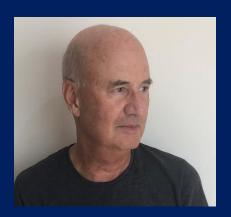


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OLRAC: Bycatch Avoidance Software Solution for the USA Northeast Atlantic Scallop Fisheries



Presented by: Dr Amos Barkai





USA North East Atlantic Sea Scallop Fisheries

Mixed Species Fisheries

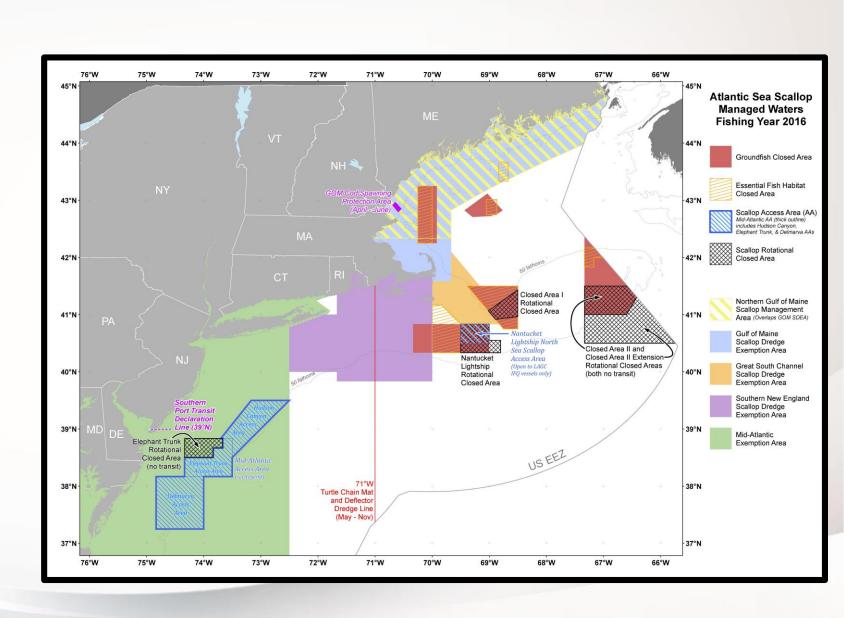
Limited access to rotationally closed areas



Main Fishery - Scallop



Main Bycatch — Yellow Tail www.olsps.com Flounder





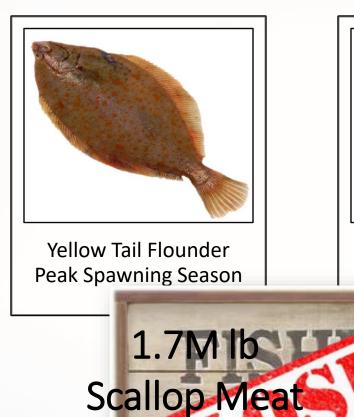
The Problem



Annual

Growth Period

Loss?











Initial intention: To make use of onboard observers in order to mark high Yellow tail Flunder bycatch areas and to warn fishers to avoid them. However, this method was found to be:



Slow to obtain and report bycatch data

Slow to digitise and prepare Data for Further Analysis

Bycatch distribution data were not available in real time and yellow tail flounder was fished out in great quantities



Alternative Approach

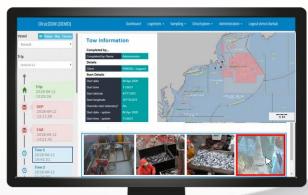
CFARM (the scallop fishery scientific consulting group) contracted OLSPS (www.olsps.com), to customize its Olrac Commercial Fishing eLog, to provide it with a real-time bycatch avoidance solution.

