

CONSERVATION AND PROTECTION



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Fisheries & Oceans Canada Conservation & Protection

Canada's Efforts on IUU Fishing and the New Indo-Pacific Strategy

FISHERY OFFICER
AGENT DES PÊCHES



Fisheries and
Oceans Canada

Pêches et Océans
Canada

Heather McCready, Director General C&P
GFETW – July 2023

Canada



Fisheries & Oceans Canada (DFO)- Conservation & Protection (C&P) Directorate

- The C&P Directorate enforces laws aimed to **conserve Canada's aquatic resources** and **protect endangered species, fish habitat, and oceans**.
- Fisheries & Oceans Canada **employs over 500 Fishery Officers** within the departments regulatory law enforcement branch – Conservation & Protection (C&P).
- Fishery Officers are tasked with the enforcement of **Canada's Federal legislation to protect fisheries resources, fish habitat, endangered aquatic species and ocean ecosystems**. Their compliance and enforcement activities are conducted on land, air, and sea.





Fisheries & Oceans Canada (DFO) - Conservation & Protection (C&P) Directorate

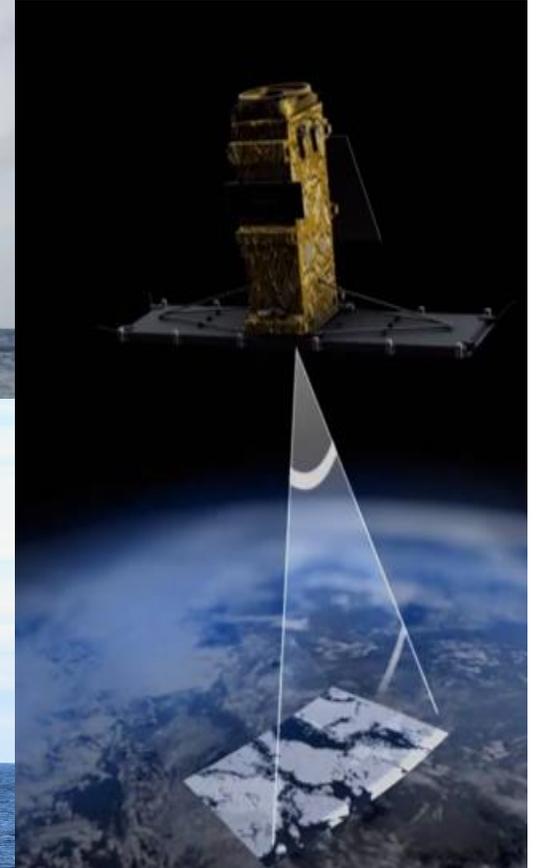
- Leverage CCG fleet of mid-shore and offshore patrol vessels
- Supported by dedicated fisheries intelligence
- Multiple fisheries surveillance aircraft
- Armed and highly trained regulatory enforcement agency
- Supported by forensics capabilities
- Advanced subject matter expertise
- Major case, forensic investigation capacity





