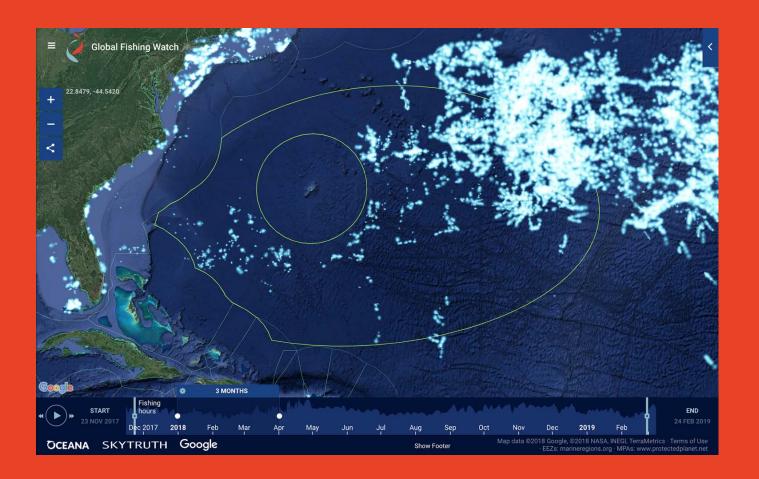
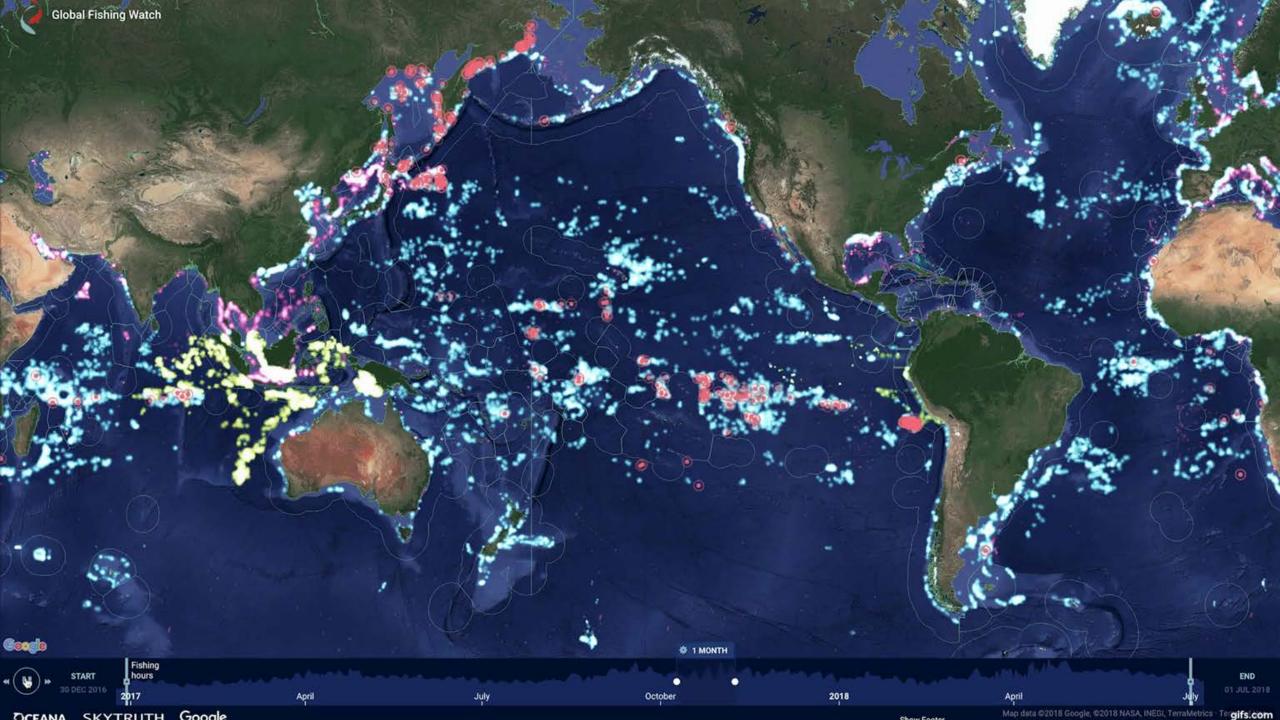
Global Fishing Watch

Sargasso Sea Commission 13 March 2019



Paul Woods
Co-Founder and CTO





Bloomberg Philanthropies



























Global Fishing Watch

Position Statement

Transparency is crucial for good stewardship of our global ocean - to fight illegal fishing, to protect fish stocks and livelihoods, and to increase the safety and well-being of fishers.

Building Transparency Technology - Research - Analysis - Policy



GFW Public Platform



Global

Shows the fishing activity of ~70,000 publicly trackable commercial fishing vessels operating in the ocean



Near real-time

Regularly updated to show vessel tracks and fishing activity from January 1, 2012 through three days prior to present time



Easy to use

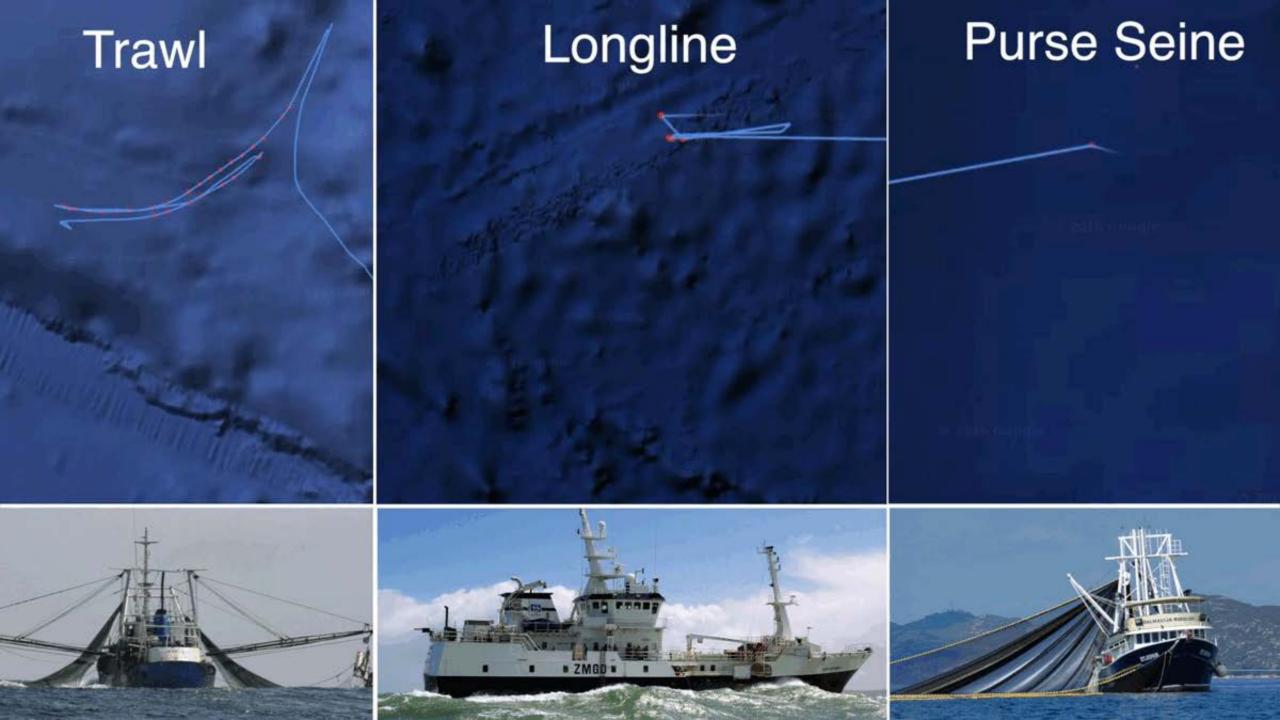
Designed so both experts and non-experts can see and assess fishing activity at a glance and track individual vessels over time

