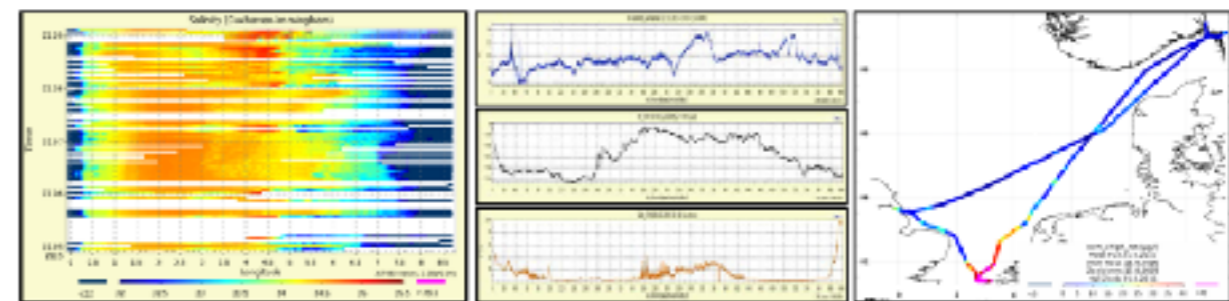# Common European FerryBox Database

Current status and next steps

Gisbert Breitbach (HZG), Pierre Francois Jaccard (NIVA), Simon Jirka (52N), Seppo Kaitala (SYKE), Wilhelm