

COPERNICUS IN SUPPORT OF THE ICELANDIC COAST GUARD

Copernicus for Polar Regions
7 November 2018

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LANDHELGISGÆSLA ÍSLANDS
ICELANDIC COAST GUARD

Sustainable Development in and around the Arctic

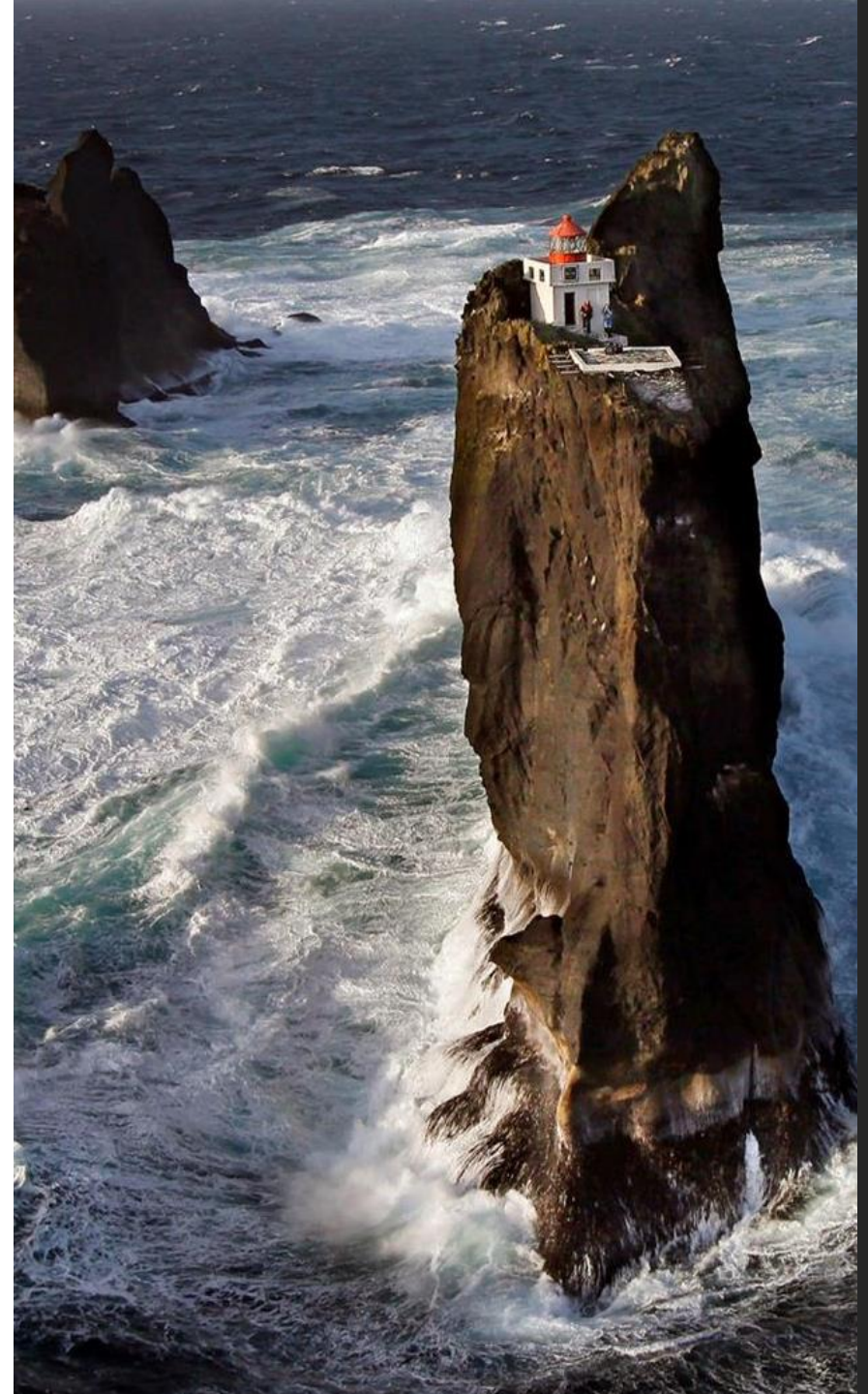


SUPPORTED COAST GUARD FUNCTIONS

- Maritime Safety and Security
- Law Enforcement
- Fisheries Control
- Customs Support
- Protection of the Marine Environment

