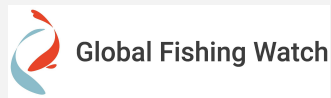


JAC, Global Fishing Watch and C4ADS Triton

Regional Training Course for Fisheries Inspectors in the Implementation of Port State Measures (PSM)
September/ October 2026, SEAFDEC/TD, Bangkok, Thailand



JAC: Five organisations working collaboratively



Provision of **tools and data** powered by satellite tracking, remote sensing and machine learning to support analysis of fishing-related activity.



A maritime monitoring and analysis software platform providing MCS practitioners with a **near real-time tool** to identify suspicious vessel behaviour and take action, including access to **commercial remote sensing data**.



Leads on **Monitoring, Control and Surveillance (MCS) capacity building and training**, works to ensure the Joint Analytical Cell (JAC) output is tailored to support MCS practitioners.



Human analysis of a wide range of data sources, focused on vessel and company intelligence.



Focus on **beneficial ownership and corporate network analysis**.

Global Fishing Watch

Global Fishing Watch was founded via collaboration between Google, Oceana, and SkyTruth in 2015

Established as a nonprofit in 2017

We advance ocean governance through increased transparency of human activity at sea



A digital revolution for the ocean

Recent advances in big data and technology are rapidly transforming our ability to generate new insights and make them public and visible

At **Global Fishing Watch** we believe it's vital to seize this opportunity



JOINT
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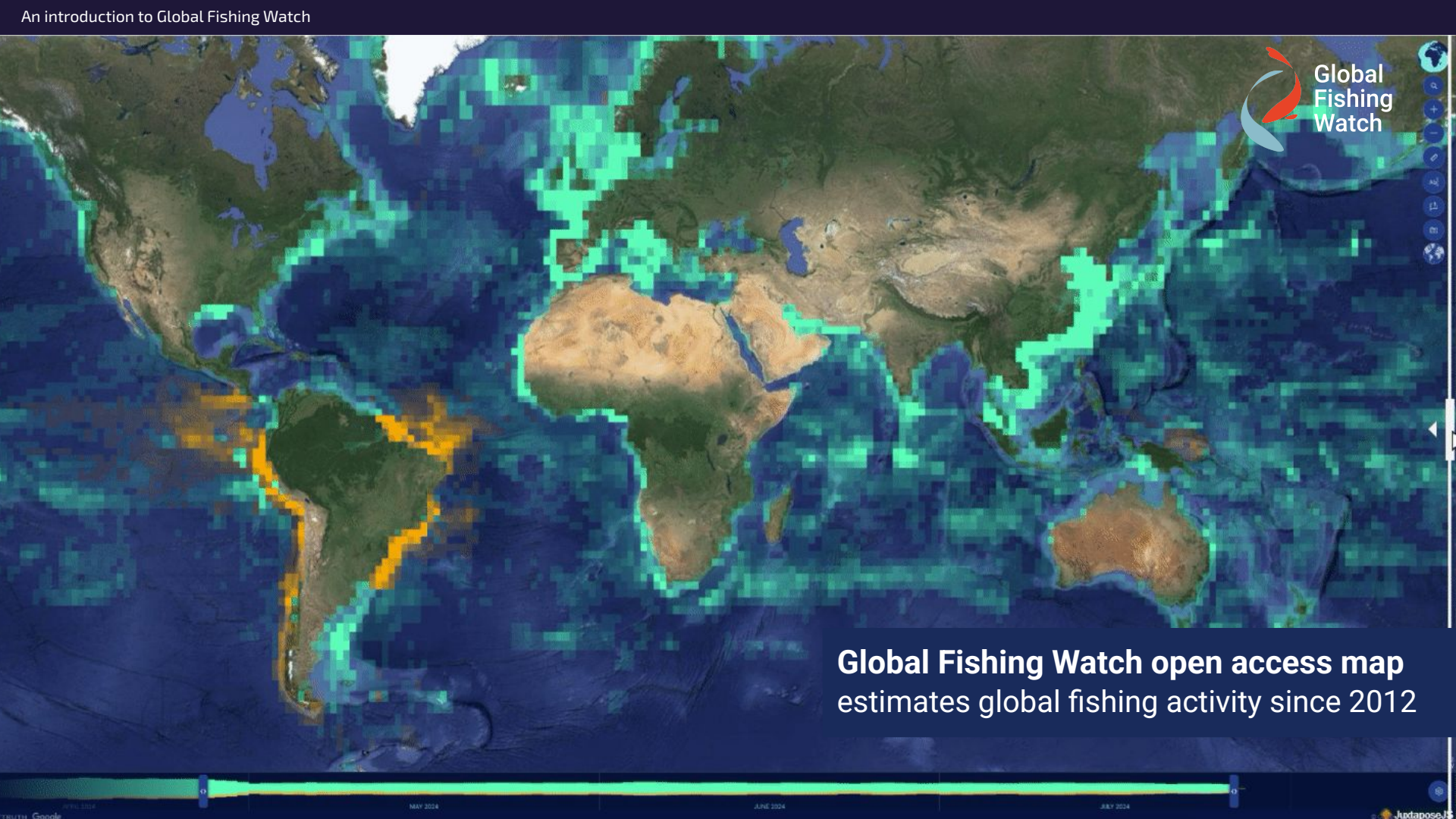
IMCS
NETWORK

