

# More than the Sum of its Parts

Mseg, 27.03.2014



BarentsWatch

**The hub for knowledge of  
the coastal and oceanic areas**

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**Frode Kjersem**

**Regional director**

**Norwegian Coastal Administration**



**Increased knowledge - and  
interagency cooperation -  
gives operational capacity  
to intervene**



The Norwegian government's strategy for the high North

**Knowledge – Cooperation - Infrastructure**





**The hub for knowledge of the  
coastal and oceanic areas**



# An environment of coexistence



# The Collaboration System



# Active ears and eyes towards users





# Agile Service Development

- Starts with the User Requirements from a team from one sector
- Expand with requirements from other teams in the same sector and from other relevant sectors
- Iterative development with early operational services which expand in functionality and are scale-able
- Continuous development and testing by end users

# An Information Portal and Access Solution for greater overview and insight



# Safer operations in polar regions

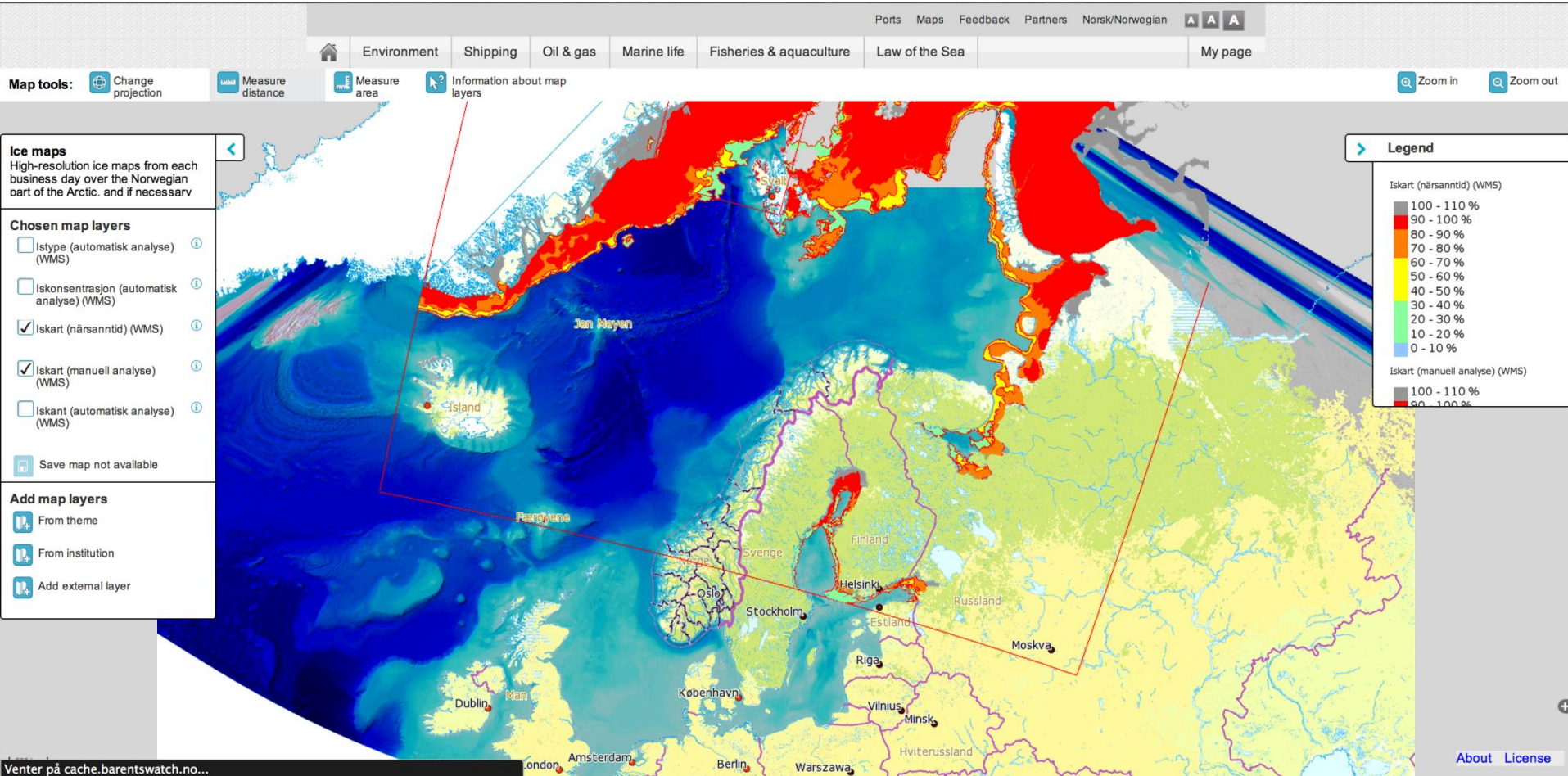


# Forecasting of polar lows





# Ice-status and warnings





# Where to fish – and when?



# A collaboration system for efficient operational efforts



Photo: 330 Skvadronen





# A common platform - an holistic Calls regime

FFI-rapport 2013/01692

Unntatt offentlighet  
Et offentliggave § 21

## Overordnet behovsanalyse BarentsWatch Lukkede Tjenester – et helhetlig anløpsregime

Operativ Ekspertgruppe Barents Watch (i alfabetisk rekkefølge):

Bakkehaug, Tommy (Forsvaret), Bergstrøm, Rune (Kystverket), Ervik, Jon Leon (Kystverket), Glistrup, Tor (Fiskeridirektoratet), Prestøy, Raymond (Hovedredningsentralene), Sandsund, Frank A (Kripos), Sellevoll, Roar (Toll- og avgiftsdirektoratet), Tautra, Ove (Sjøfartsdirektoratet), Verdeti, Leonard (Kripos)

Fra Forsvarets forskningsinstitutt:  
Skogstad, Arne K., Blix, Tom Arild, og Ommundsen, Able

FFI Forsvarets forskningsinstitutt





# Increase the maritime situational awareness

- Security
- Safety
- Economy
- Environment