Petersen (HZG), Susanne Reinke (HZG), Lid Sjur Ringheim (IMR), Henrike Thomas (HZG)
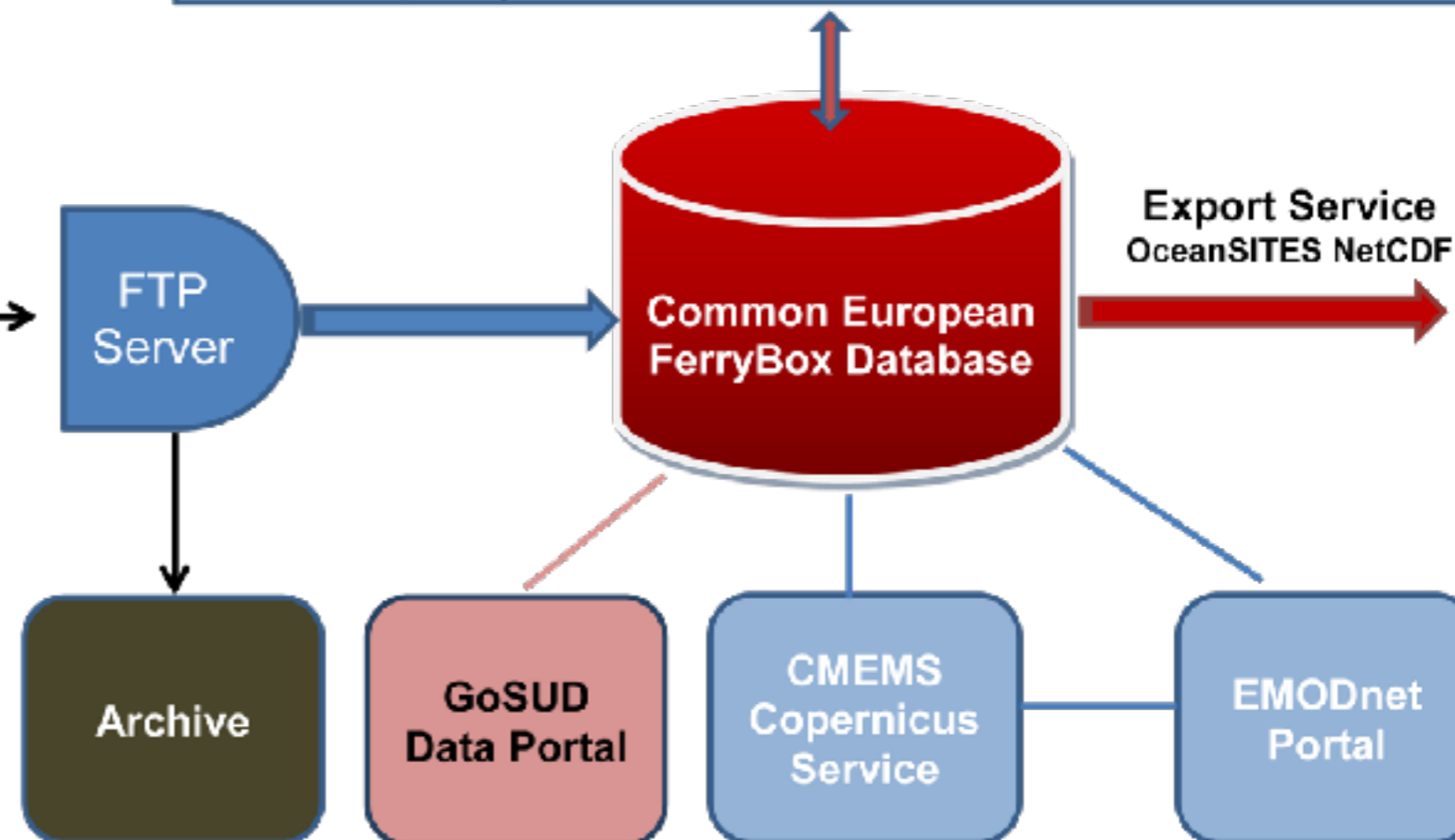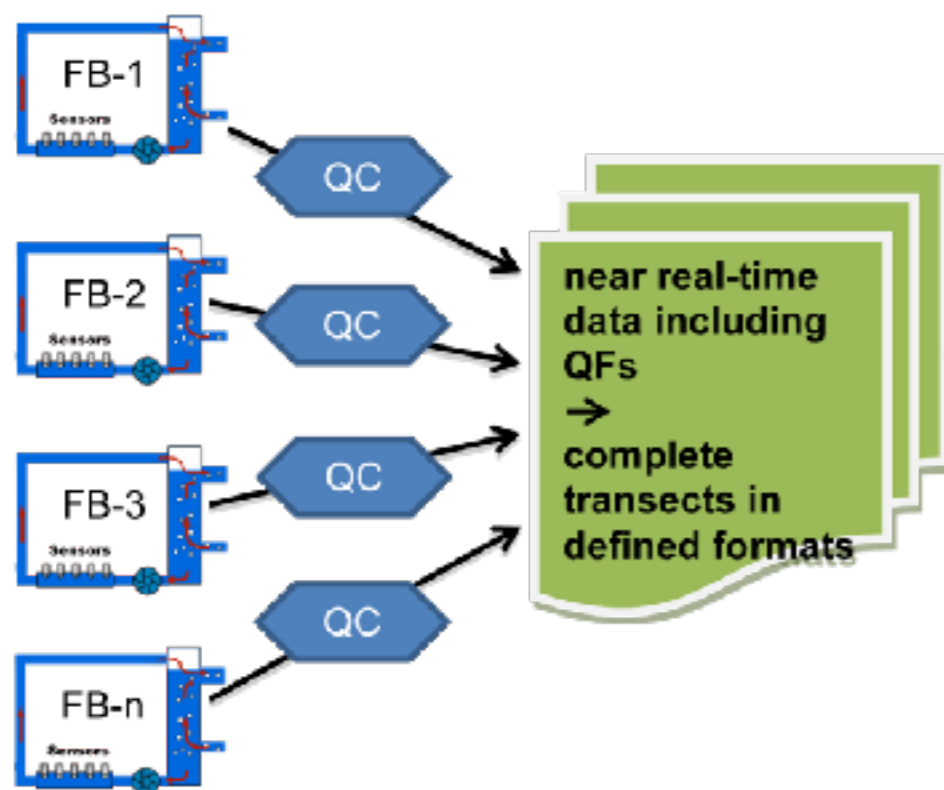
Common European FerryBox Database and Data Portal