Global
Fishing
Watch

TMT

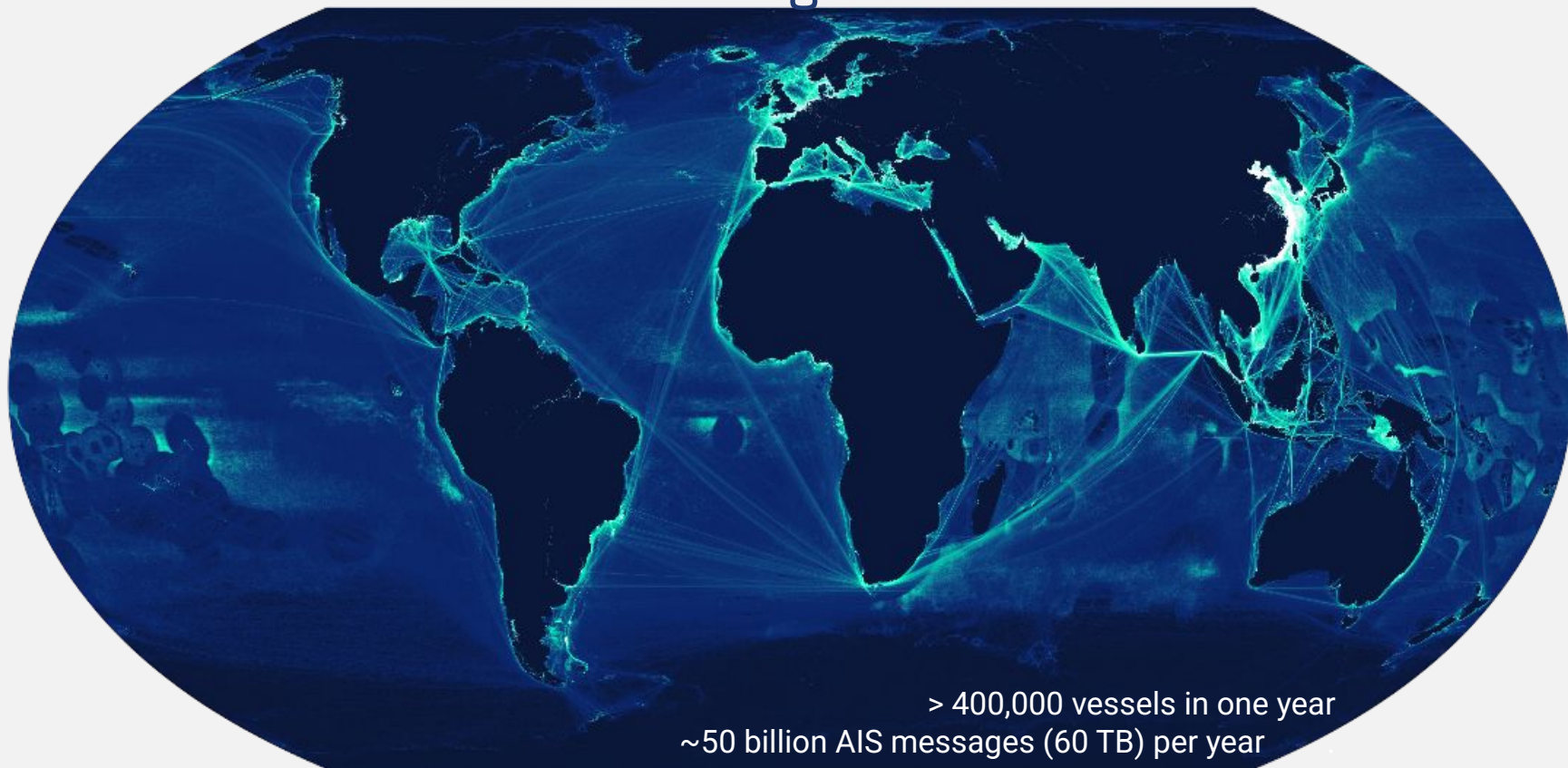
C4ADS

SKYLIGHT
A product of Google



Global Fishing Watch open access map
estimates global fishing activity since 2012