C&P's International Fisheries Enforcement Program

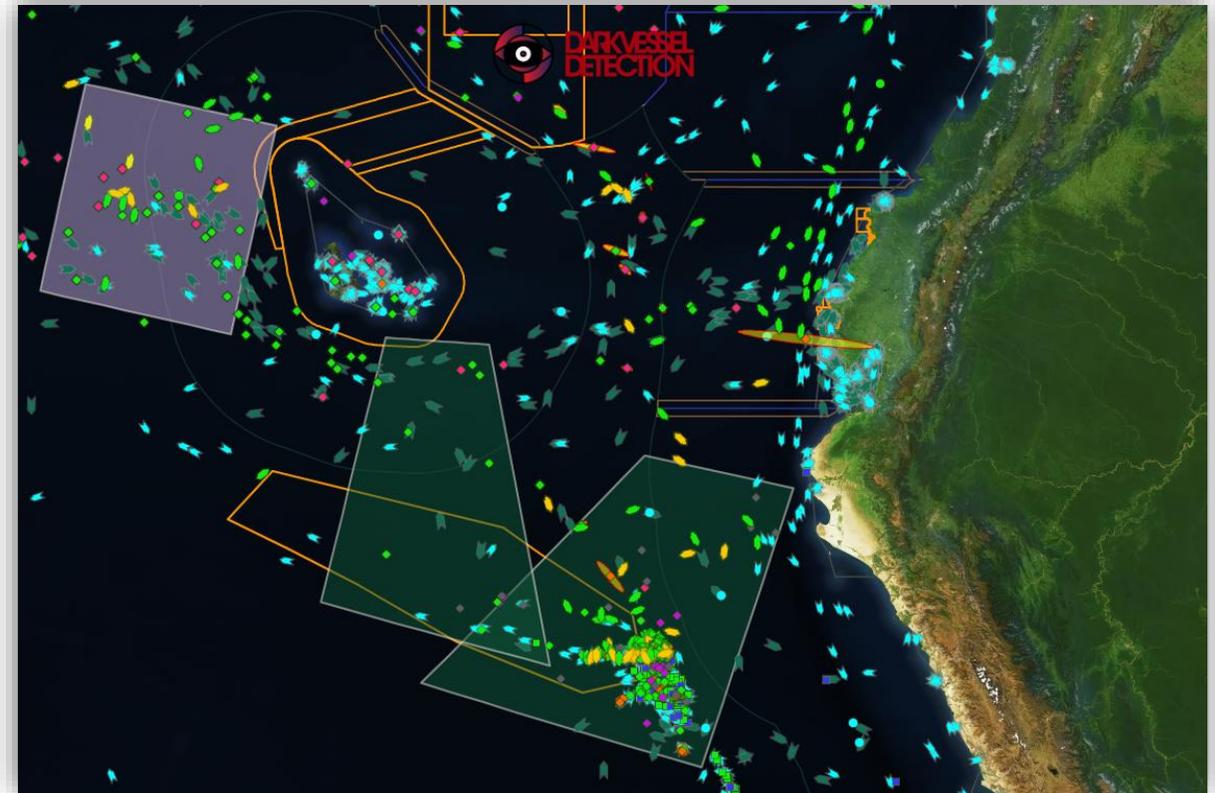
- C&P's International Enforcement Program delivers Canada's efforts abroad to combat Illegal, Unregulated, and Unreported fishing (IUU-F) and protect marine biodiversity, including:
 - Coordination of **international operations**.
 - **Dark Vessel Detection (DVD)** satellite surveillance support to international partners.
 - Support to Canada's **engagement at RFMOs and international fora**.
 - Links to other Dept activities under IUU Action Alliance, High Level Panel for Oceans, Interpol, etc.





C&P's Dark Vessel Detection Program

- Provides **layered multi-sensor** satellite data to support counter IUU-F operations.
- Relies on both **commercial and government owned satellite assets** to provide **near-real time surveillance**.
- Utilizes **powerful machine learning algorithms** to **automatically fuse and correlate detections** with vessels that are broadcasting their locations (AIS/VMS) and **highlights non-broadcasting vessels (dark vessels)**.
- Incorporates **historical vessel information, environmental data, and analytics** to support and facilitate analysis.



