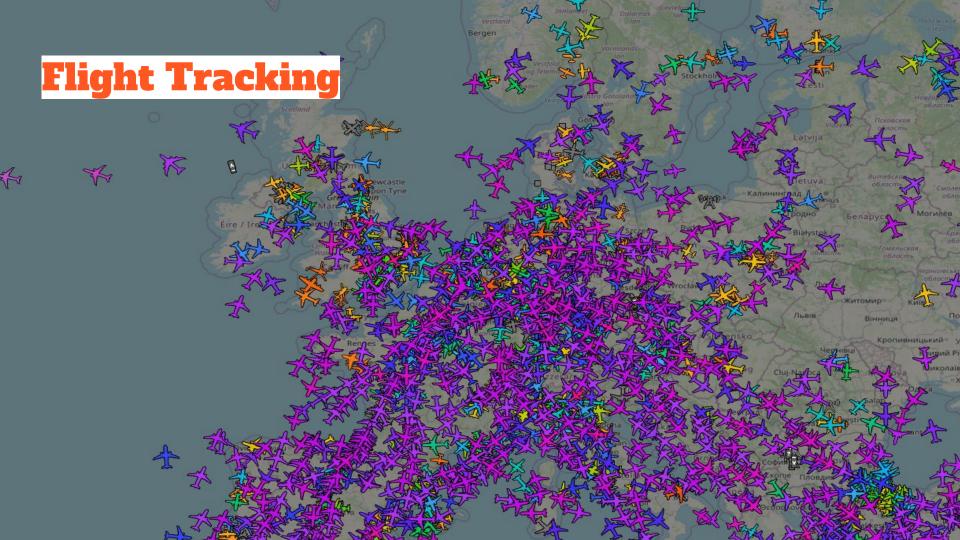
OSINT Tool Box Part 2

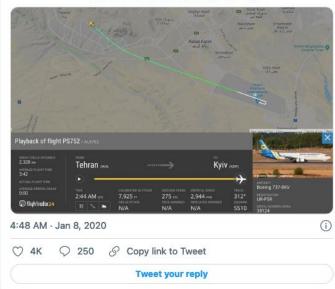
Max Bernhard

Twitter: max.bernhard@pm.me



- accidents and crashes
- powerful individuals
- armed forces and authorities
- companies
- global events
- drug traficking
- ...





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Since June 2019, Dictator Alert tracks the planes of <u>authoritarian regimes</u> all over the world. This projects is supported by <u>OCCRP</u> and the data comes from <u>ADS-B Exchange</u>. It is an extension of the <u>@GVA_Watcher</u> Twitter bot.

Recent Dictatorship Flights

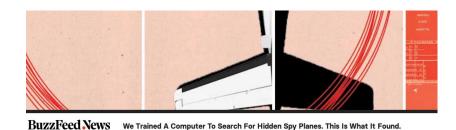


Top Dictatorships Tracked



dictatoralert.org

- accidents and crashes
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SCIENCE

We Trained A Computer To Search For Hidden Spy Planes. This Is What It Found.

From planes tracking drug traffickers to those testing new spying technology, US airspace is buzzing with surveillance aircraft operated for law enforcement and the military.



Last updated on August 8, 2017, at 10:47 a.m. ET Posted on August 7, 2017, at 12:33 p.m. ET







Buzzfeed

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- ...

Flightdb.net Home Live Radar New			
Home / Volkswagen AG (11)			
ModeS	Registration	Туре	Owner
3C5C41	D-AGBA	Dassault Falcon 8X	Volkswagen AG
3C5C42	D-AGBB	Dassault Falcon 8X	Volkswagen AG
3C5C45	D-AGBE	Dassault Falcon 7X	Volkswagen AG
3C5C46	D-AGBF	Dassault Falcon 7X	Volkswagen AG
3C5C47	D-AGBG	Dassault Falcon 7X	Volkswagen AG
3C5C48	D-AGBH	Dassault Falcon 7X	Volkswagen AG
3C5C49	D-AGBI	Dassault Falcon 7X	Volkswagen AG
3CF774	D-CVAA	Pilatus PC-24	Volkswagen AG
3CF775	D-CVAB	Pilatus PC-24	Volkswagen AG
42478A	VP-CHW	Dassault Falcon 7X	Volkswagen AG
424763	VP-CUH	Dassault Falcon 7X	Volkswagen AG

