



PRIMAR[®]

Fulfilling the national responsibilities of Hydrographic Offices

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PRIMAR RENC



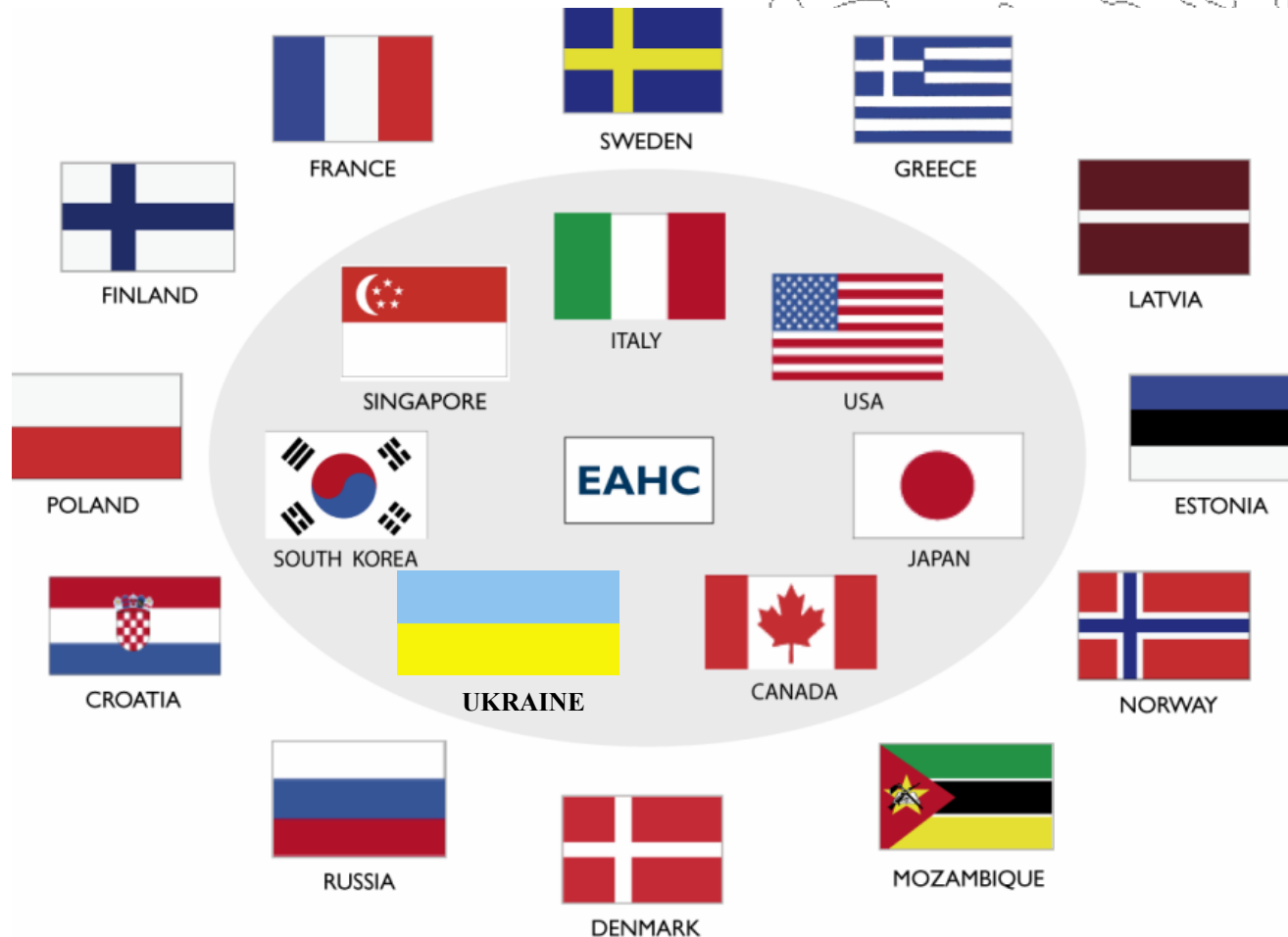
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- Regional ENC Coordinating Centre
- RENC concept is at the core of the WEND Principles (World Wide ENC Database) of the International Hydrographic Organization (IHO)
- International cooperation between many national hydrographic offices
- Operated by the Norwegian Hydrographic Service on not-for-profit basis

