

# POPCORN 2022 Twitter Conference

88 Items

The tweets by chair and the presenters of the POPCORN final conference, held on 21st of June 2022 - search #POPCORN2022 to find the whole thread in Twitter





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Less than 60 mins to the start of **#POPCORN2022**  
**#TwitterConference** - the tension is almost too much!  
**#MarinePollution** **#NPA** **#Interreg** **#MarinePlastics**  
**#OilSpillResponse** **#Arctic** **#BalticSea**



8:11 AM · Jun 21, 2022



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Testing, testing... Is this on? Or am I muted? Great, we will start in few minutes, get out your popcorns...  
**#POPCORN2022**

8:58 AM · Jun 21, 2022



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1/3 Welcome to the **#POPCORN2022** **#TwitterConference** organized by **@APP4SEA NPA**. Our focus today is on **#MarinePollution**, which we will be looking at from different angles. We have excellent presenters, who will take us under, on and above the surface, welcome on board!

8:59 AM · Jun 21, 2022



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2/3 This conference serves also as a final conference of @APP4SEA\_NPA that is funded by @NPA2014-2020. This is a clustering project, which brings together four projects working with #MarinePollution, but let's focus on POPCORN in session three from 13.00 CEST onwards #POPCORN2022



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3/3 Most of the presentations in the first two sessions are from experts, who are working with similar issues as POPCORN, and the 4 projects that make up #POPCORN, have been working with. Without further ado, let's start the conference and session one. #POPCORN2022

9:01 AM · Jun 21, 2022



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The focus of the first session is on cooperation in oil spill response. Professor Lauri Ojala from [@UniTurku](#) will set the stage with his presentation. Prof Ojala was the leader of the [@oilspillproject](#) funded by [@InterregBSR](#), about which we will hear more later [#POPCORN2022](#)

9:02 AM · Jun 21, 2022



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Keynote - The Baltic Sea and the Arctic Seas – Shipping volumes and future trends – Lauri Ojala, University of Turku [@tsescm](#) [#POPCORN2022](#)

9:03 AM · Jun 21, 2022



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**UTU/TSE Supply Chain Management**

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1/10 Greetings from [@tsescm](#) [@uniturku](#), the Lead Partner of [@oilspillproject](#)! This is Project Director Lauri Ojala and I will highlight the topic "The Baltic Sea and the Arctic Seas **#shipping** volumes and future trends" [@APP4SEA](#) [NPA](#) [#POPCORN2022](#)



9:02 AM · Jun 21, 2022



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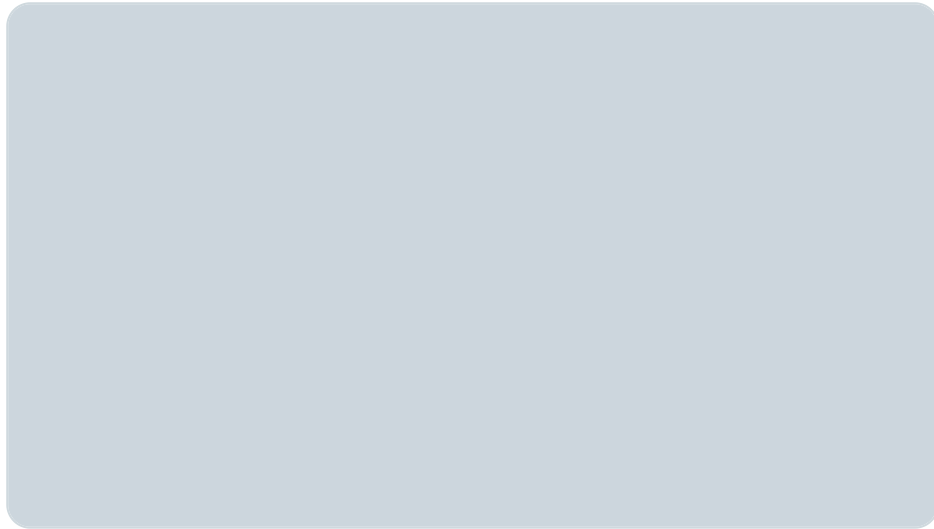
UTU/TSE Supply Chain Management · Jun 21



@tsescm · [Follow](#)

Replying to @tsescm @UniTurku and 2 others

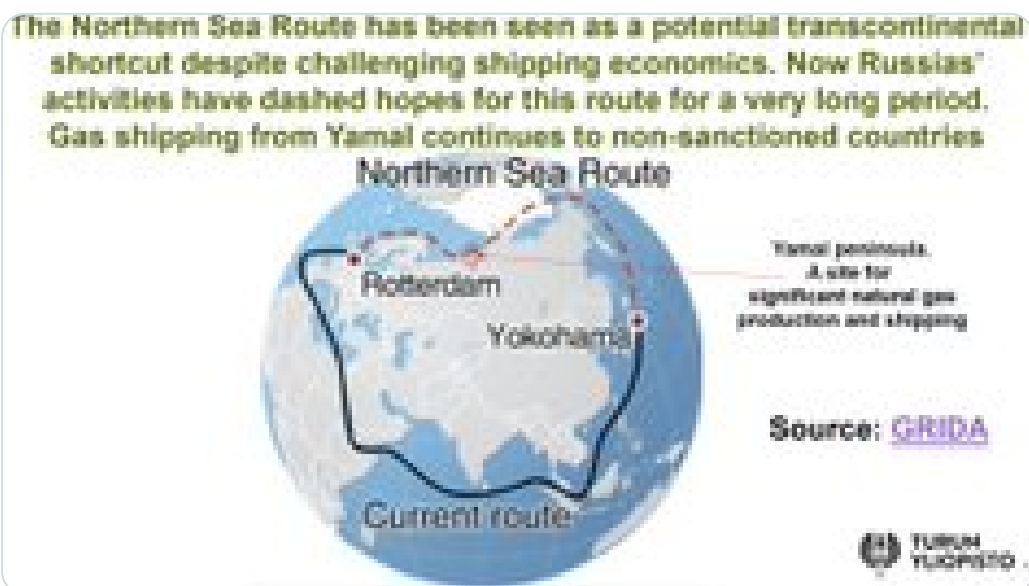
2/10 This presentation focuses on commercial shipping in the **#BalticSea** and the **#Arctic** Seas. The nature of shipping activity in these sea areas has been affected by Russia's war in Ukraine in many unforeseen ways. **#POPCORN2022**



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3/10 The impacts of Russia's activities in Ukraine mean that e.g. EU, U.S. and UK vessels cannot enter Russian ports and vice versa. **#POPCORN2022**



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4/10 International ship insurers have classed Russian waters as a war risk zone, which has meant skyrocketing insurance costs for all entering those waters. [#POPCORN2022](#)

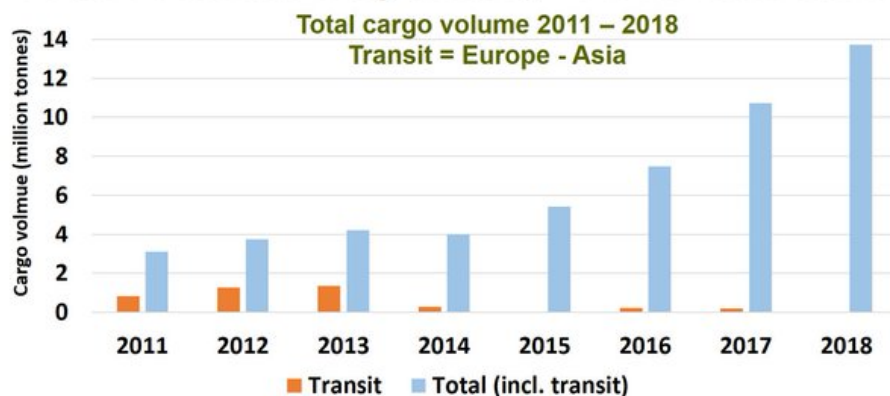


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5/10 The overall volumes along the [#NorthernSeaRoute](#) have been rather small – except for Russia’s internal traffic, and export of mainly gas and oil from ports along its northern coastline, in particular Yamal peninsula. [#POPCORN2022](#)

### The NSR: almost exclusively Russian cargoes Total volumes very small, < 20 million tonnes



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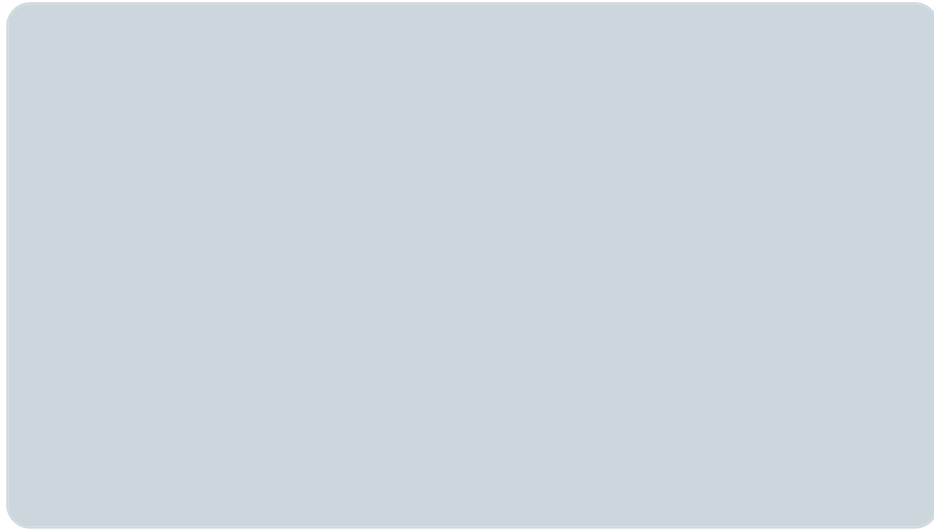
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6/10 The Baltic Sea is one of the busiest seas in the World. [#BalticSea](#)  
[#shipping](#) [#POPCORN2022](#)

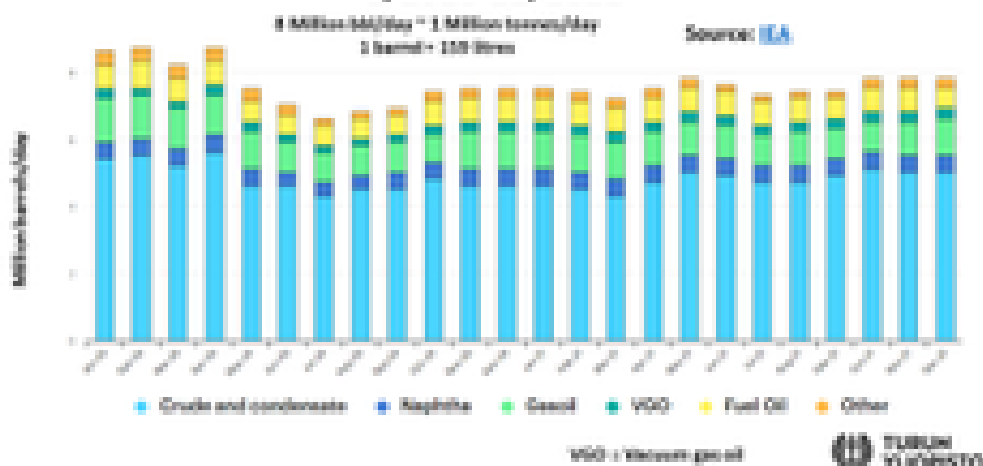


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7/10 Commercial shipping activity in the [#BalticSea](#) remains high despite the changes in world economics + politics. The transport work of e.g. crude [#oil](#) + coal, will grow as imports from Russia become impossible. Baltic Sea ports remain vitally important for Russia. [#POPCORN2022](#)

### Export of Russian crude oil and petroleum products, 1/2020-12/2021



9:10 AM · Jun 21, 2022





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8/10 Conclusions: Shipping activity in the Baltic Sea remains high, elevated risk for a accidents in crossing lanes (e.g. Gulf of Finland, Danish straits). [#oilspill](#) [#POPCORN2022](#)



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9/10 Conclusions: Shipping in the Arctic going down; the likelihood of an event is low, but the impact of an oil spill on the natural environment could be significant. [#oilspill](#) [#Arctic](#) [#POPCORN2022](#)

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**Dr Neil James**  
@DrNeilJames · [Follow](#)



**#POPCORN2022**



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10/10 In the unfortunate event of a large-scale oilspill in these waters, both international and inter-sectoral cooperation are needed. In the @oilspillproject @InterregBSR, we enhanced the #oilspillresponse cooperation structures + procedures in the #BalticSeaRegion. Thank you!