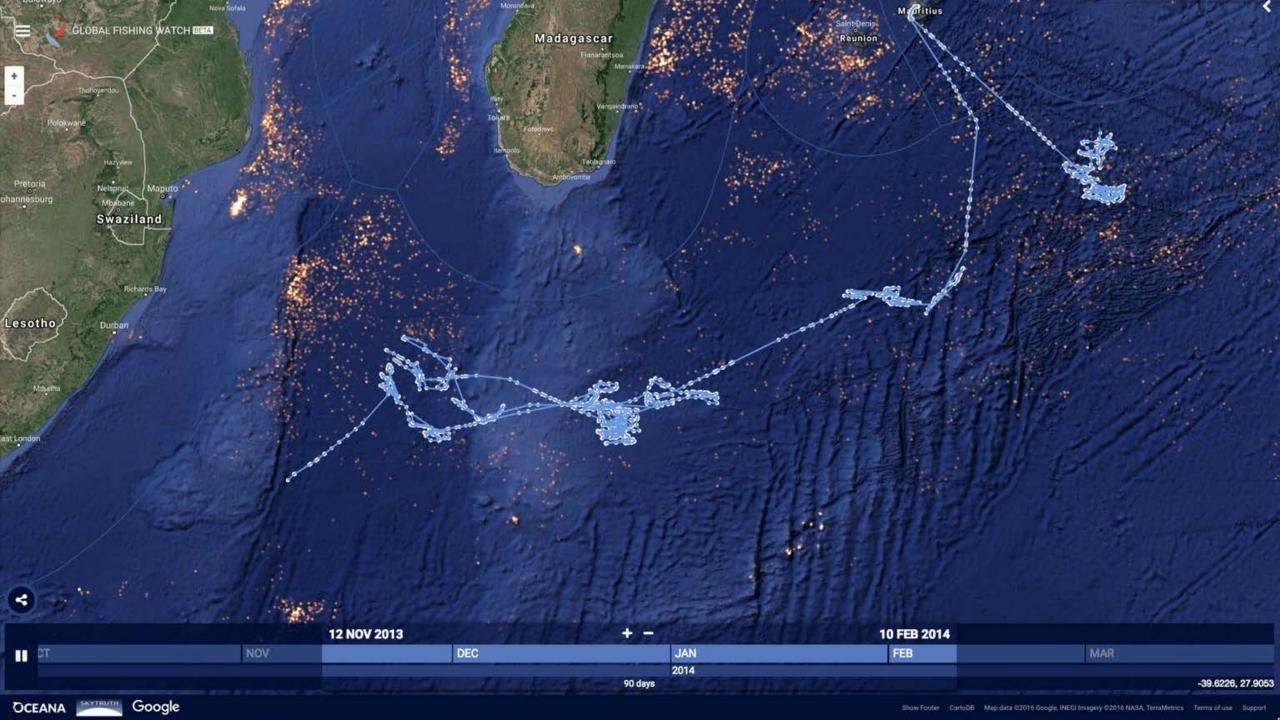


Free for everyone

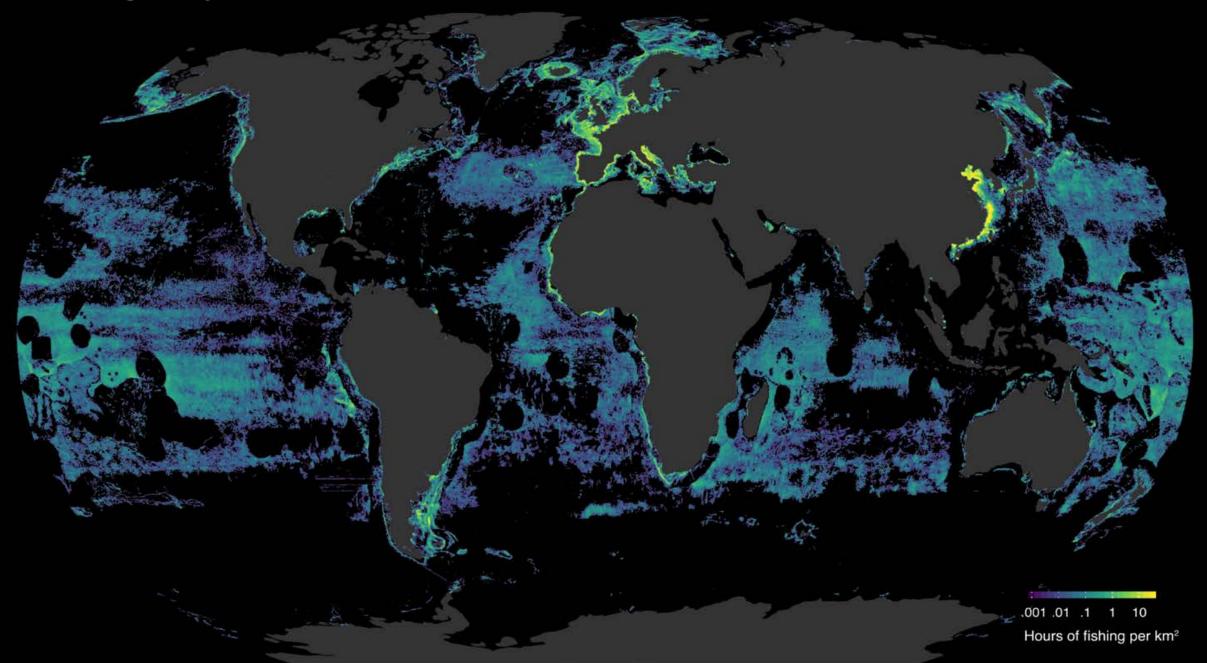
Available to anyone in the world with an internet connection

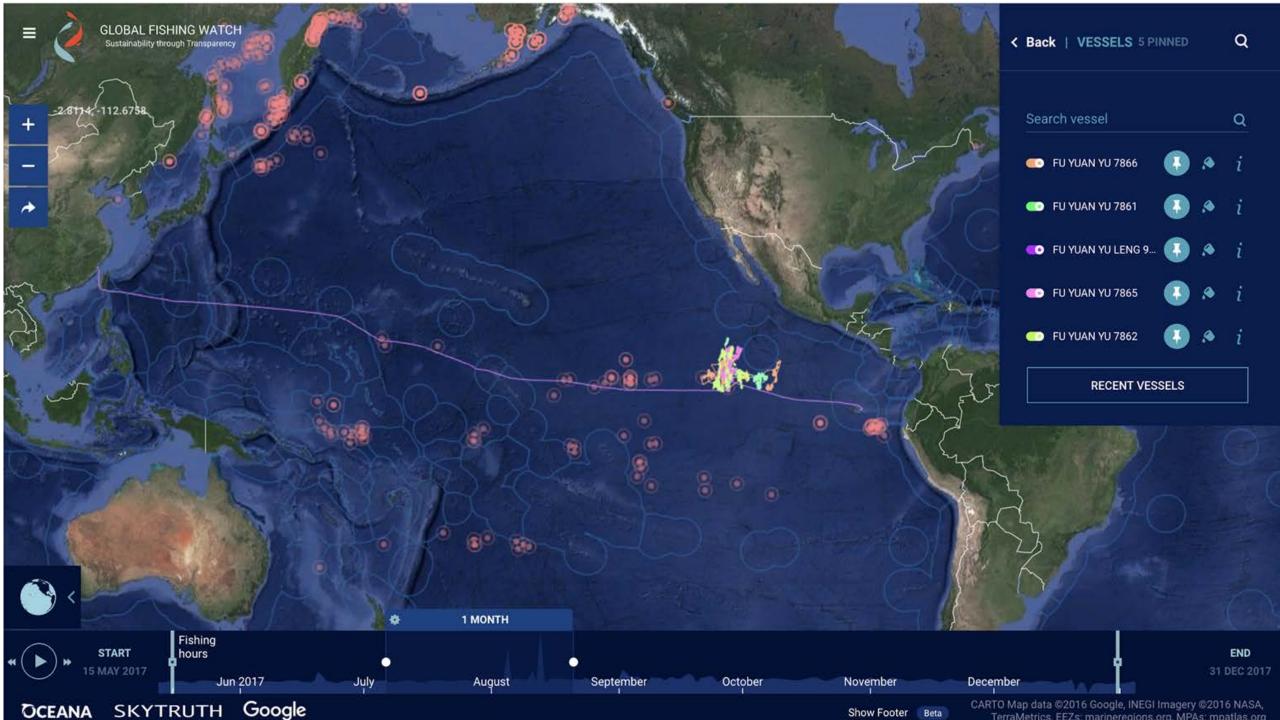






Global Fishing Activity, 2016





Global Fishing Watch research program

Enable global scientific, economic, and policy work that would not be possible without a large scale analysis platform & shared new data products.





























3 years since inception

papers published

25+ papers in progress



Science AUGUST 2018
Vances

TEACHING HANDS-ON vel ways to ains and for improved

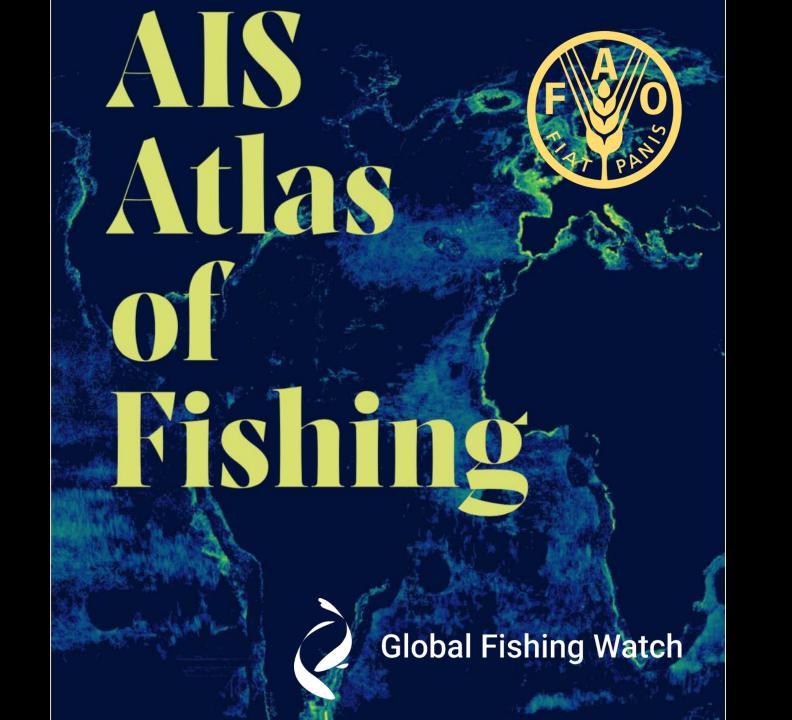
Our results show how longline fishing effort can be predicted...