Photo: Finnmark Dagblad

# Increased knowledge and interagency cooperation

**FORSVARET**

**POLITIET**  
POLITIDIREKTORATET

**TOLL**  
CUSTOMS

**FISKERIDIREKTORATET**

**Sjøfartsdirektoratet**  
Norwegian Maritime Authority

**KYSTVERKET**

The central map features icons for a ship, a dollar sign (§), a crane, a fish, scales of justice, and a leaf. The collage on the right includes: a person working at a computer workstation with multiple monitors; a skydiver in a black suit; a control room with several operators; a person in a red survival suit on a boat; and a red offshore supply vessel named 'ESVAGI'.

# CISE High Level Use Cases

Baseline Operations  
Targeted Operations  
Response Operations

# Baseline Operations

BWL Sporing
User: Dagfinn Terning

Rapporter

Områder og linjer

Jobber

Skipslister (targeted)

Kjøreplan

Handlinger

Posisjonsdata

Navn	Beskrivelse	Område	Skipsliste	Handling	
ank_arb	Skip som ankommer ARBEIDSOMRÅDET	ARBEIDSOMRÅDET		enter area (last day)	⚙️ 🗎 ✕
Ankomst_Rana	Skip som ankommer Ranafjord	Ranafjorden		enter area (last day)	⚙️ 🗎 ✕
Arrival_Bear_Island	List of ships entering the zone around Bear Island	Bear Island		enter area (last day)	⚙️ 🗎 ✕
kontakt_med_luguber	Detekter skip i kontakt med targeted skip			transshipment (3 days)	⚙️ 🗎 ✕
Omlasting	Detekter omlasting til kjente fartoy overalt		mottaksskip	transshipment (3 days)	⚙️ 🗎 ✕

Lag ny

Last ned som Excel

Skip	Mmsi	Handling	Tidspunkt	Hastighet	Retning
BOOTES	273217010	Ankom Bear Island	2014-03-03 04:06:13+01	0.5 kn	26
BELOMORYE	273148810	Ankom Bear Island	2014-03-03 04:07:22+01	0.2 kn	25
BASCUNCHAKSKIY	273435310	Ankom Bear Island	2014-03-04 08:33:55+01	8.4 kn	326
ODOEVSK	273527500	Ankom Bear Island	2014-03-04 09:30:31+01	9.8 kn	20
SUNNY LISA	341095000	Ankom Bear Island	2014-03-04 11:06:13+01	8.2 kn	127
F/V GRANDE-HERMINE	227895000	Ankom Bear Island	2014-03-05 21:22:27+01	11 kn	88
ATLANTIC PEACE	211272580	Ankom Bear Island	2014-03-05 23:11:52+01	8.4 kn	80
GERDA MARIA	211214200	Ankom Bear Island	2014-03-05 23:56:15+01	12.8 kn	68
SILVER COPENHAGEN	257859000	Ankom Bear Island	2014-03-07 10:02:06+01	11.3 kn	29

