Global Fishing Watch

Global Fishing Watch Products, Tools and Data

Our Map

Dynamic fishing activity and analysis Dynamic fishing activity and analysis

The Global Fishing Watch map is the first open-access online tool for visualization and analysis of vessel-based human activity at sea. Powered by satellite technology and machine learning, the map merges multiple types of vessel tracking data to provide a view of global human activity at sea, including fishing activity, encounters between vessels, night light vessel detection and vessel presence. Anyone with an internet connection can access the map to monitor global fishing activity from 2012 to the present from more than 65,000 commercial fishing vessels that are responsible for a significant part of global seafood catch. Users can search for vessels, filter activity by flag State and time range, identify port visits and view encounters between vessels. The map also allows anyone to upload and overlay their own data, download reports of activity from custom areas, and save and share workspaces. Free and easy-to-use features offer unprecedented opportunities to increase transparency across the world's ocean and support the fair and sustainable use of marine resources.
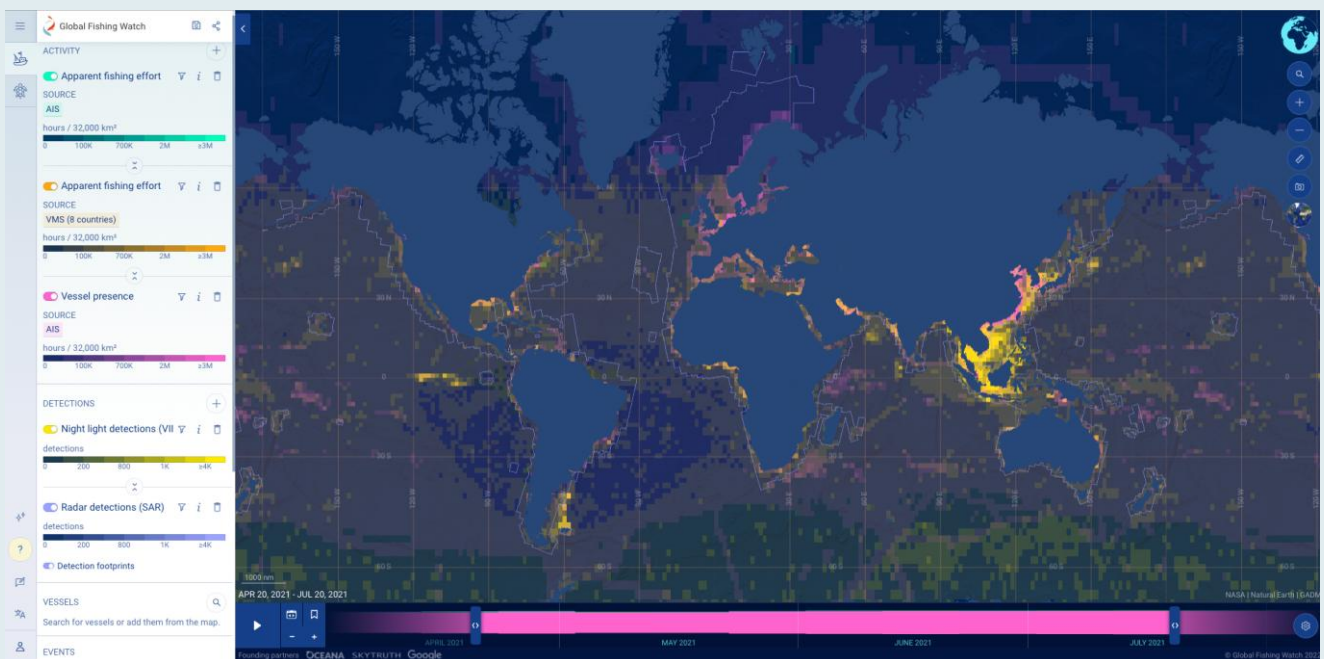

Dynamic global apparent fishing effort, vessel activity and satellite detections portrayed on the Global Fishing Watch map