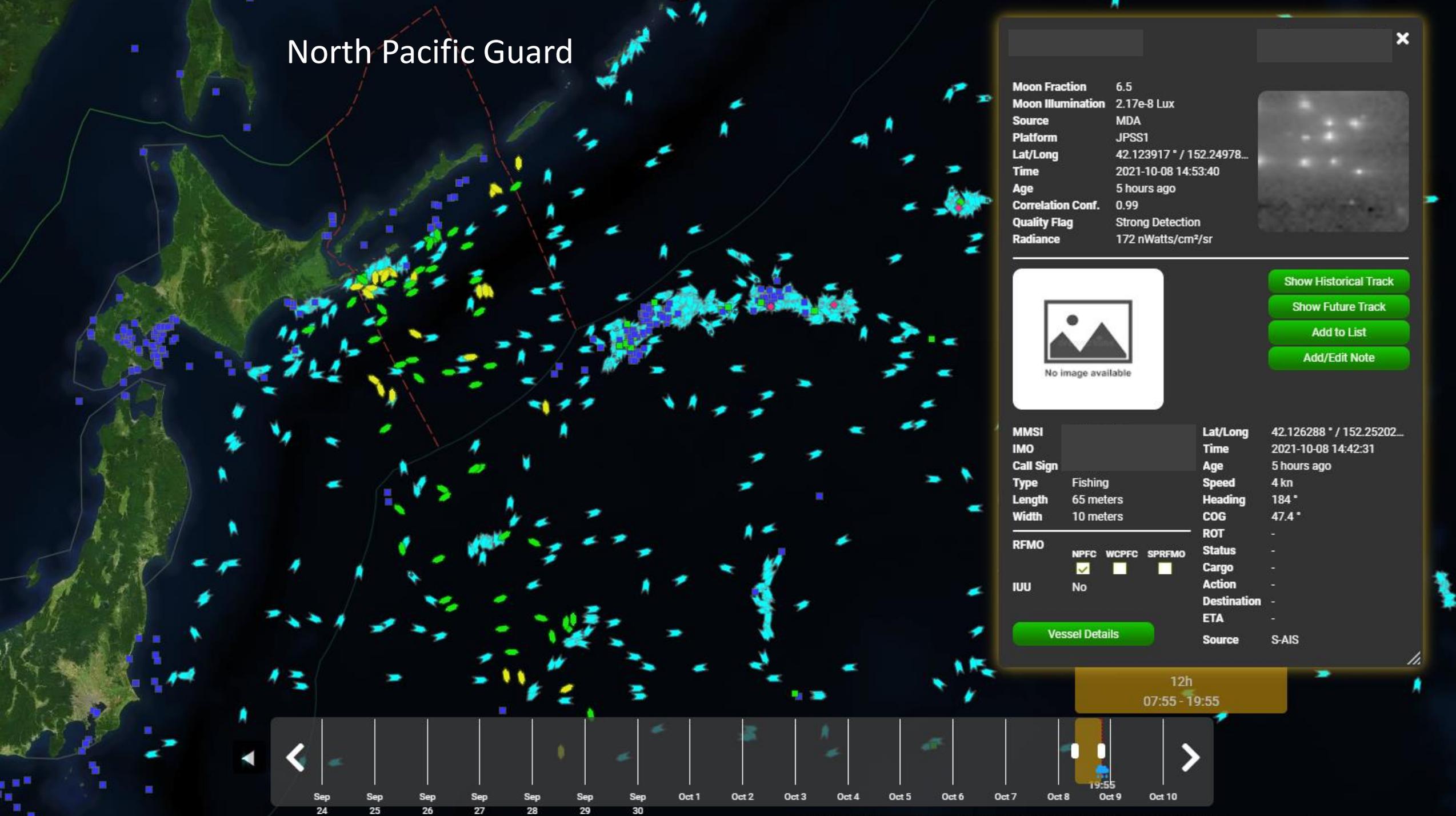


DVD – Regional Support

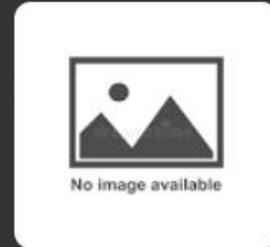
- DVD supports **Ecuador and Peru** monitor the **distant water foreign fleets**, such as the 400+ squid fleet.
- DVD provides the **South Pacific Islands Forum Fisheries Agency (FFA)** with remote sensing surveillance support during surge operations conducted by multilateral partners.
- Contributes to **IUU fishing surveillance** in the **North Pacific, Bahamas, Costa Rica**.
- Serves to **monitor marine protected areas**, such as the Galapagos Marine Reserve.
- DFO will be deploying the system in the Indo Pacific, as part of Canada's Indo Pacific strategy.



North Pacific Guard



Moon Fraction 6.5
Moon Illumination 2.17e-8 Lux
Source MDA
Platform JPSS1
Lat/Long 42.123917 ° / 152.24978...
Time 2021-10-08 14:53:40
Age 5 hours ago
Correlation Conf. 0.99
Quality Flag Strong Detection
Radiance 172 nWatts/cm²/sr



- Show Historical Track
- Show Future Track
- Add to List
- Add/Edit Note

MMSI		Lat/Long	42.126288 ° / 152.25202...
IMO		Time	2021-10-08 14:42:31
Call Sign		Age	5 hours ago
Type	Fishing	Speed	4 kn
Length	65 meters	Heading	184 °
Width	10 meters	COG	47.4 °
RFMO		ROT	-
	NPFC <input checked="" type="checkbox"/> WCPFC <input type="checkbox"/> SPRFMO <input type="checkbox"/>	Status	-
IUU	No	Cargo	-
		Action	-
		Destination	-
		ETA	-
		Source	S-AIS