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From shipping we move to coordination of intergovernmental response to oil spills. Pollution does not recognize borders, these are common problems, especially in the narrow waters of the **#BalticSea**. Markus Helavuori from HELCOM **@HELCOMInfo** tells more about this **#POPCORN2022**

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Unique cooperation in intergovernmental response to spills – HELCOM and the Baltic Sea Region – Markus Helavuori, HELCOM [@HELCOMInfo](#) [#POPCORN2022](#)

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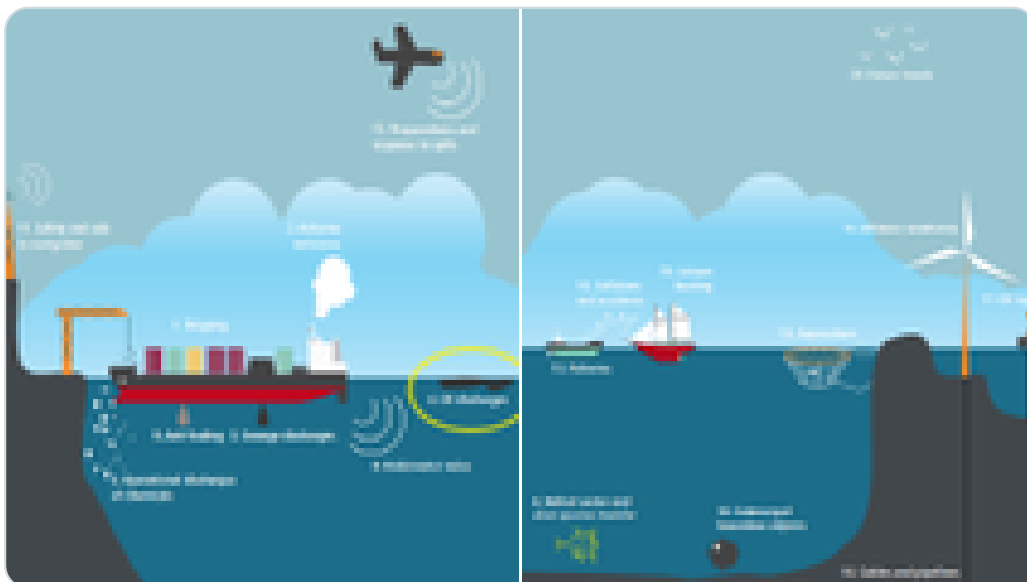
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1/10 Hi everyone! We're honored to take part in [#POPCORN2022](#). The topic today is an overview of the unique work of [@HELCOMInfo](#) on [#OilSpillResponse](#) in the [#BalticSea](#) Region. The cooperation connects to many other maritime areas, too (source: HELCOM, [bit.ly/3NkcAWJ](#)).



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2/10 [@HELCOMInfo](#) has been around since 1974 but may still be unknown to some. In this IGO, governments work together by unanimous decisions, covering a huge range of topics and connecting science and policy – all for a healthier Baltic marine environment. [#POPCORN2022](#)



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3/10 Why call our intergovernmental cooperation unique?  
**#OilSpillResponse** of HELCOM has continued since 1977 and is still strong today, at sea and on shore. All has legal basis in the Helsinki Convention. A large part is about harmonizing countries' work.  
**#POPCORN2022**



## HELCOM Response – Regulatory mandate

- **Helsinki Convention Article 14 on Co-operation in combatting marine pollution:** The Contracting Parties shall individually and jointly take, as set out in Annex VI, all appropriate measures to maintain adequate ability and to respond to pollution incidents in order to eliminate or minimize the consequences of these incidents to the marine environment of the Baltic Sea Area.
- **Annex VII of the Helsinki Convention on Response to Pollution Incidents:** The HELCOM countries have agreed to maintain the ability to respond to pollution incidents threatening the marine environment of the Baltic Sea Area. This ability shall include adequate equipment, ships and manpower prepared for operations at sea or on the shore.
  - **Regulation 10 on Regular Co-operation:** The Contracting Parties shall on a regular basis arrange joint operational combatting exercises as well as alarm exercises. The Contracting Parties shall also on a regular basis arrange exercises on the shore.
  - **Regulation 11 on application of the HELCOM Response Manual:** The Contracting Parties agree to apply, as far as practicable, the principles and rules included in the HELCOM Manual on Co-operation in Response to Marine Pollution, detailing this Annex and adopted by the Commission or by the Group designated by the Commission for this purpose.

HELCOM  
Baltic Marine Environment Protection Commission

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4/10 Countries don't just plan, they also act. Every year there is a regional exercise on oil spill accidents (BALEX DELTA), where ships + aircraft practice together, to be prepared should the worst happen. Best substance to simulate oil: POPCORN! **#POPCORN2022**



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5/10 BALEX exercises test readiness of countries in many ways. Full-scale DELTA drill is often topped with onshore and oiled wildlife response, and has elements of ALPHA (table-top), BRAVO (alarm) etc. **#POPCORN2022**

👉 Video 2021: [bit.ly/3n897iZ](https://bit.ly/3n897iZ)

👉 Next: DE in Aug 2022



youtube.com  
Protecting the Baltic Sea – marine pollution respo...  
The Finnish Border Guard with its partners  
organised the international HELCOM BALEX DELT...

9:19 AM · Jun 21, 2022



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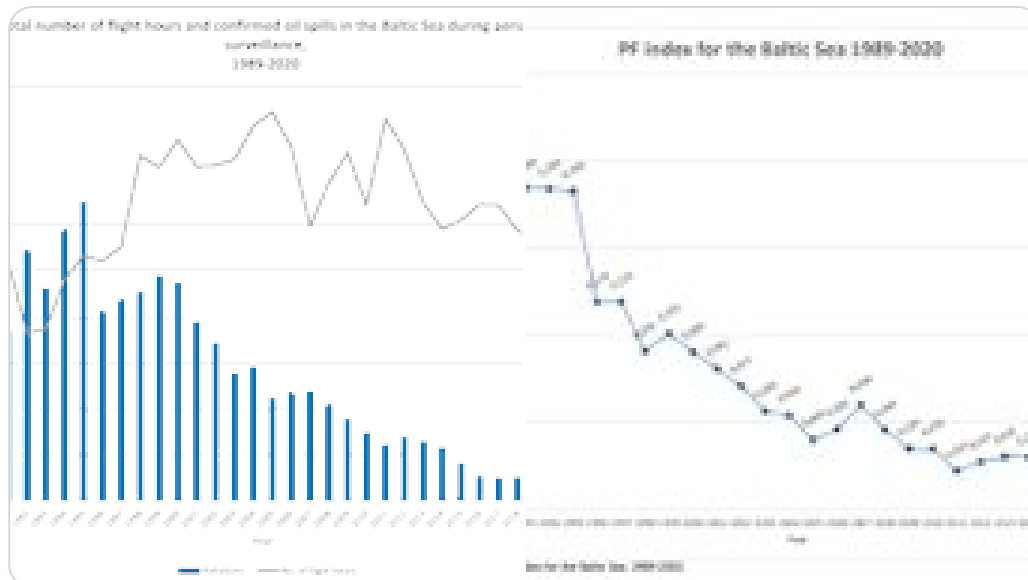
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6/10 Aerial surveillance of spills has been regular since 1989. Together with satellite images the collected info is invaluable and draws a long-term picture – see also the Pollution per flight hour index.

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👉 All reports: [bit.ly/3HJGOB5](https://bit.ly/3HJGOB5)



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7/10 Overall, most spills are small and the trend is decreasing. Latest figures: 41% of detected spills were mineral oil, 59% identified as other substances (e.g. fish oil, vegetable oil, greywater), litter etc.

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Latest report: [bit.ly/3A5CdHR](https://bit.ly/3A5CdHR)



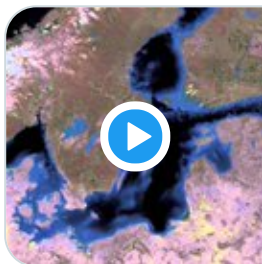
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8/10 In addition to **#OilSpills**, we collect many other shipping data and publish risk assessments & reports, work on submerged hazardous objects etc. **#POPCORN2022**

👉 Dashboard on accidents 2004-2020: [bit.ly/3OqcHRh](https://bit.ly/3OqcHRh)

👉 Old video hit :



youtube.com  
**Baltic Sea Shipping Visualized**  
A visualisation of Baltic Sea traffic based on regional maritime monitoring conducted by ...

9:22 AM · Jun 21, 2022



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9/10 One more HELCOM basic: Response Manuals are bibles to any responsible authority. They cover oil and general cooperation outline and on-shore response, wildlife response as well as HNS = Hazardous and Noxious Substances Manuals are updated regularly. **#POPCORN2022**



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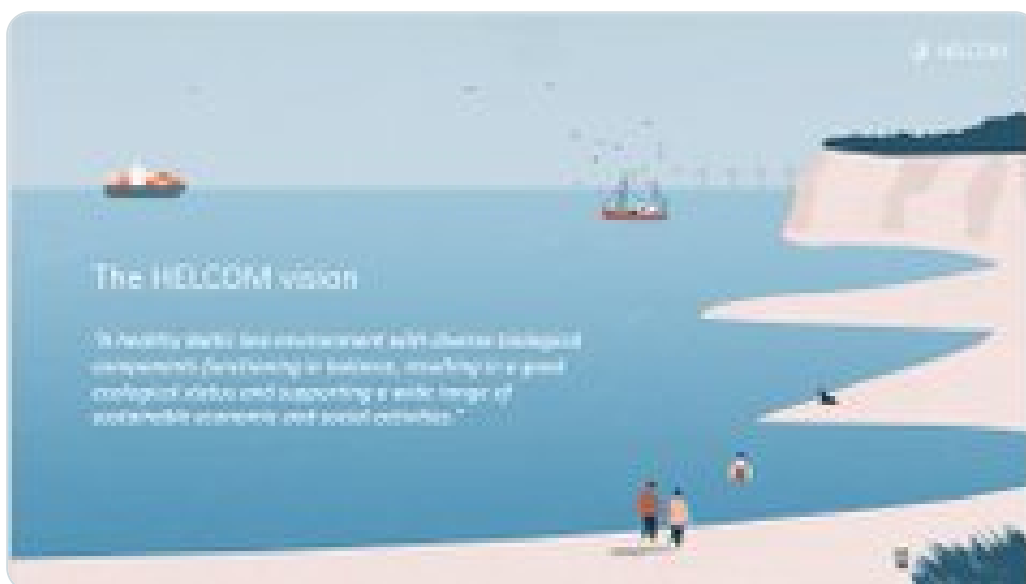


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10/10 Thanks to solid regional cooperation, **#BalticSea** now has a MARPOL Special Area status for many activities. Work continues for reaching HELCOM vision of a "healthy Baltic Sea in a good ecological status." **#POPCORN2022**

👉 HELCOM Response work webpages: [bit.ly/3HzLlGl](https://bit.ly/3HzLlGl)



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From the helicopter perspective of [@HELCOM](#) we will move to the grassroot level, what happens on the polluted shores, and how volunteers can make a difference. Vanessa Ryan [@Vanessa\\_RyanWWF](#) from WWF Finland will tell more about this. [#POPCORN2022](#) [#OilSpillResponse](#) [#Volunteering](#)



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Volunteers in oil spill response – Vanessa Ryan, WWF Finland  
[@Vanessa\\_RyanWWF](#) [#POPCORN2022](#)

9:28 AM · Jun 21, 2022



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**Vanessa Ryan** · Jun 21



@Vanessa\_RyanWWF · [Follow](#)

1/10 Good afternoon from [@WWFSuomi](#)! We are active participants in [#OilSpillResponse](#) in Finland, and we have been training volunteers for [#ShorelineCleanup](#) and [#OiledWildlifeResponse](#) since 2003. Find out more at [blogit.utu.fi/oilspill/2020/...](http://blogit.utu.fi/oilspill/2020/...)  
[@APP4SEA NPA](#) [#POPCORN2022](#)



[blogit.utu.fi](http://blogit.utu.fi)

WWF Finland Trains Voluntary Forces to Fight Oil Spills – Best...  
WWF Finland (WWF FI) is one of the Associated Organizations of the OIL SPILL project. It is part of the Finnish Voluntary ...