Marine Manager Portal

Marine protected areas | MPA management | Environmental data

Global Fishing Watch Marine Manager is a freely available, innovative technology portal, founded by Dona Bertarelli. It provides near real-time, dynamic, and interactive data on ocean conditions, biology, and human-use activity to support marine spatial planning, marine protected area design and management, and scientific research.
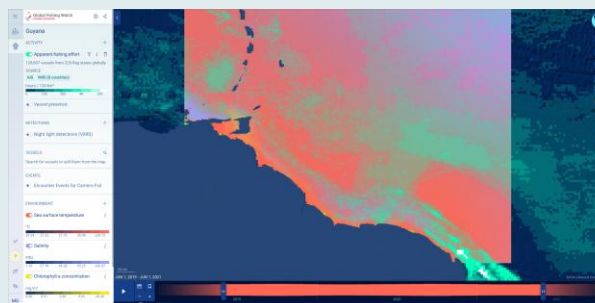

Environmental data in the marine manager portal

Vessel Viewer

Detailed vessel information | Activity summaries | Mobile application with offline access

Global Fishing Watch and Trygg Mat Tracking are working together to enhance fishing vessel monitoring and support States in implementing effective port controls. To arm relevant authorities with the information needed to make a rapid assessment of a vessel's compliance risk and verify its fishing operations, port visits and transshipment activity, the organizations have generated a vessel history tool called vessel viewer. The tool can highlight relevant, absent or false information about a given vessel to help identify inspection priorities. The tool can be used across various sectors to aid in the broader analysis of fishing vessel operations and documentation, and it can help assess overall risk related to illegal, unreported and unregulated catch and compliance with international regulations.
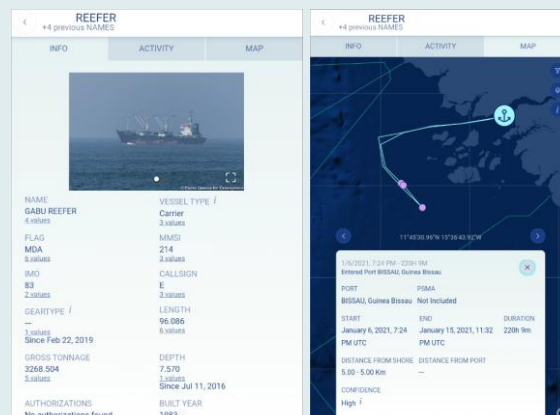
Mobile applications showing vessel information and event details

API Portal

Software development | Dynamic research

Global Fishing Watch has developed an API portal that synthesizes multiple streams of information to allow noncommercial users to easily explore, visualize and freely use Global Fishing Watch data and technology. By openly publishing our APIs, we aim to transform global collaboration and catalyze solutions to address the ocean's most complex problems.

Data Download

MPA management

Download static Global Fishing Watch data for scientific research, updated annually.

![Global Fishing Watch logo] **Global Fishing Watch**

Registering and accessibility

Registration will always be free and takes about two minutes. As a registered user of the Global Fishing Watch map, you will have full access to all the map features, allowing you to: View heatmaps of fishing and vessel activity/ Identify vessels and routes/ Download fishing activity reports/ Review detailed events along vessel routes, including fishing activity and potential encounters/ Create an analysis of specific areas/ Save and manage workspaces/ Review fishing effort by flag, date range or gear type/ Search for vessels/ Combine fishing effort layers from various data sources/ Search activity by date range and create animations of vessel activity/ Overlay jurisdictional boundaries and other reference layers/ Measure distances between activities/ Create your own visualizations by sharing workspaces and screenshots.

Visit the registration page to sign up for a Global Fishing Watch account. You can use your Google or Facebook account to register, or create an account and password using your email address by clicking on "Not a member? Sign up here."

WORKSPACES

What is a workspace?

A workspace is your current view of the map. This can include environmental or boundary layers such as EEZs, different sources of data such as AIS or VMS, and specific vessels or vessel groups.