The environmental niche of the global high seas pelagic longline fleet



Guillermo Ortuno Crespo, Daniel C. Dunn, Gabriel Reygondeau, Kristina Boerder, Boris Worm, William Cheung, Derek P. Tittensor, Patrick N. Halpin. Science Advances. 08 Aug 2018: EAAT3681. Read paper - Blog

post - Press release



Analysis and Policy Cell

- Produce analysis that supports at least 10 nations adopting transparency and make these analysis as public as possible
- Improve analytical resources and fisheries management skills available to member states by increasing the amount and quality data on the nature of fishing available, for free, globally
- Advancing the body of fisheries knowledge, by making GFW data and partner research widely available













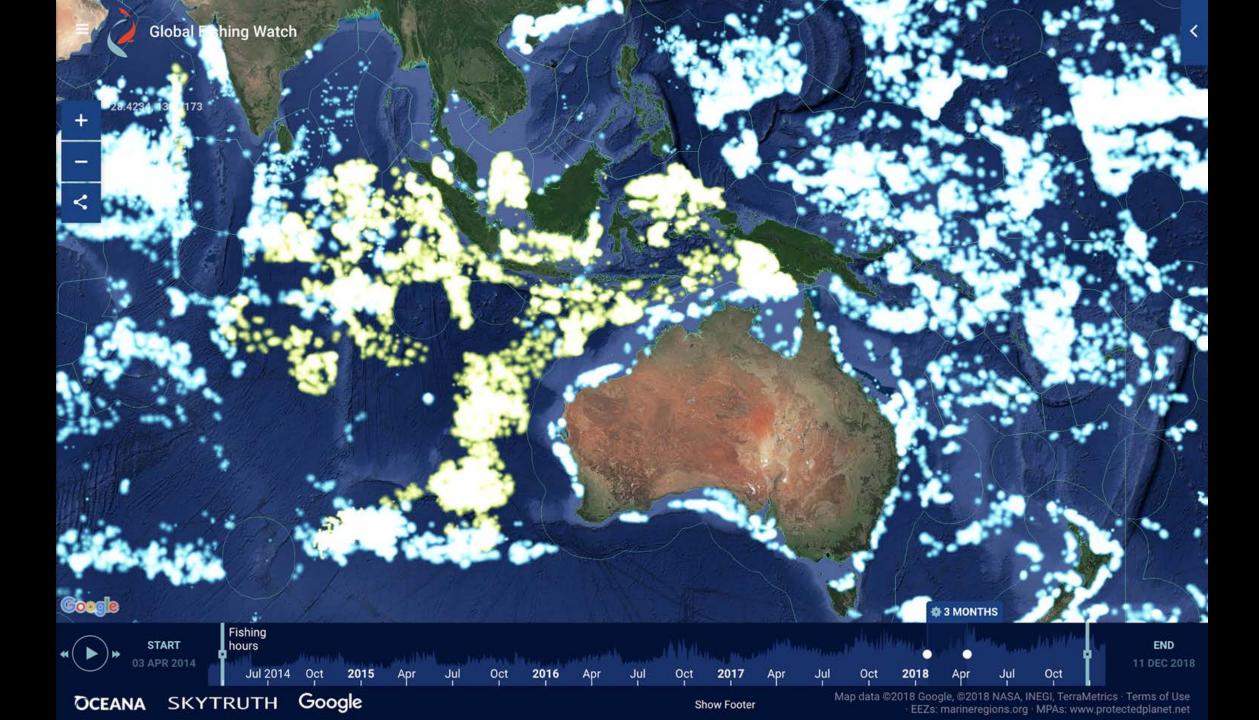


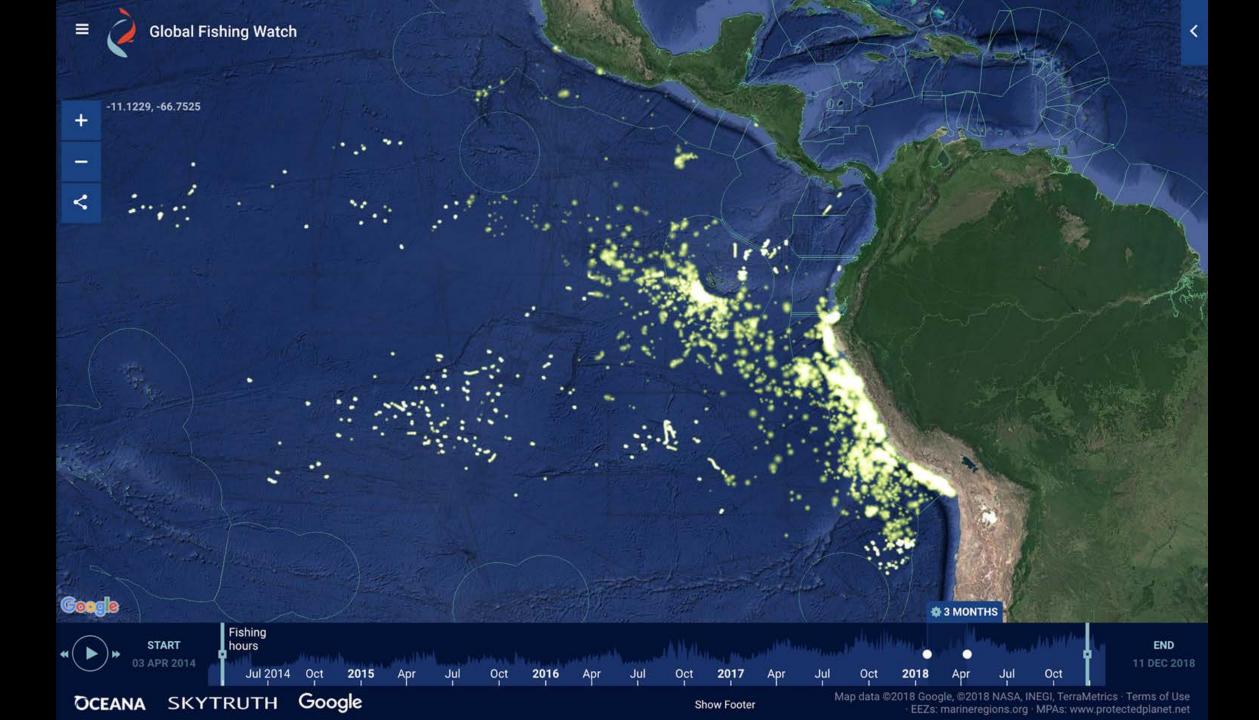
VMS Transparency Program

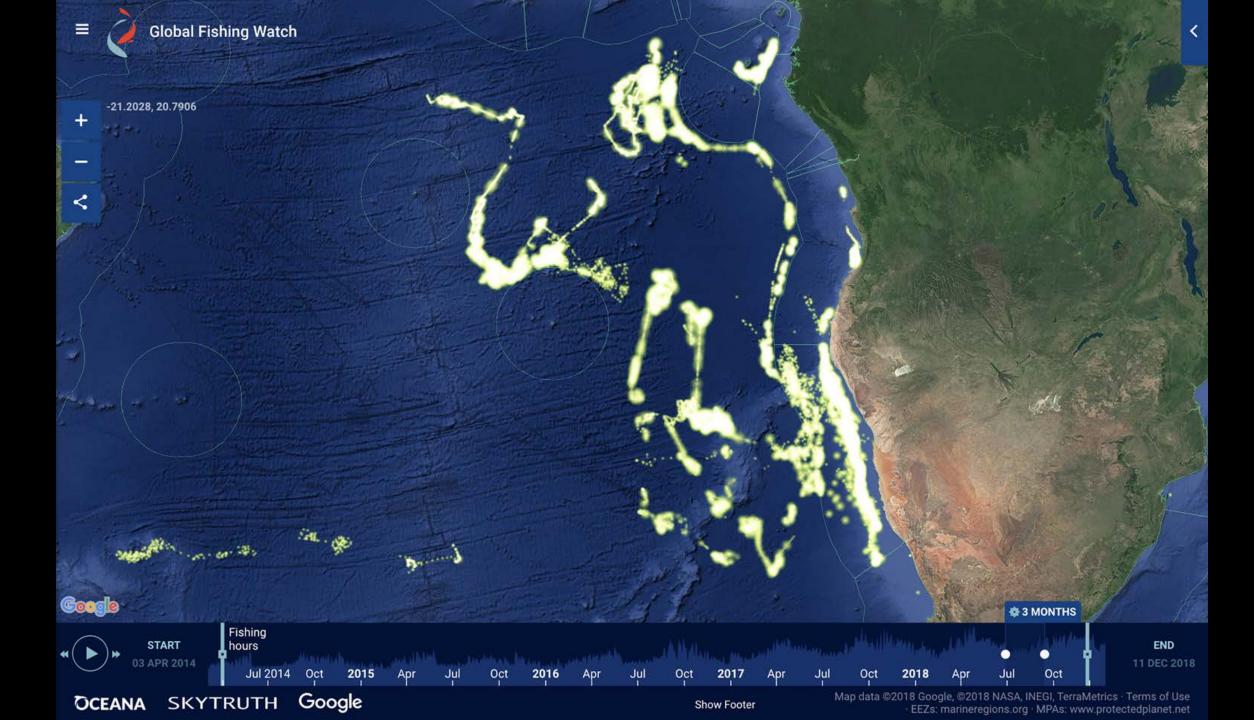
Public VMS	Letter of Intent	In Progress
Indonesia Peru	Costa Rica	Namibia Panama Mexico Chile