**Vanessa Ryan**

@Vanessa\_RyanWWF · [Follow](#)

2/10 When an [#oilspill](#) happens, severe shoreline contamination may occur, and people often want to help. However, untrained and uncoordinated volunteers can pose a risk to themselves and to the [#environment](#) and put a strain on the spill response management.  
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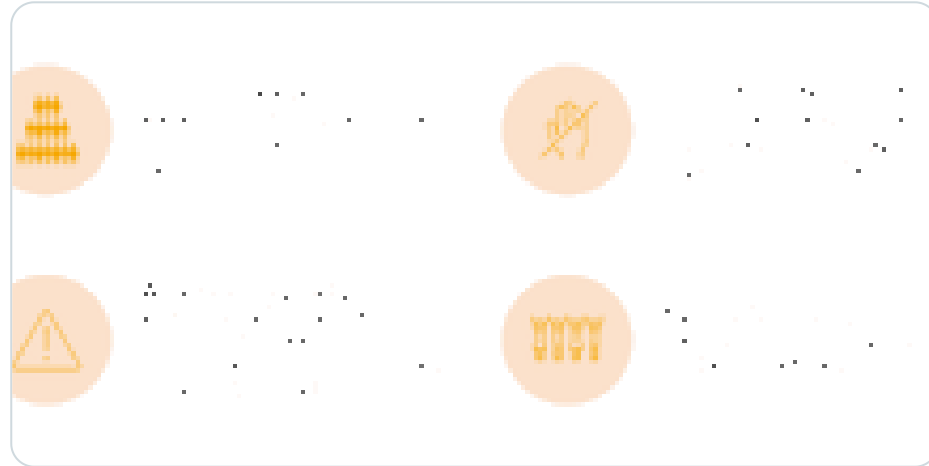


@Vanessa\_RyanWWF · [Follow](#)

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3/10 Since the resources of the authorities are often stretched to the limit during a spill, and since cleanup efforts may take months to complete, a well-organized, professionally trained group of **#Volunteers** can be of significant value!

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**Vanessa Ryan**

@Vanessa\_RyanWWF · [Follow](#)

4/10 **@WWFSuomi** founded its voluntary oil spill response troops in 2003. We now have around 10 000 registered volunteers, some of whom have participated in the cleanup of smaller spills over the years.

**#POPCORN2022**



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**Vanessa Ryan** · Jun 21, 2022  
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5/10 Our volunteers are organized and trained to work as an independent unit under the **#RescueServices**. Volunteers are given basic training on working methods, **#HealthAndSafety**, and avoiding the spread of oil in the environment.  
**#POPCORN2022**

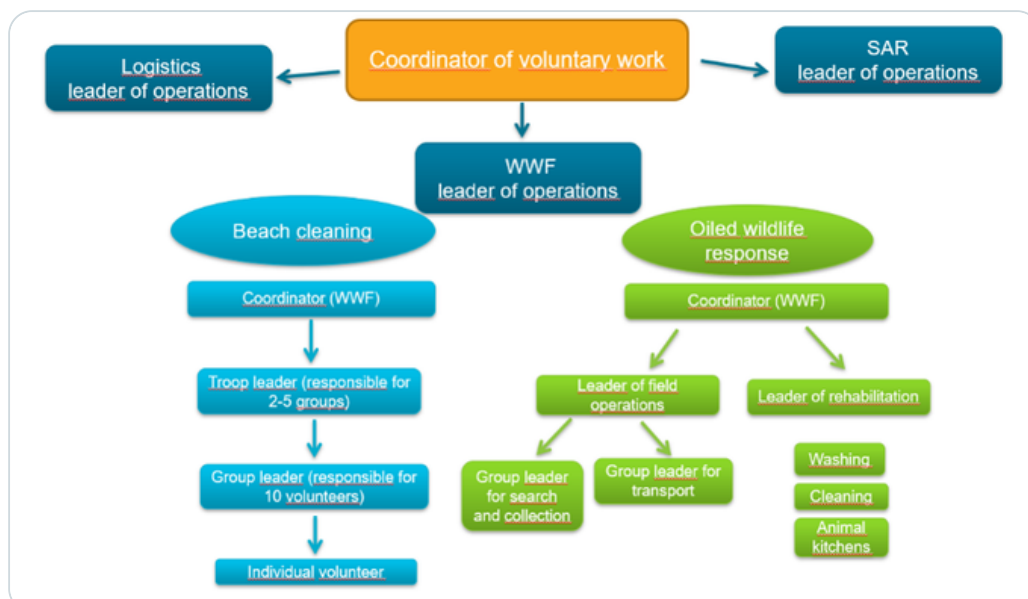


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**Vanessa Ryan**  
@Vanessa\_RyanWWF · [Follow](#)

6/10 Motivated volunteers may deepen their skills and become group or troop leaders, responsible for leading the work in the field. 200-400 **#volunteers** participate in our basic and leadership courses annually.  
**#POPCORN2022**



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**Vanessa Ryan** · Jun 21, 2022

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7/10 Our oil spill response troops are part of [@Vapepa](#), the **#VoluntaryRescueService** in Finland, which coordinates the work of 50 different volunteer organizations offering important support during a spill. Cooperation is key to **#success!** [vapepa.fi/en](#) **#POPCORN2022**



vapepa.fi  
Front page - Vapepa



**Vanessa Ryan**

@Vanessa\_RyanWWF · [Follow](#)

8/10 Projects and exercises together with **#authorities** and other **#stakeholders** are important – this is where we get to know and trust each other and identify bottlenecks.

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**Vanessa Ryan** · Jun 21, 2022



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9/10 In addition to shoreline cleanup, we train volunteers and experts for **#OiledWildlifeResponse**. WWF Finland is part of **#EUROWA**, a network of European organizations working for better **#WildlifePreparedness** and **#crossborder** assistance. **#POPCORN2022**



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**Vanessa Ryan**

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10/10 Thank you for your attention! More information can be found in Finnish on our website at [\*\*wwf.fi/vapaaehtoistyö...\*\*](http://wwf.fi/vapaaehtoistyö...) or in our manual: WWF oil spill response guide: [\*\*wwf.fi/app/uploads/8/...\*\*](http://wwf.fi/app/uploads/8/...) **#POPCORN2022**



[wwf.fi](http://wwf.fi)

Öljyntorjuntajoukot

Öljyvahingot uhkaavat Itämerä ja myös esimerkiksi Saimaan vesistöä.

Kun öljyvahinko tapahtuu, WWF haluaa toimia nopeasti viranomais...



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And we will stay on terra firma and focus next on another important aspect of **#OilSpillResponse**. Daniela Barreras-Biesot and Saskia Sessions-Puplett from European Oiled Wildlife Assistance **@EUROWA EU** present the work done by EUROWA **#ornithology #birds #POPCORN2022**



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EUROWA – a mutual assistance system for oiled wildlife response in Europe – Daniela Barreras-Biesot/Saskia Sessions-Puplett, European Oiled Wildlife Assistance **@EUROWA EU #POPCORN2022**

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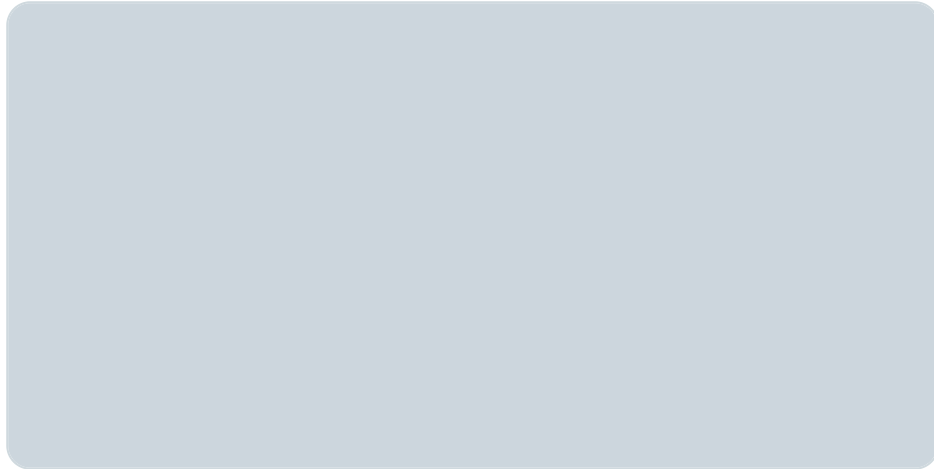
**Eurowa** · Jun 21



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1/10 Hello from the **#EUROWA** network! Our mission is to support and empower European authorities, NGOs, and polluters in dealing jointly and professionally with the challenges of **#OiledWildlifeResponse**, using international standards.

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**Eurowa**

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2/10 Members have signed the **#EUROWA** Charter, aiming to strengthen bonds between members & authorities. It explains what EUROWA is, how it is organised & how it can be integrated into national **#EmergencyResponse** systems.

[eurowa.eu/who-we-are/eur...](https://eurowa.eu/who-we-are/eur...)

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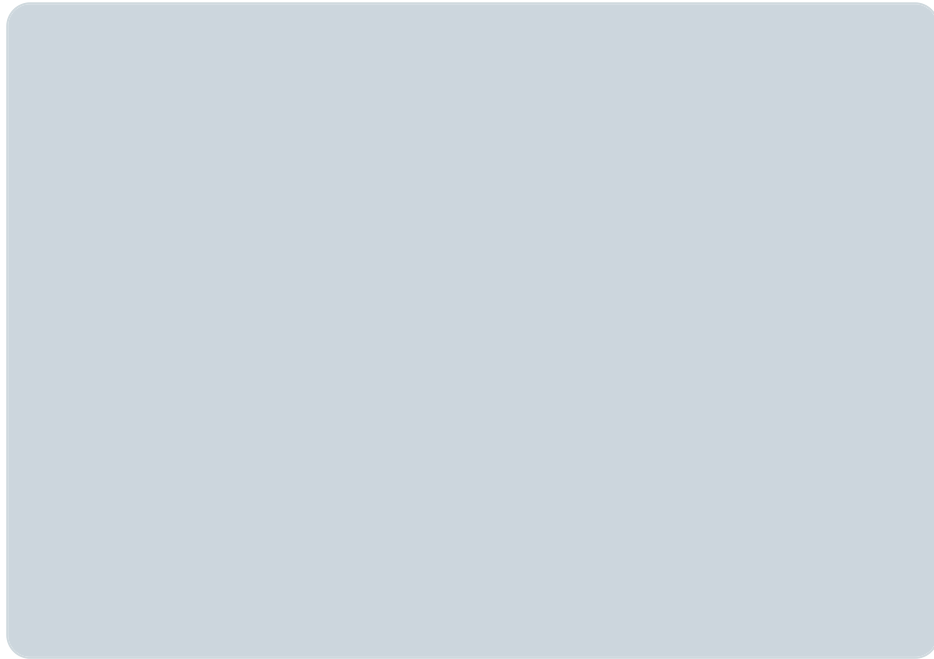
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3/10 The **#EUROWA** network is currently composed of 9 member organisations in 9 European countries. Our aim is to expand to other countries in Europe. Find out more ↓

[eurowa.eu/who-we-are/our...](https://eurowa.eu/who-we-are/our...)

**#POPCORN2022**



**Eurowa**

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4/10 **#EUROWA** has developed a portfolio of professional training courses for oiled wildlife responders, veterinarians and scientists. Training paths allow progress from volunteer to managerial level. 578 responders trained so far!

[eurowa.eu/our-work/train...](https://eurowa.eu/our-work/train...)