BWL Sporing kartvindu - Google Chrome
Tue, 04 Mar 2014 08:30:31 GMT

ODOEVSK  
20.4/8.8

50 km  
20 mi

Data CC-BY-SA by [OpenStreetMap](#)

18.45419, 72.64463

<<<1h <<15m 15m>> 1h>>>

(c) [BarentsWatch](#) 2013



# Targeted Operations

BWL Sporing User: Dagfinn Terning [Logg ut](#)

Rapporter Jobber Kjøreplan  
Områder og linjer Skipsliste (targeted) Handlinger Posisjonsdata

Navn	Beskrivelse	Område	Skipsliste	Handling	
ank_arb	Skip som ankommer ARBEIDSMRÅDET	ARBEIDSMRÅDET		enter area (last day)	⚙️ 🗑️ ✖️
Ankomst_Rana	Skip som ankommer Ranafjord	Ranafjorden		enter area (last day)	⚙️ 🗑️ ✖️
Arrival_Bear_Island	List of ships entering the zone around Bear Island	Bear Island		enter area (last day)	⚙️ 🗑️ ✖️
kontakt_med_luguber	Detekter skip i kontakt med targeted skip			transshipment (3 days)	⚙️ 🗑️ ✖️
Omlasting	Detekter omlasting til kjente fartøy overalt		mottaksskip	transshipment (3 days)	⚙️ 🗑️ ✖️

Lag ny

Last ned som Excel

Skip 1	mmsi 1	Skip 2	mmsi 2	Starttid	Sluttid	Varighet	Avstand
<a href="#">SUNNY LISA</a>	341095000	<a href="#">FRIO PETROPAVLOVSK</a>	341759000	2014-03-03 05:45:46+01	2014-03-03 05:45:56+01	00:00:10	25 - 25 m
<a href="#">FRIO PETROPAVLOVSK</a>	341759000	<a href="#">RYBAK</a>	273351680	2014-03-03 07:18:53+01	2014-03-04 09:19:34+01	1 day 02:00:41	25 - 128 m
<a href="#">FRIO PETROPAVLOVSK</a>	341759000	<a href="#">KONOTOP</a>	273298800	2014-03-03 07:19:34+01	2014-03-03 07:22:14+01	00:02:40	21 - 113 m
<a href="#">M/V CANOPUS</a>	273317810	<a href="#">MARTHA ARENDSEE</a>	273216200	2014-03-03 14:35:17+01	2014-03-05 09:05:30+01	1 day 18:30:13	9 - 119 m
<a href="#">HARENGUS</a>	341891000	<a href="#">SLEIPNIR</a>	251272110	2014-03-03 17:09:46+01	2014-03-04 01:07:54+01	07:58:08	96 - 172 m
<a href="#">NOR CAPE</a>	341959000	<a href="#">MELBOURNE SPIRIT</a>	477219700	2014-03-03 18:52:11+01	2014-03-03 18:52:22+01	00:00:11	167 - 167 m
<a href="#">HARENGUS</a>	341891000		251223540	2014-03-04 01:07:31+01	2014-03-04 01:07:38+01	00:00:07	181 - 181 m
<a href="#">HARENGUS</a>	341891000		251400110	2014-03-04	2014-03-04	01:30:04	172 - 178 m

Kartvindu  
Wed, 05 Mar 2014 03:20:30 GMT  
Bolta

Data CC-BY-SA by [OpenStreetMap](#)

8 62350, 67 32096

Jobbko

(c) [BarentsWatch 2013](#)

# Targeted Operations

BWL Sporing

**BarentsWatch** **BWL Sporing** User: Dagfinn Terning

Rapporter    Jobber    Kjøreplan

Områder og linjer    Skipslister (targeted)    Handlinger    Posisjonsdata

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BWL Sporing kartvindu - Google Chrome

Wed, 05 Mar 2014 03:20:30 GMT

Data CC-BY-SA by [OpenStreetMap](#)

(c) [BarentsWatch 2013](#)

# Response Operations



**The Joint Rescue Coordination Centres  
Southern Norway and Northern Norway**



- Registr**
- Offshore beredskapspl.
  - Maritim beredskapspl.
  - SAFE SEA NET**
  - Farlig gods prog
  - DNL
  - Brønnøysundreg
  - P&T PLB/ELT
  - Småbåtregister
  - NIS/NOR
  - Luftfartstilsynet
  - DSB Farlig gods
  - Fiskdir. register
  - Fiskerimerkeregister
  - SRAD
  - Illustrert skipsliste
  - SAR co-op plans
  - ITU
  - Lloyds
  - IBRD (Cospas/Sarsat)
  - ISMERLOG
  - AMVER Surpics
  - SAR contacts

