

IMPLEMENTATION OF SPACE-TIME DATABASE BETWEEN ENVIRONMENT AND FISHERIES ON A DAILY BASIS

Petit, M., Bernardet, X., Poisson, F., Tessier, E., and Rene, F.

*IFREMER Délégation de La Réunion
B P 60
Le Port Cedex 97822
Reunion*

ABSTRACT

In order to prepare for the implementation of the future regional longline database (COI) in a more dynamic and didactic manner, while taking into consideration the spatial and temporal series, the creation of an animated product in which eight months of daily SST charts (between 5°N and 40°S and 35°E and 80°E) and swordfish and albacore longline catch data are superimposed, has been reported by ORSTOM-IFREMER La Réunion.

This future database, managed by a geographical information system (GIS), should integrate several types of supplementary data about oceanographic parameters (vorticity, wind stress, sea colour) and fishing statistics (CPUE, effort for important species, and bycatch).

The combined information from these different data strata will highlight the possible correlations between catch and environment. This tool will be used in decision-making for the longline fishery and a general understanding of the dynamic relationship between pelagic resources and their environment.