The Olrac Commercial Fishing eLog

OlracDDL VESSEL UNIT



OlracDDM SHORE UNIT

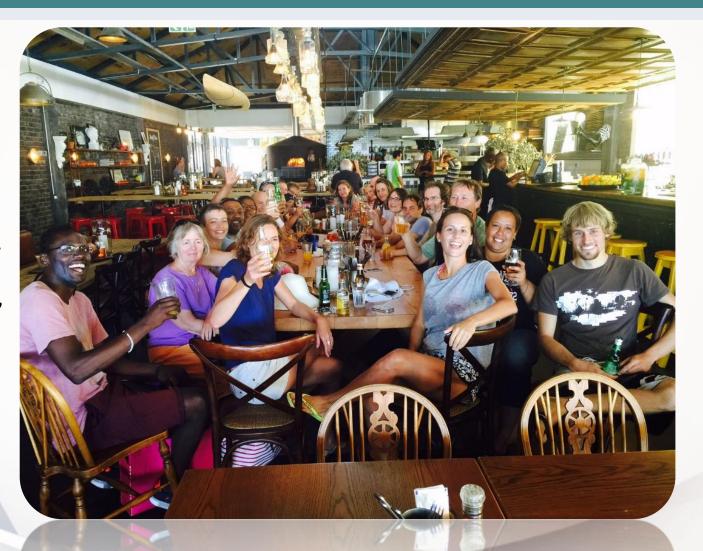




OLSPS TEAM

40 friendly staff members

highly skilled technical team of 33 data scientists, mathematicians and software engineers



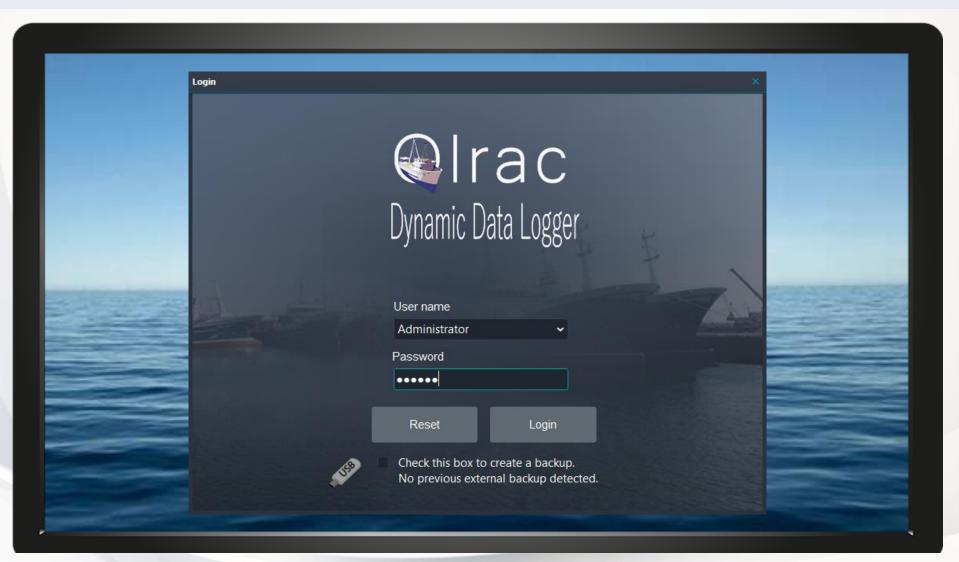
over 250 years of collective experience

Qualifications
include: 4 PhDs, 8
masters degrees,
other graduates
including a number
of engineering and
honours degrees

