Revealing insights to optimize your surveillance operations

Illegal, Unregulated, and Unreported (IUU) fishing is one of the ocean’s great economic, social, and environmental threats. Marine Services at Radiant Solutions (MSRS) is offering an anti-IUU service based on our InsightExplorer software platform. The system ingests oceanographic data from a variety of sources, as well as data from Vessel Monitoring Systems (VMS) and Automatic Identification Systems (AIS). Using high resolution imagery along with area reduction capabilities, the InsightExplorer software identifies ideal fishing grounds to target potential instances of IUU fishing.

Benefits
- Narrow your search area utilizing Radiant Solution’s unique fishing activity prediction capabilities and exactEarth’s vessel behavior detection
- Get zone infringement alerts (EEZ’s, Marine Protected Area, etc.)
- High-resolution satellite images to get conclusive evidence on illegal activity
- Most accurate and comprehensive vessel movement and tracking
- Sea surface temperature sensor

InsightExplorer is a marine mapping program that allows users to display multiple layers of information and includes fish catch reporting capabilities. Information layers include:
- Ship movements using AIS (Both satellite and terrestrial) through our partners exactEarth
- Oceanographic data like plankton, temperatures, etc.
- Aggregation and distribution of catch data
- High-resolution satellite imagery
- VMS data
- Fishing buoy real-time tracking
- SAR Imagery
- Track fish catch information with Oceanographic conditions

InsightExplorer has built-in capability to display both satellite and terrestrial AIS data and can also integrate vessel positions from VMS. The combination of the best attributes of SAR (Synthetic Aperture Radar), AIS technologies, and satellite imagery in InsightExplorer combined with advanced behavioral analytics provides the most comprehensive view method for management authorities to monitor and manage all maritime activities within their area of jurisdiction.