Global AIS Usage 2012-2024

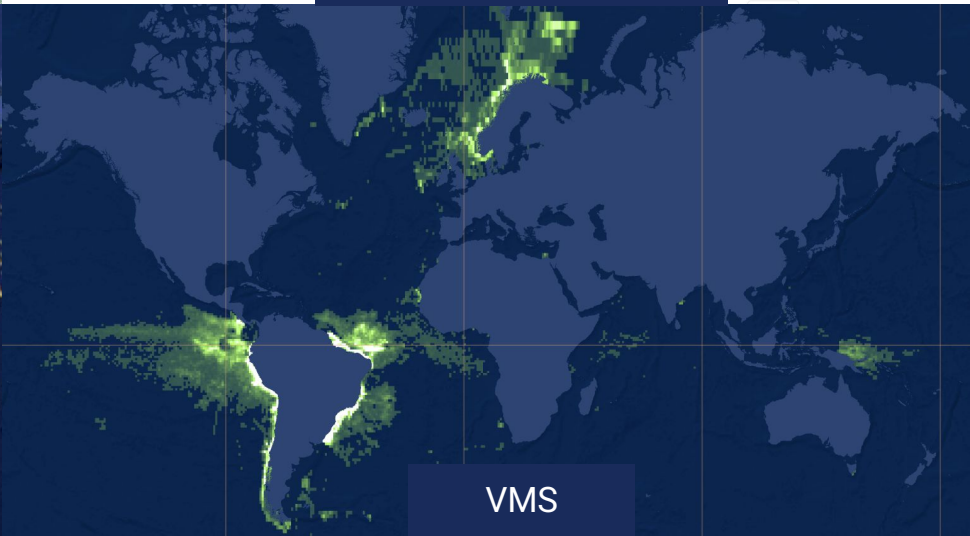


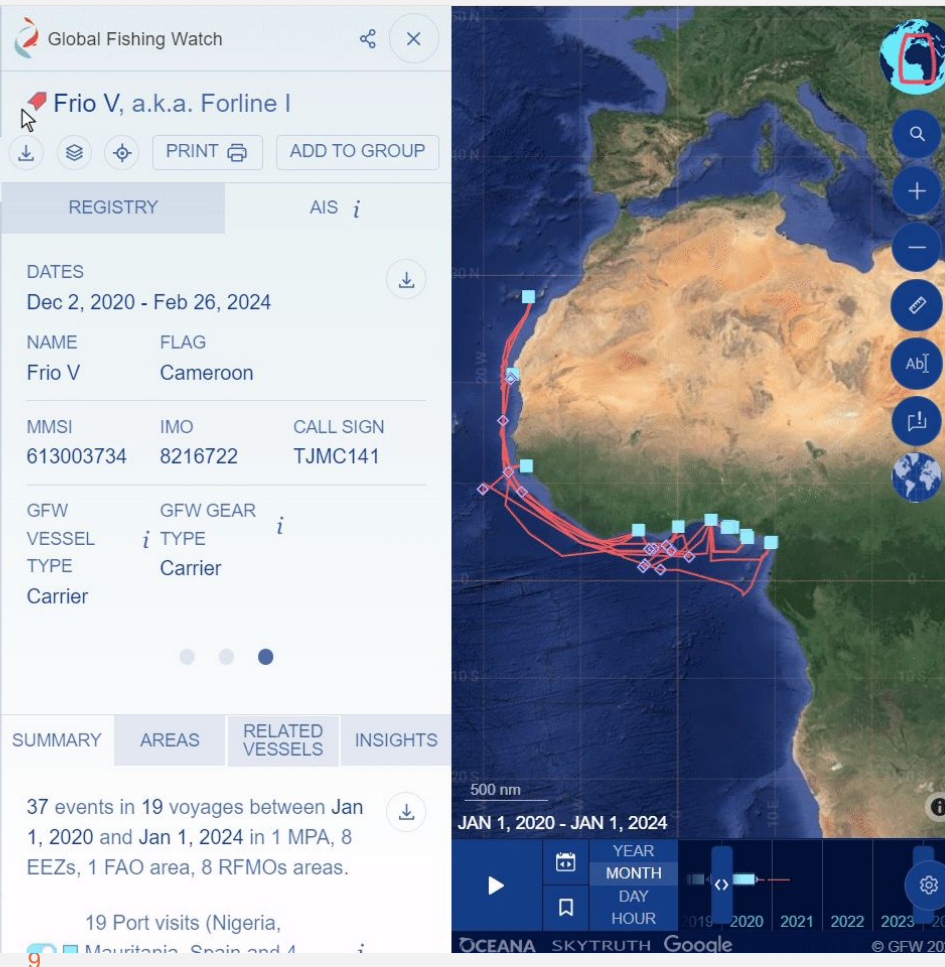
An introduction to Global Fishing Watch



IDENTIFIER	NAME	FLAG	TYPE	KIND	GEARS	SPEC	RANGE	PORT	CONTACT	AUTH
IOTC N. ▾	NAME	FLAG								
DELISTED										HISTORICAL
5327	MATCHED VESSEL(S).									
Identifier	IMO	Name	Flag State	LOA (m)	Type	From				
IOTC090505	8468727	SUMBER CIPTA 88	Indonesia	17.09	Line vessel	2/6/25				
IOTC090504	8468222	HASIL MELIMPAH 29	Indonesia	21.1	Line vessel	1/1/25				
IOTC090503	8468210	BERKAT MELIMPAH 31	Indonesia	21.7	Line vessel	1/1/25				
IOTC090502	8468600	HENDY JAYA	Indonesia	18.38	Line vessel	3/6/25				
IOTC015798	9754599	SHEN HUI 04	China	38.36	Longliner	1/4/24				
IOTC015795	9754563	SHEN HUI 01	China	38.36	Longliner	1/4/24				
IOTC015796	9754575	SHEN H			Longliner	1/4/24				

