





AUGUST - 2023

CANADA'S DVD PROGRAM AND CASE STUDIES ECUADOR



CANADA'S DVD PROGRAM AND CASES STUDIES ECUADOR



AGENDA









BACKGROUND

THREATS IN THE SOUTHEAST PACIFIC

Marquesas Islands (Fr. Polynesia)

COOK ISLANDS

POLYNESIA

· · · · Regional boundary

CENTER FOR

French Polynesia

NORTH EAST PACIFIC

PACIFIC OCEAN

Sala y Gómez (Chile)

Easter Island (Chile)





MAIN INTERNATIONAL ORGANIZATIONS















CONTROL OF HIGHLY AND NON-HIGHLY MIGRATORY STRADDLING SPECIES.



LEADERSHIP IN TUNA PROTECTION CONTROL MEASURES (CLOSED).

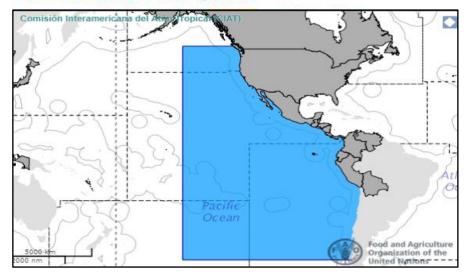
INTERAMERICAN TROPICAL TUNE COMMISSION

SUSTAINABLE USE OF STOCKS AND PROTECTION OF BIODIVERSITY, CONSERVATION AND MANAGEMENT MEASURES (FEES).

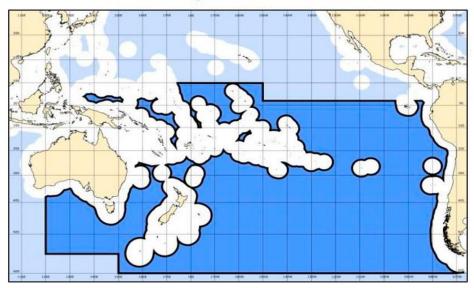
APPLY PRECAUTIONARY PRINCIPLE AND ECOSYSTEM APPROACH.



RFMOs for highly migratory fish stocks (tuna and associated species)



RFMOs for non-tuna species







TO CONSERVE THE MARINE FLORA AND FAUNA OF ANTARCTICA.

ECOSYSTEM APPROACH

RFMO - CCAMLR





Commission for the Conservation of Antarctic Marine Living Resources







United Nations Fisheries Convention 1958



United Nations agreement on straddling fish stocks and highly migratory fish stocks(1995)



Code of Conduct for Responsible Fisheries (1.999)



Agreement to promote compliance with international conservation and management measures by fishing vessels on the high seass (2.003)

INTERNATIONAL INSTRUMENTS

SPRFMO

) TTV PROTECTED BY THE UNCLOS

AGREEMENT OF NEW YORK ECUADOR

ADHERED EL 24-SEPT-2012

UNCLOS

ART. 63 Y 64

SPECIES,
ORGANIZATIONS
AND STATE PARTY

REGIONAL FISHERIES
MANAGEMENT ORGANIZATIONS

Port State Measure Agreement (2.019) PDE-IUUF





Constitution of the Republic



Criminal Code



Fisheries and Aquaculture Development Law



Law of Navigation Management of Safety and Maritime Protection in Aquatic Spaces.



Law of Special Regime for the conservation and sustainable development of the province of Galapagos



AXES OF THE STRATEGY













NATIONAL AND REGIONAL LEGAL FRAMEWORK

MONITORING

INFORMATION EXCHANGE

LAW ENFORCEMENT

INTEROPERABILITY

PUBLIC SPOKER PERSON



STATES









ACTORS

OWNERS

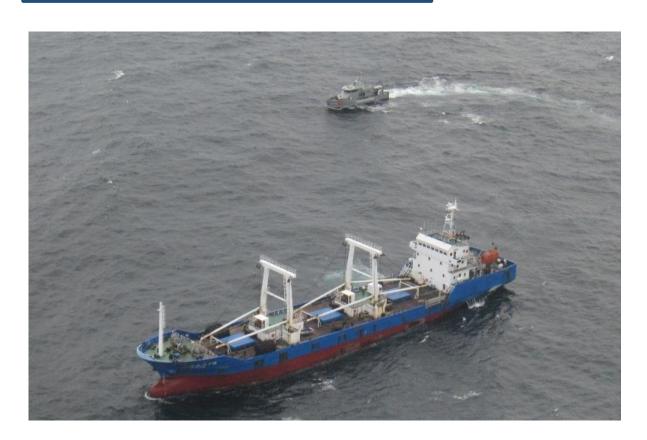
FISHERMEN

MERCHANTS

CONSUMERS



The problem



FU YUANG YU LENG 999 (2017)



