Olrac

ELECTRONIC LOGBOOK SOLUTIONS

A sophisticated & affordable software tool for the recording, reporting and management of ALL marine & vessel-based activities, currently used by hundreds of vessels around the world.

DEVELOPED BY

OLRAC SPS

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OLRAC DYNAMIC DATA LOGGER

Olrac DDL is an on-board, touchscreen ready, Windows-based software solution for the recording and reporting of commercial fishing data.

The software can record ANY type of data (real time/post event) using various data entry tools (lists, numbers, text, images, videos).

Included is a GIS-based mapping solution for vessel tracking and spatial representations as well as an integrated device-logging utility which can connect to GPS, VMS, automatic scales and measurement boards amongst others.

The software is infinitely customisable to any fishery/fishing method. It complies with any commercial or statutory data collection and reporting requirements and is compatible with all leading on-board satellite and cellular modems and most VMS makes.

Olrac DDL allows for the automatic synchronisation of data and configuration tables between shore and vessel units, and has built-in data auditing, validation, authentication and numerous other value-add utilities.

Reporting and mailing solutions are fully integrated and reports can be distributed in ANY format.

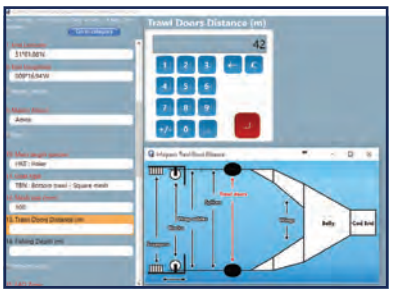
CONTACT OLRAC SPS

OLRAC DDL MAIN
USER INTERFACE

PREDEFINED LOOKUP
VALUES

CPUE DENSITY MAP

DATA ENTRY BY IMAGE



DATA ENTRY
WITH INFOGRAM

CATCH AND SIZE
STRUCTURE TABLE

Please contact us to find out more about the Olrac suite of software solutions:
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OLRAC DYNAMIC DATA MANAGER

Olrac DDM is a web-based data and reports management system (for use alongside Olrac DDL and other 3rd-party eLogs).

It reads data and reports from any number of vessels and provides spatial representations of data and vessel activities (via 'OpenLayers and Google Maps).

Olrac DDM is secured via multiple access levels (browsing, editing, admin) and can distribute reports in ANY format, with automatic verification and validation of data and reports.

Like Olrac DDL, it is infinitely customisable and currently used globally by companies, fleets, sector managers and national fisheries of various sizes.

OLRAC DDM MAIN DASHBOARD

GRAPHIC MANAGER

EXPLORER

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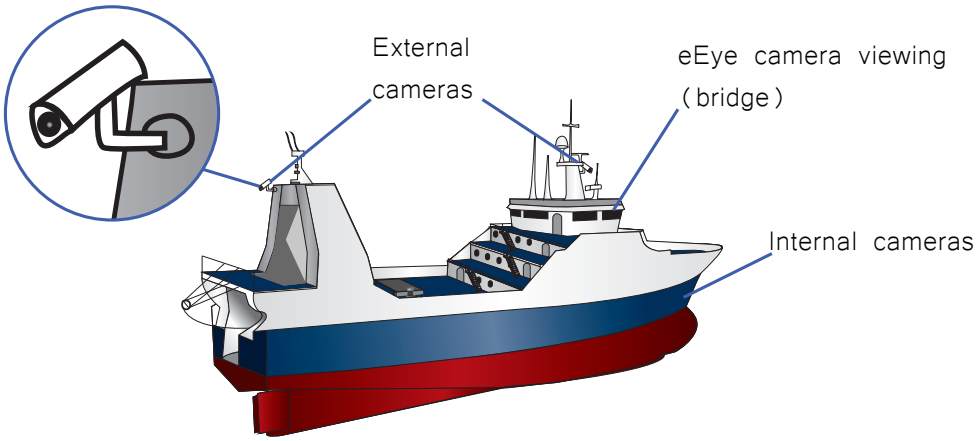
OLRAC ELECTRONIC MONITORING

The Olrac software, combined with eEye camera technology developed by Marine Instruments Pty Ltd, provides a complete, on-board monitoring and auditing solution as an alternative to on-board observers.