European FerryBox Data Portal

- DB is transect orientated
- web based tools for:
  - different kind of plots
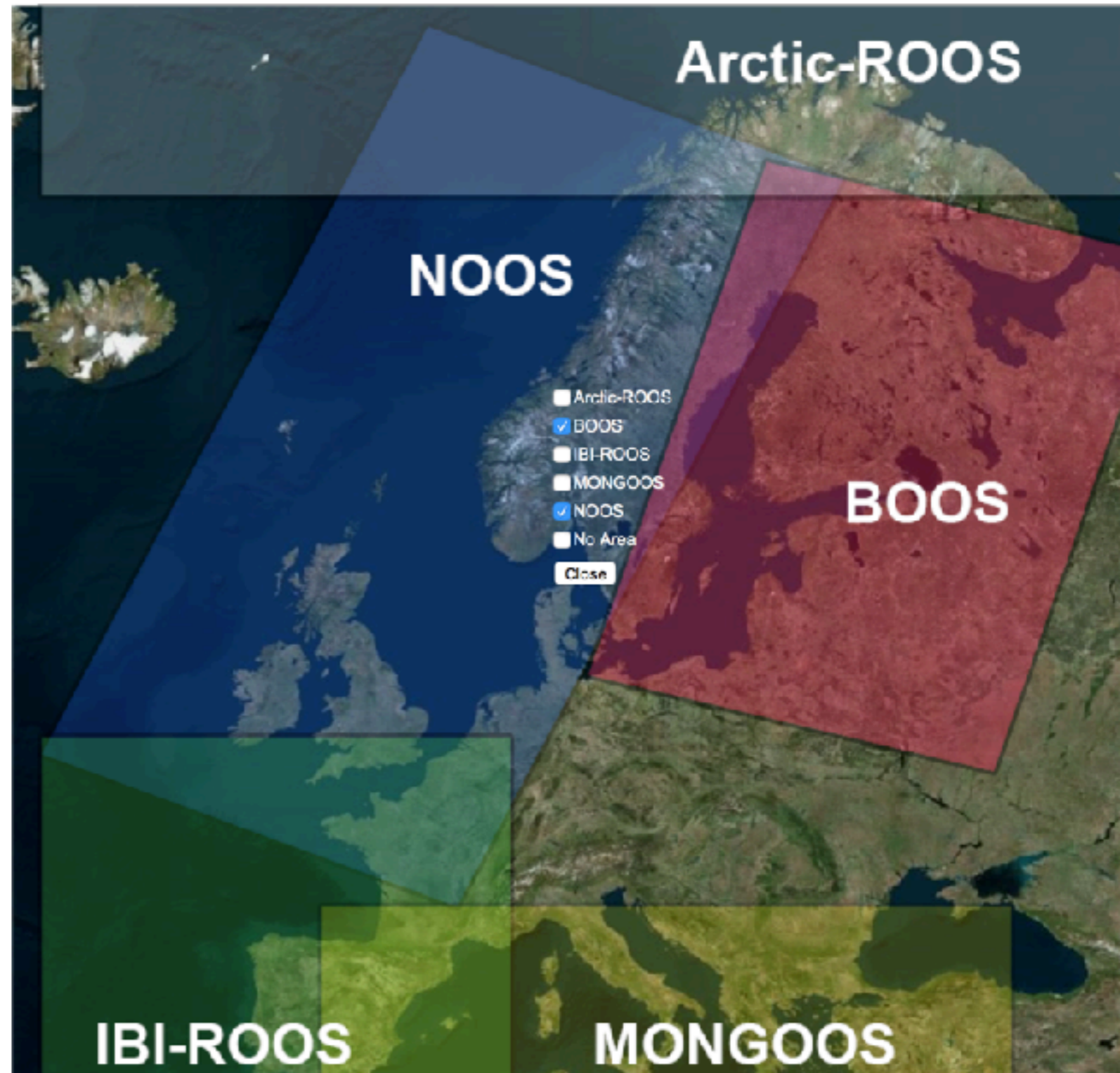 - export of selected transects and parameters
  - quality assurance

From Operator/Institute or via ROOSs

FB-1
Sensors

FB-2
Sensors

FB-3
Sensors

FB-n
Sensors

QC

QC

QC

QC

near real-time data including QFs
→
complete transects in defined formats

FTP Server

Common European FerryBox Database

Export Service
OceanSITES NetCDF

Archive

GoSUD Data Portal

CMEMS Copernicus Service

EMODnet Portal

Changes so far

- Modifications of the user interface for the database.

    ▶ Areas

    ▶ Data assessment

    ▶ Changelog

- Import of new routes on a regular base. (Hurtigruten IMR, Helsinki-Travemünde SYKE, Oslo-Kiel and Tromsö-Skalvard NIVA)

- Establishment of a 52N SOS V2 service at HZG and integration of it into FerryBox dataportal

- Next steps

    ▶ Other new routes (Tunis, HCMR, AWI Helgoland, Talinn-Helsinki, Talinn-Mariehamm-Stockholm)

Areas defined in database

- Only routes intersecting the selected areas are shown.