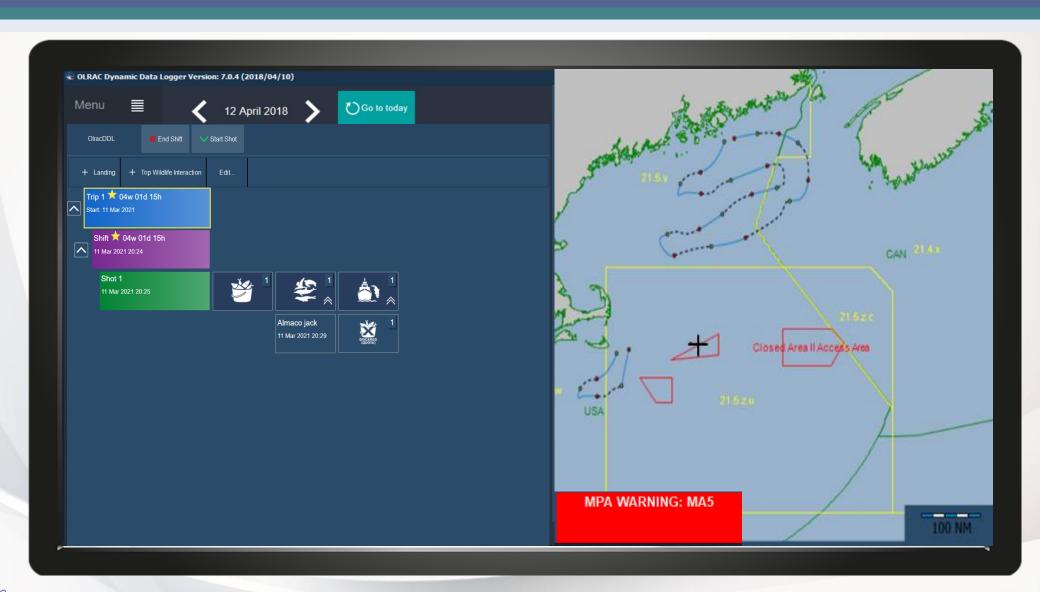
The Olrac Electronic Reporting System Overview