The solution provides a fully integrated Electronic Monitoring & Reporting (EMR) system, which links interval images taken by eEye directly to Olrac DDL's data entry tool.

This allows for timely and accurate visual auditing of critical events during a fishing operation. The solution is linked to a GPS and can use any on-board transmission system to send reports.

OLRAC DDL EMR MANAGER



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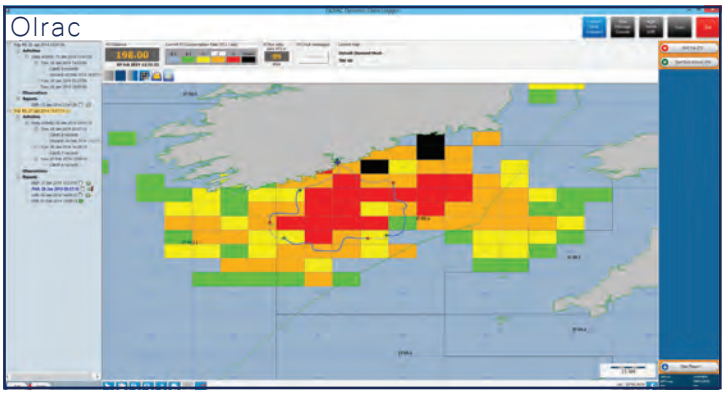
CASE STUDIES

REAL TIME INCENTIVES

OLRAC SPS, alongside a group of scientists, has developed a system that integrates mixed fishery targets with ecosystem objectives into a single "currency" for fisheries management.

Fishers are thus allocated fishing impact credits (RTI's) to spend according to spatio-temporally varying tariffs, replacing the conventional landings quota.



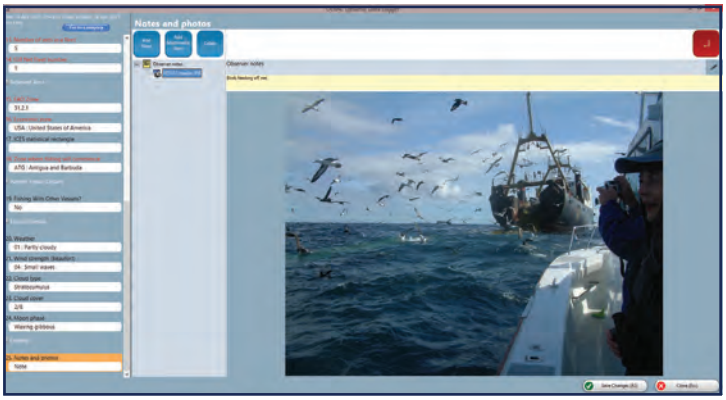
OLRAC RTI TARIFF MAP

MARINE BIRD PROTECTION

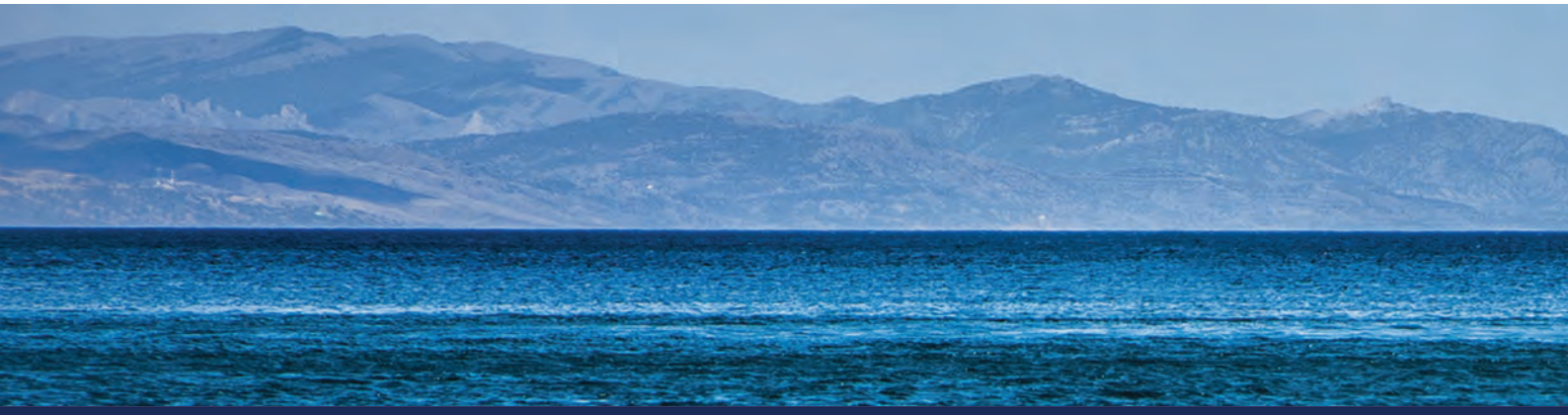
The accidental bycatch of seabirds by fishing vessels has significantly damaged seabird populations.