Plot

Data Assessment

Helmholtz-Zentrum Geesthacht
Zentrum für Material- und Küstenforschung

[*Data Assessment* | Polynomial Data Correction | Home]

Areas:
☐ Arctic-ROOS ☐ BOOS ☐ IBI-ROOS
☐ MONGOOS ☑ NOOS ☐ No Area   [Area Map]

• Route: Buesum-Helgoland

• Parameter: Salinity

• Section: Helgo-Bues

• Transects:
```
10.10.2017 14:08 Helgo-Bues
09.10.2017 14:06 Helgo-Bues
08.10.2017 14:05 Helgo-Bues
30.09.2017 14:03 Helgo-Bues
29.09.2017 14:07 Helgo-Bues
28.09.2017 14:05 Helgo-Bues
27.09.2017 14:07 Helgo-Bues
25.09.2017 14:06 Helgo-Bues
22.09.2017 14:05 Helgo-Bues
21.09.2017 14:04 Helgo-Bues
19.09.2017 14:07 Helgo-Bues
```

• Action: Set Quality

• Quality: 6: probably good data, QC data (reference samples or calibration data) not available

Overwrite higher values: ☑

• Method: Control Parameters

• Missing Control Value: ⦿ ignore action ◯ apply action ◯ interpolate control value

• First Criterion: FlowRate_Inlet

• Type: ◯ Value ⦿ Minimum ◯ Maximum ◯ Stddev_pct ◯ Quality

Min. Value: 1000

Max. Value:

Negate: ☐

And/Or: -

[Preview] [Cancel]

Changelog

List of changes   [Home]   [Help | Forward

- Max. Entries: all
- Route: Cuxhaven-Immingham
- Operation: -- keine Angabe --
- Username: petersen