Why would you want to save a workspace?

You may be looking into the pattern of a vessel's movements over a year and would like to save this information to come back to at a later date, instead of having to reselect all of the information each time you want to check.

When would you want to share a workspace?

You can share a workspace with a colleague or another team so they can visualise the information without having to go through the process of selecting each layer/vessel you have used.

1. Log In

In order to create, save and share a workspace, you must be a registered user of the Global Fishing Watch map. This will always be free and takes less than two minutes to register. You can register at www.globalfishingwatch.org/map by selecting the login icon at the bottom left of the screen.
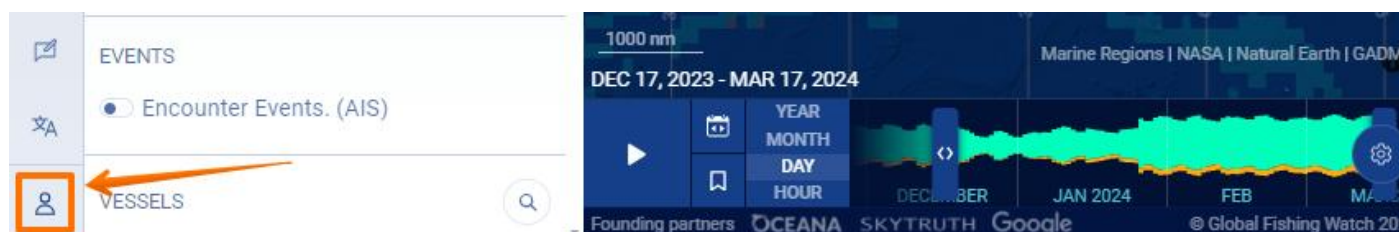
2. Create a workspace

After registering as a user and logging into the map, you can select any variables of interest. For example, if a user wanted to view the RV NATURALISTE tracks between March 2022 and April 2023 with the AIS fishing effort layer and the EEZ layer turned on, they would select the following.

Vessel: RV NATURALISTE
Activity: Toggle on Apparent fishing effort with AIS as the source
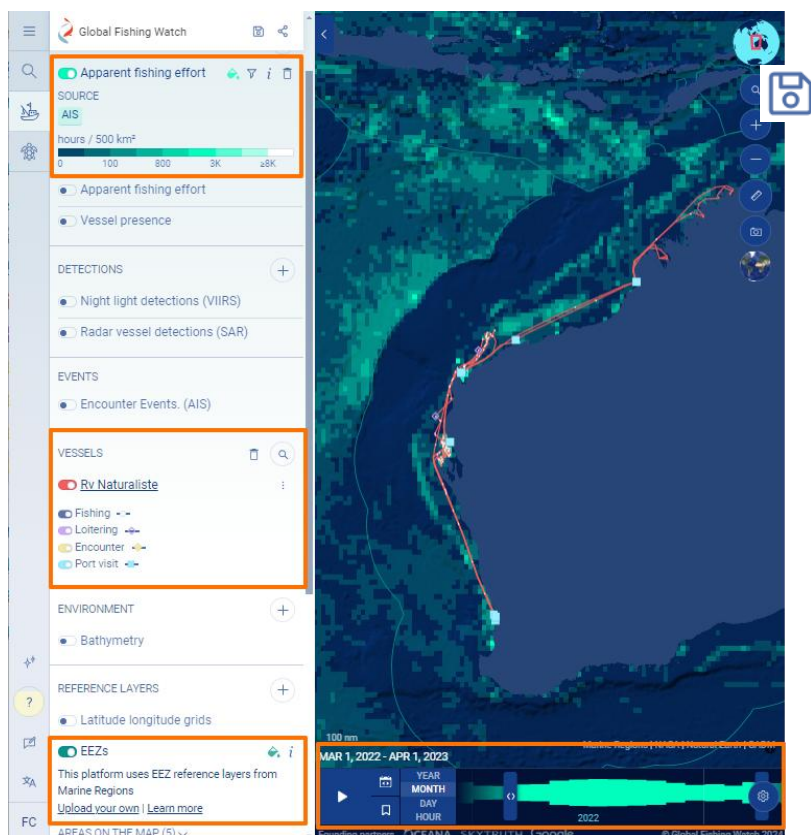**Reference Layer:** Toggle on EEZs
Date: Select the date range as March 2022 to April 2023

The results in the map will show the user the **AIS apparent fishing effort** within the displayed view, as well as the RV NATURALISTE tracks between the dates in question.