**#POPCORN2022**



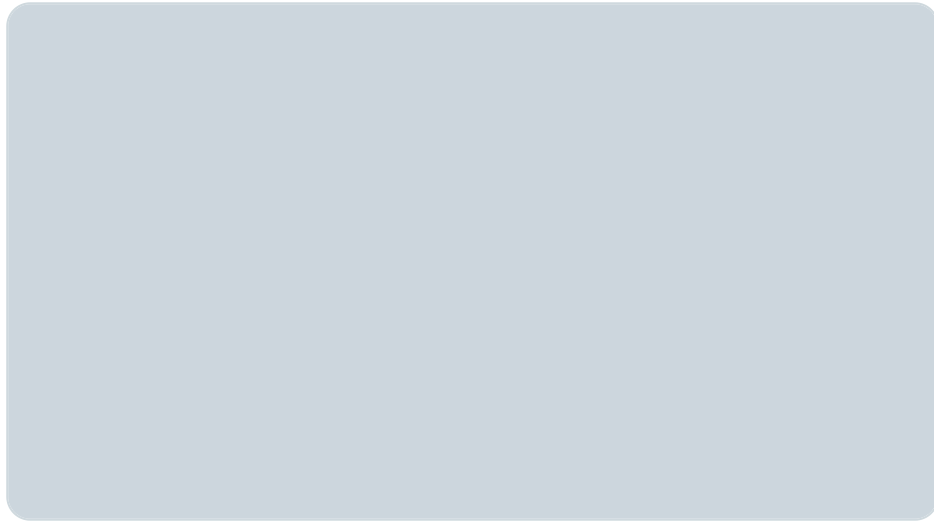


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5/10 **#EUROWA** aims to define good practice. The network has developed a set of guidelines for authorities and wildlife experts representing European standards of **#OiledWildlifeResponse**.  
[eurowa.eu/resources/docu...](https://eurowa.eu/resources/docu...)  
**#POPCORN2022**



**Eurowa**

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6/10 **#EUROWA** can assist European authorities during **#OilSpills** by providing a team of qualified experts to support and integrate into a local response system. A stockpile of oiled wildlife response equipment can also be mobilised.  
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9/10 Want more info? Check out our website for news, information on how to become a member, technical info and updates on network activities.

[eurowa.eu](https://eurowa.eu)

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Home - EUROWA

EUROWA EUROWA (EUROpean Oiled Wildlife Assistance) is a network of European oiled...



**Eurowa**

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10/10 Thank you! If you want to hear more, you can also join us [@Interspill2022](#) conference in Amsterdam, where we are presenting [#EUROWA](#) on Weds 23/06 in the wildlife session!

[interspill.org/wp-content/upl...](https://interspill.org/wp-content/upl...)

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And that brings our first session to end. A big round of 🙌 to all of our presenters. Thank you [@tsescm](#), [@HELCOMInfo](#), [@Vanessa\\_RyanWWF](#) & [@EUROWA\\_EU](#) for your excellent presentations! And everyone managed to stay within the tweet limits given to them, well done! [#POPCORN2022](#)

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Then to ses. 2 and [#MarinePlasticLitter](#). We will start by looking into the issue of fishing gear, lost in sea and causing havoc wherever they end up. Joel Baziuk from Global Ghost Gear Initiative [@GGGInitiative](#) will tell more about this menace to [#MarineEnvironment](#) [#POPCORN2022](#)



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Keynote - Addressing Abandoned, Lost and Discarded Fishing Gear on a Global Scale – Joel Baziuk, Global Ghost Gear Initiative [@GGGInitiative](#) [#POPCORN2022](#)

9:59 AM · Jun 21, 2022



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From regulating our climate to providing food security and economic prosperity, the ocean is the lifeblood of our blue planet. (1/10)

**#POPCORN2022**



However, the ocean is increasingly under threat from myriad sources: climate change, ocean acidification, loss of biodiversity, plastic pollution, and of course, abandoned, lost and discarded fishing gear (ALDFG or “ghost gear”). (2/10) **#POPCORN2022**

10:01 AM · Jun 21, 2022



9



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According to [@OurOcean](#) research, ALDFG is the most harmful form of marine pollution, with pots, lines, traps, nets, and buoys ranking as the highest threat to marine life, including harvestable fish stocks, turtles, seals, whales, sharks and dolphins. (3/10) [#POPCORN2022](#)



10:02 AM · Jun 21, 2022



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ALDFG can impact the marine environment as well, smothering sensitive habitats like coral reefs, eelgrass beds, and mangroves. (4/10)

[#POPCORN2022](#)



## A Global Reach



12



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6



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Collaboration is key to addressing such a large-scale challenge as ghost gear, and the GGGI and its members are working hard with all stakeholders to prevent, mitigate and remediate ALDFG helping to ensure a cleaner, safer ocean for all. (10/10) [#POPCORN2022](#)



10:09 AM · Jun 21, 2022



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Abandoned, lost and discarded fishing gear [#ALDFG](#) can travel for long distances, but how far do they travel? Sometimes it is good to "do some science" to find out things. Lars R. Hole [@gullarz](#) from Norwegian Meteorological Institute will tell about one trial next [#POPCORN2022](#)



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Drifter trial in Northern Norway - Lars R. Hole, Norwegian Meteorological Institute [@gullarz](#)  
[#POPCORN2022](#)

10:14 AM · Jun 21, 2022



3



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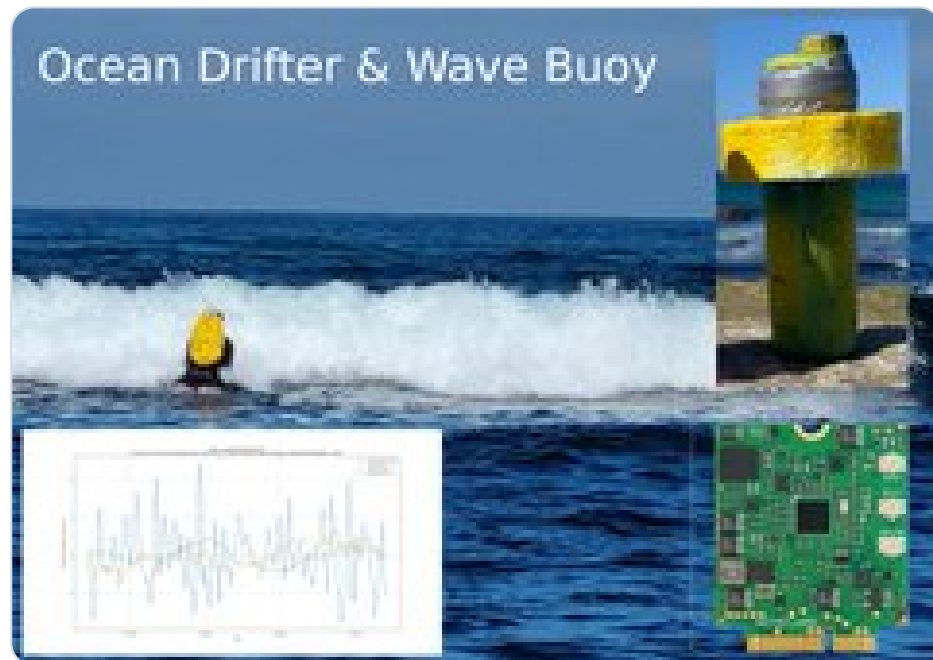


1/9

Together with [@Havforskningen](#) and [@UiT](#) we will carry out a [#drifter](#) experiment in [#Porsanger](#), Northern Norway during 23-26 June 2022. The purpose is to study the distribution of Kamchatka crab eggs. Drifters will be retrieved. @Framsenteret

[#POPCORN2022](#)

[@Meteorologisk](#)



10:15 AM · Jun 21, 2022



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15



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4/9 Newly hatched crab larvae are pelagic for several weeks and it is important to be able to predict the likely fate of larvae out of such a designated high crab density area.

**#POPCORN2022**

**@IUEM Brest**

**@Meteorologisk**

**@Havforskningen**

**@UiT**



en.wikipedia.org  
Red king crab - Wikipedia

10:17 AM · Jun 21, 2022



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5/9

If the drifters work as anticipated they will provide the project with high resolution current data that will help us understand the connectivity between semi-isolated side fjords and the open fjord system.

**#POPCORN2022**

**@Meteorologisk**

**@Havforskningen**

**@UiT**

**@IUEM Brest**

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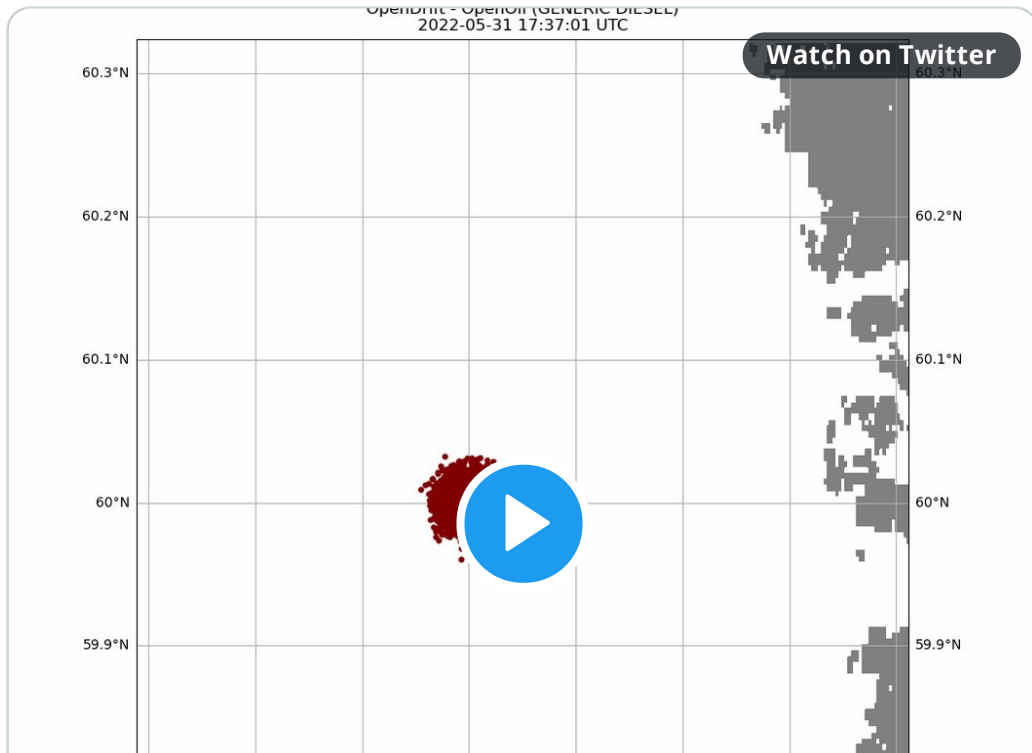
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6/9 At [@Meteorologisk](#) we have developed an open source [#ocean](#) trajectory modelling framework [#OpenDrift](#).  
[opendrift.github.io](#) .  
[#POPCORN2022](#)  
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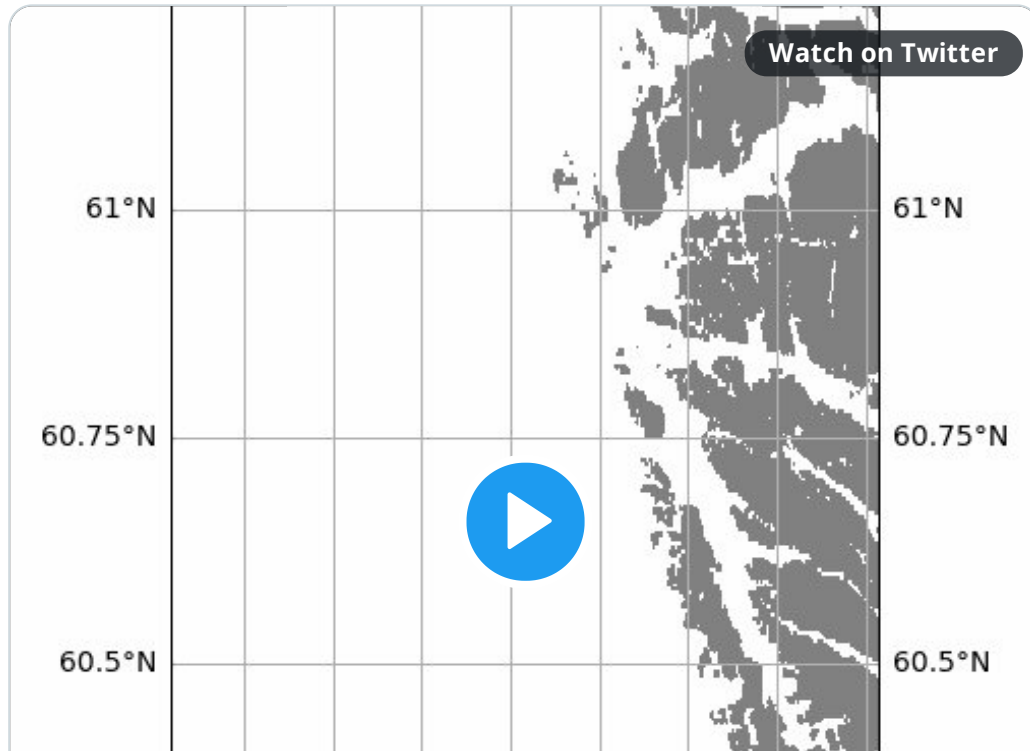
7/9 [#OpenDrift](#) has modules for simulating drift of [#oilspill](#), [#marineplastic](#), [#ship](#) drift, [#biota](#), missing persons etc.