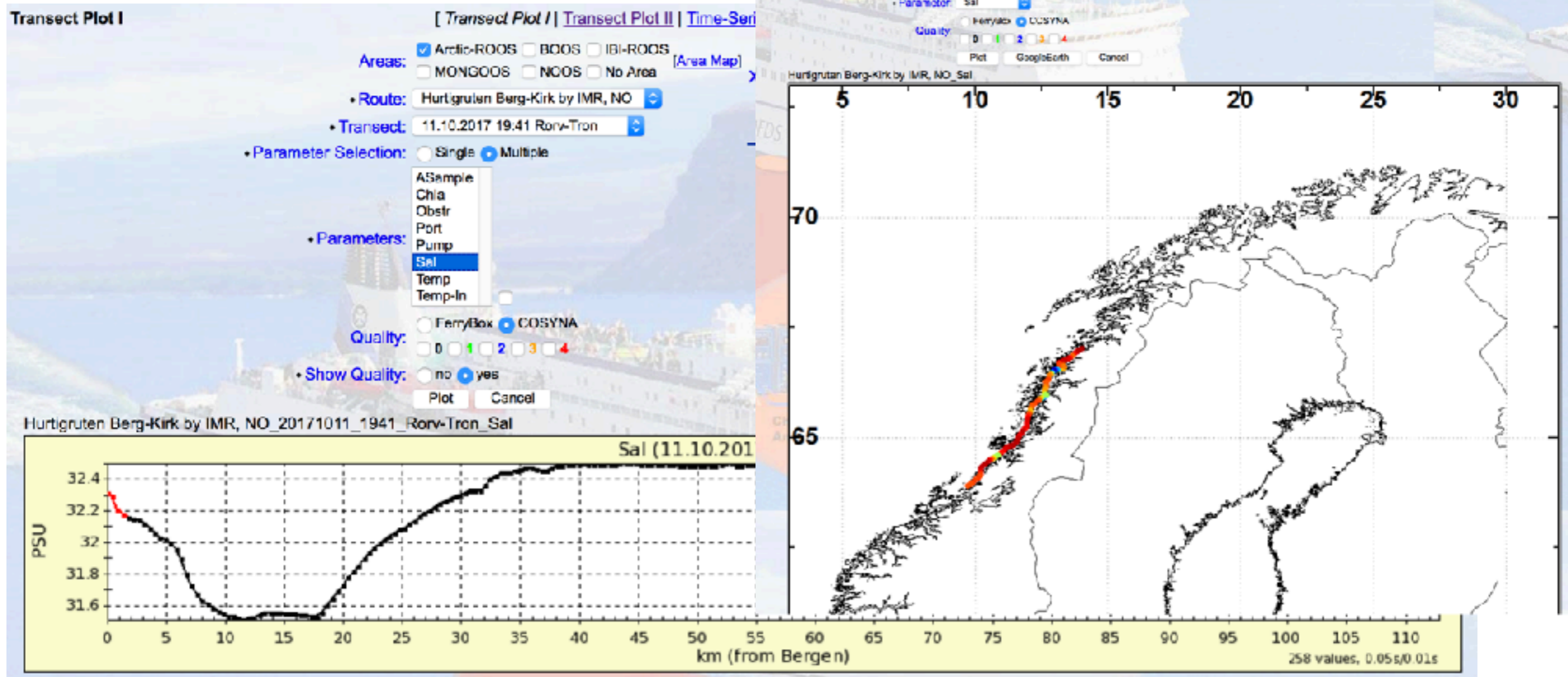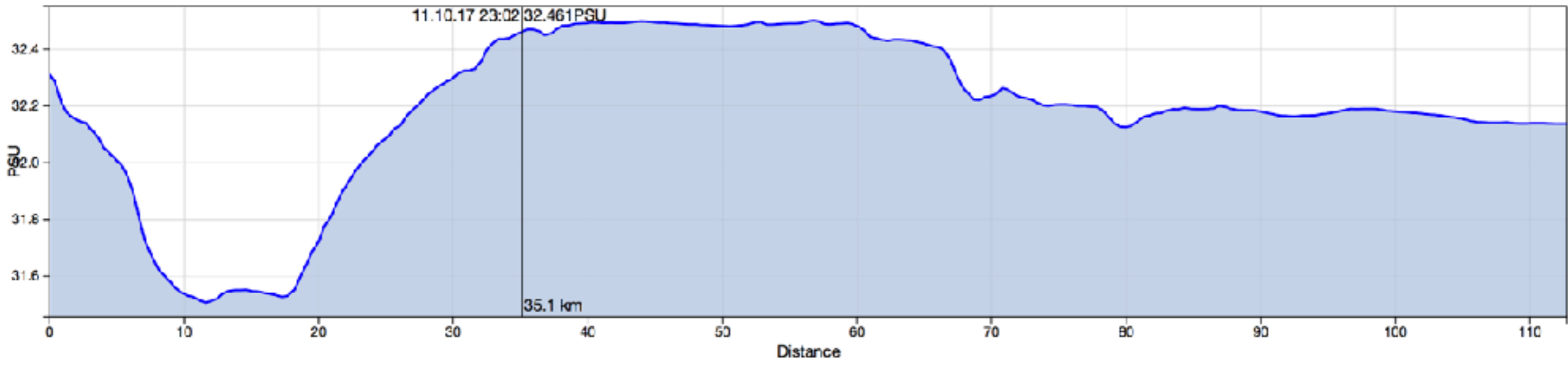| Date / Operation |
|---|
| **18.04.2017 13:50:57 DELETE TRANSECT** (petersen) |
| Cuxhaven-Immingham/Imm-Cux - 13.04.2017 19:49 Imm-Cux (rou=2,sec=3,tra=63665) |
| **13.04.2017 11:56:31 CONTROL PARAMETERS SET QUALITY 1 missing-control=ignore control1=TA_Contros_FIA-TA type1=quality min1=2 max1=2** (petersen) |
| Cuxhaven-Immingham/Cux-Imm - 11.04.2017 19:46 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=63644,par=20716) |
| **11.04.2017 16:09:28 CONTROL PARAMETERS SET QUALITY 1 missing-control=ignore control1=TA_Contros_FIA-TA type1=quality min1=2 max1=2** (petersen) |
| Cuxhaven-Immingham/Imm-Cux - 30.03.2017 04:11 Imm-Cux - TA_Contros_FIA-TA (rou=2,sec=3,tra=63556,par=20716) |
| Cuxhaven-Immingham/Imm-Cux - 27.03.2017 17:05 Imm-Cux - TA_Contros_FIA-TA (rou=2,sec=3,tra=63028,par=20716) |
| Cuxhaven-Immingham/Cux-Imm - 20.03.2017 19:47 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=62978,par=20716) |
| Cuxhaven-Immingham/Imm-Cux - 19.03.2017 05:27 Imm-Cux - TA_Contros_FIA-TA (rou=2,sec=3,tra=62934,par=20716) |
| Cuxhaven-Immingham/Imm-Cux - 16.03.2017 05:08 Imm-Cux - TA_Contros_FIA-TA (rou=2,sec=3,tra=62917,par=20716) |
| Cuxhaven-Immingham/Cux-Imm - 08.04.2017 18:05 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=63636,par=20716) |
| Cuxhaven-Immingham/Imm-Cux - 07.04.2017 12:32 Imm-Cux - TA_Contros_FIA-TA (rou=2,sec=3,tra=63621,par=20716) |