Apparent fishing effort; source AIS

Vessel of interest

Reference Layer; EEZ toggled on
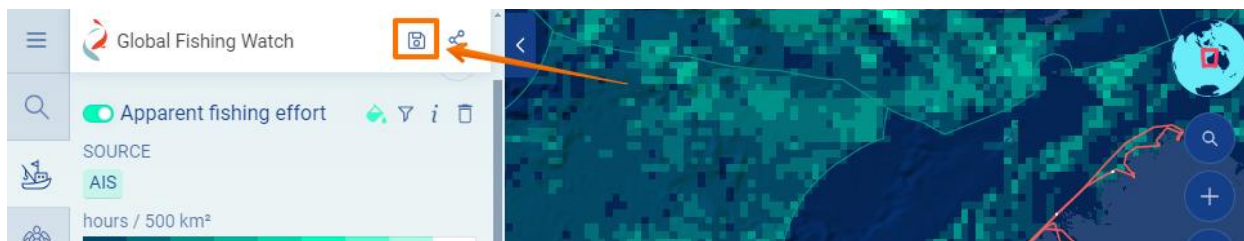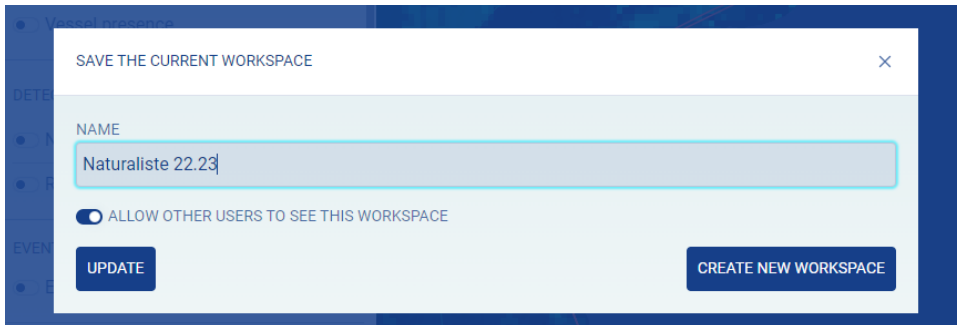
Date selection bar

3. Save a workspace

After creating a workspace, you can now save it. To do so, select the save button at the top of the map menu.

This will bring up a new window where you can name your workspace and select whether it can be viewed by other users, or whether it will be private. To share a workspace, you will need to select Allow Other Users to See this Workspace.