PRIMAR ENC Service



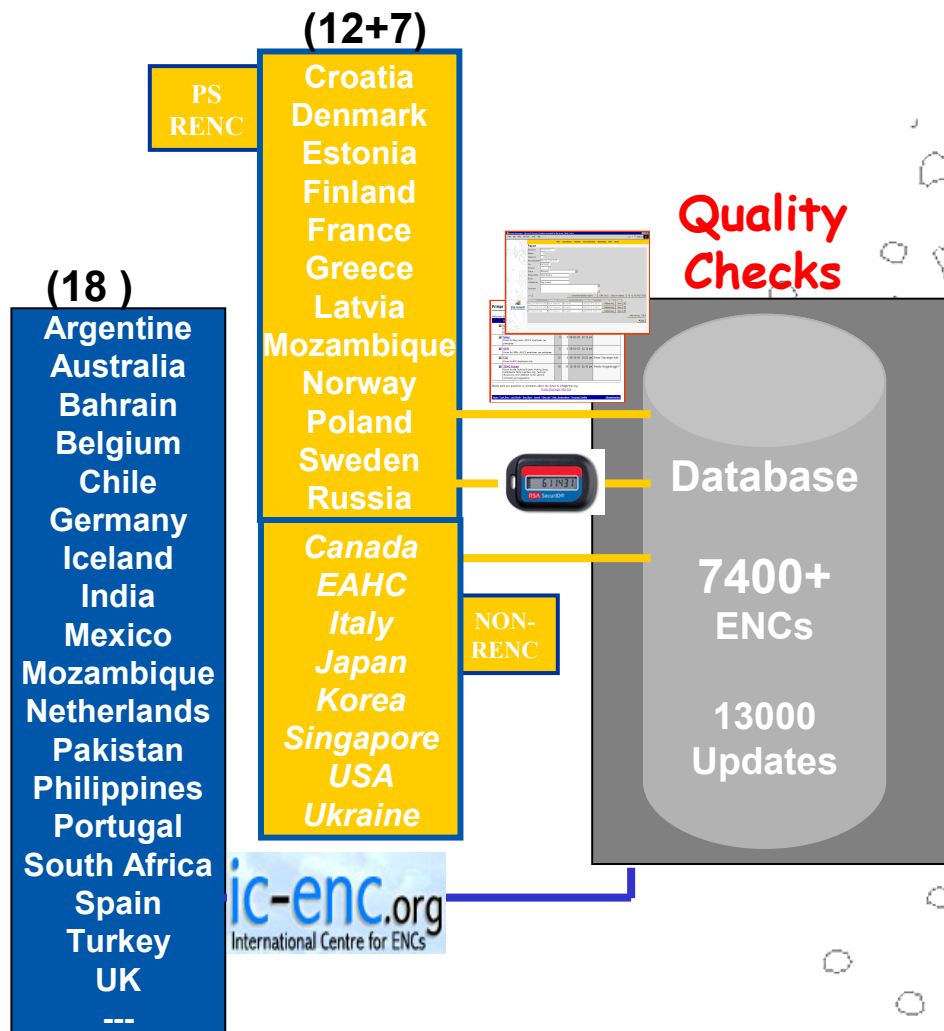
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Operation of the ENC service



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National Services: Navy,
Pilots, VTS, etc