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Source: Bellingcat / Flightradar24

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Source: Bellingcat / Flightradar24

Flight Tracking: Terminology

- Call Sign: identifier used <u>during a flight</u>, the plane can change same as on your boarding pass
- Registration: like a car's license plate (Germany D, France F, US N)
- Manufacturer Serial Number: unique ID
- Mode S / ICAO: unique (to the transponder)
- ADS-B: used to avoid collision, unencrypted information incl. location and altitude

Flight Tracking: Sources

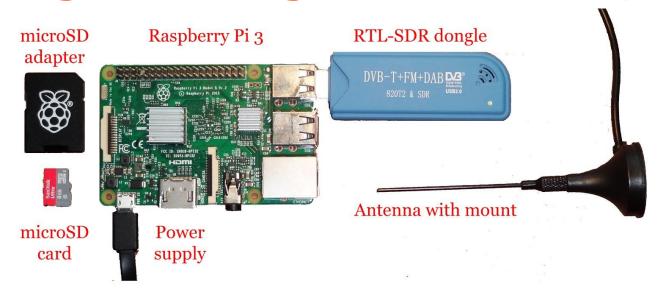
ADS-B data:

- flightradar24.com
- o radarbox24.com
- flightaware.com
- planefinder.net
- adsbexchange.com
- icarus.flights

• Other info:

- planelogger.com
- planespotters.net
- o **FAA**
- aviation-safety.net
- Twitter
- 0 ..

Flight Tracking: Sources - build your own



Basic ADS-B station

Source: radioforeveryone.com

Tutorial:

https://www.flightradar24.com/build-your-own

Flight Tracking: Case Study - Narco Traffic





Aterriza narco jet de emergencia en la vía federal y cruzan disparos con el ejército

Publicado en 5 julio 2020 — en Noticias/Sociedad — por Redacción

Felipe Carrillo Puerto. - Un jet aterrizó de emergencia luego de ser derribado por el Ejército y se armó una balacera en la selva con presuntos narcos, a 40 kilómetros de esta ciudad en el tramo Polyuc-Morelos.

Flight Tracking: Case Study - Narco Traffic



#OrigenNoticias / #QuintanaRoo

#AlMomento Learjet aterriza de emergencia en la carretera Felipe Carrillo Puerto-Mérida.

Nota: facebook.com/origennoticias... Translated from Spanish by Google

#OrigenNoticias/#QuintanaRoo

#AlMomento Learjet makes an emergency landing on the Felipe Carrillo Puerto-Mérida highway.

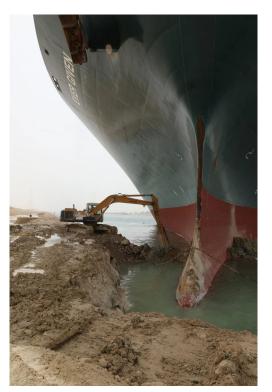
Note:facebook.com/origennoticias...





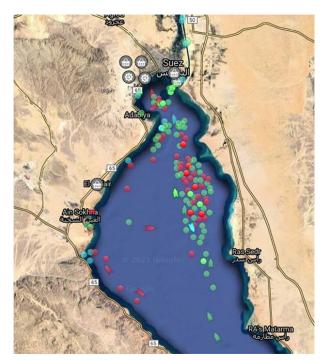


- accidents
- sanction breaking / smuggling
- pollution
- illegal fishing
- ...



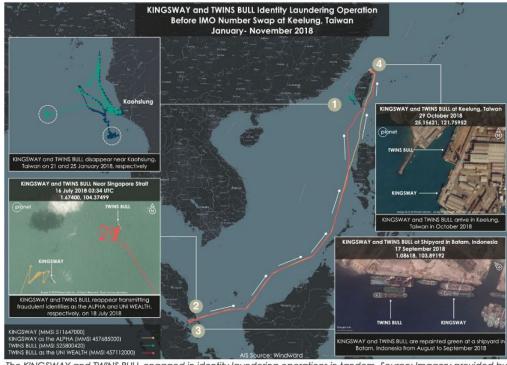
Source: abacapress

- accidents
- sanction breaking / smuggling
- pollution
- illegal fishing
- ...