You can locate your saved workspaces by selecting your login initials at the bottom left of the screen. This will bring up a user menu, including USER INFO, WORKSPACES, DATASETS, REPORTS and VESSEL GROUPS. Select the workspaces tab to show all of your saved workspaces. Select the arrow icon to bring up that particular workspace. Use the pencil icon to edit the name and the bin icon to delete.
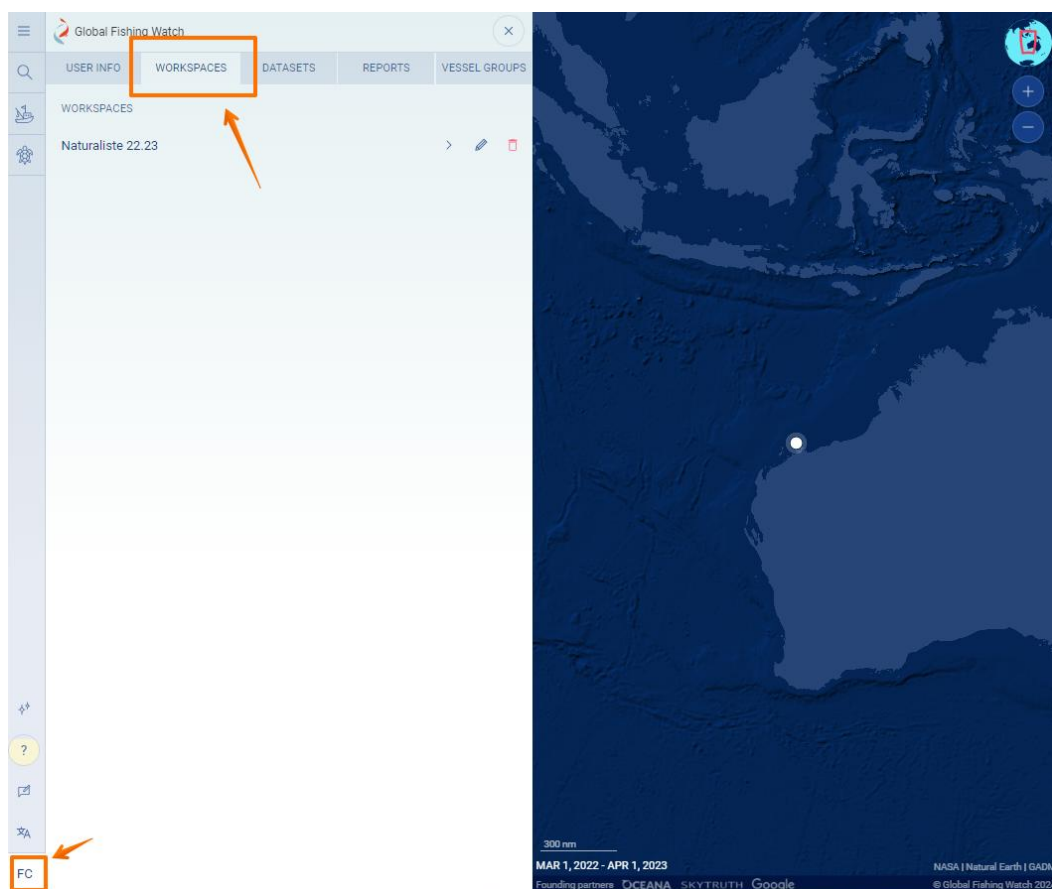
4. Share a workspace

To share a workspace, select the share icon next to the save icon. This will save a copy of the website link to your clipboard so you can paste it into another document, email or chat, for another user to access.