[#POPCORN2022](#)

[@Meteorologisk](#)

[@Havforskningen](#)

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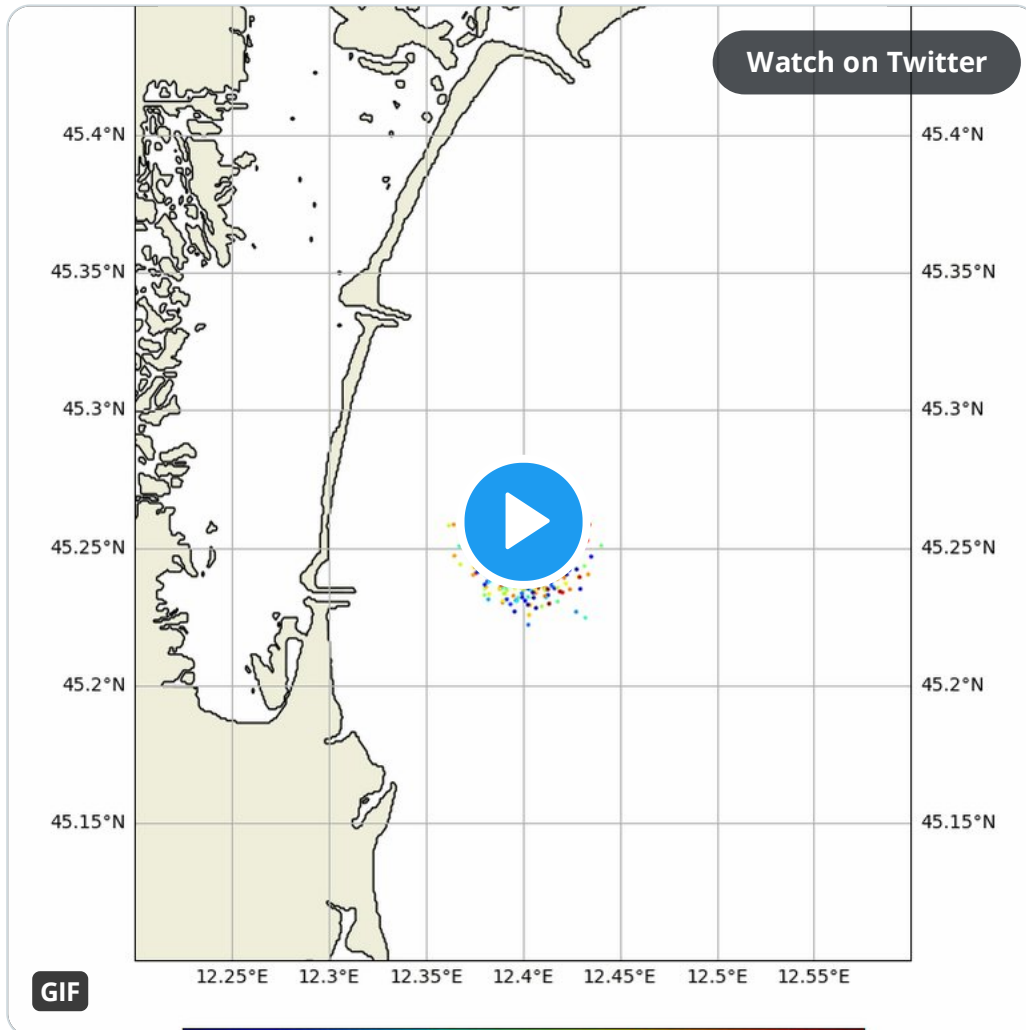


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8/9

Examples of **#marineplastic** and **#oilspill** simulations by **#OpenDrift** are presented at **[app4sea.com](https://app4sea.com)**  
**#POPCORN2022**  
**@Meteorologisk**  
**@Havforskningen**



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9/9 In N. Norway, the red king crab is managed as an economic resource with least possible migration out of the management area. Larvae drift simulations are relevant for [#marineplastic](#).

[#POPCORN2022](#)

[@Meteorologisk](#)

[@Havforskningen](#)



hi.no  
Kongekrabbe  
Kongekrabben ble introdusert til Barentshavet rundt 1960. Kongekrabben er en av fem arter i ...

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[#Plastic](#) in nature can be a lethal for animals, big or small. But especially birds are in danger, as Alex Bond from University of Highlands and Islands/Natural History Museum [@TheLabAndField](#) will tell us [#plasticpollution](#) [#MarineLitter](#) [#Ornithology](#) [#Birds](#) [#POPCORN2022](#)



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Plastic litter and birds – Alex Bond, University of Highlands and Islands/Natural History Museum  
[@TheLabAndField](#) [#POPCORN2022](#)

10:28 AM · Jun 21, 2022



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Dr Alex Bond 🇬🇧🇨🇦🐧 · Jun 21

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Hello **#POPCORN2022**! I'm the Principal Curator of Birds at **@NHM London** and an associate at **@ThinkUHI** here to talk about what we know (and don't know!) about seabirds and plastics in the ocean 1/10



Dr Alex Bond 🇬🇧🇨🇦🐧

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Seabirds ingest plastics, and use it in their nests (where adults and young can get entangled). It's been featured in nature documentaries & in the media, but how much do we REALLY know? **#POPCORN2022** 2/10



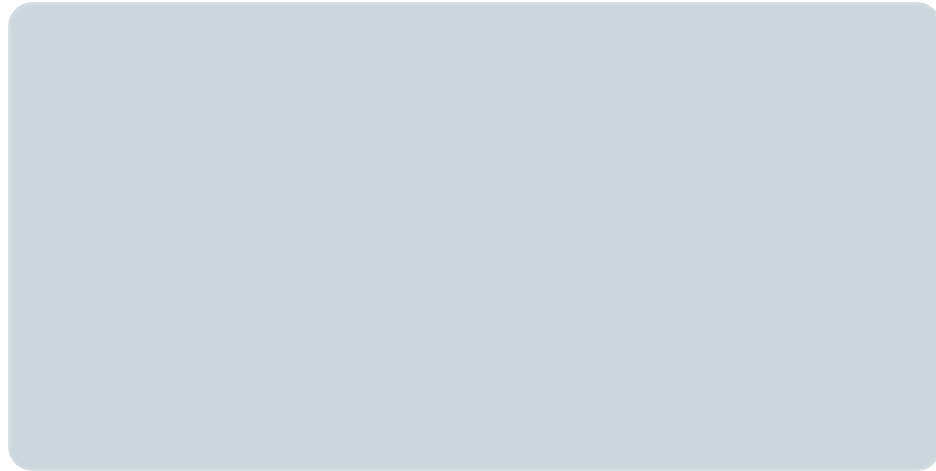


Dr Alex Bond 🇪🇺🇨🇦🐧 · Jun 21

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Lots of data about plastic ingestion is old. Production is going up exponentially, but some species haven't been looked at since the 1980s. [@Nina\\_Ohanlon](#) et al also found poor data reporting & many species with no data at all [sciencedirect.com/science/articl...](https://www.sciencedirect.com/science/article/...)  
**#POPCORN2022** 3/10



Dr Alex Bond 🇪🇺🇨🇦🐧

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Of the species \*with\* data, lots have small sample sizes. If we're serious about understanding plastic ingestion, we need to know the \*current\* extent of the problem, and which species/populations are most affected  
**#POPCORN2022** 4/10



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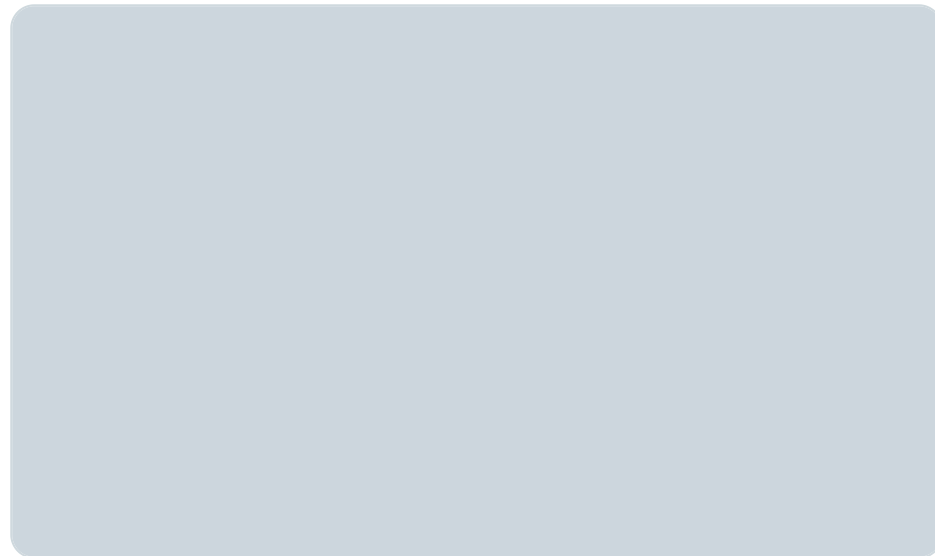


Dr Alex Bond 🇨🇦🇵🇪 · Jun 21

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When it comes to nest incorporation, we now have reliable ways to measure not only at the population level (@[Nina Ohanlon](#) et al [sciencedirect.com/science/article/...](https://www.sciencedirect.com/science/article/...)), but also individual nests (@[OceanGirl Megan](#) et al [sciencedirect.com/science/article/...](https://www.sciencedirect.com/science/article/...))  
[#POPCORN2022](#) 5/10



Dr Alex Bond 🇨🇦🇵🇪

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Researchers visiting seabird colonies can now snap a photo of a nest, and we can quickly, reliably, and repeatably determine a) how many nests at a colony have plastics, but also data on individual nests

[sciencedirect.com/science/article/...](https://www.sciencedirect.com/science/article/...) [#POPCORN2022](#) 6/10



**RESULTS:**

**Cells without debris: 18**

**Cells with debris: 40**

**Proportion of debris  
visible at the nest  
surface = 69%**

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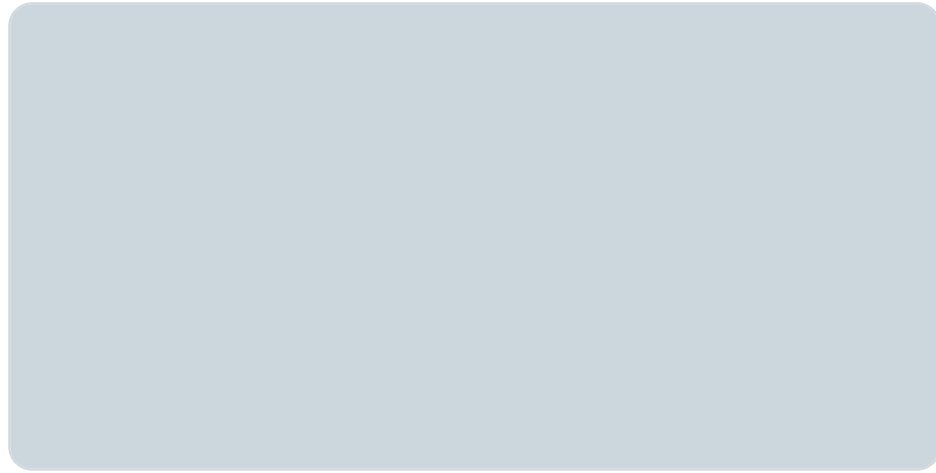


Dr Alex Bond 🇨🇦🇵🇪 · Jun 21

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How can we affordably capture data from a huge area (like the NPA region)? We built [@BirdsDebris](#) for community scientists to report plastic incorporated into bird nests and have >200 records from around the world! [birdsanddebris.com](#) [#POPCORN2022](#) 7/10



Dr Alex Bond 🇨🇦🇵🇪

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Some records won't be surprising. But bringing together disparate individual records into a central place means some interesting things get captured - like this Linnet nest! [#POPCORN2022](#) 8/10