Commercial Distributors: 52

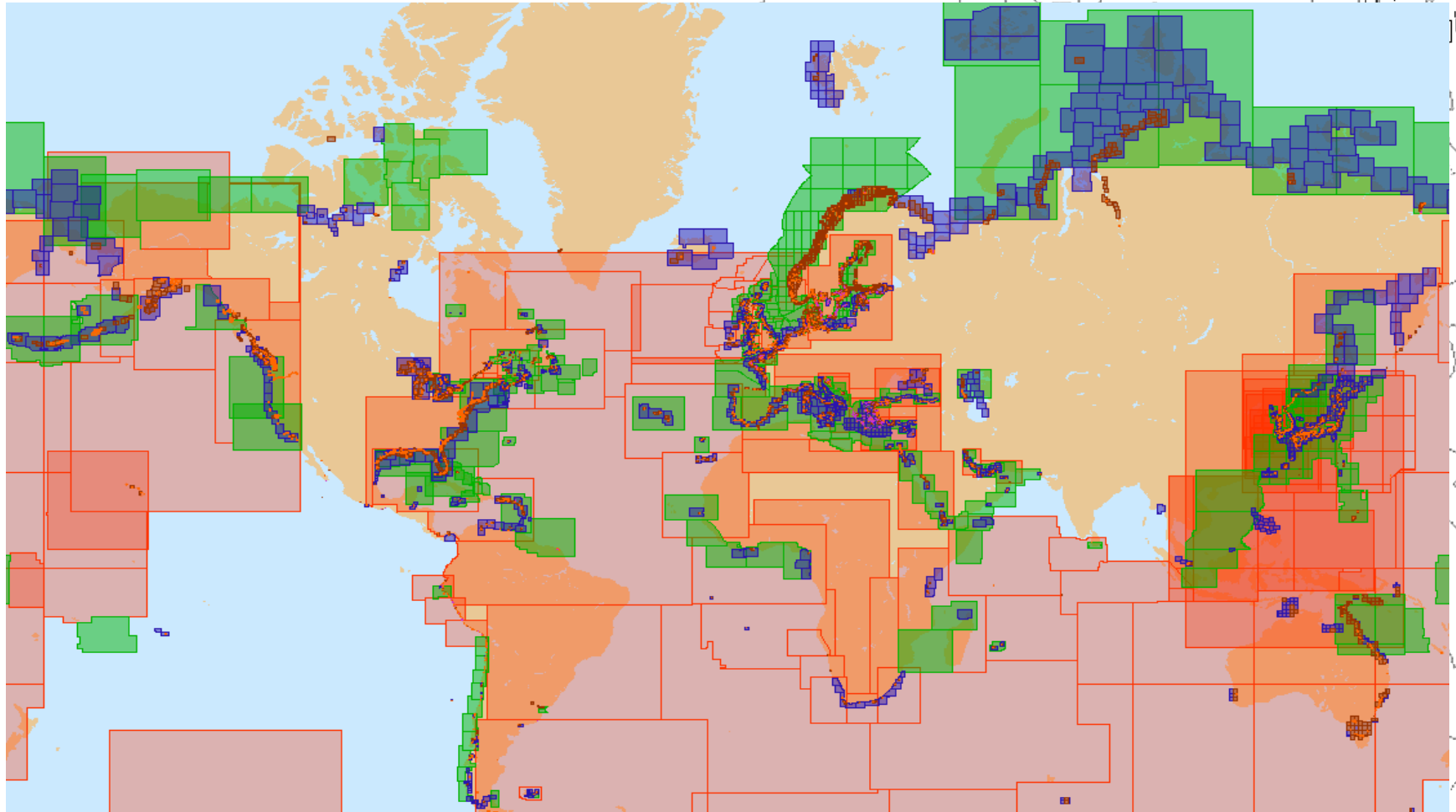


Nations: 35++

PRIMAR ENC Coverage



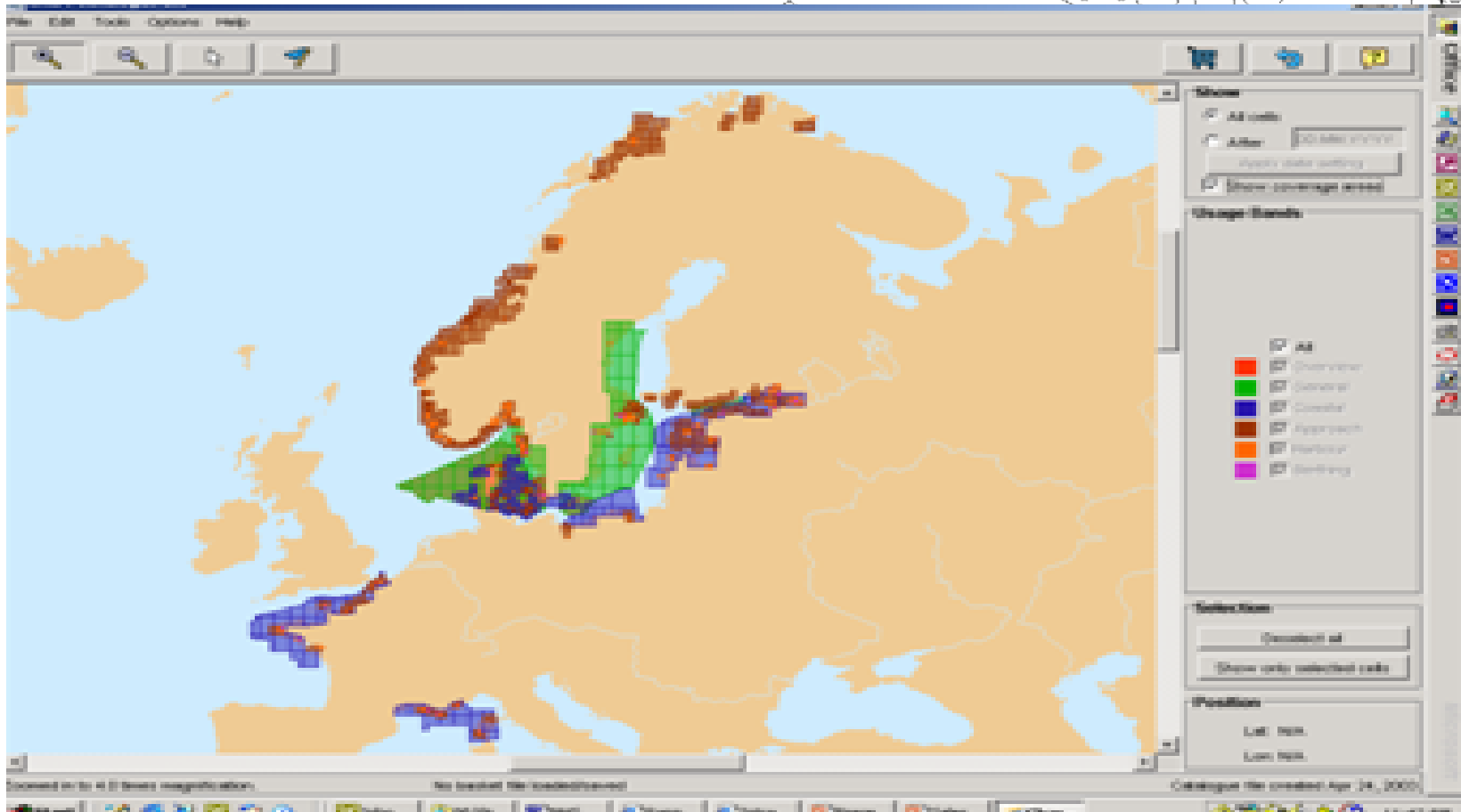
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ENC Coverage in 2003



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Breaking News...

First batch of Brazilian ENC's
released today!