VESSEL REGISTRIES

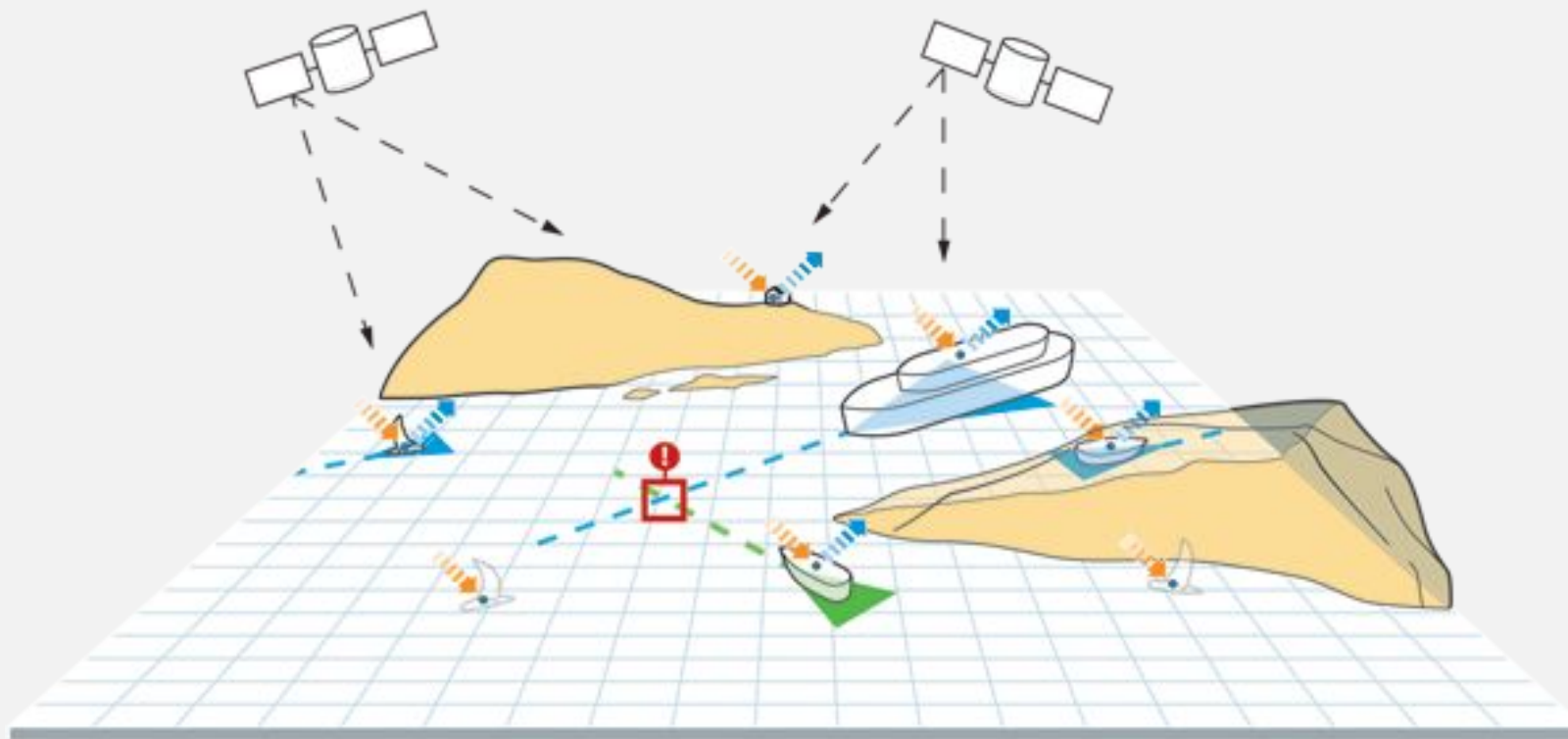




Vessel Profiling

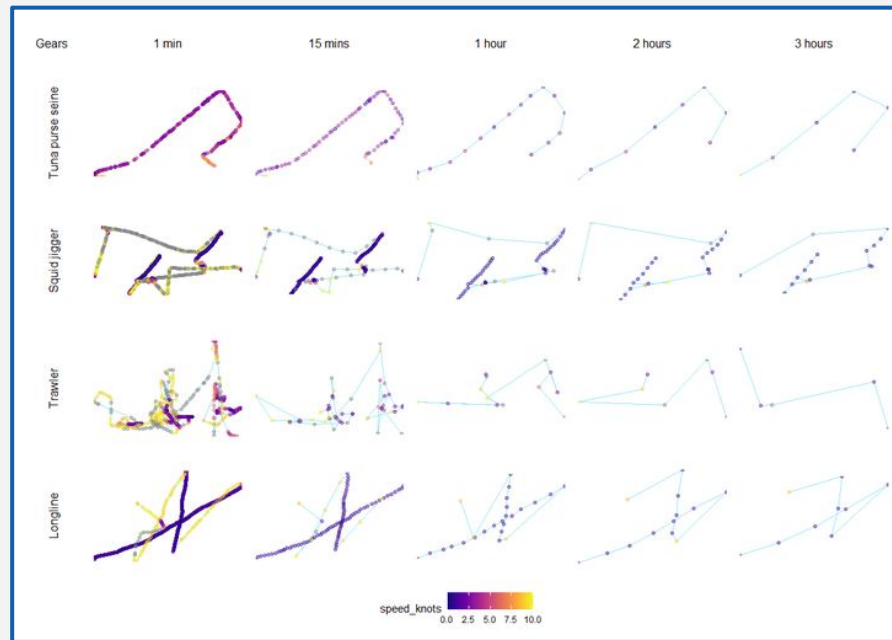
- A single **powerful search engine** of >220K vessels involved in fishing
- **Vessel profiles** including public registry, self-reported AIS/ VMS identity and activity information
- **Vessel insights** to improve cross checks and risk assessments powered by vessels behaviours
- **Risk evaluation** of potential association with IUU fishing, highlight gaps for further investigate