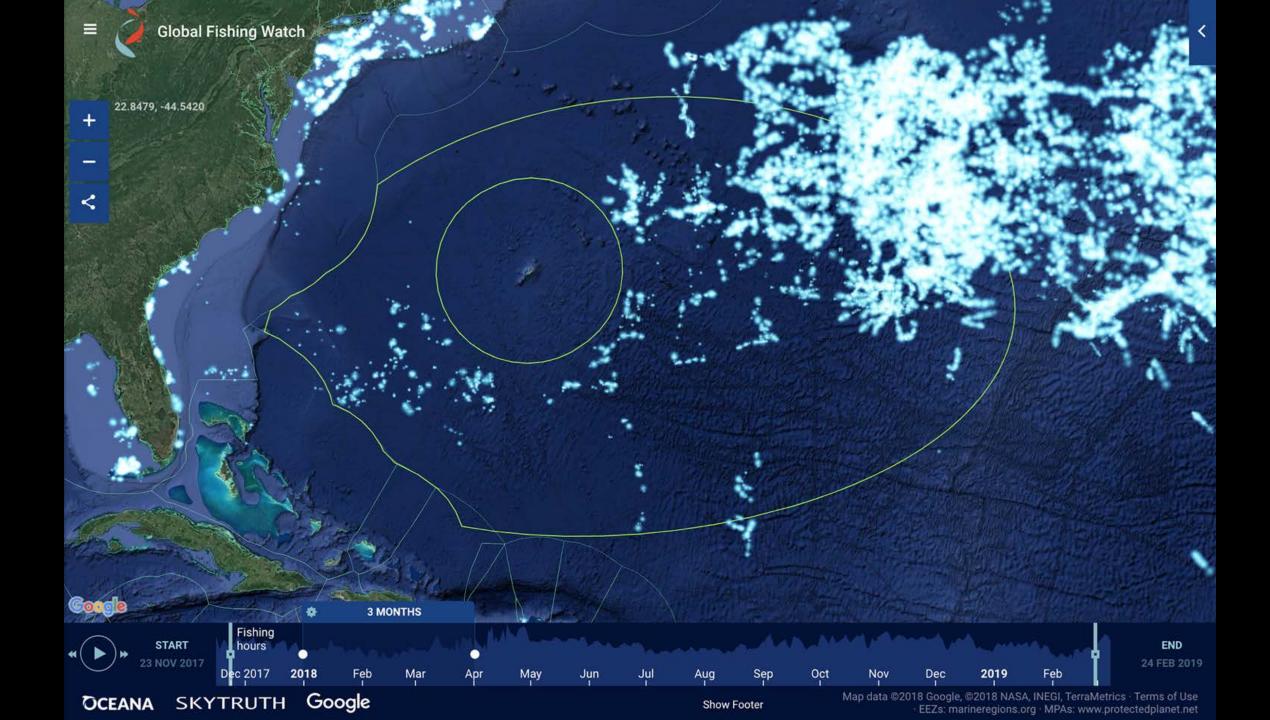
Working to have 20 countries on board within the next 5 years Rep. of Korea, Taiwan, Philippines, Thailand Latin America