| Cuxhaven-Immingham/Cux-Imm - 04.04.2017 07:15 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=63582,par=20716) |
| **11.04.2017 15:55:55 CONTROL PARAMETERS SET QUALITY -1 missing-control=ignore control1=TA_Contros_FIA-TA type1=physval min1=0 max1=2140** (petersen) |
| Cuxhaven-Immingham/Cux-Imm - 11.03.2017 19:15 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=62883,par=20716) |
| **11.04.2017 15:54:16 CONTROL PARAMETERS SET QUALITY -1 missing-control=ignore control1=TA_Contros_FIA-TA type1=physval min1=0 max1=2000** (petersen) |
| Cuxhaven-Immingham/Imm-Cux - 30.03.2017 04:11 Imm-Cux - TA_Contros_FIA-TA (rou=2,sec=3,tra=63556,par=20716) |
| Cuxhaven-Immingham/Cux-Imm - 28.03.2017 19:26 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=63521,par=20716) |
| Cuxhaven-Immingham/Cux-Imm - 06.04.2017 04:24 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=63591,par=20716) |
| **11.04.2017 15:51:00 CONTROL PARAMETERS SET QUALITY -1 missing-control=ignore control1=TA_Contros_FIA-TA type1=physval min1=0 max1=2100** (petersen) |
| Cuxhaven-Immingham/Cux-Imm - 28.03.2017 19:26 Cux-Imm - TA_Contros_FIA-TA (rou=2,sec=2,tra=63521,par=20716) |
| **11.04.2017 15:49:55 CONTROL PARAMETERS SET QUALITY 2 missing-control=ignore control1=TA_Contros_FIA-TA type1=physval min1=2100 max1=3000** (petersen) |
| Cuxhaven-Immingham/Imm-Cux - 30.03.2017 04:11 Imm-Cux - TA_Contros_FIA-TA (rou=2,sec=3,tra=63556,par=20716) |

