

Global Fishing Watch

Blue Belt Technology Event

Tony Long
CEO



Global Fishing Watch

Our vision

Healthy, productive and resilient oceans where transparent and effective governance of marine resources supports biodiversity and sustainable development.

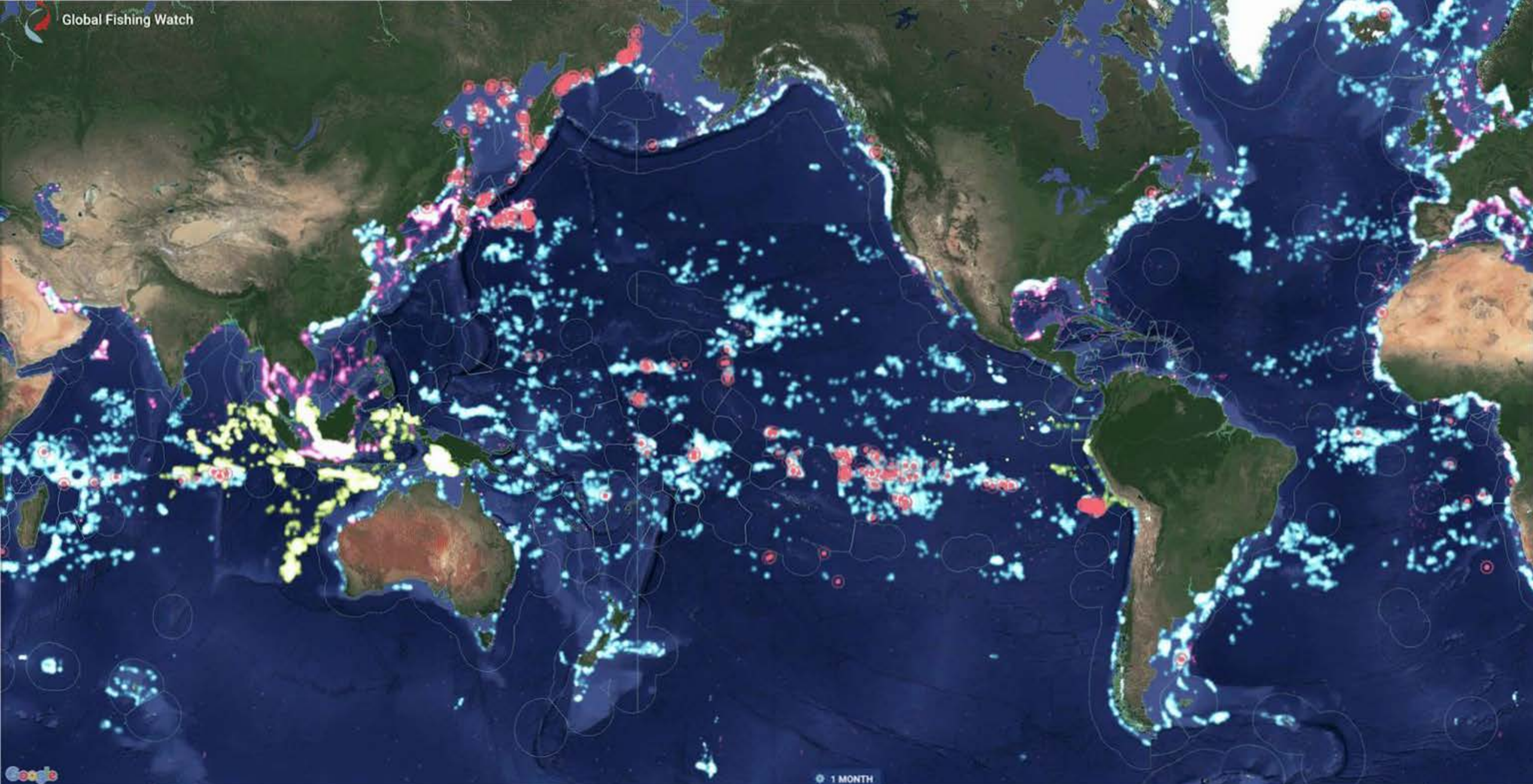
Our mission

Advance ocean sustainability through increasing transparency;

- Within the next 10 years, reveal the vast majority of the world's commercial fishing activity – capturing some 300,000 of the largest vessels responsible for 75% of the global marine catch – and increase our ability to track more small-scale fishing vessels.
- Revolutionize the ability to monitor and visualize the global commercial fishing fleet, offering near real-time tracking of fishing activity via our map and downloadable, free data
- Accelerate scientific research and innovation, promote effective fisheries policy, boost global dialogue on transparency in fisheries, and improve market incentives and seafood traceability.