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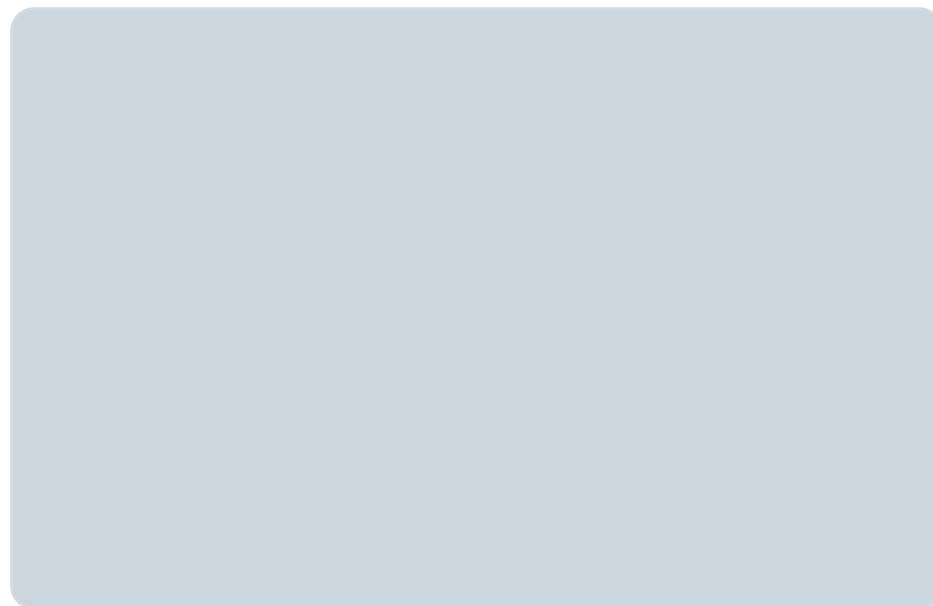
**Dr Alex Bond** 🇮🇪🇨🇦🇩🇪 · Jun 21

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Now, we can easily capture current data, analyse it repeatably, retrospectively, and quickly regardless of the species, year or place! All we need is for observers to contribute observations

[sciencedirect.com/science/article...](https://www.sciencedirect.com/science/article...) **#POPCORN2022** 9/10



**Dr Alex Bond** 🇮🇪🇨🇦🇩🇪

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Many thanks to all the coauthors ([@DrNeilJames](#) [@eamasden](#) [@Nina\\_OHanlon](#) [@OceanGirl\\_Megan](#) [@SeabirdSentinel](#)), and to [@APP4SEA](#) NPA & [@TheACU](#) for funding, to all the data contributors, and everyone submitting sightings to [@BirdsDebris](#)! **#POPCORN2022** #10/10



## UNDER THE SURFACE Plastic Litter and Birds

Alex Bond ([@TheLabAndField](#)), Nina O'Hanlon ([@Nina\\_OHanlon](#)),  
Neil James ([@DrNeilJames](#)), Elizabeth Masden ([@eamasden](#)),  
Megan Grant ([@OceanGirl\\_Megan](#)) & Jennifer Lavers ([@SeabirdSentinel](#))

#POPCORN2022 - 21 June 2022



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Birds and plastics do not "mix" well, and prevention is of course the first way to address this issue. But what if the damage has been already done, how to fix this? Well, this might call for good old fashioned "roll up your sleeves and get to work" -spirit.

**#POPCORN2022**



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Beach clean-ups and citizen science – Julia Jännäri, Keep the Archipelago Tidy  
**@roskaroope #POPCORN2022**

10:45 AM · Jun 21, 2022



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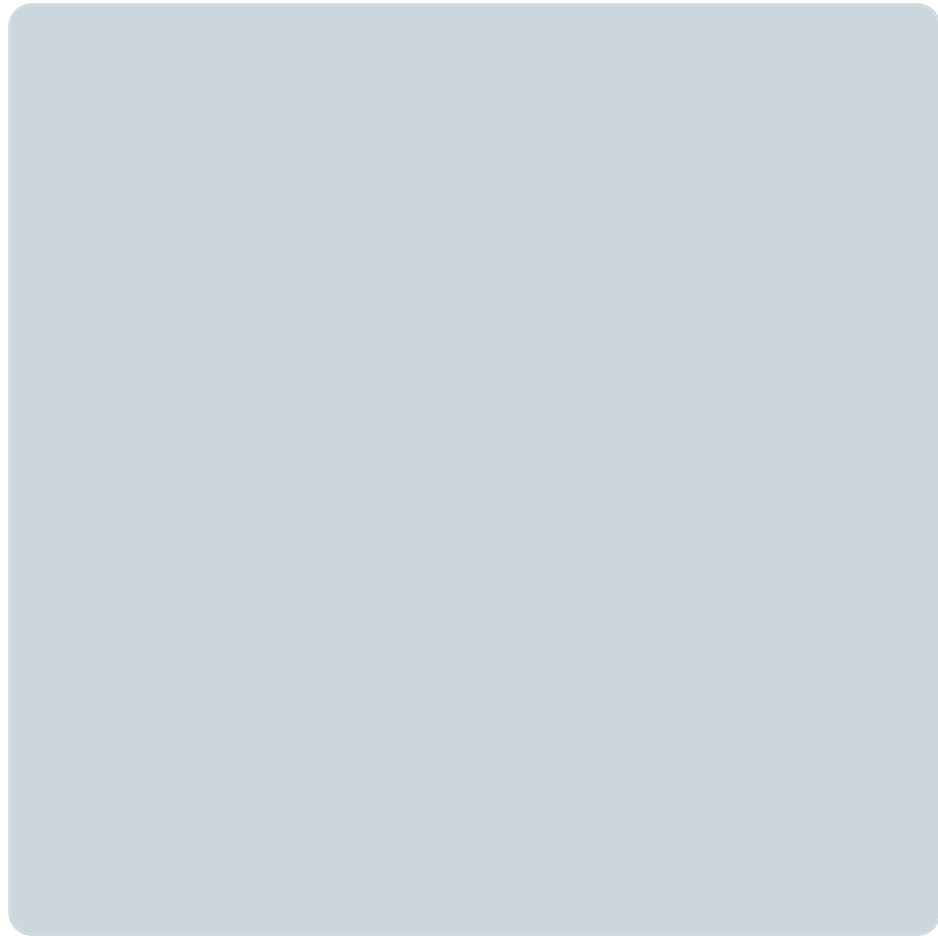


**PidäSaaristoSiistinä** · Jun 21



@roskaroope · [Follow](#)

1/10 Keep the Archipelago Tidy Association (KAT) is an organization founded in 1969 that concentrates on environmental issues in and around Finnish waterbodies and the [#BalticSeaRegion](#).  
[pidasaaristosiistina.fi/en](https://pidasaaristosiistina.fi/en) [#POPCORN2022](#)



**PidäSaaristoSiistinä**

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2/10 In the 1970s, waste management was very undeveloped in Finland. In the archipelago areas, people used to dump their rubbish into the sea or construct private landfills. The beaches were really trashy back then. [#POPCORN2022](#)





**PidäSaaristoSiistinä** · Jun 21, 2022



@roskaroope · [Follow](#)

Replying to @roskaroope

3/10 The first monitored beach clean-up was executed in the Archipelago Sea area in 1978. During that time, the share of plastics was 41%. Monitoring was repeated in 1984 and the amount of plastic litter had risen 160%. **#POPCORN2022**



**PidäSaaristoSiistinä**

@roskaroope · [Follow](#)

4/10 Today KAT conducts an annual field monitoring of **#marinelitter** on 14 beaches in Finland. A decade-long research shows that litter found on the shores of the **#BalticSea** is dominated by single-use plastics, such as take-away litter and cigarette butts.  
**#POPCORN2022**

10:48 AM · Jun 21, 2022



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7/10 Recording the litter by numbers of individual items is the same method used internationally to monitor littering, so this act facilitates the comparison of results with other litter reports. [#BeachCleanUp](#) [#POPCORN2022](#)



PidäSaaristoSiistinä

@roskaroope · [Follow](#)

8/10 Solving the littering problem is complex. We work actively to find innovative solutions to support the sustained well-being of waterways and the archipelago. Environmental communication and education are vital parts of our activities in fighting [#marinelitter](#). [#POPCORN2022](#)



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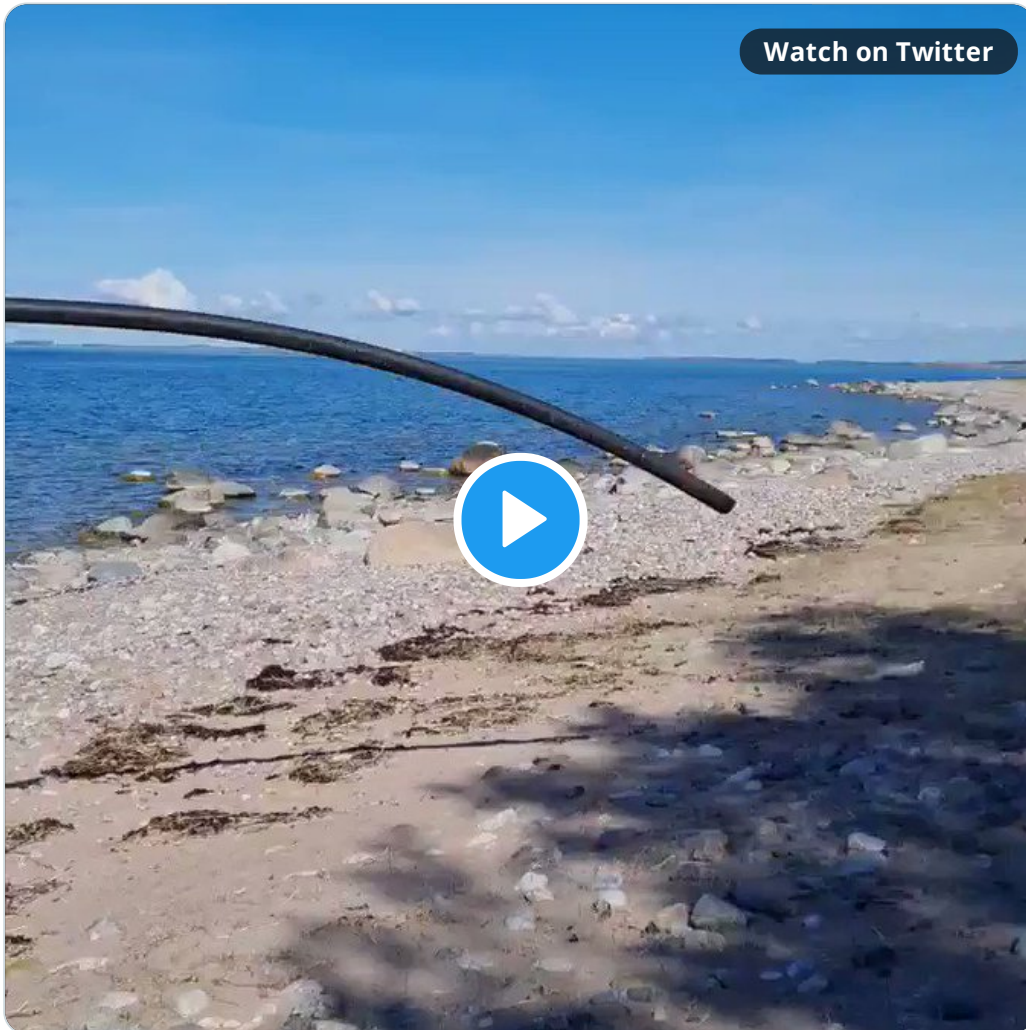
9/10 Our members form the cornerstone and foundation of our activities. Members make it possible for us to carry out our comprehensive work intended to keep the marine and lake environs clean. [pidasaaristosiistina.fi/join](https://pidasaaristosiistina.fi/join). [#POPCORN2022](#)



**PidäSaaristoSiistinä**

@roskaroope · [Follow](#)

10/10 Thank you for keeping the archipelago tidy with us! You are also welcome to follow us on Facebook at [facebook.com/pidasaaristosi...](https://facebook.com/pidasaaristosi...) and IG at [instagram.com/pidasaaristosi...](https://instagram.com/pidasaaristosi...). [#keepthearchipelagotidy](#). [#POPCORN2022](#)