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National services to enhance safety and efficiency

- Common national infrastructure for provision of official data to governmental maritime authorities
- Use of the same official data aboard the vessels and ashore will ensure consistency of references
- Better coordination of activities related to safety at sea e.g search and rescue
- Interoperability of the navigational data between various maritime authorities



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Cooperation between the Norwegian Hydrographic Service and the Norwegian Maritime Directorate

Motivation



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Ever increasing use of electronic charts and electronic chart systems necessitates improved methods of verification of compliance with the national and international requirements.

Objective



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Simplify Port State Control inspections by developing a service that provides authorized users within the Norwegian Maritime Directorate information about all use of Norwegian ENC's.

Background information



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- The Norwegian Maritime Directorate has developed systems and functionality to integrate navigational information with charting services
- AIS information received from the Norwegian Coastal Administration is displayed on a chart background
- Unofficial chart data is currently used as the source

Cooperation between two governmental authorities



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- Agreement between the Norwegian Maritime Directorate and the Norwegian Hydrographic Service on a pilot project
- The Norwegian Hydrographic Service to provide official data for administrative and operational aspects within the Norwegian Maritime Directorate
- PRIMAR infrastructure and database would be made available to NMD to aid Port State Control inspections

Operation of the service



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- The Norwegian Maritime Directorate (NMD) adheres to the guidelines of the Paris MOU for performing Port State Control inspections
- Specific measures regarding inspection of ECDIS and ENC status
- PRIMAR maintains a registry of all use of the ENCs covering the Norwegian waters
- Provision of information to NMD containing IMO No., vessel name, & ENC subscription status of the vessel

Example



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The registry would be searchable by IMO number or vessel name

Vessel : Safe Voyage

IMO: 1234567

Company: Global Shipping Ltd

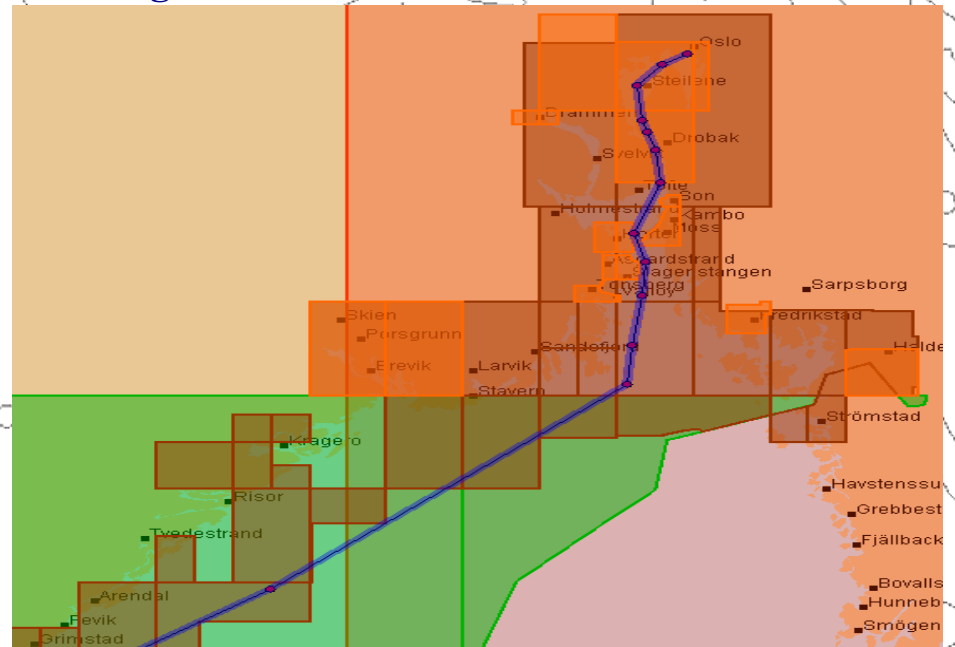
Distributor: Authorized

ENC Subscription: Until 12 Dec 2008

ENC coverage for the vessel displayed graphically

Coverage:

