Blue-Cloud
Virtual Labs

The Wildlife Tracker for Oceans

The "Wildlife Tracker" is a cloud geo-framework dedicated to Marine Protected Areas (MPAs) management based on biologging and ocean satellite data. The platform offers a unique opportunity to overlay and enrich the movement tracks of wildlife over ecogeographical data layers such as Phytoplankton hot spots to observe in near real-time what may be influencing the animal activities and to spatially assess their meaningful habitats as MPAs.

Partners:

Wildlife Tracker
Real-time movement analytics

GALAPAGOS
whaleshark
PROJECT

Data sources through Blue-Cloud:
The Global ocean three-dimensional (3D) key phytoplankton product of chlorophyll-a (Chla) concentration, as a proxy for total phytoplankton biomass from Vlabs.

Main target users:
Marine scientists dedicated to MPAs and conservation efforts

Services introduction:
The Wildlife Tracker has diversified its activities and it can offer real-time wildlife monitoring based on alert system, web map gallery creation, and biologging data enrichment with satellite data. As a cloud-based platform the service is done by monthly/yearly subscription and we offer cooperation to non-profit foundations based on blue economy model.

UN SDGs addressed

14 LIFE BELOW WATER

SERVICES

Real-time alerts
Once the biologging data is connected to our database and the Wildlife Tracker is retrieving real-time data the alert system is connected. Alerts are customisable e.g. individuals out of MPAs, on land, or in high fishing pressure zone. Alerts are received via mobile.

Customisable visualisation
Wildlife Tracker enables users to customise the visualisation based on selected individuals and selected satellite data. The map animation can be downloaded as a web map that can be uploaded to our website and a web map gallery is created for specific purposes.

Environmental eco-annotation
The new enrichment algorithm annotates each location and date with historic spatio-temporal data generated from remote sensors. This product help scientists to understand wildlife behavior and support ecosystem modelling for MPAs management.

"Thanks to the development of geospatial technologies the "Wildlife Tracker" has discovered innovative ways for wildlife monitoring and MPAs assessment. Our vision is to cover extensively species in MPAs and understand via satellites how marine wildlife inhabits closely with human activities. The main goal is to provide protection to marine wildlife that might be undiscovered and affected by industrial activities and support the MPAs creation and management in nearly real-time."

BRYAN R VALLEJO
CEO at GIS4 Wildlife Movement Analytics

Test the VLab now!

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