Tropical Fish Forecasting System (TroFFS)

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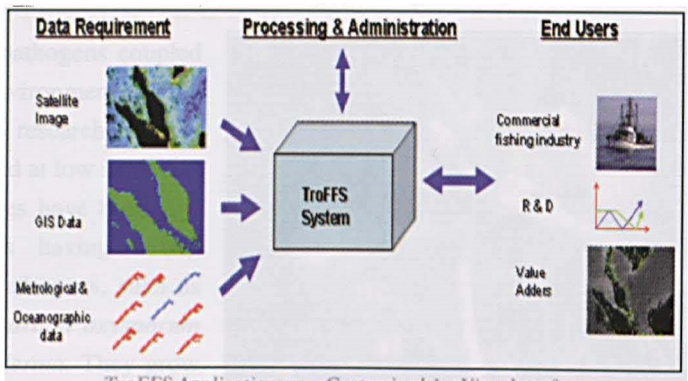
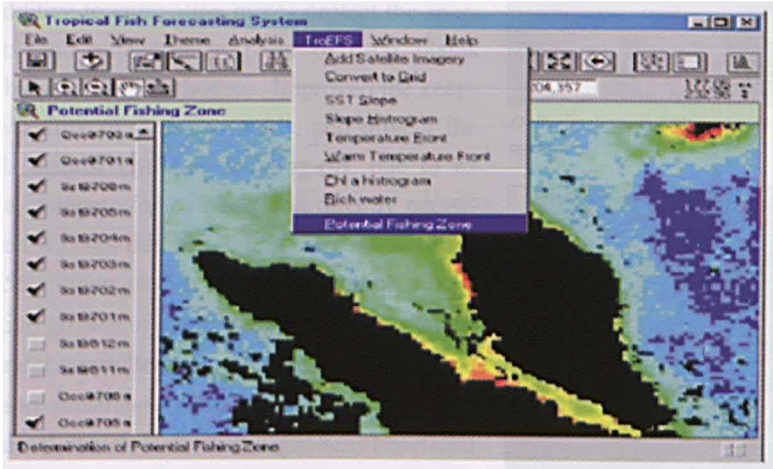


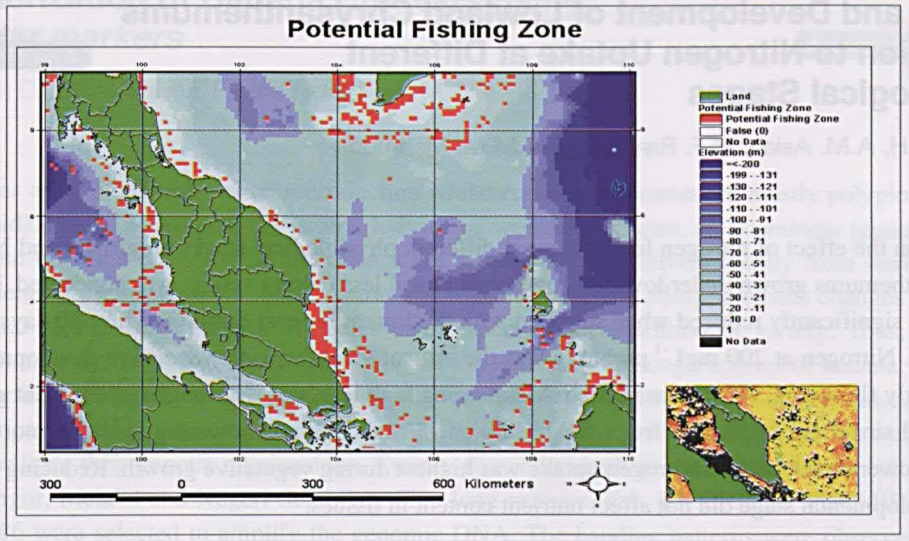
TroFFS Application on a Customized ArcView Interface

The extensive commercial fishing interest in the South China seas has necessitated the development of this Tropical Fish Forecasting System (TroFFS). Increasingly there has been a need for a sustainable planning and management approach not only to check the depletion of fish stocks but also to help the fishing industry forecast potential fishing areas.

TroFFS combine cutting edge spatial information technology using advance GIS modelling and remote sensing (RS) image classification techniques on a customized GIS ArcView platform. The system is designed to processes near-real time satellite imagery (raster) of oceanographic and metrological data and GIS data (vector). It has a carefully calibrated fish forecasting model and other parameters/ indicators that are sensitive to the identification of sea surface temperature (SST), chlorophyll-a, upwelling areas to mention a few. Through this advanced GIS and RS spatial modelling techniques, maps of the potential fish abundant areas in the South China Sea are developed.



The Maps of Potential Fishing Zone Generated by TroFFS



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This system promises remarkable improvement in the monitoring, management and exploitation of fish in the South China Sea. Where as in the past energy, time and huge costs were spent in extensive search for fertile fishing grounds; with the application of TroFFS maps of potential fishing zone can be generated, thus reducing time and costs on extensive sea search. Different monitoring and management scenarios can also be generated for evaluation.

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