

## TOURISM VESSELS IN THE ARCTIC ASTD PRESENTATION

Arctic Marine Tourism Project workshop – 3. February 2020 – Oslo, Norway



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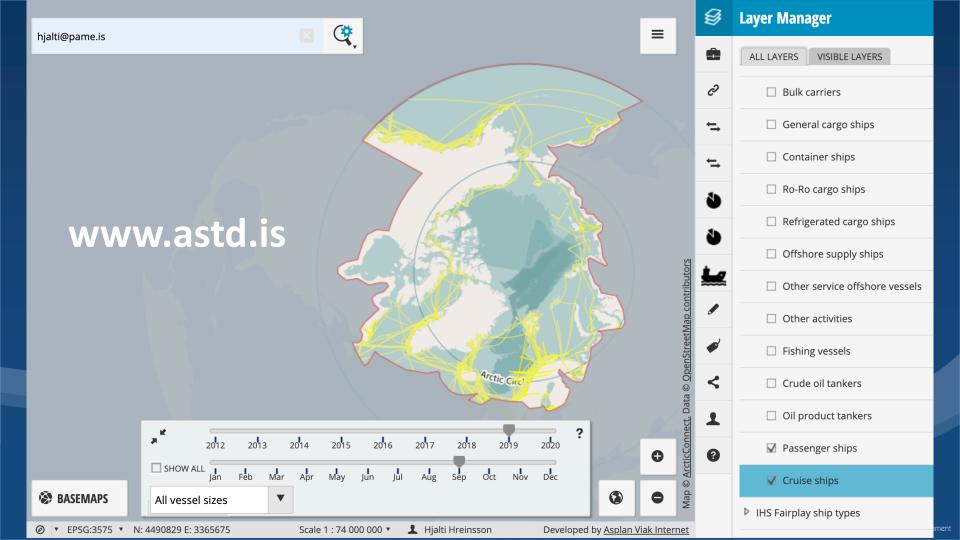
PAME Project Manager



#### **About ASTD**

- PAME's ASTD Project is in response to a growing need within PAME and the Arctic Council, to collect and distribute accurate, reliable, and up-to-date information on shipping activities in the Arctic
- It has been an approved project within the PAME Work Plan since 2015 and is led by USA and Norway.
- ASTD is the first comprehensive Arctic shipping activity database





### Arctic Ship Traffic Data (ASTD)

- Detailed statistics on multiple aspects, including:
  - Emission by ships
  - Number of ships in the Arctic
  - Types of vessels in the Arctic
  - Fuel use and consumption of fuel
  - Traffic in specific areas in the Arctic
  - Number of ships in Arctic Ports
- Download of data for detailed analysis is a crucial aspect





### Arctic Ship Traffic Data (ASTD)

ASTD.IS

#### **Purpose:**

Collect historical information about shipping activity in the Arctic from the Arctic States to use for trend analysis and related purposes under the auspices of the Arctic Council.

#### **Outcome:**

User-friendly maritime traffic analyses of Arctic shipping data that benefits the Arctic States, the Arctic Council, its working groups and subsidiary bodies.



### **ASTD:** Main Goals

- Provide reliable data for different analyses performed under the realm of the Arctic Council
  - For its Member States
  - Permanent Participants
  - Working Groups
  - Observers
  - Recognized research Institutes
  - Academic institutions
- Promote Arctic research and development by offering high quality data



### **Access to the ASTD System**

Free access

Fee for access

Arctic State
Approved
Government
Agencies and
Ministries

Arctic Council Permanent Participants Arctic Council Working Groups and Task Forces

Professional Institutions
that have a
demonstrated public
commitment related to the
protection, conservation,
and sustainable use of the
Arctic marine environment.