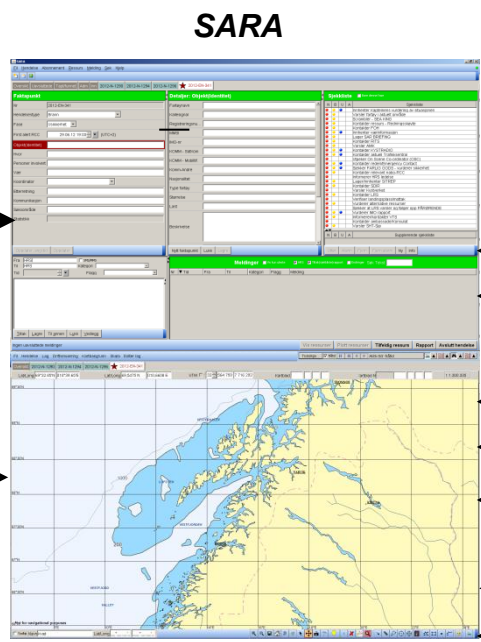
Direkte

Manuell

Offentlig

Privat

Intern

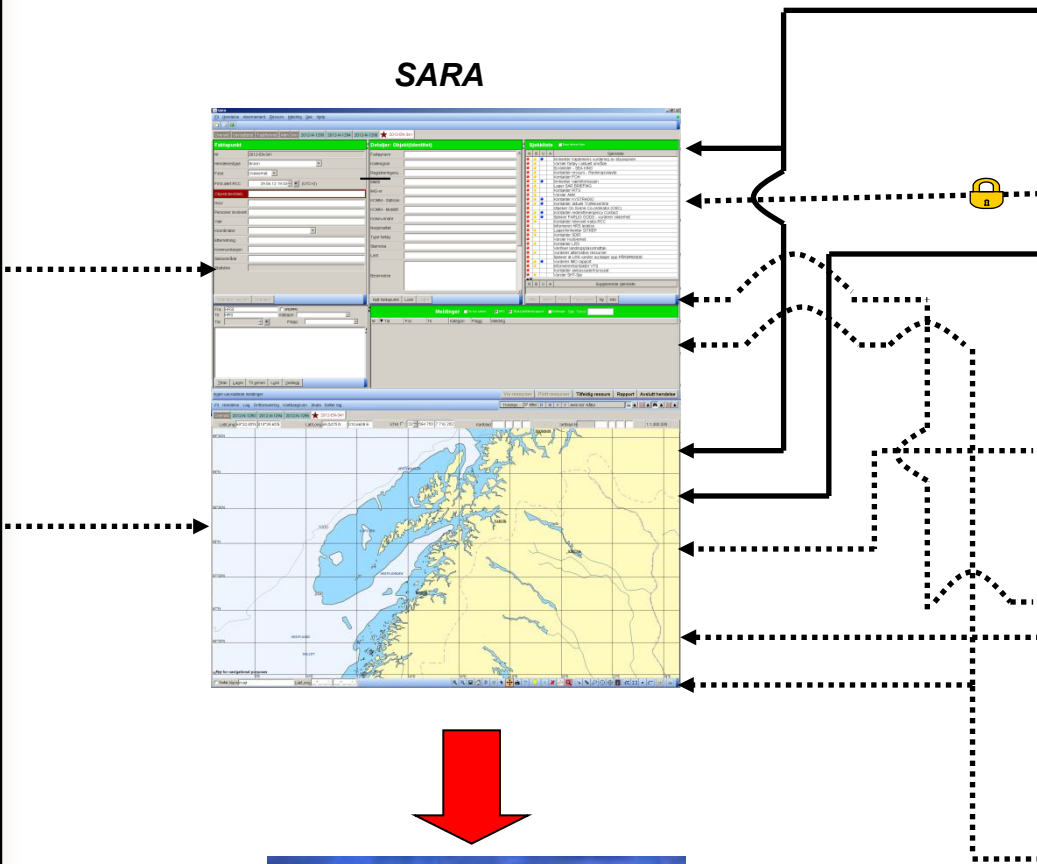


- Integrert**
- NARRE Ressurser
  - Metoc
  - Maritim Kystradio

- Sporingsystemer**
- AIS
  - AIS m/sat
  - VMS
  - LRIT
  - RaADS
  - Tracking Airlift