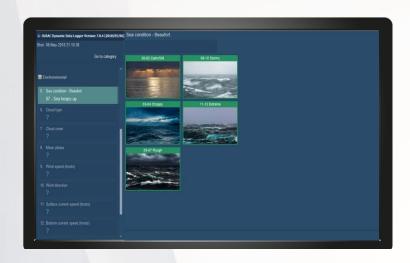
Vessel Unit Overview



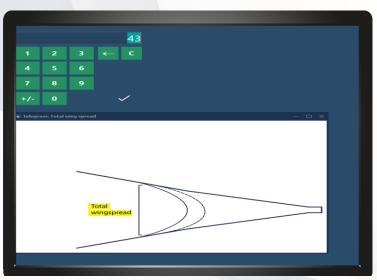
Dashboard With GIS (Mapper) View



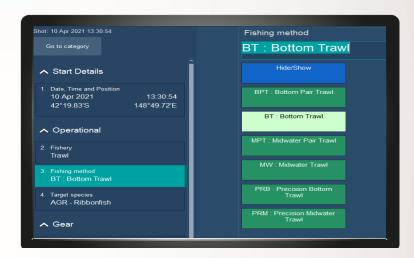
OlracDDL Data Entry Options







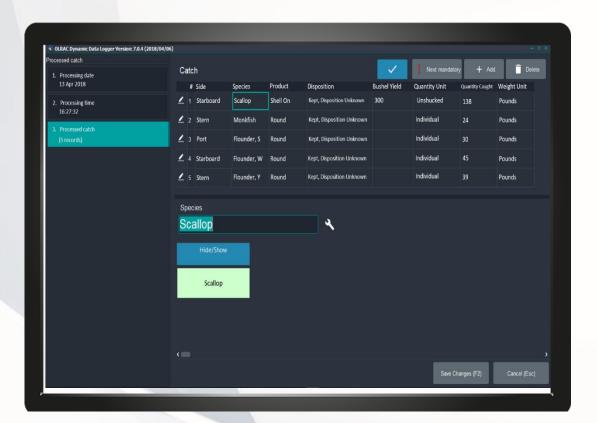






Added value utilities

Automatic Onboard Stock Calculator

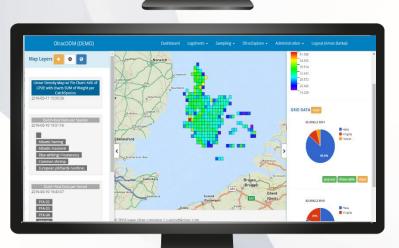


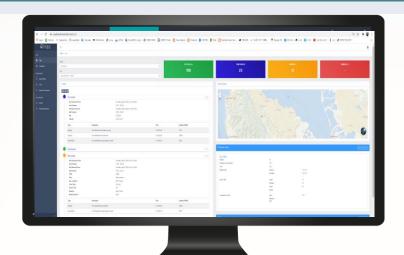
GIS-Based Data Analyser



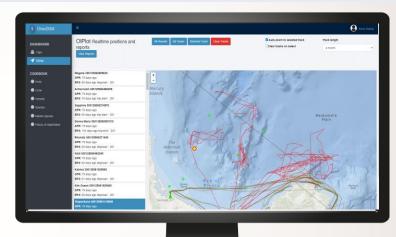
OlracDDM: Web-Based Shore Unit











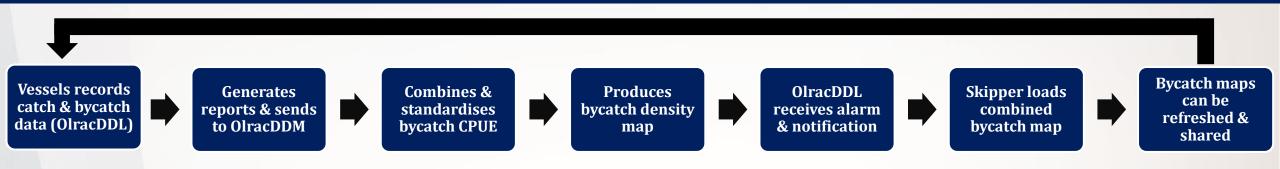


The Olrac Electronic Logbook Solution



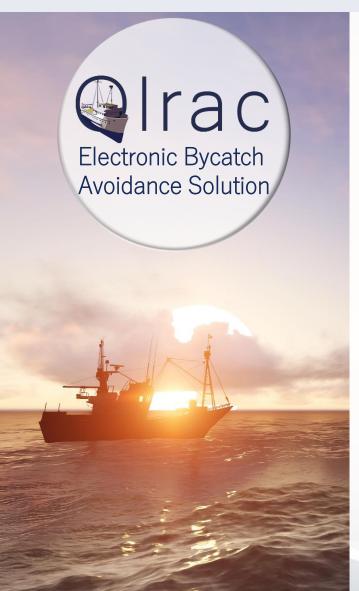


The Olrac Bycatch Avoidance Application





Advantages Of The Olrac Electronic Bycatch Avoidance Solution



- Enhance fishing efficiencies:
 - Vessel bycatch can be shared amongst fleet
 - Scallop hotspots are NOT shared amongst fleet to maintain confidentiality
- Money saved by:
 - Directing vessels away from high bycatch areas
 - Saves steaming time
 - Reduces unproductive fishing effort
 - Prevents choke species from prematurely closing fishing season

eVTR (eCompliance) Certified And Ready



Olrac vs. Observers?



In addition to the real time issue presented above, cost saving alone is huge!



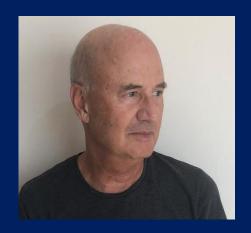
Conclusion

- Successful deployment and integration of Olrac bycatch avoidance solution within the limited access scallop fishery.
- Olrac solution successfully identified and communicated areas of high bycatch rates to 15 participating scallop fishing vessels.
- System allows for transparency not currently available within the government-controlled system





Thank you! I will now answer any questions



For further information on Olrac Solutions
Please visit www.olsps.com
Contact me at amos@olsps.com



Reduce bycatch and increase catch yield