GFW map labels/layers and basic functionality

Global Fishing Watch
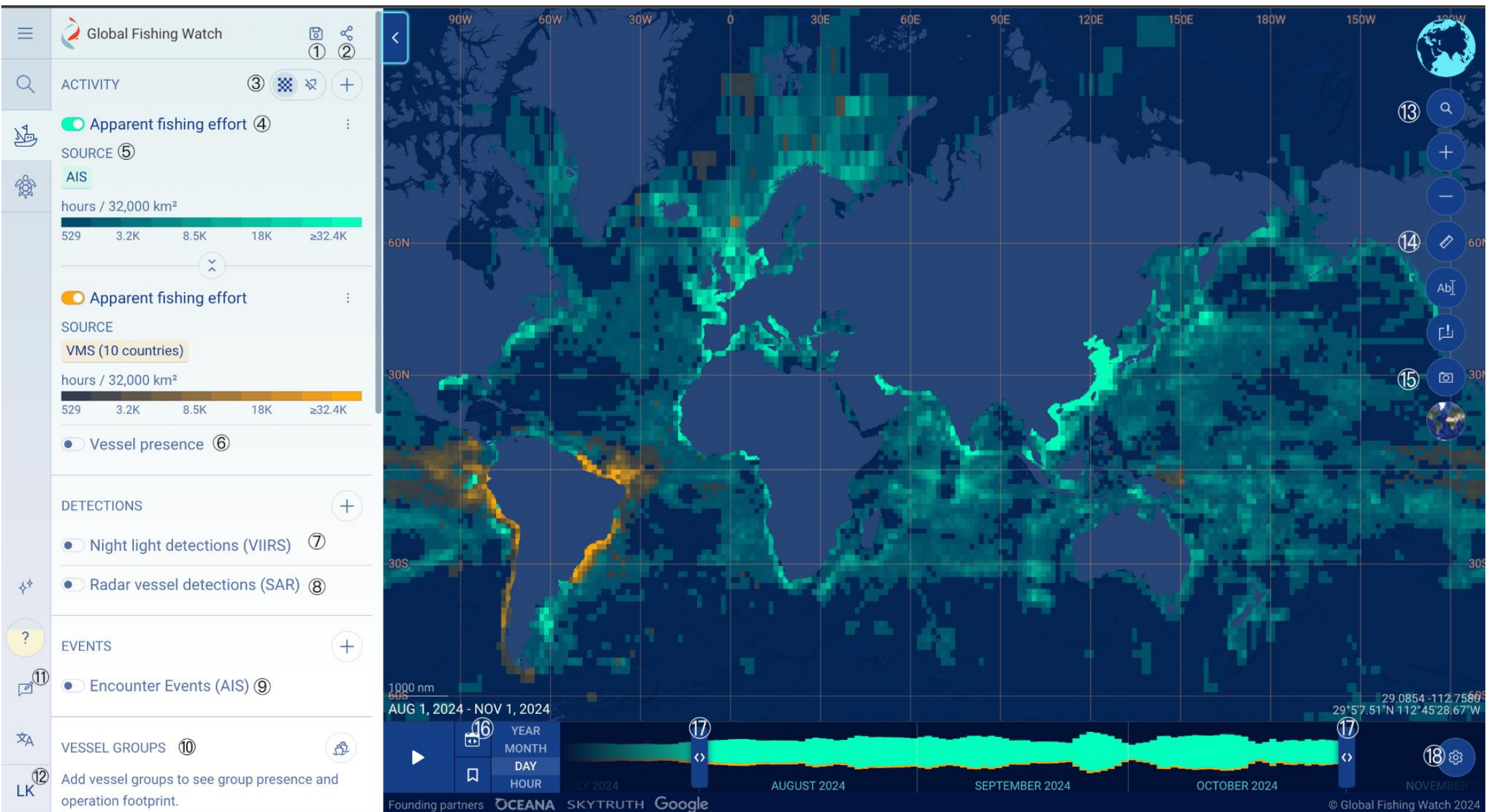
① Save workspace
② Share workspace/map
③ Change the resolution of the heatmap
④ Apparent fishing effort (estimated fishing effort)
⑤ Data source
⑥ Vessel presence
⑦ Night light detections (VIIRS)
⑧ Radar vessel detections (SAR)
⑨ Vessel encounter events (AIS)
⑩ Research a group of vessels
⑪ Write to GFW to share feedback or ideas for improvements
⑫ If you are logged in, you will see your initials.
⑬ Search ocean and sea area, MPAs or EEZs
⑭ Measure distance
⑮ Map screenshot
⑯ Date picker icon. You can select any time range from January 1, 2012, to up to 72 hours ago.
⑰ Timebar to select a time range
⑱ Open timebar setting

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① Search the vessel - Vessel Viewer
② Environment layer
③ Bathymetry
④ Reference layers
⑤ Latitute longitude grids
⑥ EEZs
⑦ Marine Protected Area (WDPA)
⑧ Marine Protected Area (ProtectedSeas)
⑨ FAO major fishing areas
⑩ Regional Fisheries Management Organization
⑪ High seas
⑫ Offshore fixed infrastructure
⑬ Locations
⑭ User datasets
⑮ Upload dataset
⑯ Draw a custom reference layer
⑰ Draw points
⑱ ✣ Add vessel to workspace

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BASIC ADVANCED ✕

Type to search for vessels (Name, IMO, MMSI or call sign)

Please translate to Vietnamese
"Type to search for vessels (Name, IMO, MMSI or

Please translate to

Search by vessel name or identification code.
You can narrow your search by clicking "ADVANCED" in the top menu bar.

