborations with hundreds of ocean institutes and research centers worldwide as well as being a key partner of Space agencies involved in environmental monitoring.