- **Direct integration** and cross-links with other platforms

Automatic Identification System (AIS)



AIS: Advantages

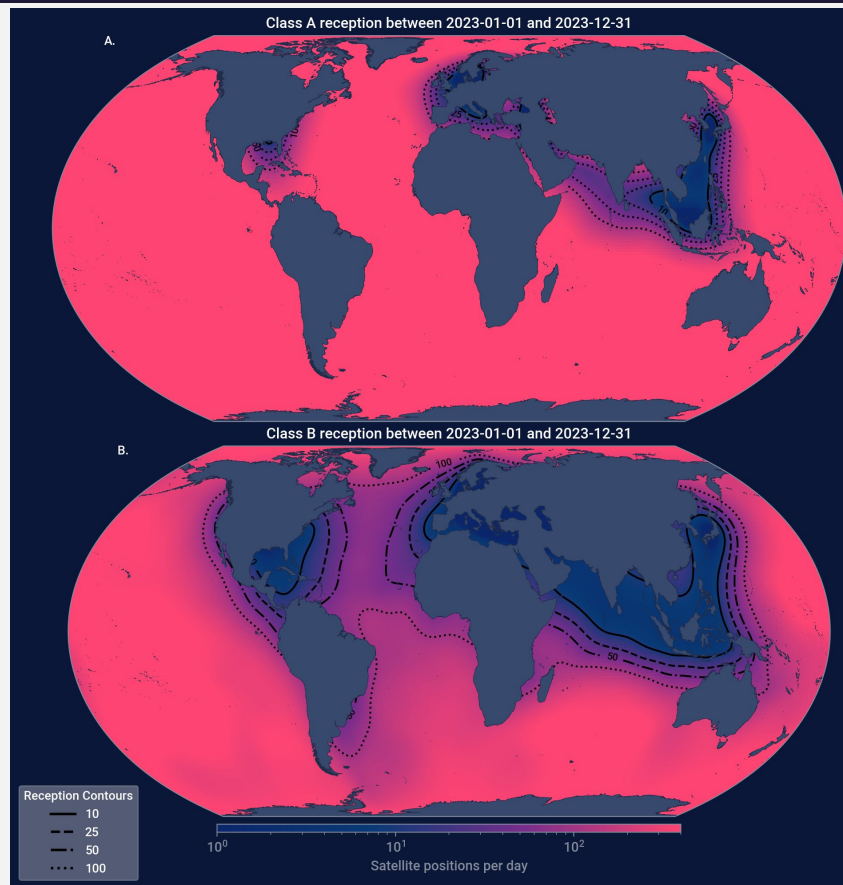
- **Very high transmission rates allows for differentiating activity at a granular level and not just vessel tracking**
- **Accessibility - can be publicly available through platforms like GFW's**
- **Relatively low cost for units and no ongoing data transmission and storage costs**
- **Increasing use by vessels (mandated for large vessels, voluntary use by smaller vessels due to safety benefits)**