Learn more about our identity work here.

USER GUIDE
Vessel Search

LK

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🚩 Alexia

REGISTRY	AIS *i*

DATES ①
Jan 19, 2017 - Nov 1, 2024

NAME ②	FLAG ③
Alexia	Spain

MMSI	IMO	CALL SIGN
224142870	9150585	EA2781

GFW VESSEL TYPE *i* ④	GFW GEAR TYPE *i* ⑤
Fishing	Drifting longline

● Jan 19, 2017 - Nov 1, 2024

SUMMARY ⑥	AREAS ⑦	RELATED VESSELS ⑧	INSIGHTS ⑨

96 events in 2 voyages between **Aug 1, 2024** and **Nov 1, 2024** in 2 EEZs, 1 FAO area, 4 RFMOs areas. ⑩

- 🔵 ■ 1 Port visit (Namibia) *i* ⑪
- 🔵 ○ 95 Fishing events (1,388.72 hours) *i* ⑫
- 🔵 ◆ 0 Encounter events *i* ⑬
- ⚫ ◇ Loitering events *i* ⑭

ACTIVITY BY TYPE ⑮	TIMELINE BY VOYAGES ⑯

⚓ 1 PORT VISIT ⌄

500 nm
AUG 1, 2024 - NOV 1, 2024

-8.3398 28.6941
8°20'23.16"S 28°41'38.60"E

YEAR
MONTH
DAY
HOUR

JULY · AUGUST · SEPTEMBER · OCTOBER · NOVEMBER

Founding partners OCEANA SKYTRUTH Google © Global Fishing Watch 2024

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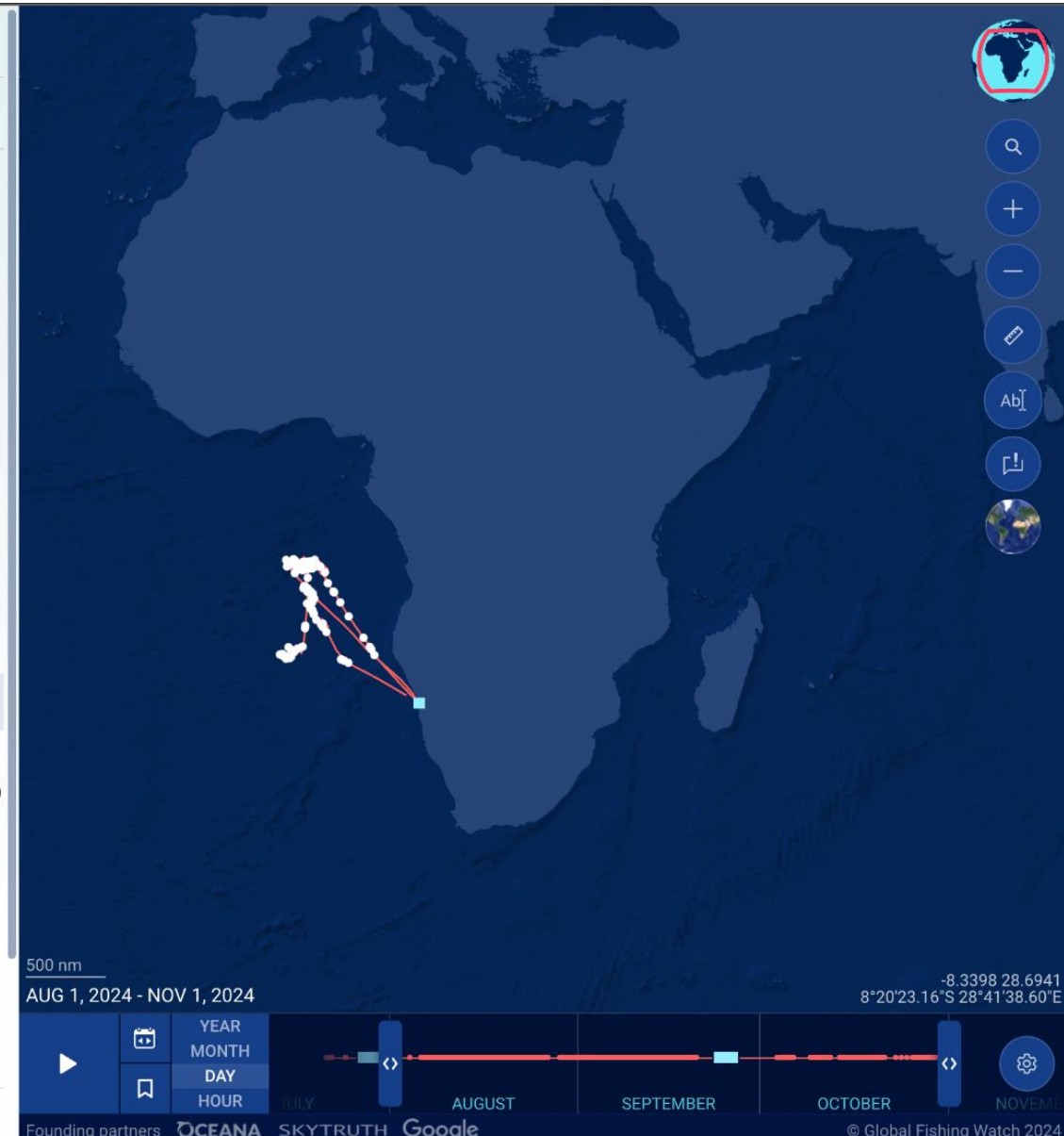
① Dates
② Vessel name
③ Flag
④ GFW Vessel type
⑤ GFW Gear type
⑥ Summary of activity
⑦ Areas
⑧ Related vessels
⑨ Insights
⑩ Download the data
⑪ Port visit
⑫ Fishing events