Source: bellingcat

- accidents
- sanction breaking / smuggling
- pollution
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- ...



The KINGSWAY and TWINS BULL engaged in identity laundering operations in tandem. Source: Imagery provided by Planet Labs, Google Earth, and Maxar Technologies; AIS data provided by Windward.

Source: C4ADS

- accidents
- sanction breaking / smuggling
- pollution
- illegal fishing
- ...



Source: NASA

- accidents
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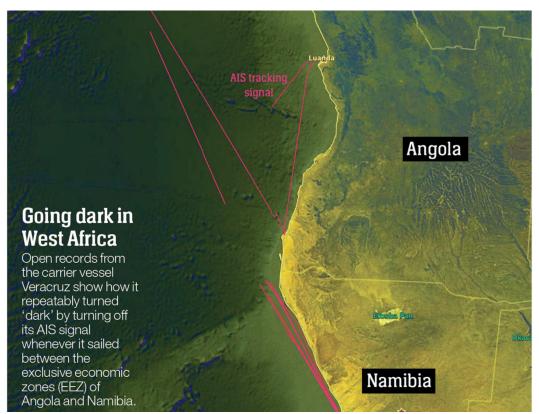


Flight Tracking: Terminology

- Call Sign
- **IMO / MMSI:** unique identifiers
- AIS (automatic identification system): information such as unique identification, position, course, and speed, to avoid collision

Ship Tracking: Sources

- MarineTraffic
- Bosphorus Observer
- Global Fishing Watch
- Illegal, unreported, unregular fishing Vessels List
- IMO Registry
- ShipSpotting.com
- VesselFinder
- Tokyo MOU/Paris MOU/Equasis
- OpenSeaMap
- MyShip.com
- ..



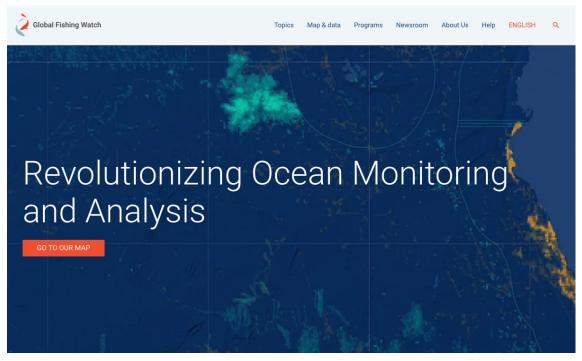


Ship Tracking: Case Study - Transshipment

- used to transfer catch to refrigerated cargo vessels that also supply fishing vessels with fuel, food, equipment and personnel
- happen on the high seas, in regions with poor regulation and oversight
- used to disguise criminal activities such as illegal, unreported and unregulated fishing, forced labor, human trafficking and drug smuggling.
- banned by several states and regional fishery management organizations

Ship Tracking: Case Study - Transshipment

Ocean Fresh (IMO: 8301175)



Ship Tracking: Case Study - Transshipment

MyShip.com
Social and career website

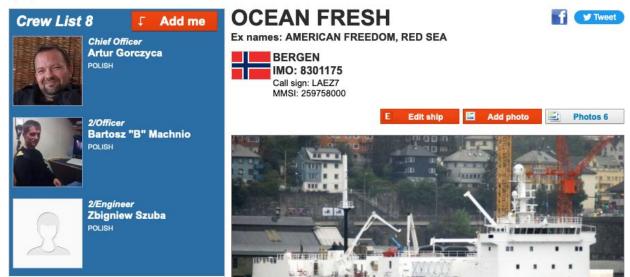
Find your ship, mates and job!