The Albatross Task Force (ATF) commissioned Olrac SPS to customise Olrac DDL for the purposes of capturing all data required by their observation team so as to determine which fishery practices can be improved to mitigate seabird mortality.

Since 2006, the ATF, with the help of Olrac DDL, has managed to reduce seabird mortality by 95%.



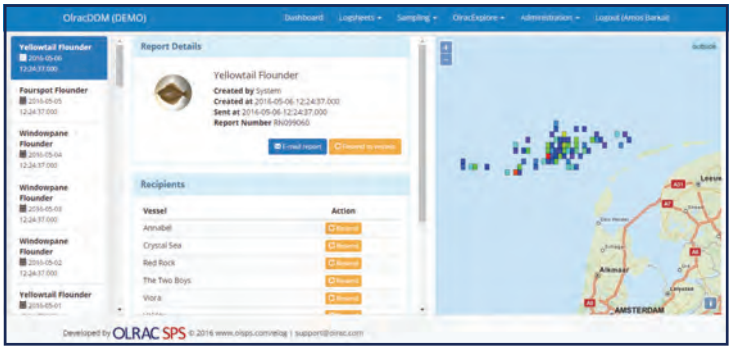
OLRAC DDL MULTINOTE WITH IMAGE



BYCATCH AVOIDANCE

The Northeast USE Scallop Fleet needed to redirect their effort to areas where bycatch of yellowtail flounders (a choke species) was minimal.

To achieve this, a pilot project was launched and successfully executed whereby vessels used Olrac DDL to record all incidences of flounder bycatch and send reports thereon to Olrac DDM. Olrac DDM then calculated the distribution of the fleet bycatch CPUE and sent high, medium and low bycatch density maps back to the fleet vessels.

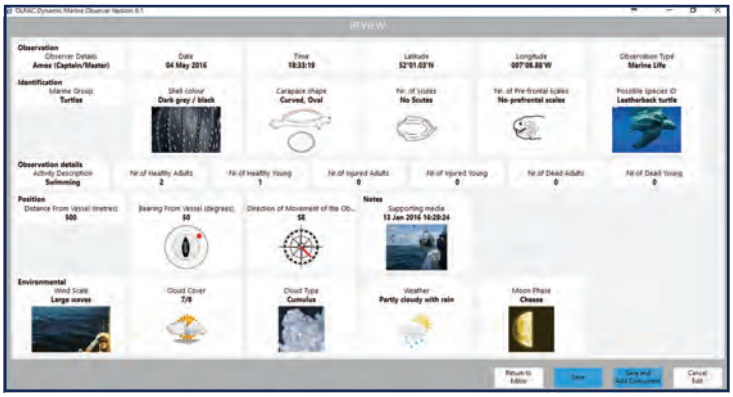


OLRAC DDM BYCATCH MANAGER

OLRAC MARINE OBSERVER

Every day, countless numbers of vessels of every shape, form and function roam the oceans. The collective data-gathering potential of these vessels is gargantuan. Our vision is that each one of these vessels become a data collection platform, relying predominantly on localised observation data, collected on a ground-roots level from several individual sources while at sea.

To realise this vision, OLRAC SPS has developed a generic, easy-to-use yet sophisticated, data collection platform for use by any incidental marine observer.



OLRAC OBSERVER OVERVIEW SCREEN

OLRAC SPS was founded in 1989 by Drs Amos Barkai & Mike Bergh to provide support for the South African and international fishing industries. The business has since grown to become a market-leading data specialist with expertise in software development, analytical consulting and technical data analysis.

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