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4



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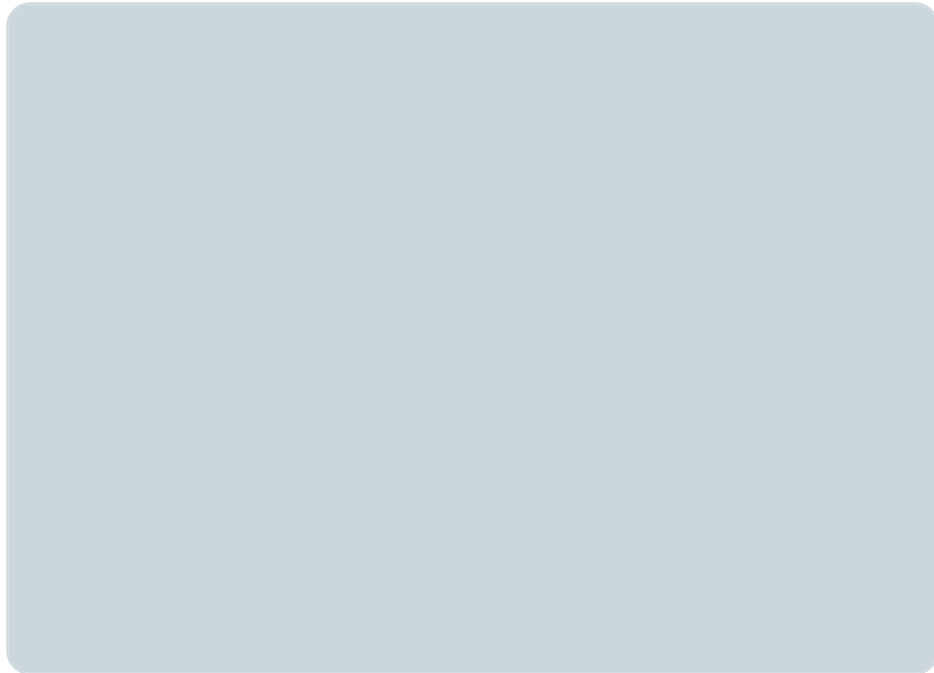


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And now we are at the end of our second session. Phew, time flies when you are having fun. Big thanks again to our presenters [@GGGInitiative](#) [@gullarz](#) [@TheLabAndField](#) [@roskaroope](#). Has someone run out of popcorns already? More on the way next! [#POPCORN2022](#)



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And now it is time for session 3 and 🍿. But what is POPCORN? It is a clustering project of [@NPA2014\\_2020](#), which brings together 3 [@NPA2014\\_2020](#) projects and 1 [@InterregBSR](#) project working with [#MarinePollution](#) [#POPCORN2022](#) [#Interreg](#)



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First one is APP4SEA, which was focused on **#Arctic**  
**#OilSpillResponse**. The project looked at the gaps and improvement  
needs of **#OilSpillResponse** in the northern seas. One of the outputs  
of APP4SEA was a smart map, more of which later...

**[app4sea.interreg-npa.eu](http://app4sea.interreg-npa.eu)**



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In POPCORN, we have collected the main outputs, such as reports and infographics, of these four projects into a toolkit. Have a look:

[popcorn.interreg-npa.eu/resources/](https://popcorn.interreg-npa.eu/resources/) [#POPCORN2022](#)



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The toolkit also includes various webinars on [#oilspills](#), oiled [#wildlife](#) response, marine [#plasticpollution](#) and circular economy solutions to plastic waste: [popcorn.interreg-npa.eu/news/show/webi...](https://popcorn.interreg-npa.eu/news/show/webi...) [#POPCORN2022](#)



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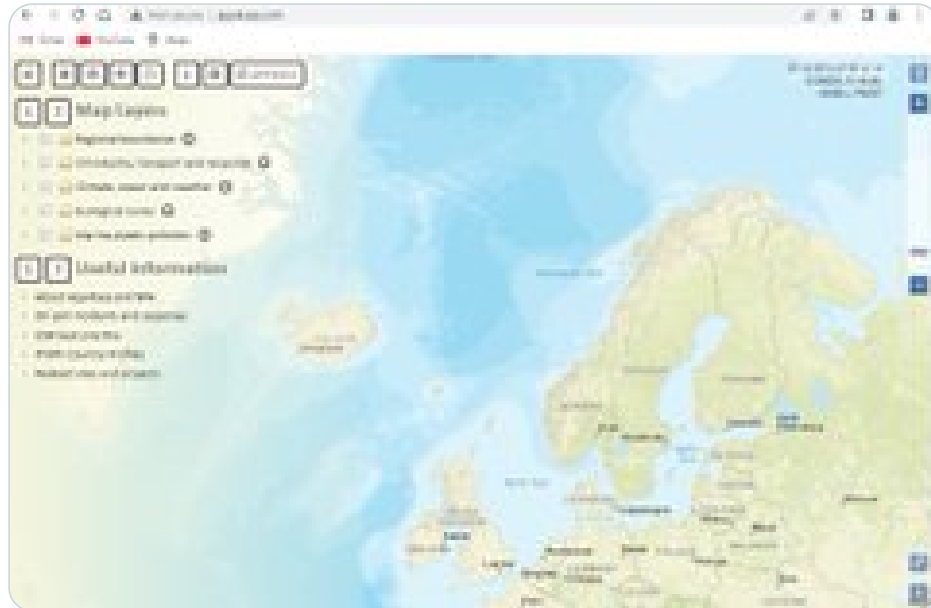


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In APP4SEA a smart map was put together for the whole NPA region. Authorities have their own operational tools for **#OSR**, but this kind of bigger map was missing. The map serves also public, informs them about oil spills, how well we are prepared for them, etc.

**#POPCORN2022**



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Map [app4sea.com](https://app4sea.com) has main layer sections about 1) regional boundaries, 2) Oil industry, transport and response, 3) Climate, ocean and weather & 4) Ecological zones, which contain relevant information for OSR in map form – and also useful info section **#POPCORN2022**

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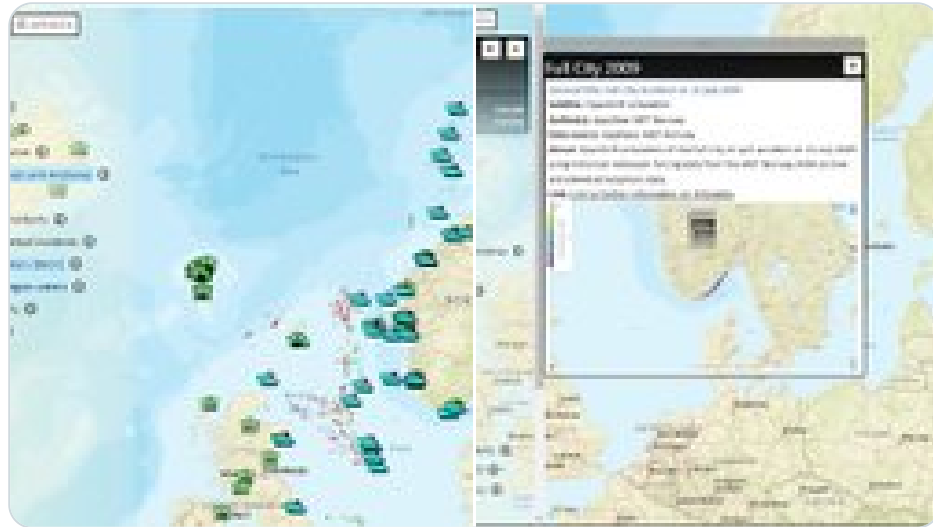
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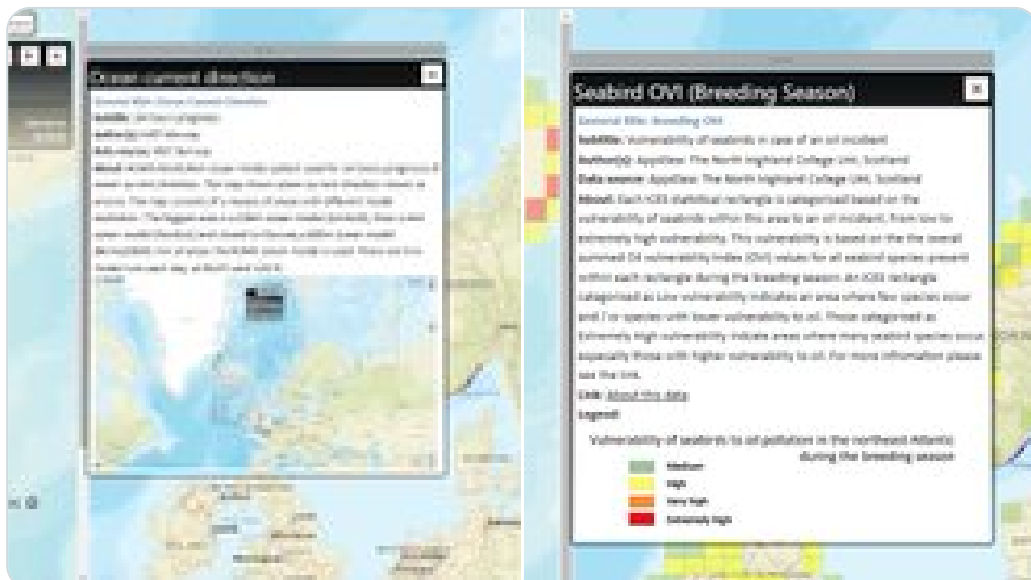


There is information about the OSR response sites and vessels, about oil fields, and density of shipping traffic. There is also simulations of actual accidents and hypothetical cases, showing the spreading of oil after a spill **#POPCORN2022**



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Climate, oceanographic and weather data play a great role in OSR (where does the oil drift, etc.). In addition to this, there is also ecological data, who are at risk, in case of oil spills. Latest addition to the map is Marine plastic pollution **#POPCORN2022**



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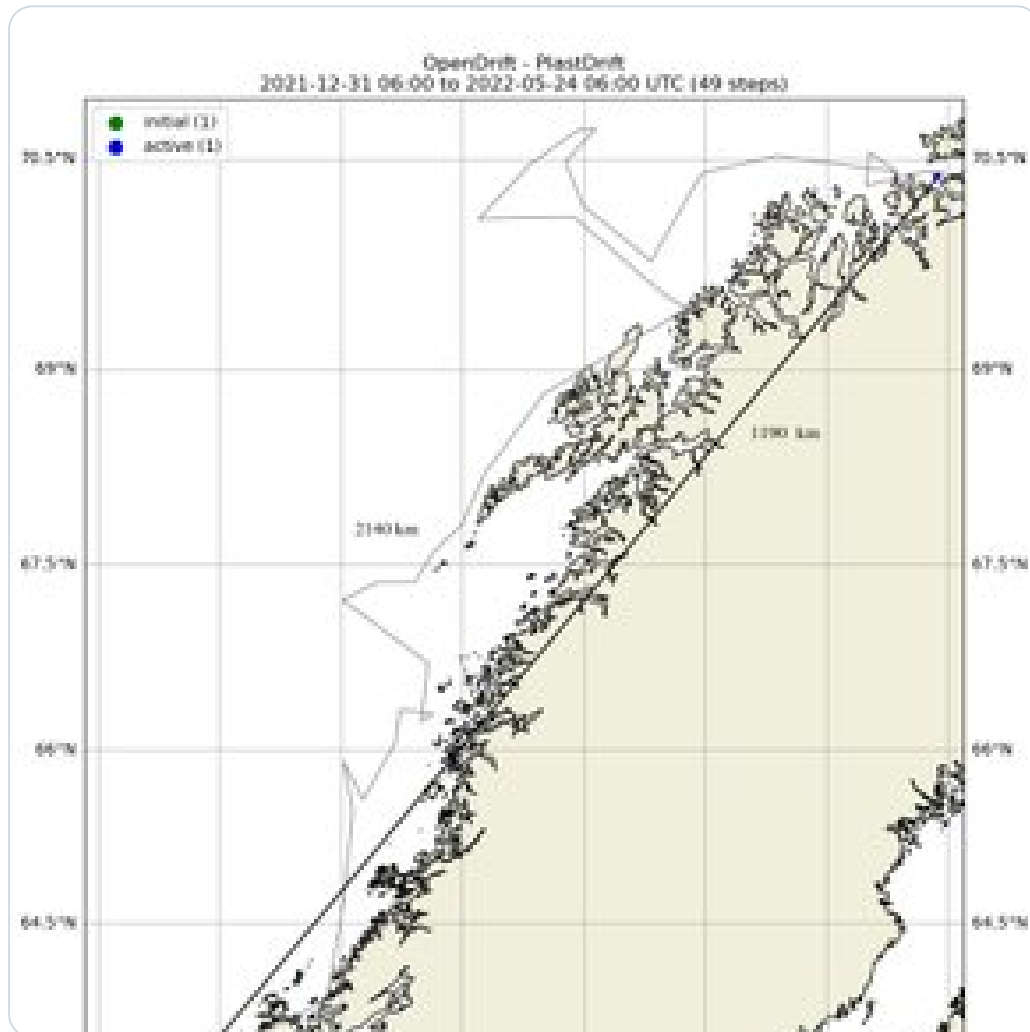


