

CLS, FOR MARINE PROTECTED AREAS

ECOSYSTEMS

Protecting habitats, understanding population dynamics, monitoring and predicting key phenomenon (Sargassums), are important to the management of MPA. CLS provides modelling and forecasting services to support ecosystem protection and manage interactions between fisheries and marine wildlife.

HUMAN ACTIVITIES

Finding a balance between conservation of marine ecosystems and human activities is a key challenge for MPA managers. From fisheries management to illegal fishing activities, maritime transportation, pollution (plastic debris, chemical, oil) and tourism, CLS provides a range of monitoring, control and surveillance solutions to ensure remote and cost-effective monitoring of key areas of interest.

MARINE BIODIVERSITY

Implementing a Marine Protected Area requires good knowledge about behavior, abundance, interactions, migration corridors and repartition of species within a specific zone. CLS helps advise, set up and support scientists during their Argos animal tracking project and can provide a range of services on biodiversity from habitat modeling to soundscaping and analysis for all phases of the MPA life cycle.

MARINE ENVIRONMENT & CHANGES

Constant monitoring and reporting of the physical health of the ocean is crucial. From currents, temperature, sea level to biomass and micronekton content, CLS can provide a range of in-situ and satellite-based observations as well as expertise to contribute to reporting and studies of marine environment.

MULTI-SOURCE DATA

SATELLITE TRACKING (ARGOS - AIS - IRRIDIUM) • ACOUSTIC SOUNDING • LIGHT BASED GEOLOCATION • SATELLITE EARTH OBSERVATION DATA (RADAR, OPTIC AND INFRA RED) • IN-SITU DATA

MODELING

FLOATSUM DRIFTING • POPULATION DYNAMICS • SIMULATIONS • IMPACT ASSESSMENTS

DECISION MAKING TOOLS

DATA VISUALISATION SOFTWARE • ANALYTICS • BIG DATA PROCESSING • PLATFORMS



OUR 24/7 OPERATIONAL DATA CENTER IN TOULOUSE, FRANCE.

30+ YEARS OF EXPERIENCE

PROTECTING AND CONSERVING MARINE BIODIVERSITY

Implementing or managing a Marine Protected Area is a monumental task that requires an interdisciplinary, inter-agency and sometimes international approach, as well as reliable scientific data and observations. CLS, a subsidiary of CNES, ARDIAN & IFREMER is a worldwide company and pioneer provider of satellite-based data and monitoring solutions. Since 1986, our mission is to work with our clients to understand and protect our planet, and to manage its resources sustainably.

As exclusive operator of the Argos satellite system, CLS has worked hand-in-hand with scientists, governments and international organizations to protect and conserve marine ecosystems/biodiversity via wildlife tracking and monitoring projects. CLS has also worked actively with fishermen and fisheries administrations to develop and implement Vessel Monitoring Systems (VMS) & catch reporting solutions to monitor and control fisheries and manage them sustainably. In parallel, our team of 100+ in-house oceanographers works daily to characterize and understand the global oceans.

From the implementation phase, to daily management, monitoring, and long-term evaluation, CLS's interdisciplinary expertise can be mobilized in support of Marine Protected Areas.

REQUEST A QUOTE: ARGOS-SCIENCE@CLS.FR



CLS

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KEY FACTS



+5 %
OF WORLD'S OCEANS
ARE PROTECTED IN MPAS



8 000
ANIMALS
TRACKED BY ARGOS EVERY MONTH



1 800
MARINE ANIMALS
TRACKED BY ARGOS EVERY MONTH



100 000+
ANIMALS
TRACKED BY ARGOS SINCE 1986



60+
COUNTRIES
RELY ON CLS SOLUTIONS
FOR FISHERIES MANAGEMENT



130
SATELLITES
EXPLOITED BY CLS FOR
THE PROTECTION OF OUR PLANET



150
PENGUINS
TRACKED WITH ARGOS BY CCAMLR ON
THE ANTARCTIC PENINSULA



100
ARGOS TAGS
DEPLOYED IN THE GALAPAGOS
MARINE RESERVE



SERVI
FORM
CLS SERVICES
FOR MARINE
PROTECTED AREAS
PA
AREAS