This information will be used to plan and conduct a Port State Control inspection of the vessel



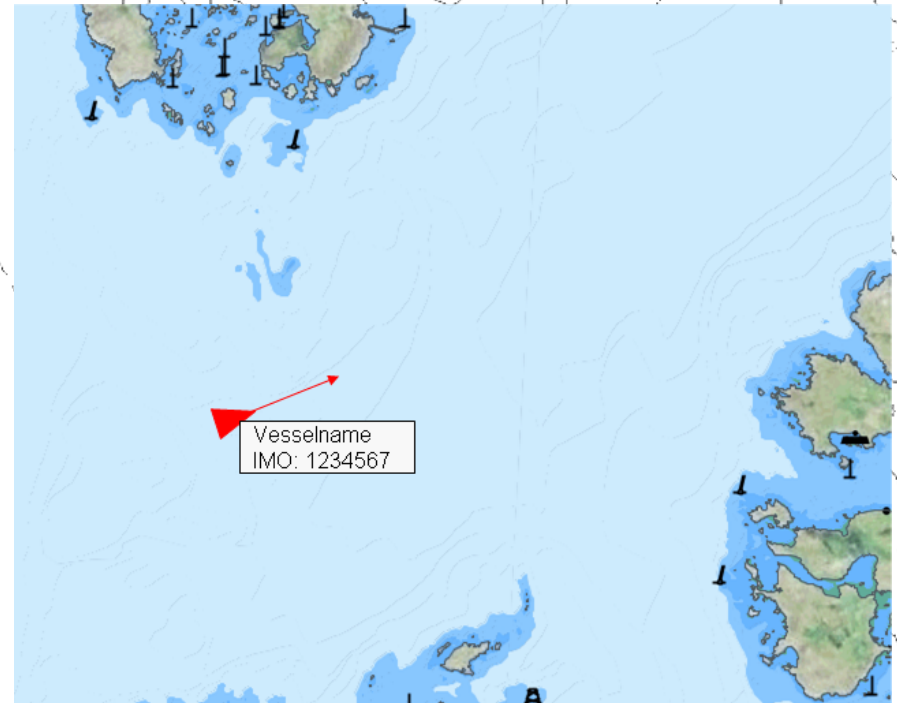
Combination of chart and AIS information