SUPPORTING ELEMENTS

- Sentinel-1, for oil spill and vessel detection
- Radarsat-2 for vessel detection, resolution >5 m.
(contributing mission)





AREA OF RESPONSIBILITY

TERRITORIAL WATERS:

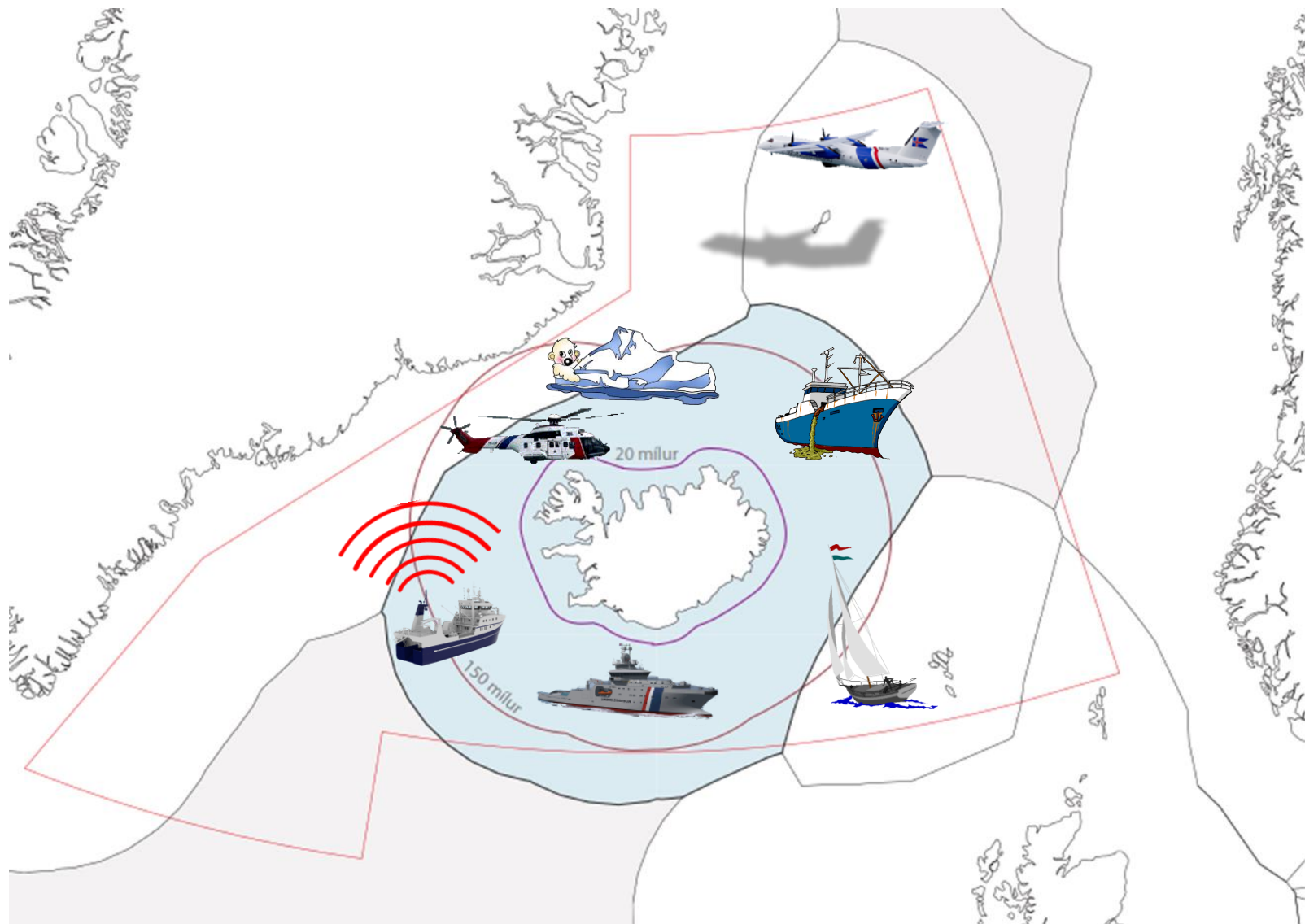
12 nautical miles

EXCLUSIVE ECONOMIC ZONE:

200 nautical miles
754.000 km²

SEARCH & RESCUE REGION

ICELAND SRR:
1.9 million km²





IN-SITU VERIFICATION



Image

June 1

Service: IMS_Fisheries

RADARSAT-2

Sensor resolution: medium size vessels

Value added product

Uncorrelated target

Estimated length 63 m

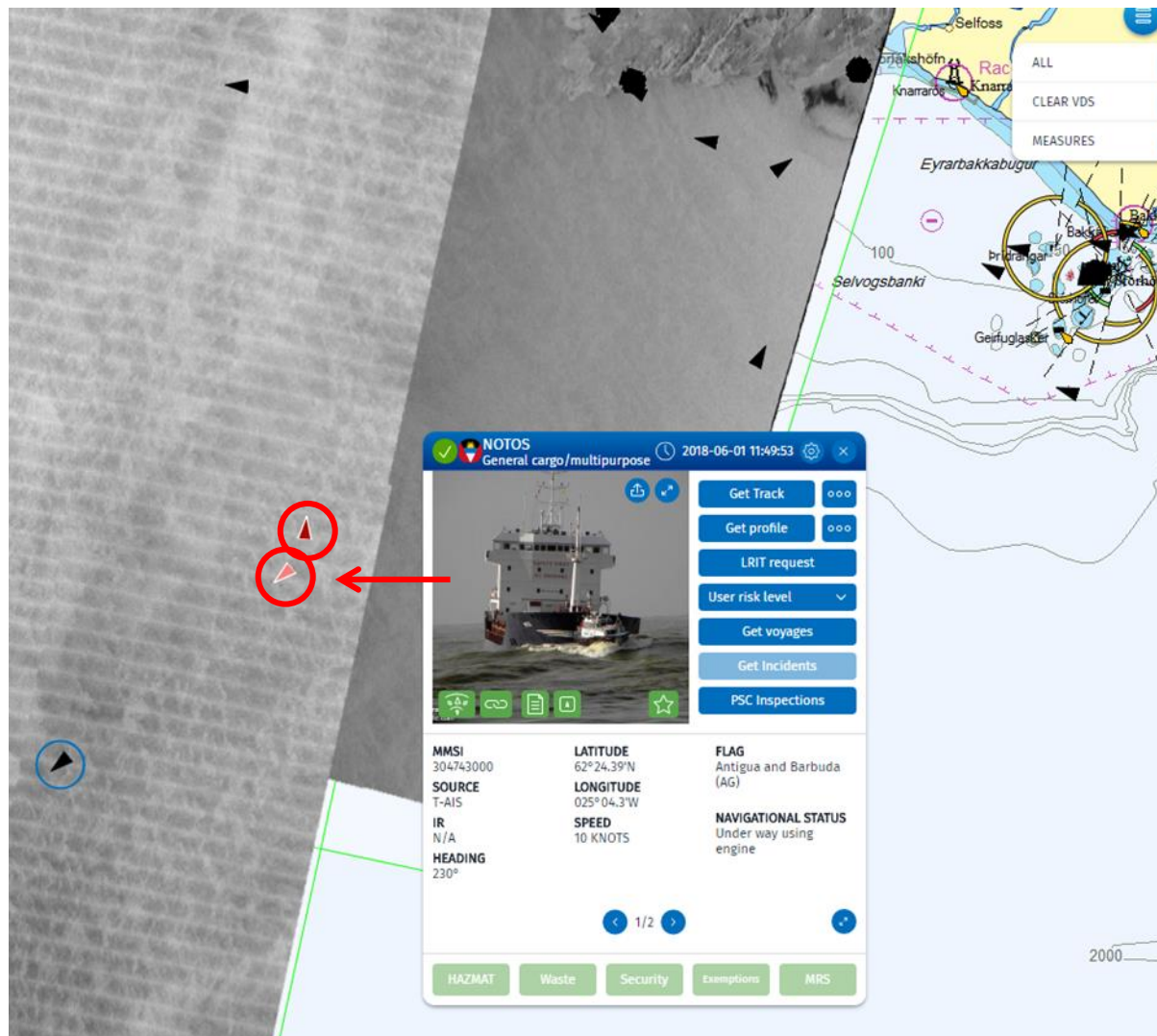
Confidence level 100%

Surveillance a/c diverted

In situ detection