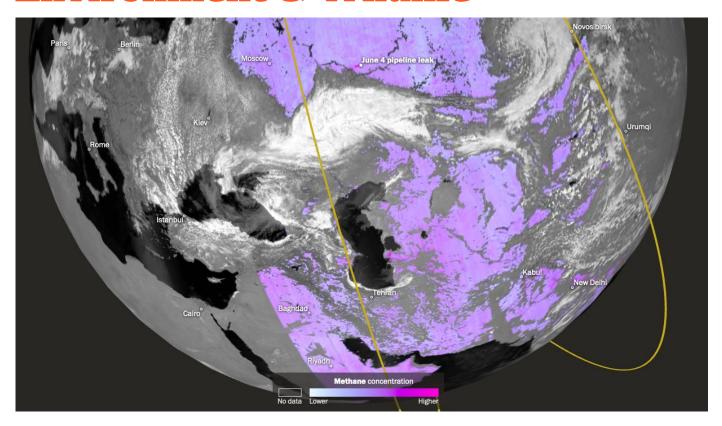
Job at ship OCEAN FRESH?

Join us today »

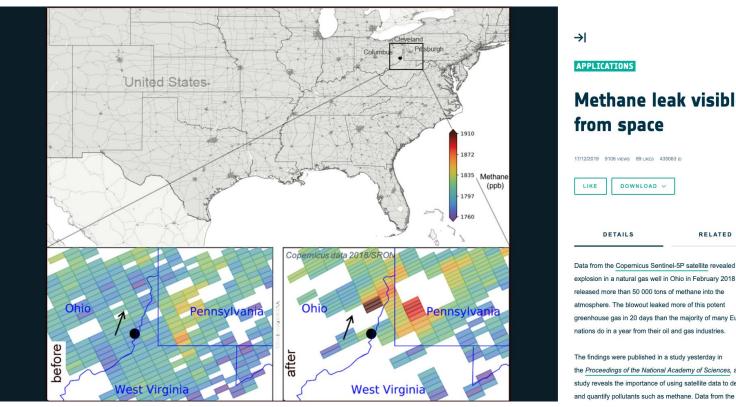
Log in

MyShip.com » OCEAN FRESH





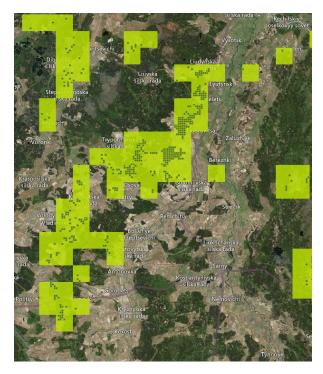




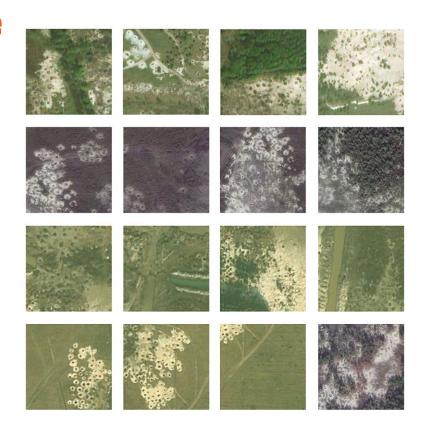
 \rightarrow X **APPLICATIONS** Methane leak visible from space 17/12/2019 9106 VIEWS 89 LIKES 435063 ID DOWNLOAD V RELATED DETAILS Data from the Copernicus Sentinel-5P satellite revealed that an explosion in a natural gas well in Ohio in February 2018 released more than 50 000 tons of methane into the atmosphere. The blowout leaked more of this potent greenhouse gas in 20 days than the majority of many European nations do in a year from their oil and gas industries. The findings were published in a study yesterday in the Proceedings of the National Academy of Sciences, and the study reveals the importance of using satellite data to detect



source: Bellingcat



source: Texty



Investigating Websites

- <u>archive.orq</u> / waybackmachine, <u>archive.is</u>
- <u>cachedview.com</u> / viewcached.com
- whois data / historic whois
- email lookup
- spyoneweb
- publicwww

Thank you

Twitter: omxbernhard

Email: max.bernhard@pm.me