- Vær/Miljø**
- Kilden/Halo
  - Met.no værbutikk

- Alarmeringssystem**
- Cospas/Sarsat
  - Inmarsat
  - ARG UMS



**Registr**

- Offshore beredskapspl.
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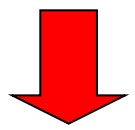
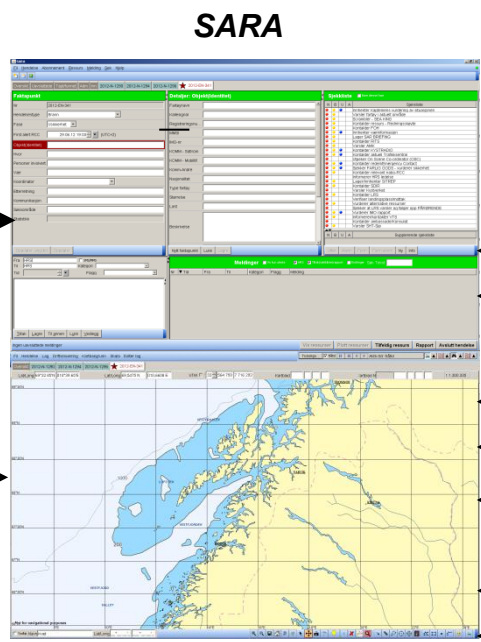
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**Integrert**

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- SAFE SEA NET**
- Maritim Kystradio

**Sporingsystemer**

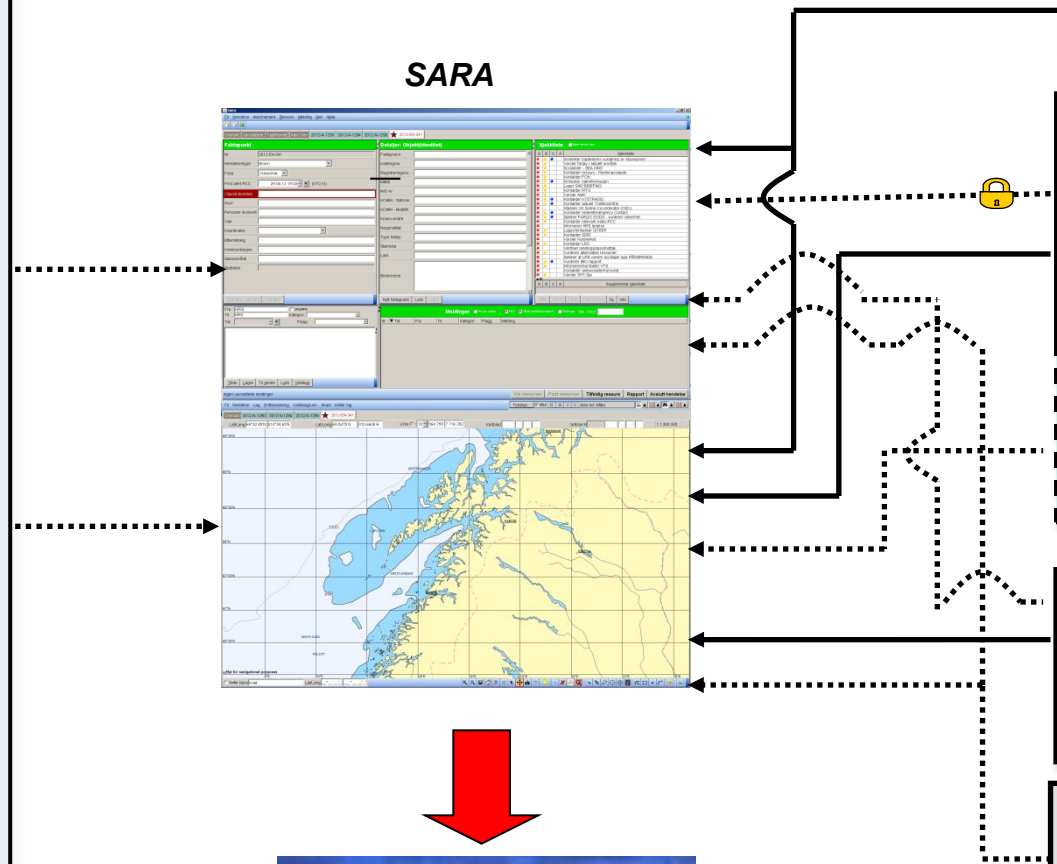
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**Vær/Miljø**