- All data modifications are logged. The log can be viewed filtered by route, operation, or person.

New routes imported on a regular base

1. Hurtigruten by IMR

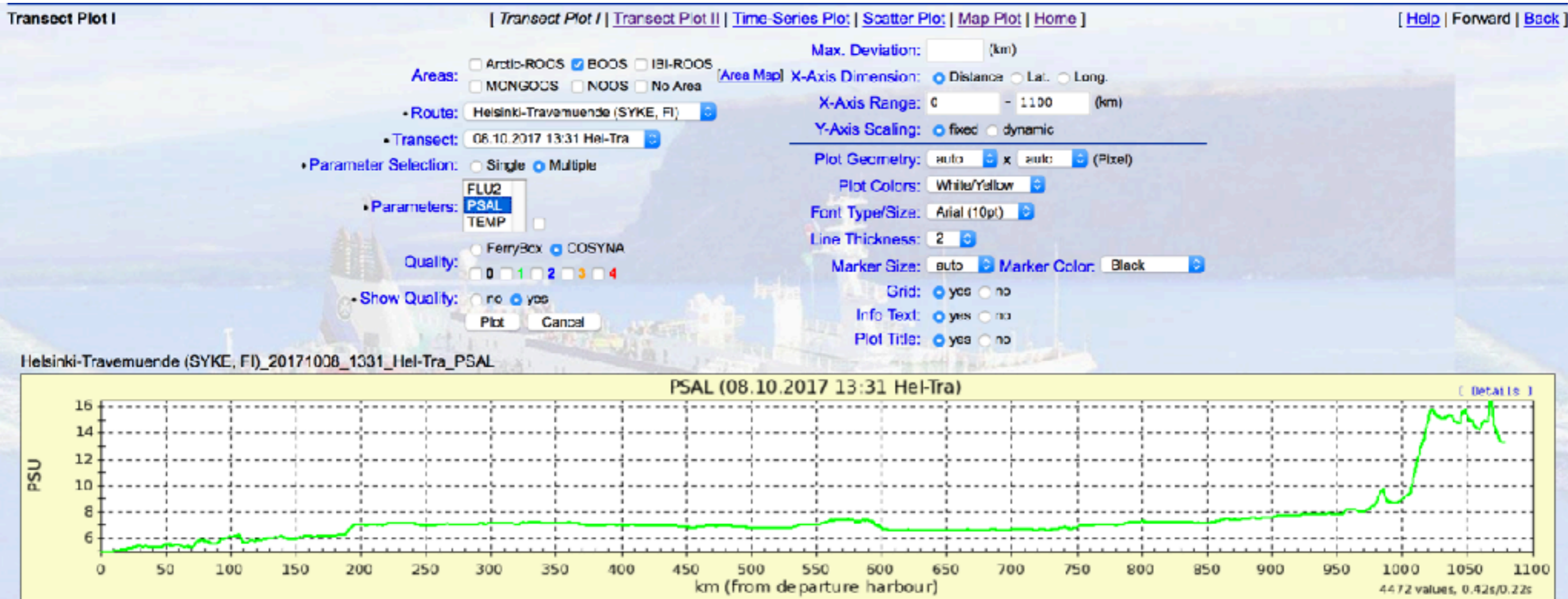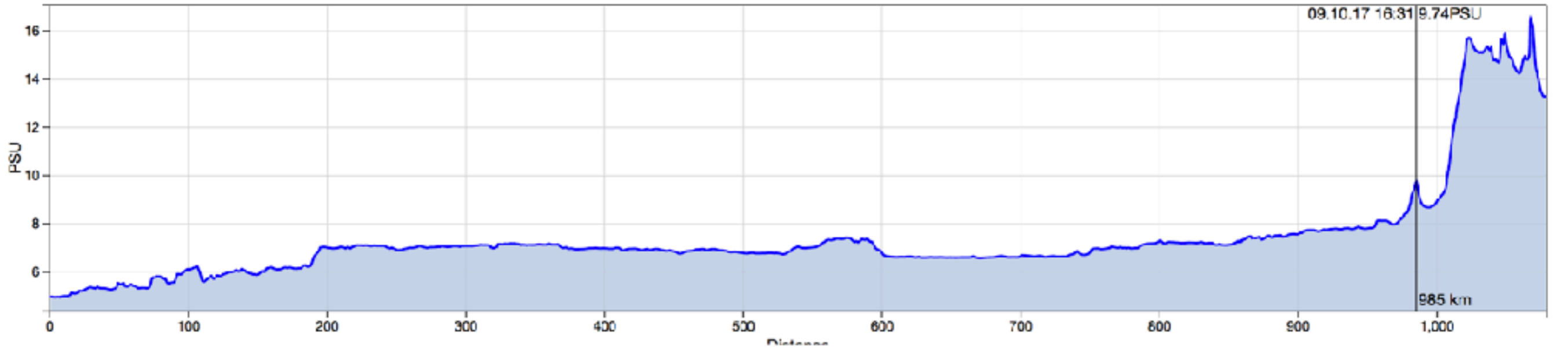Data are exported back to IMR in Oceansites netCDF format for CMEMS.

Sal FerryBox, 2017-10-11T19:41:00Z Rorv-Tron
Sal (PSU)