Foreign state fishery survey vessel

Actual length 76 m





MARITIME SAFETY

Images

September 10

Service: IMS_LAW and CLEANSEANET

Satellites: RADARSAT and SENTINEL

Sensor resolution: medium

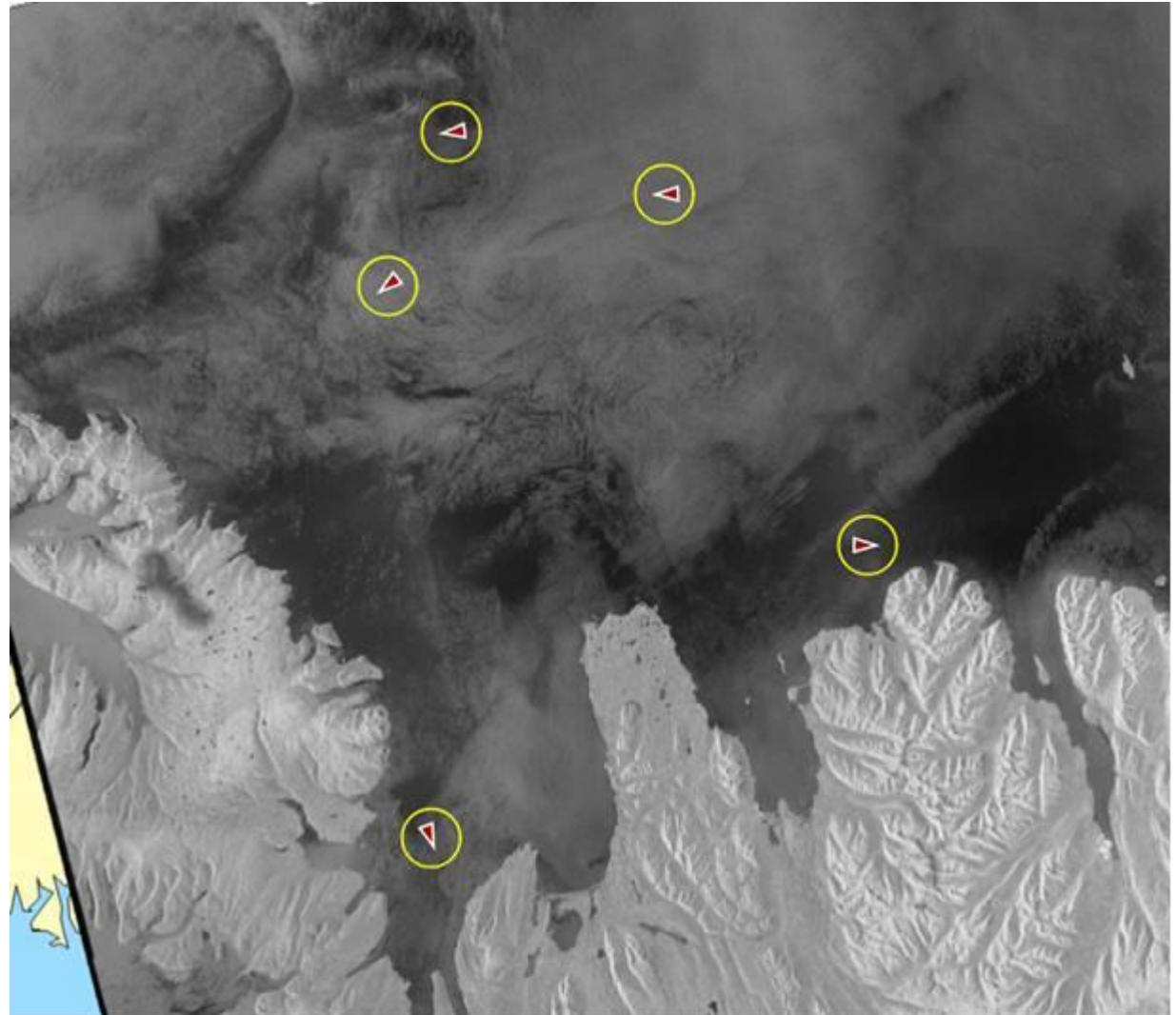
Uncorrelated targets

Estimated length 100 - 170 m

Confidence level 30% - 100%

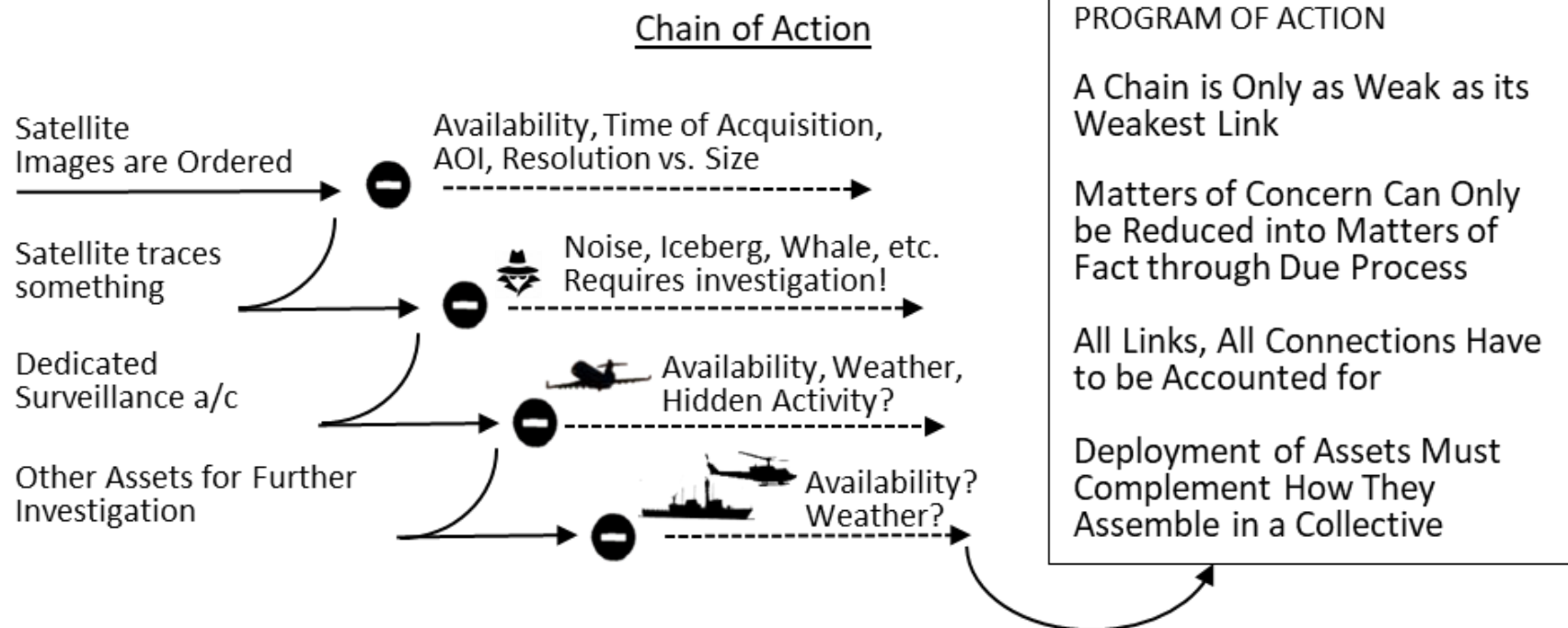
Icebergs

Cost-effective way to detect
icebergs being a hazard to navigation





CHAIN OF ACTION



GAPS => RECOMMENDATIONS

- In-situ activity detection gap => forward technology of RPAS
- Integration of Copernicus products => e.g. support integration of CMEMS in downstream user applications, (e.g. drift calculations).



THANK YOU!

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