Arctic Council Observer States

Arctic Council
Observer
Organizations



### Data

- Data comes from Norway and USA
  - Over 20 satellites and 50 base-stations



AIS from Norway

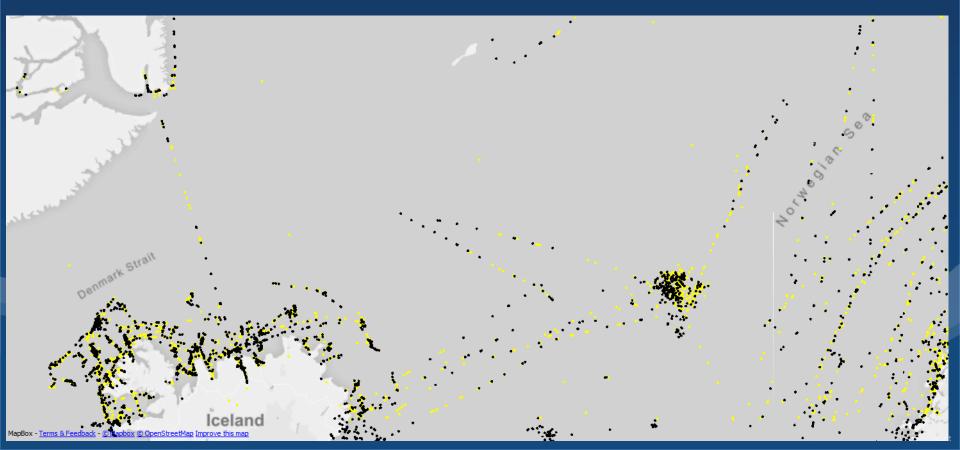
AIS from USA

IHS Fairplay and ShipInfo Information about ships

ASTD Database



### High data quality and accuracy





### **TOURISM VESSELS – DEMO ANALYSIS**

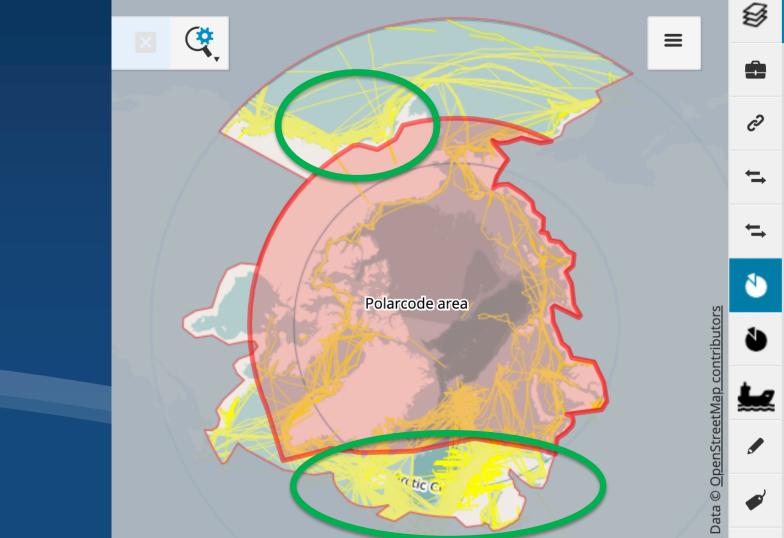


### Ship Types

	ASTD Ship Types	IHS Fairplay – Level 3	IHS Fairplay – Level 5
1	Cruise ships	Passenger. Dry	Passenger/Cruise
2	Cruise ships	Dry Cargo/Passenger	Cruise ship, Inland Waterways
3	Passenger ships	Passenger /Ro-Ro Cargo	Passenger/Ro-Ro ship (Vehicles)
4	Passenger ships	Passenger	Passenger/landing Craft
5	Passenger ship	Passenger	Passenger Ship









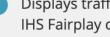










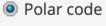














Select your region

Main ship type:

ASTD types

Select vessel types









Cruise ships, Pass

Number of unique Select period:

### **Unique Ships**

Unique ships refers to counting ships that enter a certain geographic area in a given time. Each ship in that given time is ounly counted once, hence: Unique ships.



### **Unique Ships** – Arctic Polar Code area 2013-2019 Cruise and Passenger vessels



### **Unique Ships** – Arctic Polar Code area 2013-2019 in September: Cruise and Passenger vessels



### **Distance Sailed**

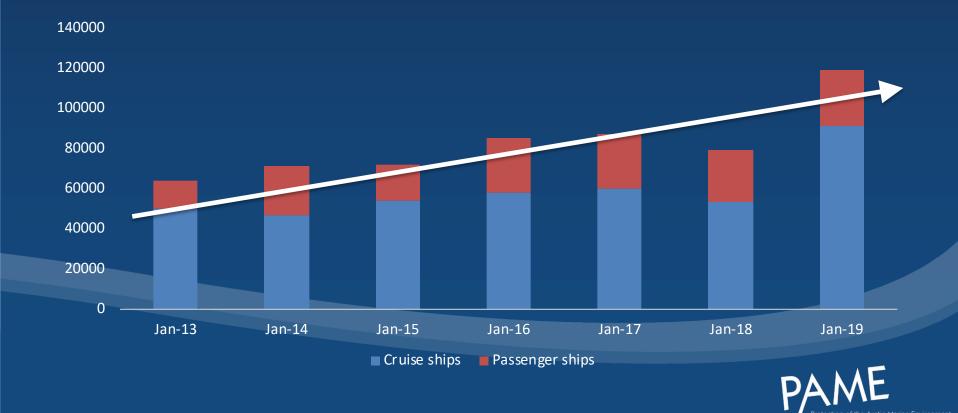
Distance sailed is the aggregated nautical miles vessels traveled in a certain period of time in a certain area.



### **Distance Sailed** – Arctic Polar Code area 2013-2019 Cruise and Passenger vessels



### **Distance Sailed** – Arctic Polar Code area 2013-2019 in September: Cruise and Passenger vessels



### Ship types in the Arctic Polar Code Area 2018

Number of unique ships



### Ship types in the Arctic Polar Code Area 2018 Number of unique ships

**TOURISM VESSELS** 

82

**ALL OTHER SHIPS** 

1412



### Ship types in the Arctic Polar Code Area 2018 Number of unique ships

**TOURISM VESSELS** 

5,5%



# INCREASED DISTANCE SAILED

INCREASED RISK PAME

### SHIP ACCIDENTS 2005-2017 – ARCTIC AREA PAME/EPPR CASA PROJECT



# MORE VESSEL ACTIVITY

# UPWORD TRENDS FOLLOW

#### **Increase in:**

- Fuel consumption
- CO2 and other emissions
- -Shipping assidents
- Number of seafarers
- Marine litter



THANK YOU

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