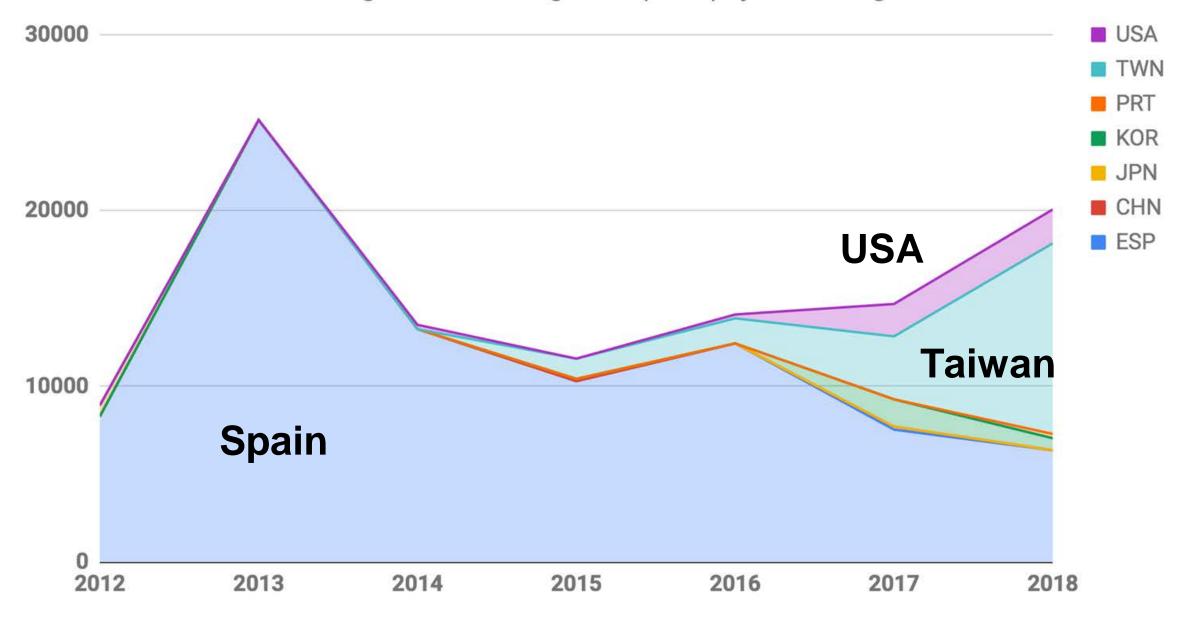


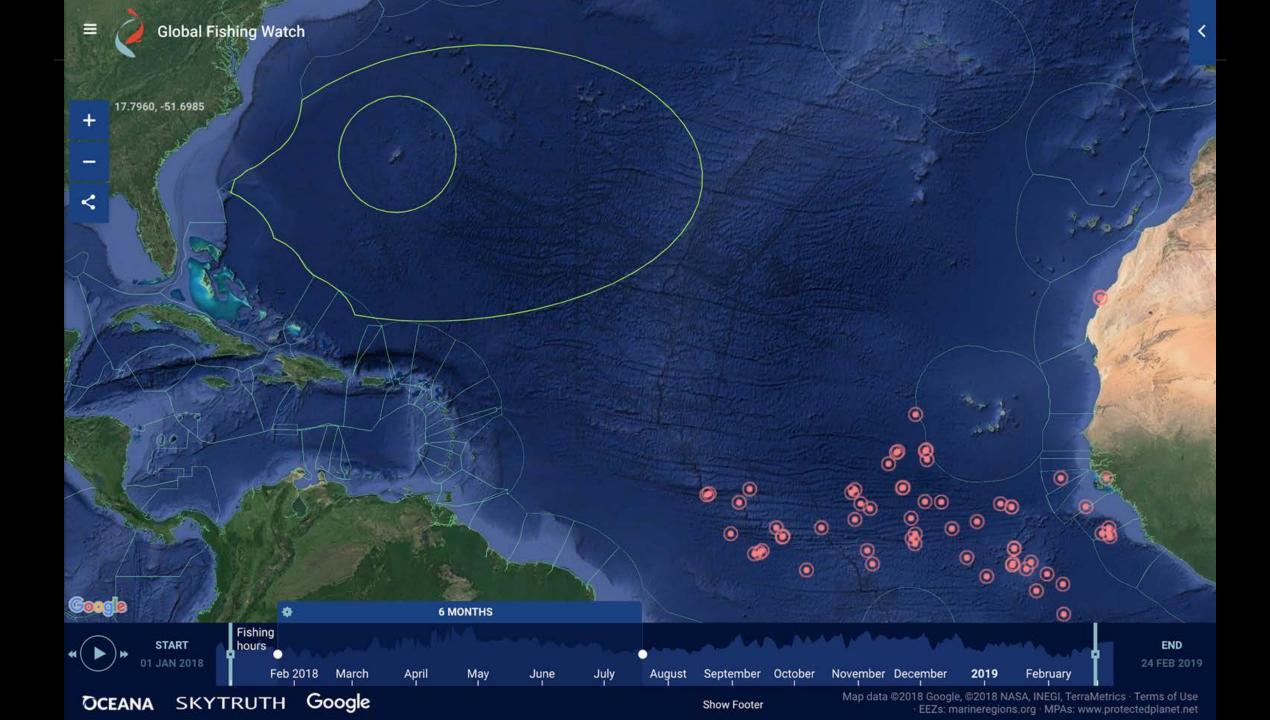




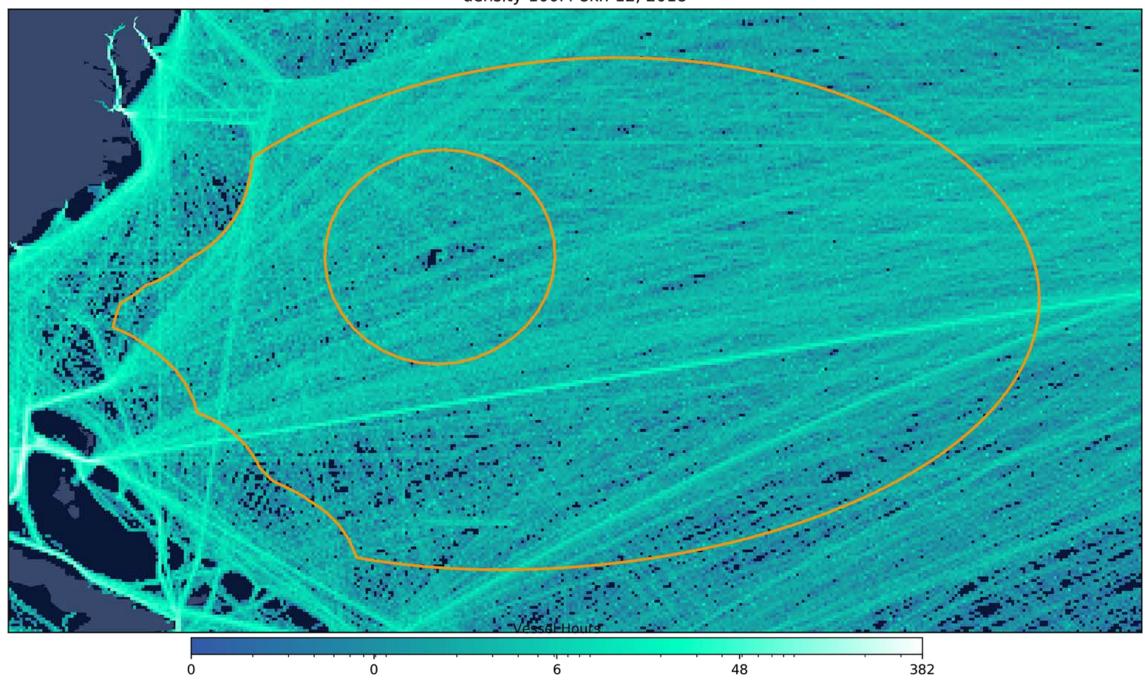


Annual Sargasso Sea Fishing Effort (hours) by Vessel Flag State

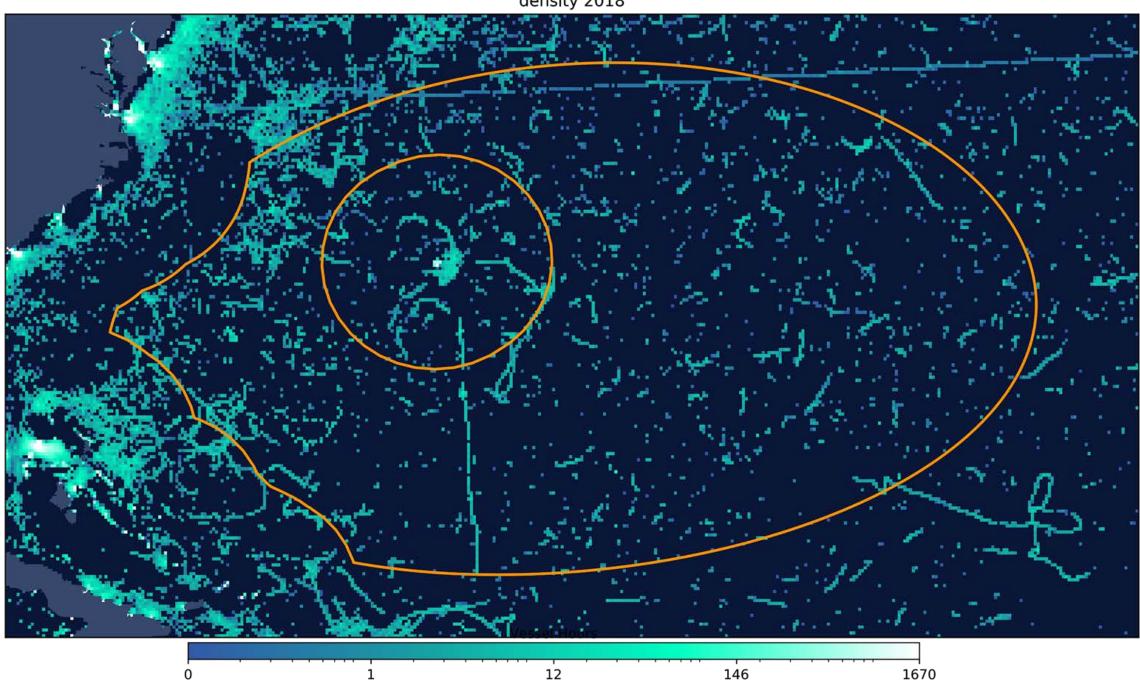




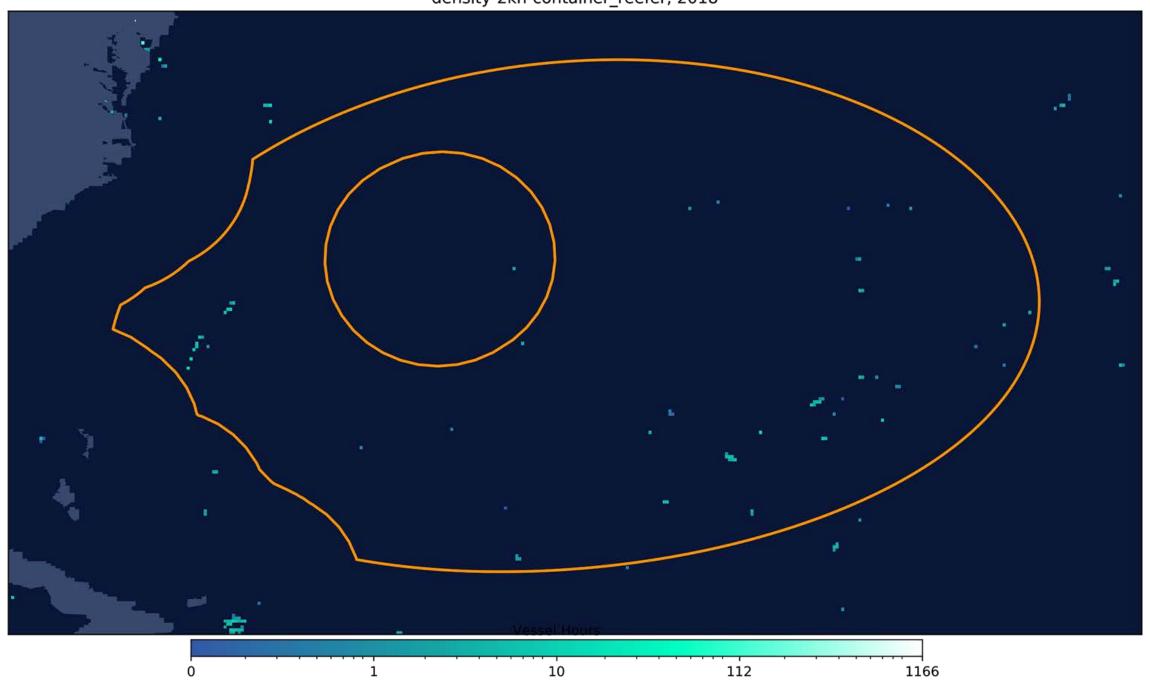
density-100M-8kn-12, 2018



density 2018



density-2kn-container_reefer, 2018



Loitering Carrier Vessels

Less than 2 knots at least 4 hours, 10 nautical miles from shore

15 events shown here within the Sargasso Sea6 different carrier vessels4 flag states