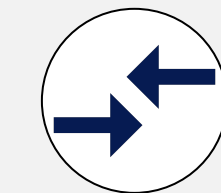
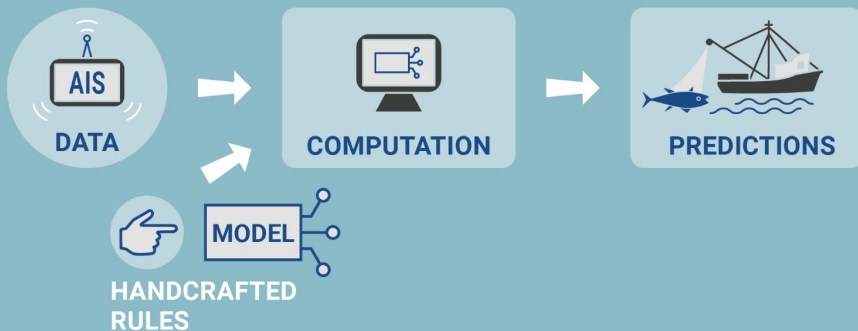
High polling rates make it easier to estimate vessel activity from tracks

AIS: Limitations

- A variety of factors can affect the utility of AIS data:
- Not all vessels have AIS units - larger vessels ($\geq 300\text{gt}$) are required by IMO
- AIS device type - affects strength of signal
- AIS units can be switched on/off; not tamper-proof
- Reliability of some key vessel identity data depends on data entry accuracy
- Latency - potential delay in signals
- Variability of AIS Reception