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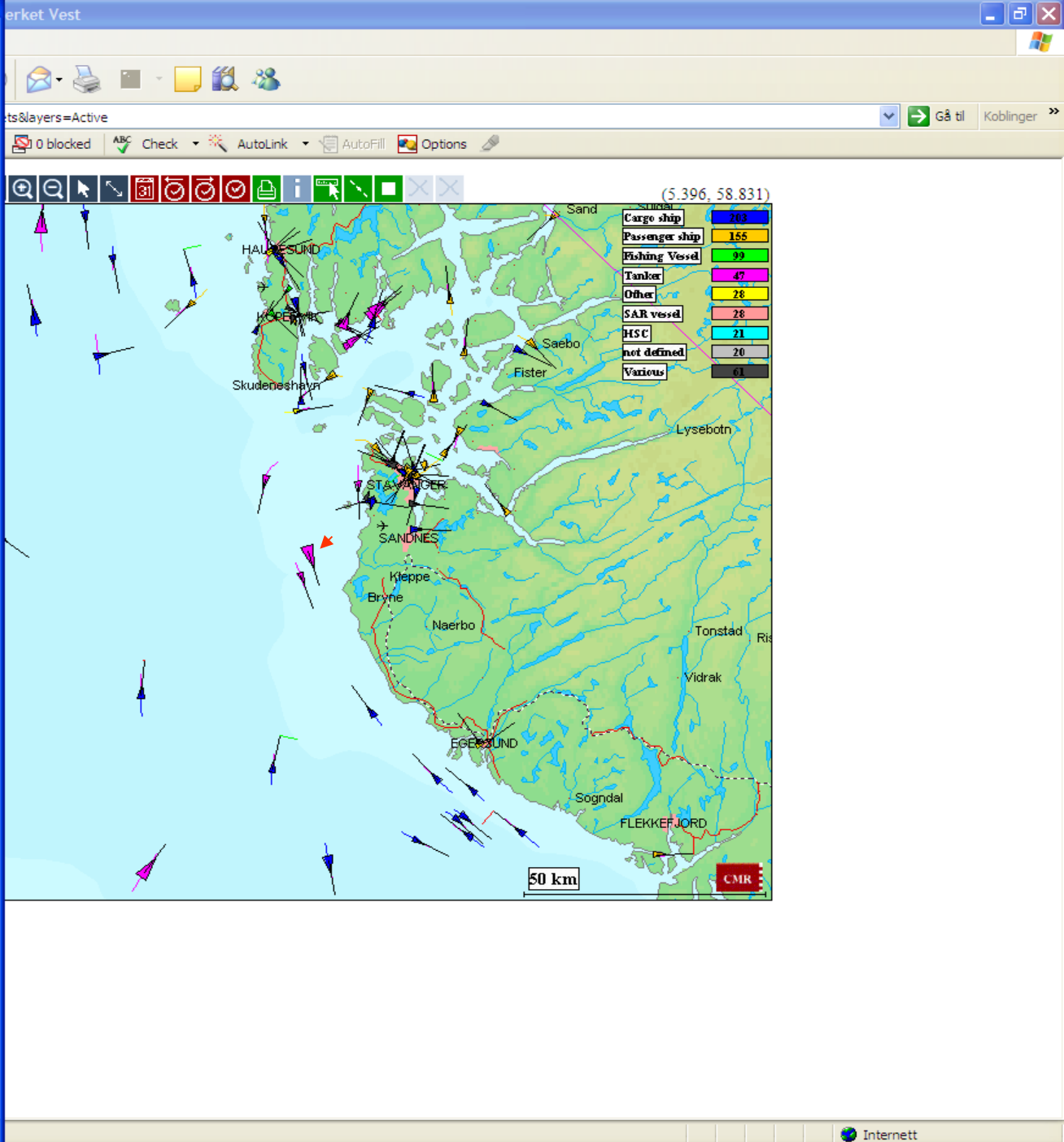
Example: A vessel equipped with ECDIS entering the Boknafjord

Query into the PRIMAR database will be able to reveal the ENC status of a vessel and provide a warning if the vessel is operating outside its current ENC coverage or without a valid ENC subscription



Ais Target: NAVION STAVANGER

Feature name	Value
MMSI	311582000
Country	Bahamas
Source type	AIS
Source name	Norsk AIS
Active	true
Ship name	NAVION STAVANGER
Call sign	C6FW8
IMO number	9248435
Ship type	Tanker
Destination	ROSS O\F
ETA	2005-12-09T12:00:00
Dimension	Lenght: 277.0 Width: 46.0
Maximum actual draught	9.2 m
Positioning device	Global Positioning System (GPS)
Latitude	N 58°49.60'
Longitude	E 005°22.17'
Time stamp	2005-12-07T09:24:15.48
Sun Altitude	04,5 °
SOG	0.1 kn
Max SOG	4.2 kn
COG	079 °
Heading	163 °
ROT	-0.7142446 °/min
Nav Status	at anchor
Pos Accuracy	> 10m
RAIM	Not in use
Time halted	16h 49m
Ship info Callsign	Ship info Callsign (CALL_SIGN)
ENC coverage	Primar
Llyods	Llyods(IMO_NR)
NIS	NIS(CALL_SIGN)



Summary



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- An example of the use of a common national infrastructure for providing national services to fulfil national responsibility
- Highlights benefits of cooperation between governmental maritime organizations
- Another step towards enhancing safety at sea and protection of the environment



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“Sail safely with official charts”



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QUESTIONS??