Liberia (3), Bahamas, Panama, St.Kitts & Nevis





DEEP SEA MINING WATCH

Seabed mining

Biodiversity

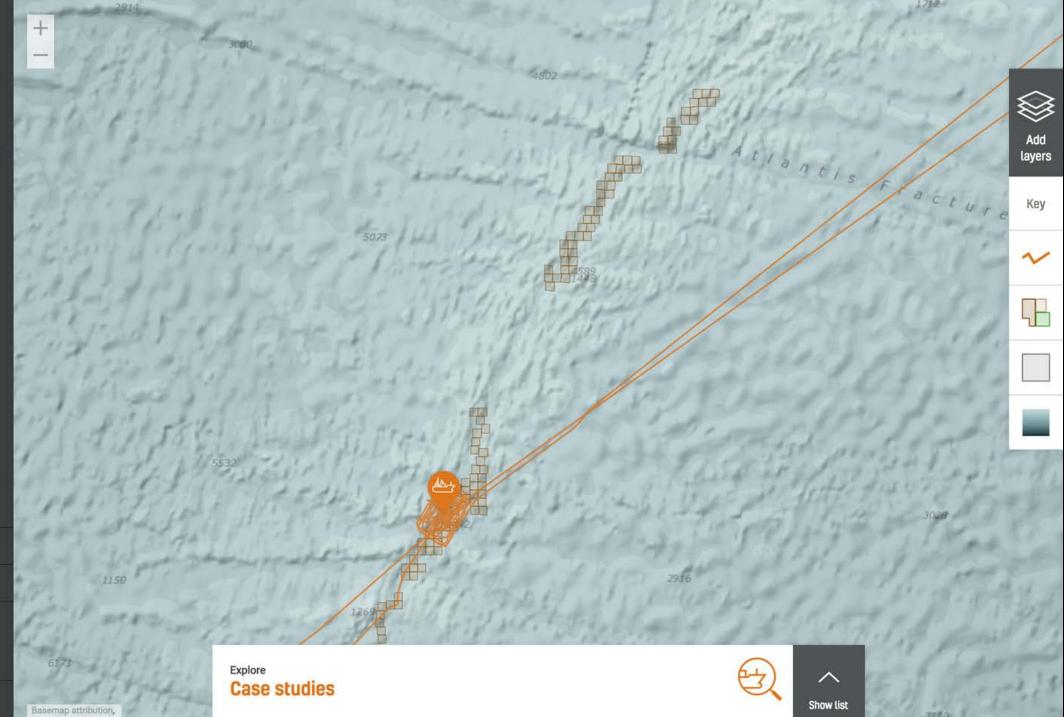
Ecosystem impacts

About

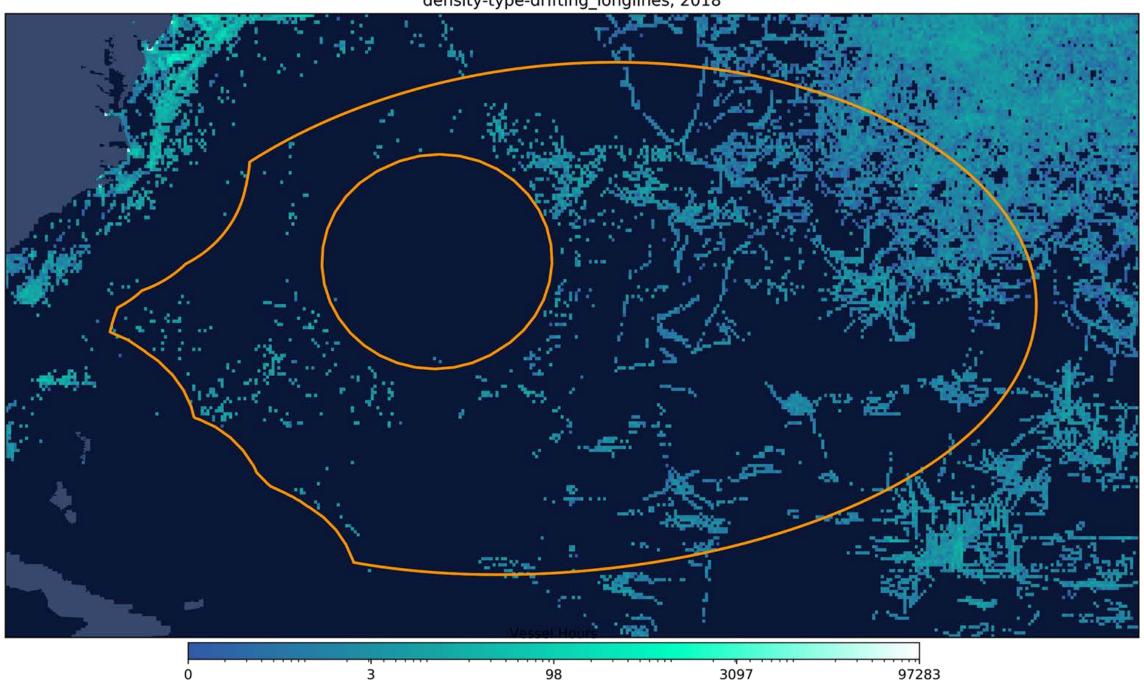
Share

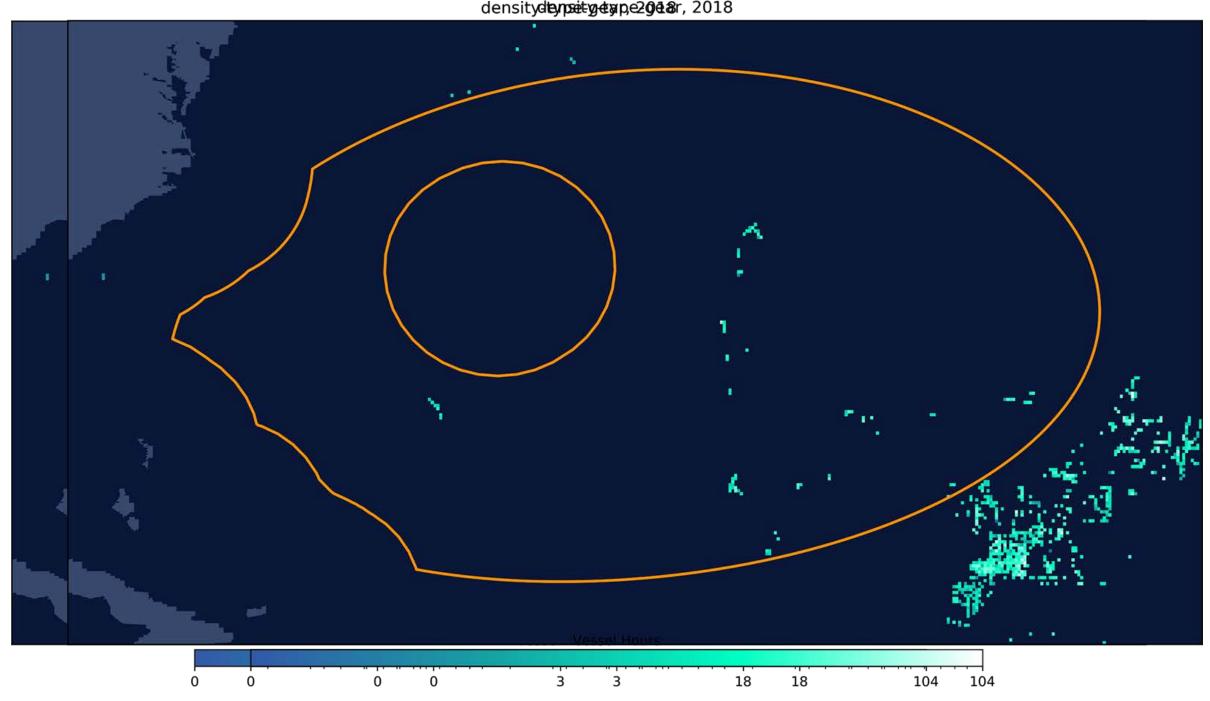


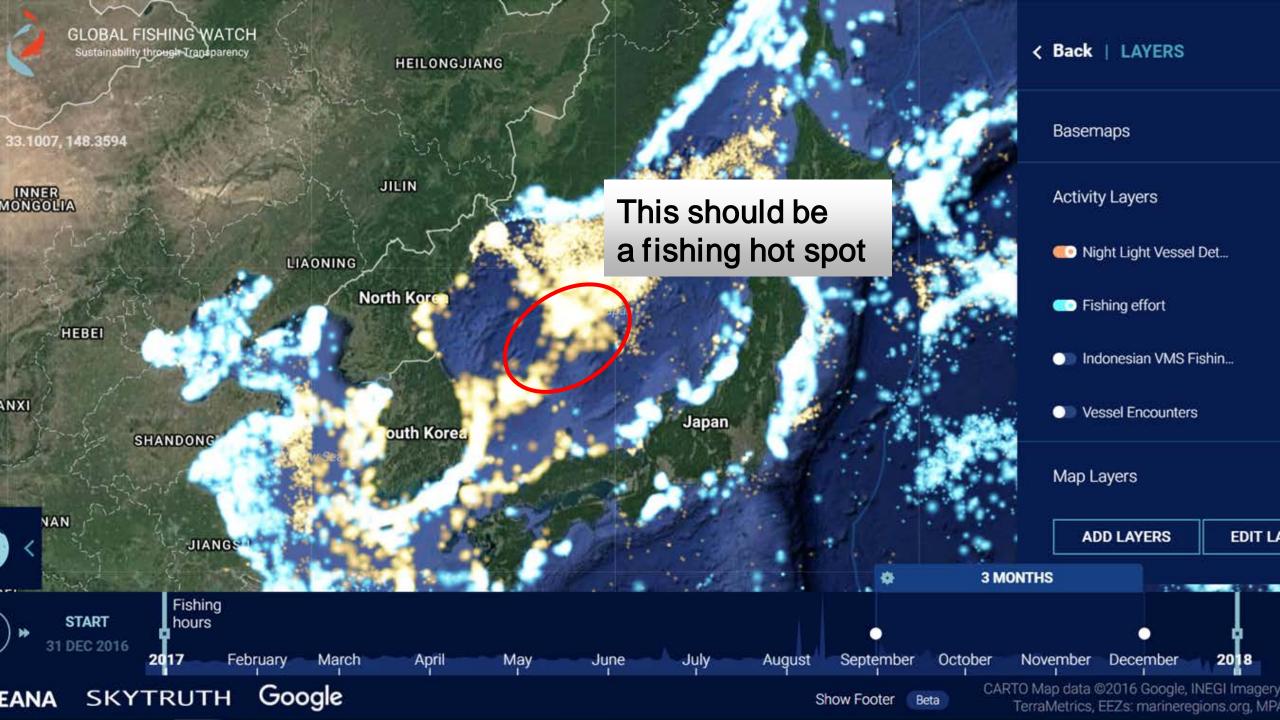


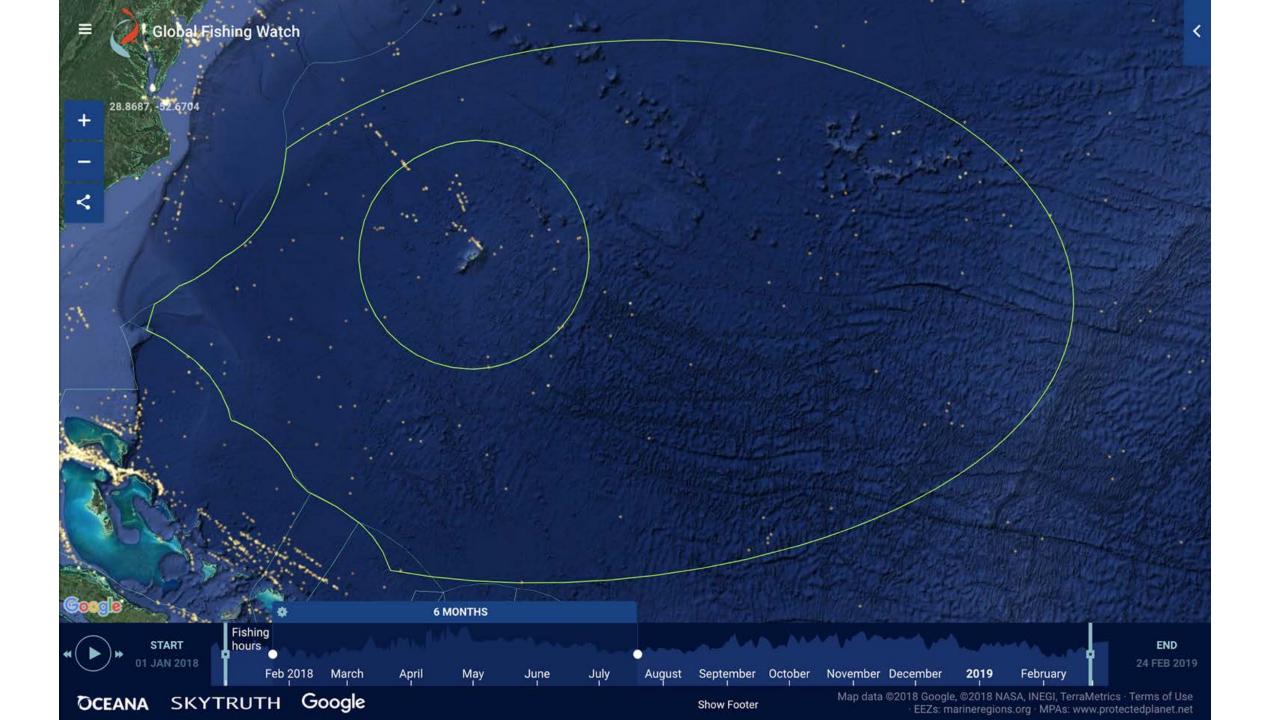


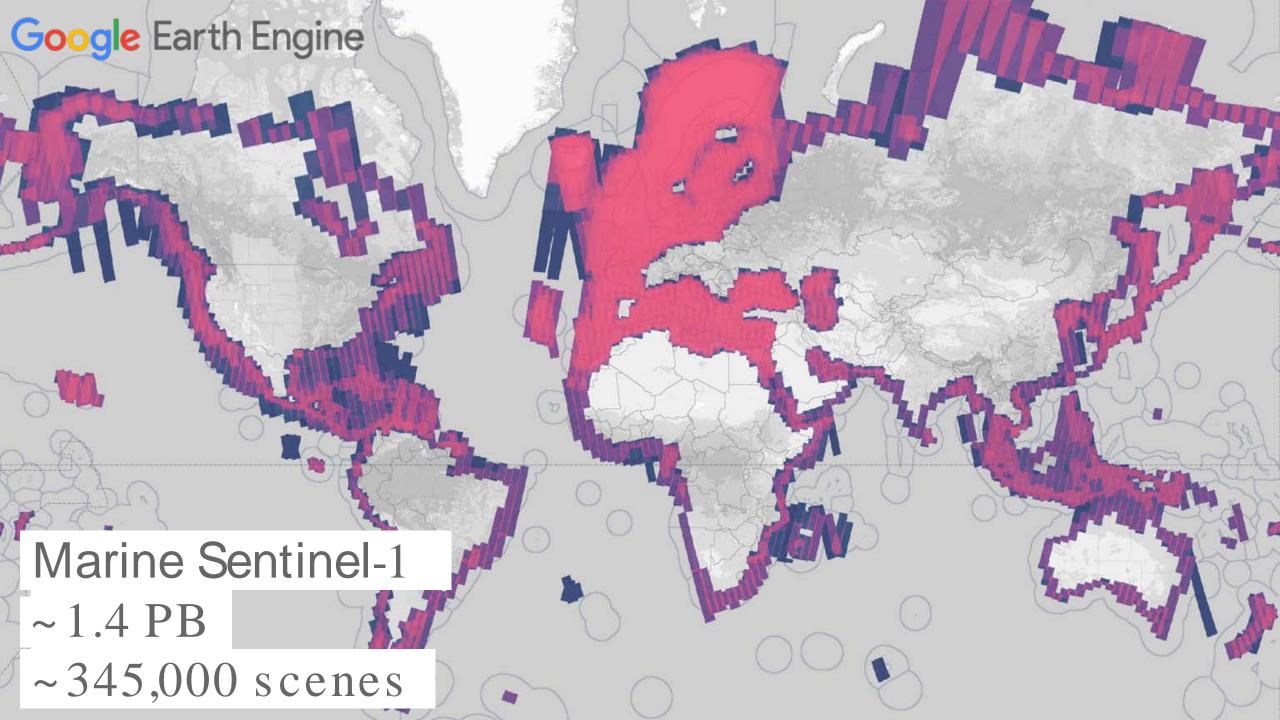
density-type-drifting_longlines, 2018



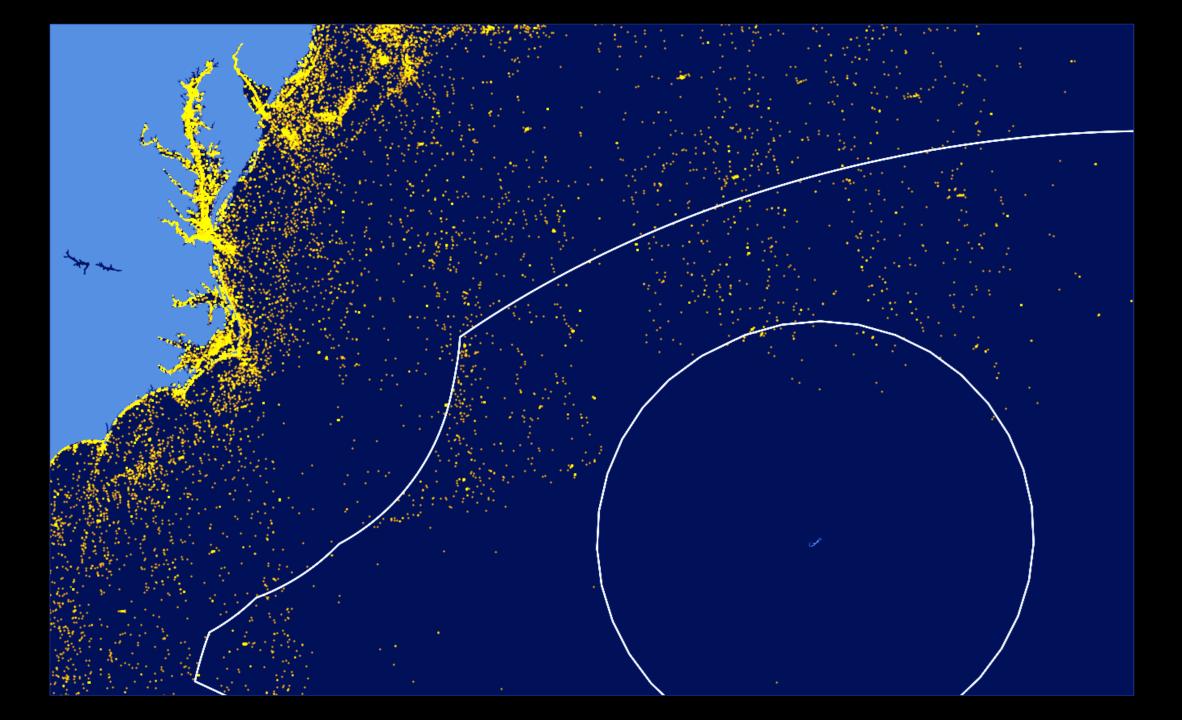






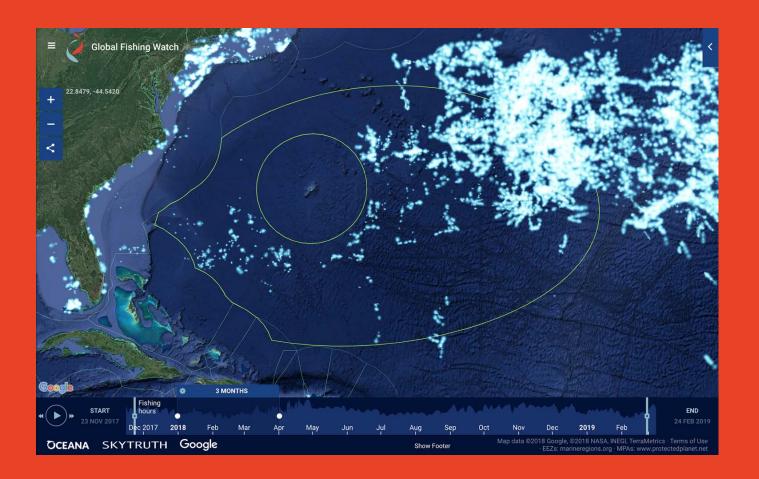






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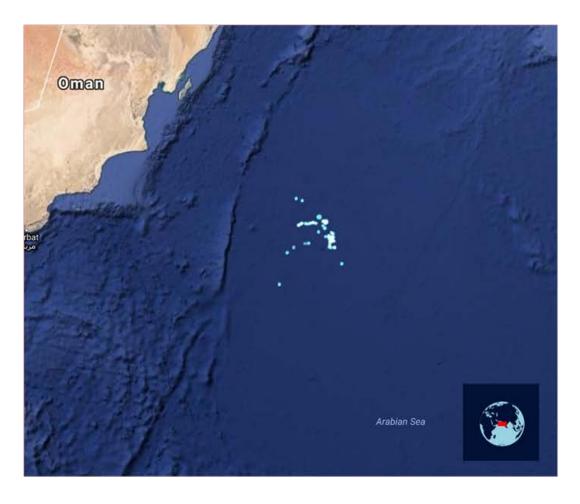
Paul Woods
Co-Founder and CTO

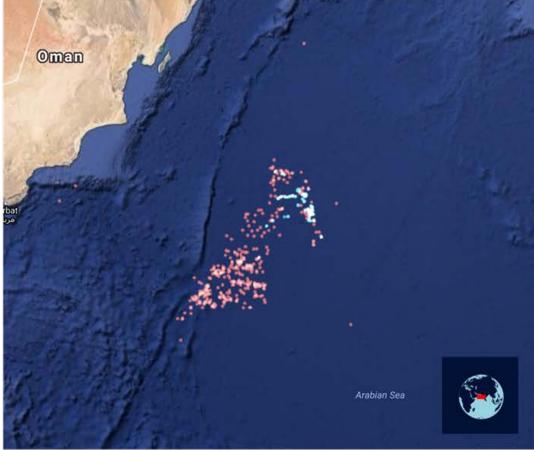


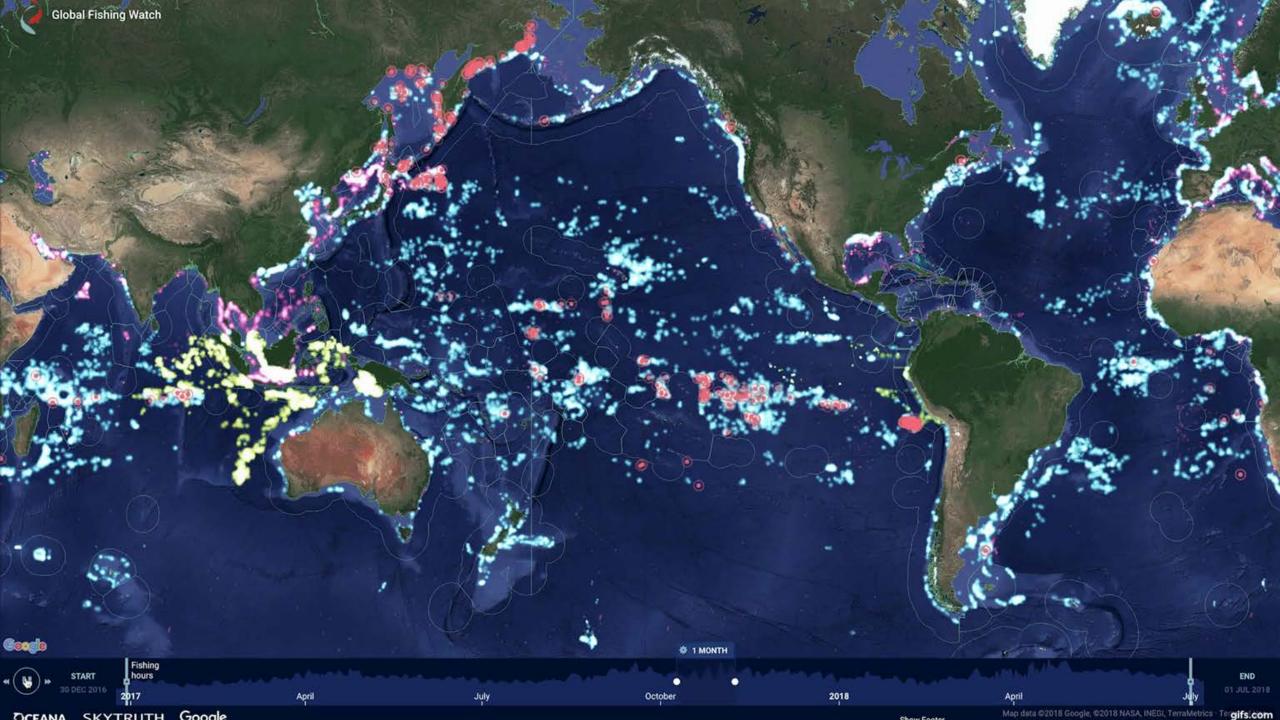
Shining a light on hidden fishing activity