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Our Work What's Next?



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What's Next?

Technology and
Platform Access

Transparency

Data and Analysis

Science Research and
Innovation



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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



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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



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| Public VMS | Letter of Intent | Verbal Commitment |
|-------------------|------------------|-------------------|
| Indonesia Peru | Costa Rica | Panama Namibia |

Working to have 20 countries on board within the next 5 years



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Data and Analysis 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

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Cefas



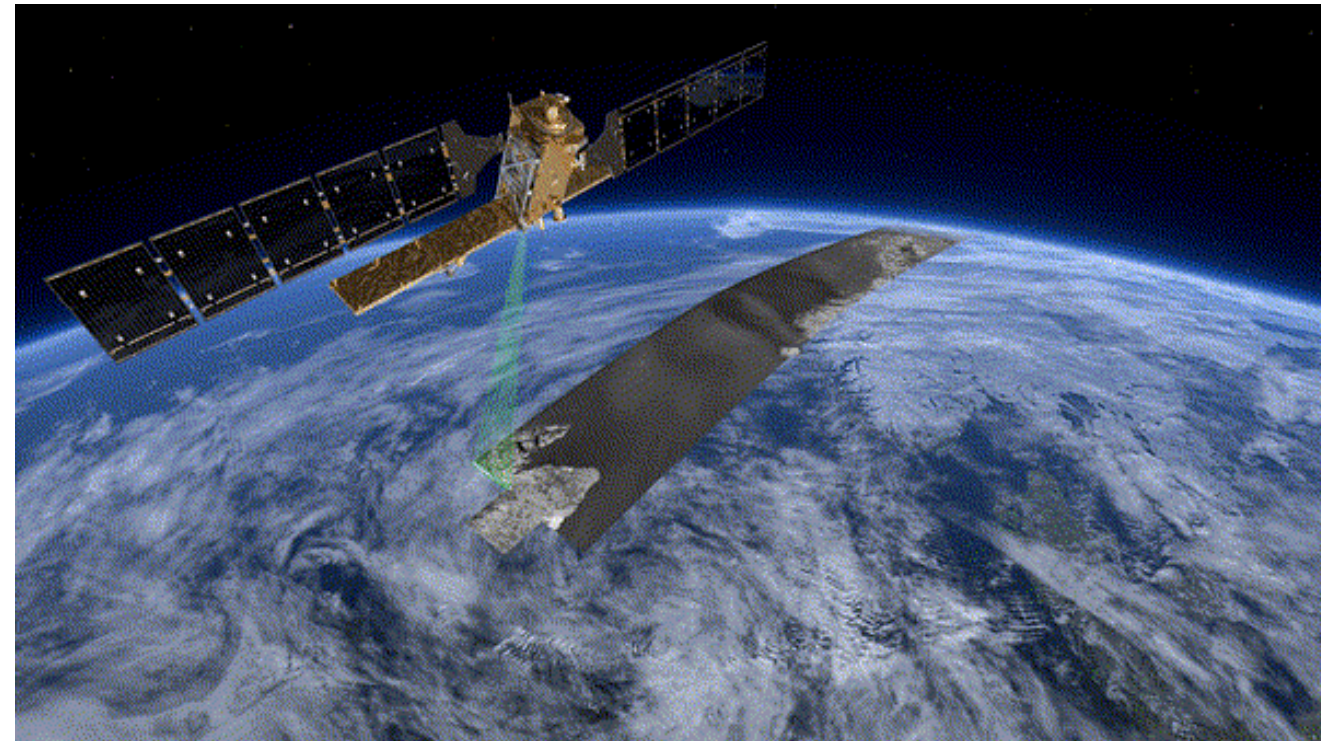
SKYTRUTH



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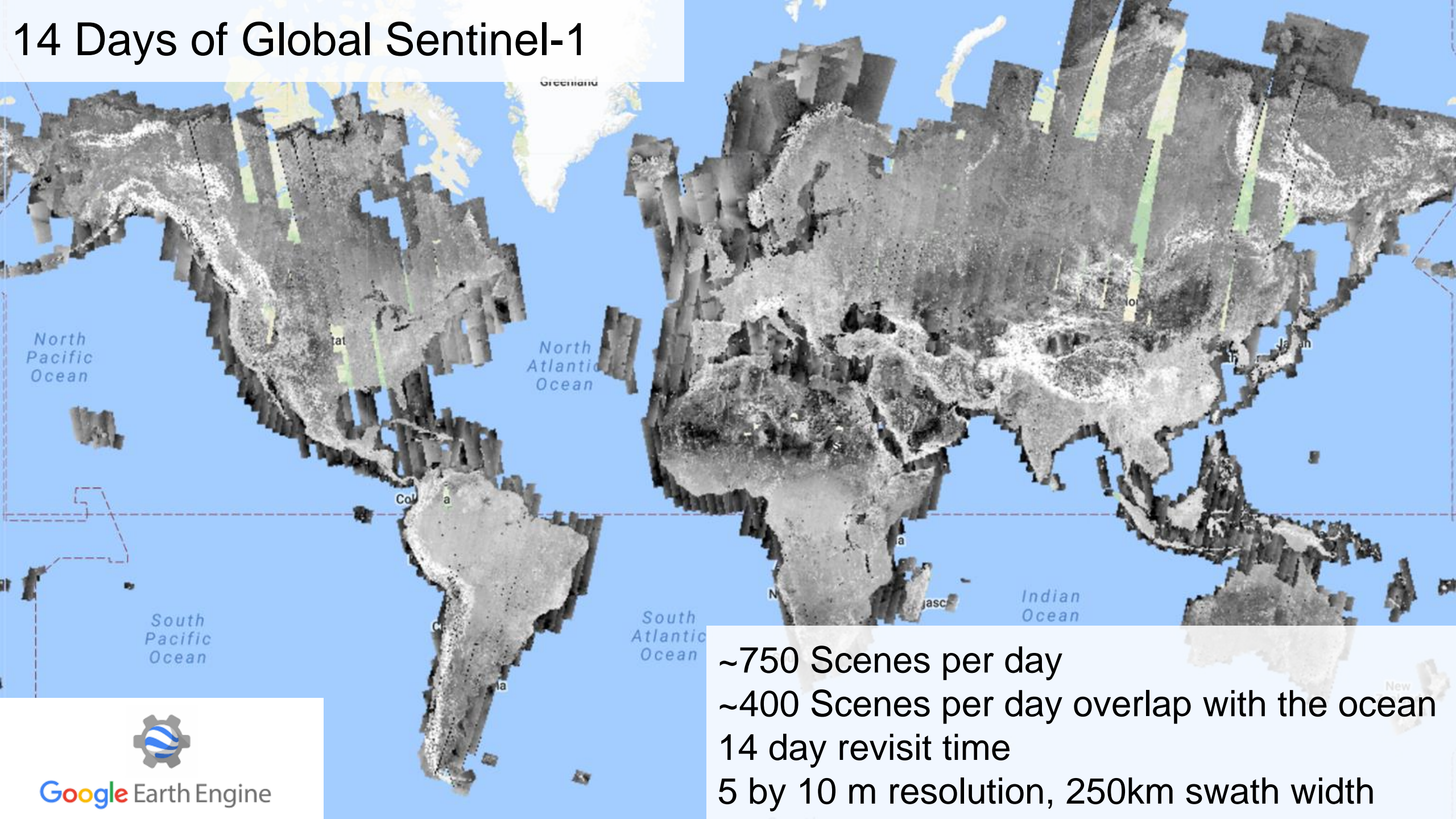
Synthetic Aperture Radar (SAR)

Satellite radar can detect non-broadcasting vessels



6 months of vessel detections in the English Channel using Sentinel-1

14 Days of Global Sentinel-1



~750 Scenes per day
~400 Scenes per day overlap with the ocean
14 day revisit time
5 by 10 m resolution, 250km swath width

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.



2 years since inception

14 papers published

25+ papers in progress



A groundswell of scientists running for Congress
A blood test for cancer
Preempting epidemics via a Global Virome Project

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

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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



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What is Next?

Incorporating Synthetic Aperture Radar

Identifying vessel and fleet networks and relationships

Identifying vessels/fleets with labor violations



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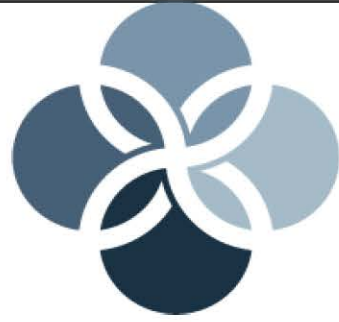


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