Critical Vulnerabilities: Long SLOC: Tankers and Reefers



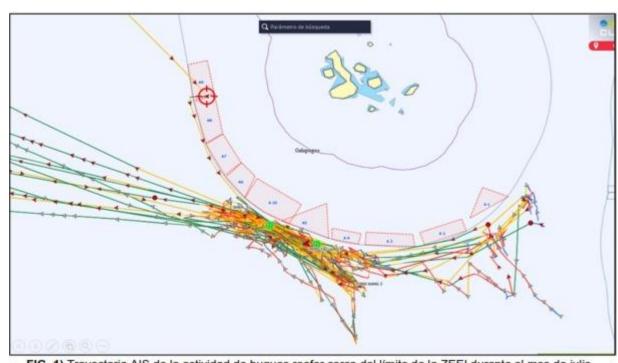


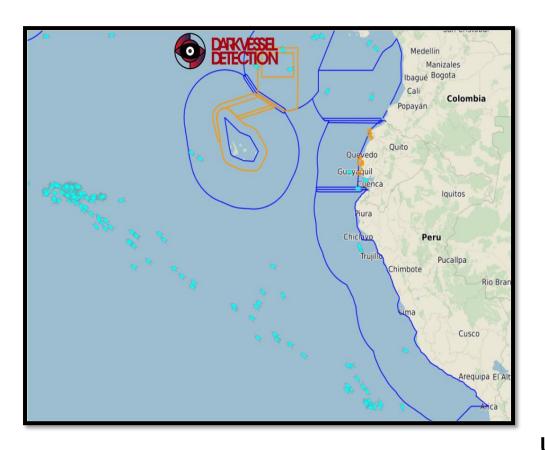
FIG. 1) Trayectoria AIS de la actividad de buques reefer cerca del límite de la ZEEI durante el mes de julioagosto 2020.



FIG. 2) Trayectoria AIS de la actividad de buques reefer desde mayo acompañan a la flota desde Argentina.

Tankers and Reefers







Projects against IUUF



World Wildlife Fund



- Cooperative
 Situational and
 Information
 Integration System
 (CSII)
- <u>P3 for maritime</u> <u>patrol and</u> reconnaissance

US Department of Defense



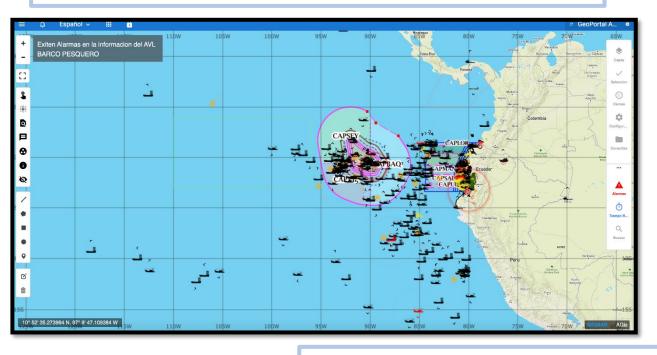


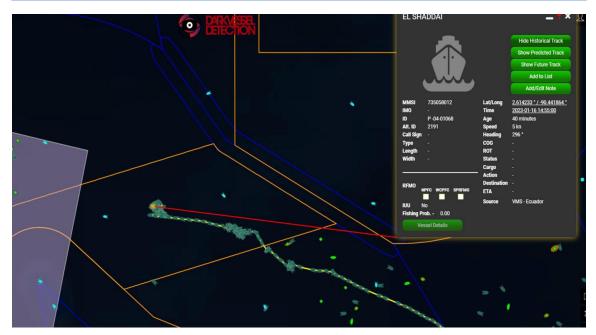
Fishieries and oceans Canada



SIGMAR-NAVY System / AIS-PNG (National fleet)

Dark Vessel Detection System (International fleet)

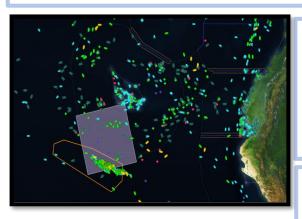




Surveillance and control capacity.



EC NAVY ACTIONS



- Control with SMD of the national fleet.
- Technical information of the ship.
- Crew information.
- Tankers and reefers monitoring.
- Tracking patterns.



- International fleet: alerts by AIS turned off
- Concentrations of ships in the EEZ

RESULTS IUUF 2023



16 Ships detained(8 foreign)



74 persons arrested (26 foreign)



489 kg seized fish



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COMPETENT ACTIONS AS MARITIME AUTHORITY



CASES STUDIES



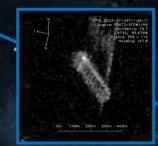


Synthetic Aperture

> Radar (SAR)

Sources:

- RADARSAT Constellation Mission (RCM)
 RADARSAT 2



Voluntary Signals

S-AIS

Sources (AIS):

Spire Maritime (formerly exactEarth)





Sources (VMS):

Various

Sources:

IHS Fairplay

Vessel details **Environmental** Data

Radio

Frequency

(RF)

- Sources: UnseenLabs
- Hawkeye360



Sources:

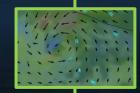
NASA/NOAA





MMSI 548946000 IMO 9761231 Call Sign Cargo Vessel

180 meters 30 meters



Sources:

 Openweathermap.org
(Wind Speed and Direction, Cloud) Cover, Precipitation, Sea surface temp)



- Sources:
 MAXAR
- Blacksky



Government of Canada

Optical

Gouvernement du Canada



DVD Case Studies Removed
For Further Information on DVD or the Use
Cases Presented Please Contact
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ECUADORIAN ACTIONS AND INITIATIVES AGAINST IUUF







THANK YOU