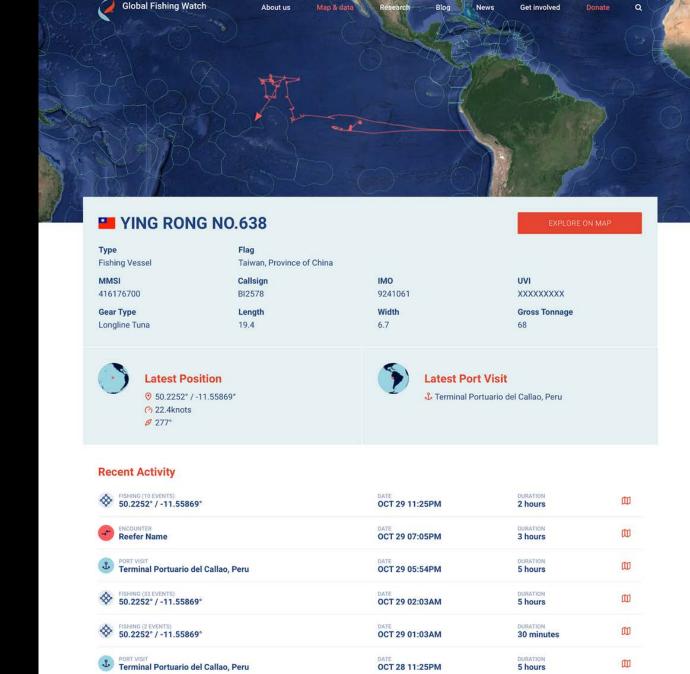
Global Fishing Watch's new VIIRS layer uses satellite imagery from the U.S. National Oceanic and Atmospheric Administration to reveal the location and activity of brightly lit vessels operating at night. Globally, VIIRS satellites detect 10,000-20,000 boats each night that don't show up on other monitoring systems. Left panel: a fleet of fishing vessels in the Arabian sea, using data from AIS (blue dots), an automated ship tracking system. Right panel: with the addition of VIIRS data (red dots), the actual size of the fleet is revealed to be many times larger.











DURATION

5 hours

10 hours

OCT 28 09:03AM

四

回

PORT VISIT
Terminal Portuario del Callao, Peru

FISHING (40 EVENTS)
50.2252° / -11.55869°

Goal - Public tracking of Fishing Vessels:

Public Sharing of VMS: engage with governments and receive public commitments towards ocean transparency, ideally showcased by the government going public with their VMS through GFW.

OR

Mandating AIS: encourage governments to mandate AIS systems on commercial vessels.

- Unreported fishing can be addressed by mandating data gathering and creating consistent, user-friendly formats for it on boats and on the docks
- Once these measures are taken to improve near shore fisheries, technology can play a much more effective role in monitoring and enforcement



We also would like to see:

Publication of an Authorized Vessel List: encourage governments to published Authorized Vessel List in a timely manner Tracking of Small Scale Fisheries: develop a system for tracking of small scale/artisanal fleets