Vessel Details

12h
07:55 - 19:55



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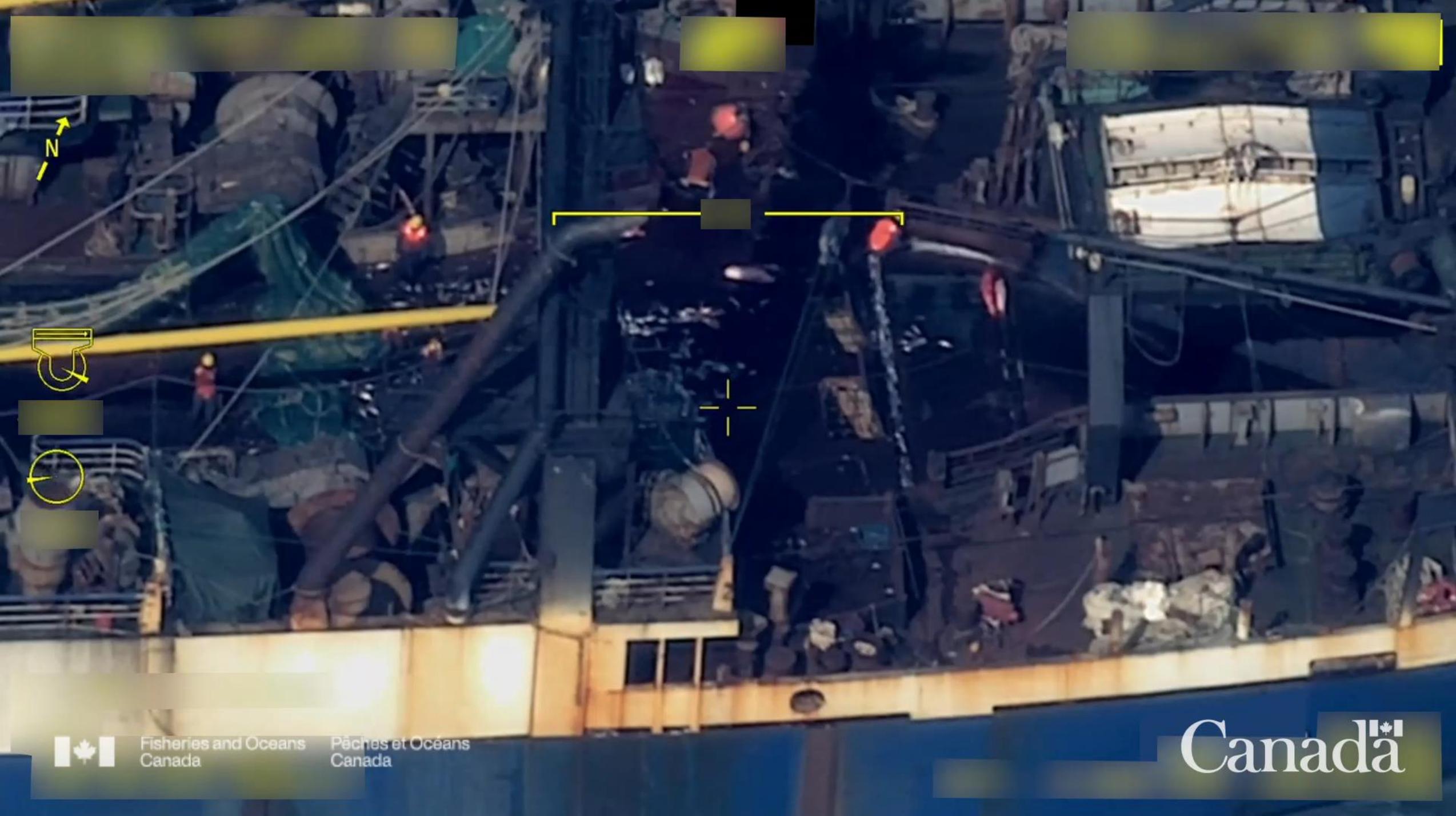
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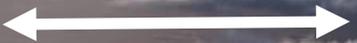
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Operations

RFMO Measures



Global Fishing Watch

NGO Efforts

PEW



COMMERCIAL FISHING

NORTH PACIFIC MANAGERS ADOPT MUCH-NEEDED FISHERIES REFORMS, SHARK CONSERVATION EFFORT

March, 2023



North Pacific managers adopt much-needed fisheries reforms, shark conservation effort. The annual meeting of the [North Pacific Fisheries Commission \(NPFC\)](#) ended with an important agreement to reform transshipment monitoring and regulations. Transshipment, the transfer of catch from a fishing vessel to a carrier vessel, is a critical part of the seafood supply chain, but loopholes abound, making it easier for illegal activities to take place in the process. By agreeing to close gaps in management, improve vessel authorisation processes, report transshipment of bycatch species, require reporting of



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INSPECTION
DES PÊCHES

FISHERIES
INSPECTION

INSPECTA



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DFO's Emerging Engagement within the Indo-Pacific

- Canada recently announced funding for **increased IUU-F engagement** within the **Indo-Pacific region**.
- Increase engagement at RFMOs.
- Funding for 5 years to broaden delivery of DVD platform within region, and:
- Support partner fisheries/maritime enforcement agencies with capacity building.
- Fund NGOs/organizations to pursue other initiatives to improve marine biodiversity through measures to tackle IUU-F and strengthen enforcement capacity.
- Increase collaboration with ASEAN countries, including through Canada's role as ASEAN "Strategic Partner", and within ASEAN Network for Combatting IUU Fishing (AN-IUU).