RULES BASED ALGORITHMS



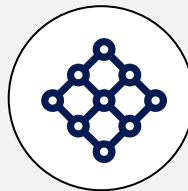
Encounters



Loitering



Port Visits

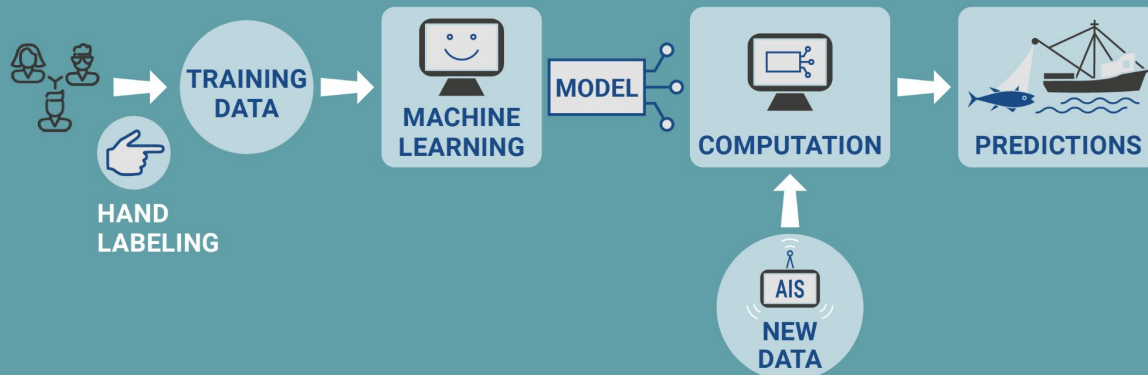


Fishing activity

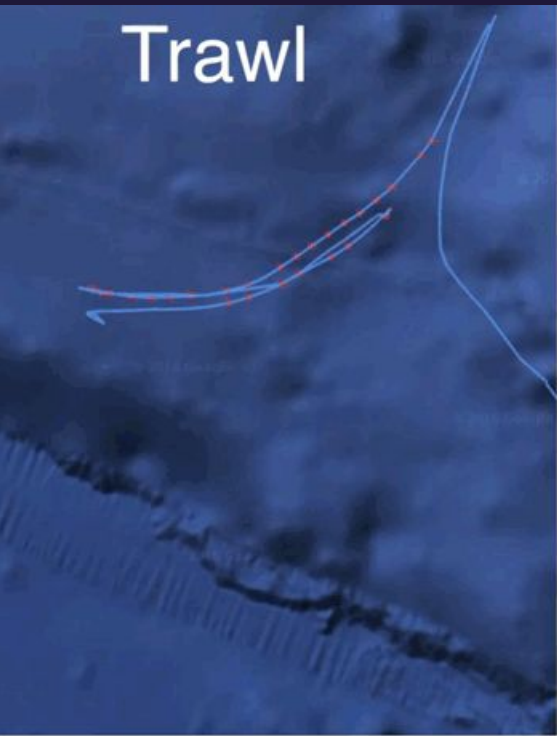


Vessel Identity

MACHINE LEARNING



Trawl



Longline



Purse Seine



Pioneering technology for intelligence led port controls



Historical data

Several years of data across all datasets from 2012 until the last 72 hours - apparent fishing, encounters, vessel detections, tracks and identity



Dynamic analysis

Conduct fleet and area based analysis for up to 1000 vessels at a time, create and share dynamic reporting



Easy to use

Designed with both experts and non-experts in mind



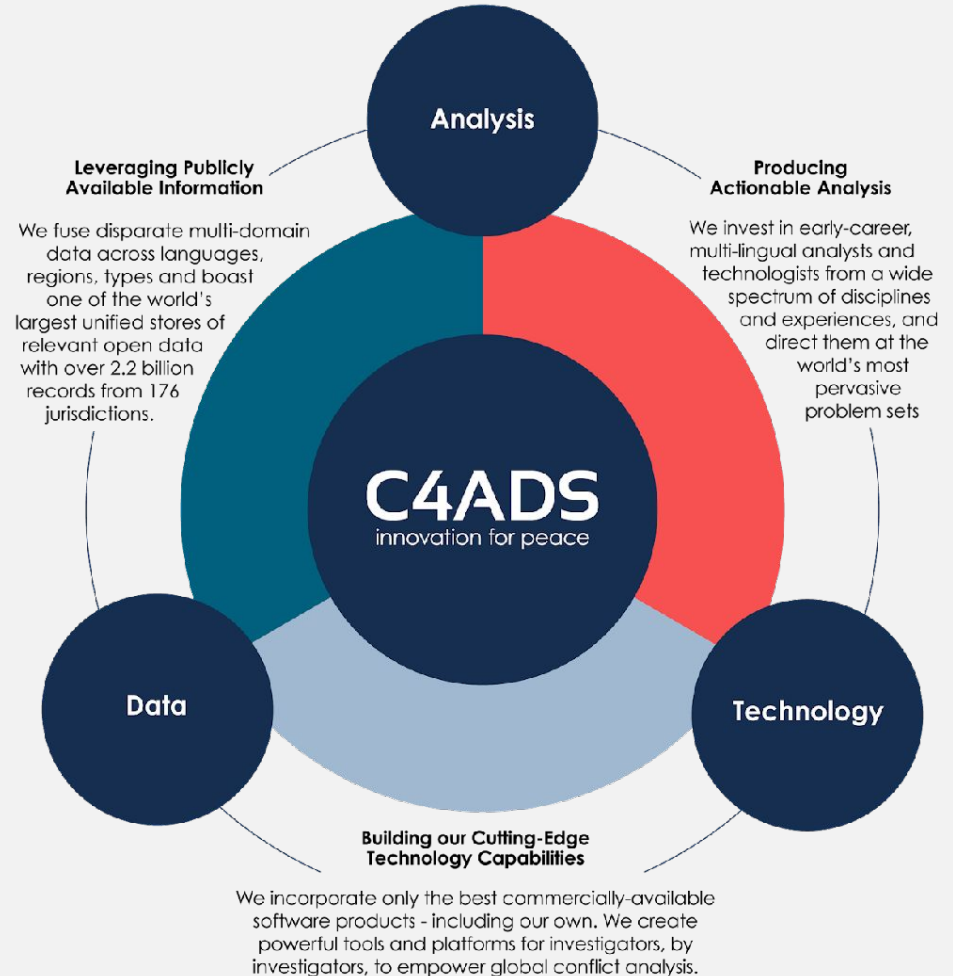
Open and free

Free to anyone with an Internet, mid-level computers and with a low data consumption

C4ADS Triton

C4ADS

is a nonprofit organization that uses publicly available data and cutting-edge emerging technologies to identify, disrupt, and dismantle transnational illicit networks.