⑬ Vessel encounter events
⑭ Vessel loitering events
⑮ Activity by type
⑯ Timeline by voyages

Global Fishing Watch

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Alexia

AUTHORIZATION *i*

CCSBT Jan 1, 2019 - Sep 1, 2024   IATTC May 1, 2019 - Nov 1, 2023
CCSBT Jan 1, 2012 - Dec 31, 2017   ICCAT Jan 1, 2019 - Sep 1, 2024
IATTC Mar 1, 2024 - Sep 1, 2024   IOTC Jan 1, 2013 - Sep 1, 2024

PRINT   ADD TO VESSEL GROUP

SUMMARY   AREAS   RELATED VESSELS   INSIGHTS

Vessel insights between Aug 1, 2024 and Nov 1, 2024 *i*

AIS COVERAGE EXPERIMENTAL *i*
100%

Please translate to Vietnamese
"AIS coverage *Experimental"

AIS OFF EVENTS EXPERIMENTAL *i*
No AIS Off events detected

AIS disconnection events

FISHING EVENTS *i*
No fishing events detected in no-take MPAs
No fishing events detected outside known RFMO authorized areas

Fishing events

RFMO IUU vessel list

RFMO IUU VESSEL LIST *i*
The vessel is not present on an RFMO vessel list

Flag Changes (Changing the Vessel's Registered
Flag State)

FLAG CHANGES *i*

Tokyo and Paris MOU lists

TOKYO AND PARIS MOU LISTS *i*

LK

500 nm
AUG 1, 2024 - NOV 1, 2024

YEAR
MONTH
DAY
HOUR

JULY   AUGUST   SEPTEMBER

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