The smart map has also data about marine plastic pollution, which are result of our [#PlasticsInTheSea](#) campaign. We created 4 hypothetical [#MarineLitter](#) cases, and [@Meteorologisk](#) used their [#OpenDrift](#) programme to create simulations for these. [#POPCORN2022](#)



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First one was case Bergen, a plastic bottle that fell overboard on [#NYE](#) from a Hurtigruten boat on the west coast of Norway. This bottle drifted almost to the [#NorthCape](#) – over 2000 km - in the 5 months that we tracked this case [#MarineLitter](#) [#POPCORN2022](#)



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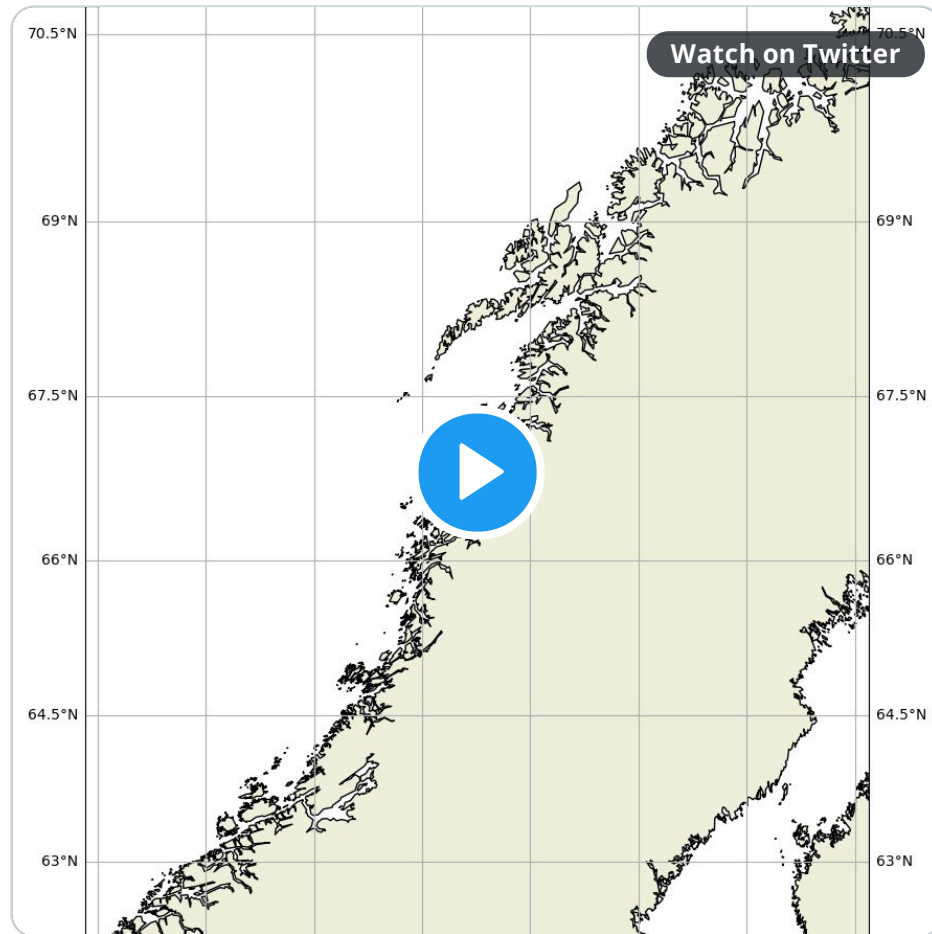
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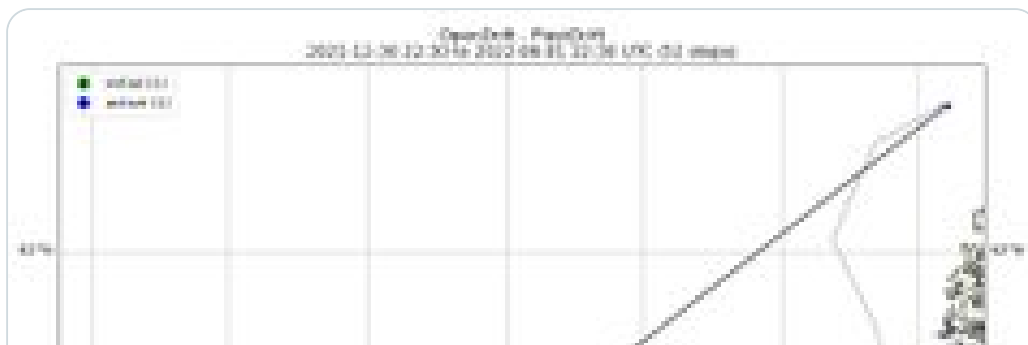


And a short video [#POPCORN2022](#)



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[#GhostGear](#), which was the focus of session 2 keynote, was the star of case Thurso. A part of fishing net was torn away from a fishing vessel and ended up from the Coast of [#Scotland](#) to the West coast of [#Norway](#). [#POPCORN2022](#)





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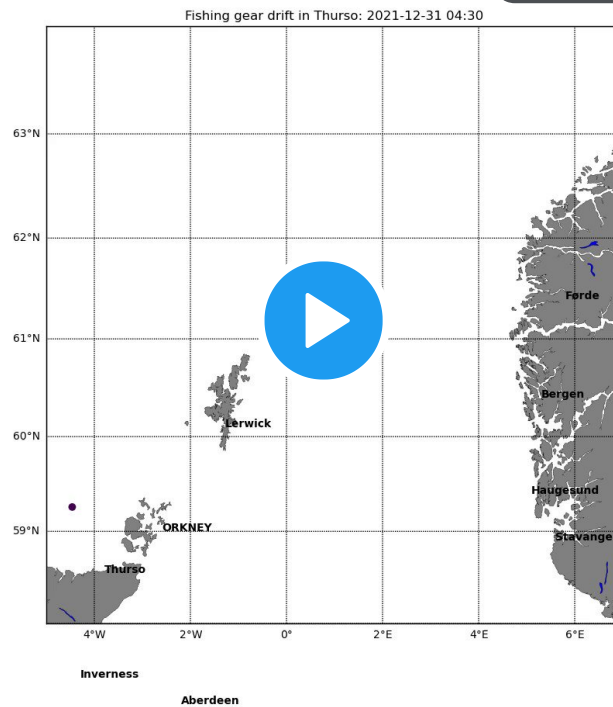
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and the simulation [#POPCORN2022](#)



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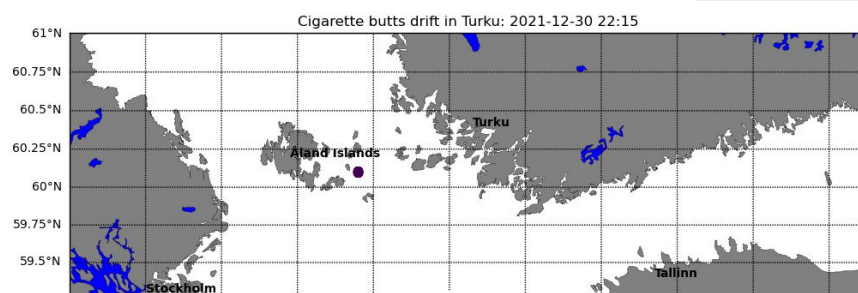


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**#Some** of the **#MarineLitter** are small already when they enter the sea. The next case of Turku was about 50 cigarette butts, which well overboard from a ferry travelling between Turku and Stockholm. These spread far and widely in the **#BalticSea** [#POPCORN2022](#)

Watch on Twitter

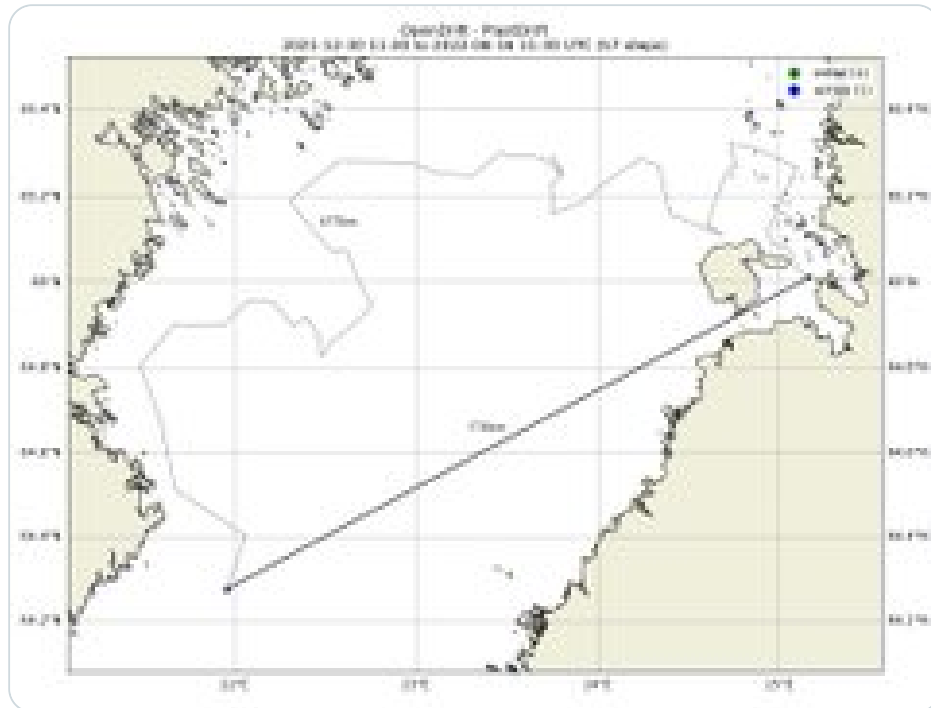




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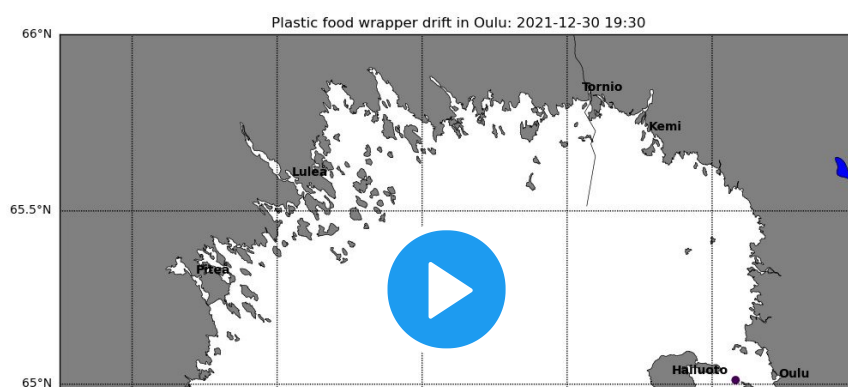
Finally there was case Oulu, a sweet wrapper that fell into sea in the icy **#GulfOfBothnia**. The wrapper drifted slowly under the ice covered sea, but still managed to get quite far during the long ice season. Simulations can be found at [app4sea.com](https://app4sea.com) later **#POPCORN2022**



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And the simulation **#POPCORN2022**

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**POPCORN\_NPA** · Jun 21

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And now we are almost at our final tweet. Thank you to all our presenters for making this happen and for sharing your knowledge about **#MarinePollution** with the Twitter community! Keep the tweets flying, make those difficult questions to the presenters! **#POPCORN2022**



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POPCORN is almost at the end, but there is still one thing in the pipeline, a POPCORN publication is coming up shortly, stay tuned! But now, lets enjoy the longest day of the year and the upcoming Midsummer! **#Juhannus**  
**#Midsommar** **#POPCORN2022**

11:28 AM · Jun 21, 2022



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The tweets by chair and the presenters of the POPCORN final conference, held on 21st of June 2022 - search #POPCORN2022 to find the whole thread in Twitter