C4ADS

Mission: Protect and advance the sustainable use of natural resources by exposing where illicit activity touches the supply chain and the policies, financial flows, & ownership networks that enable it.



TRITON

triton.fish

A platform for regulators, enforcement, and civil society to explore beneficial ownership data behind the world's industrial fishing fleet



Search through ~180,000 entities industrial fishing vessels, companies, and individuals



Identify the vessel, companies and individuals within a network



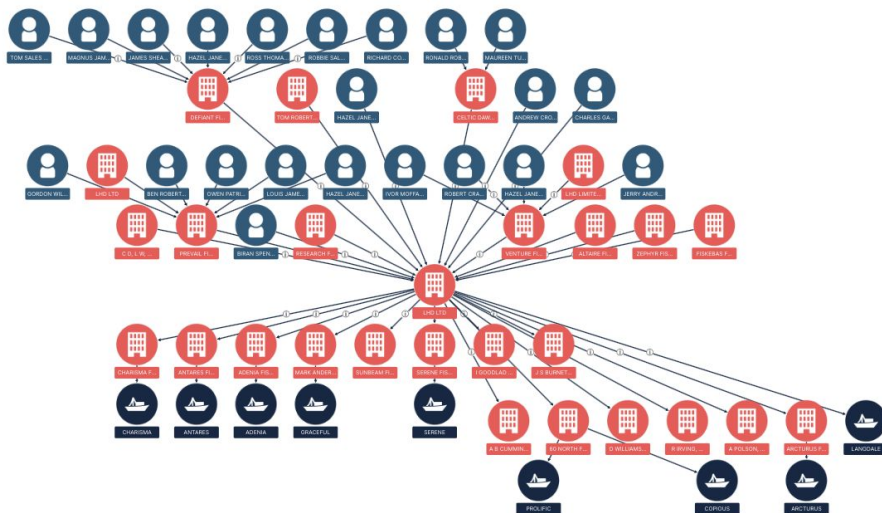
Narrow searches based on compliance, registration, and geography



Download network entity identifiers



Partner with C4ADS for in depth information and additional analytical support



FU LIEN NO. 1 ☆

[View Network Graph](#)

Additional information available from [S&P Global](#)

Search Results

Name

☆ FU LIEN NO. 36

☆ FU LIEN NO. 1

☆ FU LIEN FISHERY C

Flag UNKNOWN	Sanction Status No Information	IUU Status Listed
Date of Information N/A	IMO 7355662	Callsign N/A
Gross Tonnage 305	IUU Status Details N/A	Regional Fishery Body Registrations N/A
MMSI N/A	Length 46.94	Status CONTINUED EXISTENCE IN DOUB T
Former Flag CAMBODIA PANAMA Show more	Year Built 1973	Gear Type Unknown

Connections 1 ⚠️

Membership • 1

Entity Type	Name	IUU Status	Relationship
Company	FU LIEN FISHERY CO L...	⚠️	OWNER OF



TRITON



[Dashboard](#)[Search](#)[Methodology](#)[Support](#)

Search through **183,206** vessels, companies, and people available in Triton.

Enter name or IMO Number of vessel, individual, or organization to begin a query.

Filter Results ▾

Clear



Recently Viewed

Favorites

Name	Entity Type	Flag/Nationality	IMO	Network Graph ↗
------	-------------	------------------	-----	-----------------

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20

Data

- **Baseline vessel information and 1st tier ownership is from S&P Global / IMO**
- **IUU status - TMT combined IUU List / Sanctions from US Government and UN Sanctions lists**
- **Gear type/registration is pulled from RFB info**
- **Corporate registry information sourced from official records or verified 3rd party aggregators**

Limitations

- **Only covers IMO registered fishing vessels and reefers**
- **Some countries don't have transparent corporate records resulting in unknown beneficial ownership**
- **For primary documents, updated, or more in depth analysis on networks please contact someone from JAC**

About the Joint Analytical Cell:

The Joint Analytical Cell (JAC) is a unique collective of organizations that provides maritime authorities with high quality fisheries intelligence, technology, data analysis and capacity building to combat illegal, unreported and unregulated fishing (IUU). Together, the JAC members, IMCS Network, Global Fishing Watch, TMT, C4ADS and Skylight, harness innovative technology and complementary expertise to improve the effectiveness of fisheries monitoring control and surveillance, and foster cooperation to build insights and capacity that support and enhance fisheries management.

www.jointanalyticalcell.org

Contact: jac-coord@tm-tracking.org

www.imcsnet.org | www.globalfishingwatch.org | www.tm-tracking.org

www.c4ads.org | www.skylight.global