- Kilden/Halo
- Met.no værbutikk

**Alarmeringssystem**

- Cospas/Sarsat
- Inmarsat
- ARG UMS



# Exchange of information

- Joint Rescue Coordination Centre
- The Norwegian Coastal Administration

**SARA**  
(Search And Rescue Application)

First Name	Last Name	Rank	Date of Birth	Home Country
Willyang	Mason	Captain / Master	24.09.1949	GERMANY
Demis	Stensale	Chief Mate / Officer	21.08.1968	POLYPOSE
Cruz	Isencroze	2 Mate / 2 Officer	20.11.1980	POLYPOSE
Chaf	Norme-Rastner	Chief Engineer	10.01.1960	GERMANY
Albin	Albin	Albin Seaman	11.02.1974	POLYPOSE
Albin	Albin	Albin Seaman	20.04.1969	POLYPOSE
Albin	Albin	Albin Seaman	18.04.1981	POLYPOSE
Albin	Albin	Ordinary Seaman	24.12.1977	POLYPOSE
Ludovic	Thorsdottir	Chief Mate / Officer	24.09.1949	POLYPOSE
Demis	Demis	2 Mate / 2 Officer	12.08.1968	POLYPOSE
Demis	Demis	Chief Engineer	20.11.1960	GERMANY
Albin	Albin	Albin Seaman	10.01.1960	POLYPOSE
Albin	Albin	Albin Seaman	11.02.1974	POLYPOSE

**SafeSeaNet Norway**

Username:

Password:

Remember Me

**SYSTEM SERVICE MESSAGES**  
Annual fees for 2012 can now be ordered. If you have questions about annual fees, please contact Nordland Spisefiskeveiting, Tel. +47 76 98 68 00, E-mail: loskontor.nordland@kystverket.no

**Military reporting for foreign vessels in SafeSeaNet Norway**  
Safe Sea Net Norway will now release the military module in SNN containing functions for reporting position and DTG for entering and leaving Norwegian baseline. This information is mandatory for all foreign non-military vessels entering Norwegian waters as stated in Royal Decree laid down on December 23rd 1994 "Regulations governing the entry into and passage through Norwegian territorial waters in peacetime of foreign, non-military vessels".  
Vessels using SNN can as of the release day, **19th January 2012**, deliver complete Arrival notification through the portal, and do not have to report data as mentioned directly to the Coastal Surveillance Centre.

More information in **English** or **Norwegian**.  
The **help document** has been updated.

**PARTNERS**  
 Norwegian Coastal Administration  
 Norwegian Armed Forces  
 Norwegian Maritime Directorate  
 Directorate of Fisheries  
 Norwegian Customs and Excise  
 Norwegian Police/Schengen Seaborne Control

SafeSeaNet Norway is Norway's Single Window portal for ship reporting.  
Norwegian Coastal Surveillance Centre - The first service of marine safety and the marine environment

**Single Window Services**



# Exchange of information

## A common platform

- Joint Rescue Coordination Centre
- The Norwegian Coastal Administration
- BarentsWatch Information Portal and Access Solution

**SARA**  
(Search And Rescue Application)

First Name	Last Name	Rank	Date of Birth	Home Country
Wolfgang	Mason	Captain / Master	24.09.1949	GERMANY
Demis	Samuel	Chief Mate / Officer	21.08.1966	POLYPOSS
Cecil	Isachsen	2 Mate / 2 Officer	20.11.1960	POLYPOSS
Olaf	Thomas Rasmussen	Chief Engineer	10.01.1960	GERMANY
Olav	Alvin	Alvin Seaman	11.02.1974	POLYPOSS
Arvid	Talvig	Alvin Seaman	20.04.1969	POLYPOSS
Geir	Tommy	Alvin Seaman	18.04.1981	POLYPOSS
Leif	Arvid	Ordinary Seaman	24.12.1977	POLYPOSS
Samuel	Thoralf	Chief Mate / Officer	24.09.1968	POLYPOSS
Demis	Demis	2 Mate / 2 Officer	21.08.1966	POLYPOSS
Demis	Demis	Chief Engineer	20.11.1960	GERMANY
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Arvid	Arvid	Alvin Seaman	11.02.1974	POLYPOSS



# The hub for knowledge of the coastal and oceanic areas



**BarentsWatch**

**More than the sum of its parts**

Name, Position, Organisation