SOS V2 Link

New routes imported on a regular base

2. Helsinki-Travemuende by SYKE

SOS V2 Link

New routes imported on a regular base

Helmholtz-Zentrum
Geesthacht
Zentrum für Material- und Küstenforschung
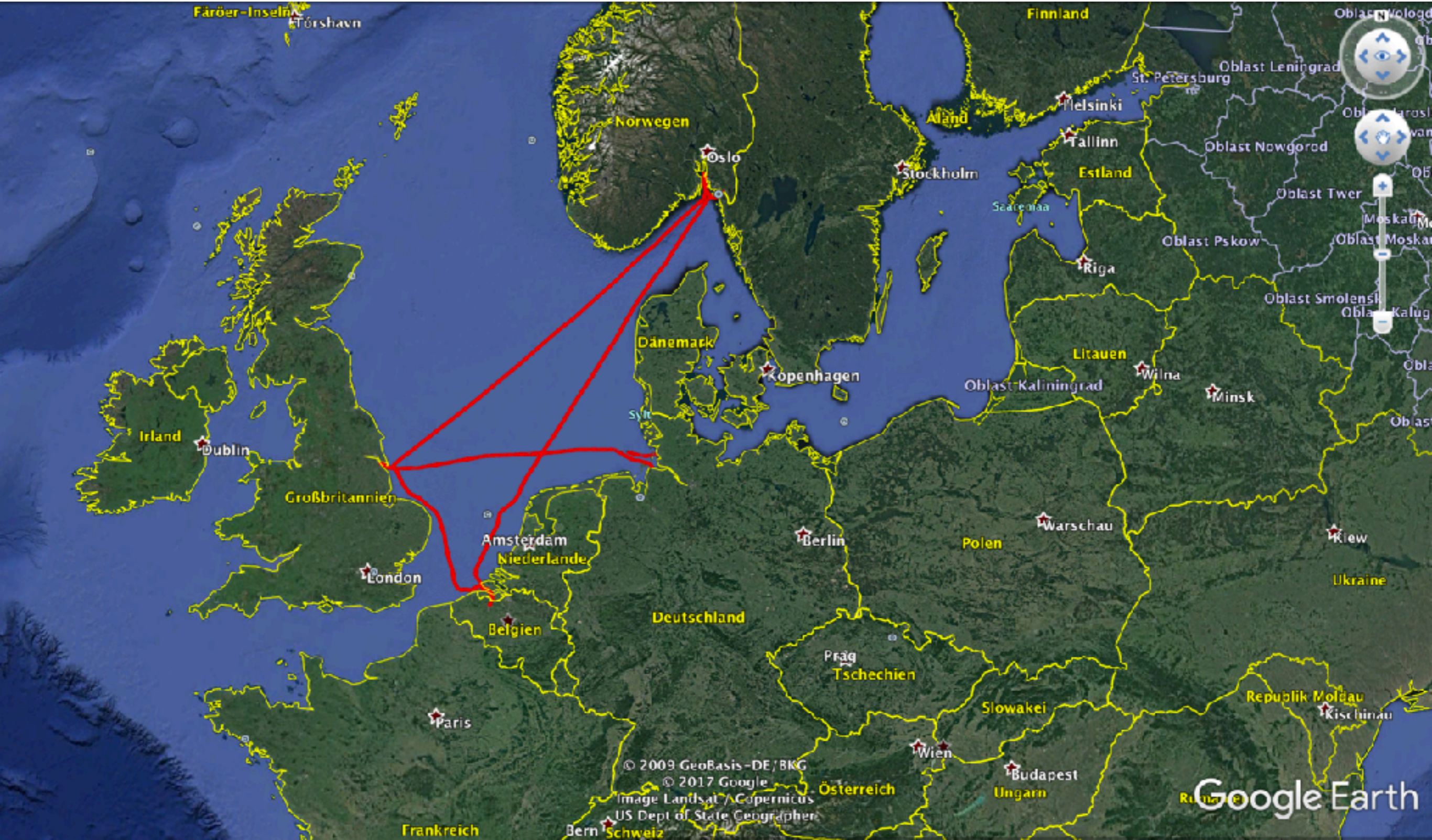
3. Oslo-Kiel and Tromsoe-Longyearb by NIVA

SALINITY FerryBox, 2017-08-19T14:14:00Z LYR-TOS
SALINITY (PSU)

SOS V2 Link Spitsbergen

Oslo-Kiel

HZG routes in FerryBox database

All routes with automatic data ingestion

Will be added in near future

- HCMR: Peraues-Souda should be added this year (2017)

- INSTM: Tunis-Genova and Tunis-Marseille in principle tested

- EMI: Tallinn - Mariehamn - Stockholm

- TUT: Tallinn-Helsinki

- Hopefully later: AWI Cuxhaven-Helgoland and SMHI Helsinki-Stockholm. France - UK and Ireland …

All routes with automatic data import in near future.

Next Steps

- Import additional routes

- If transects should be exported to CMEMS, … additional metadata are needed.

- Currently exports are done soon after the import. If data were modified no automatic reexport will happen. This must be changed.

- Agreement on quality assurance. What should be done by every data provider.

Thank you