**OWD** 

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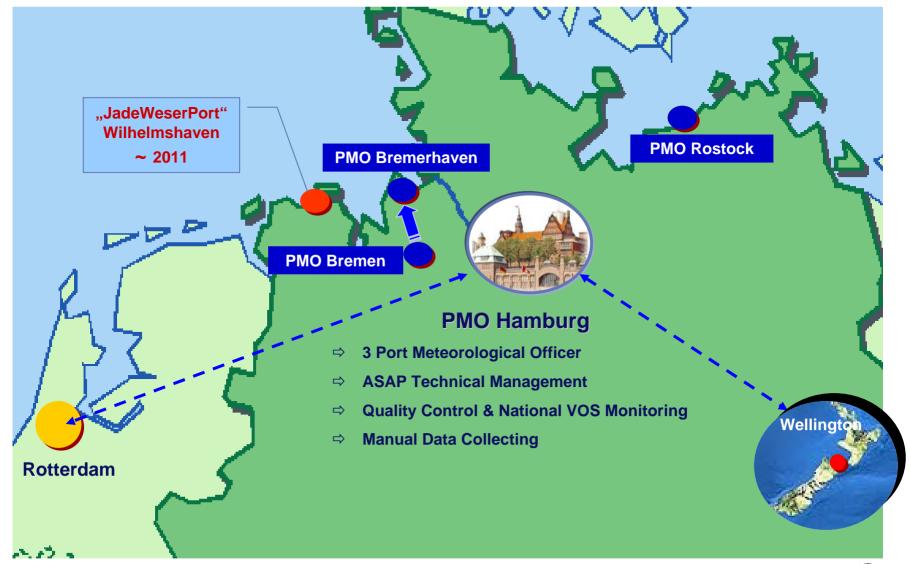
# German VOS National Report 2008

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PMO Advisor



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#### German VOS Fleet 2008\*

Selected 803

Supplementary: 2

Auxiliary: 26

Total 831

(\* effective Dec 08)





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# **Participating to VOSClim:**

VOSClim vessels at 31 December 2008	29
VOSClim vessels recruited in 2008	4
VOSClim de-recruitments in 2008	0
Target number not specified	



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#### PMO / VOS activities 2008

Observations (total): 276.858

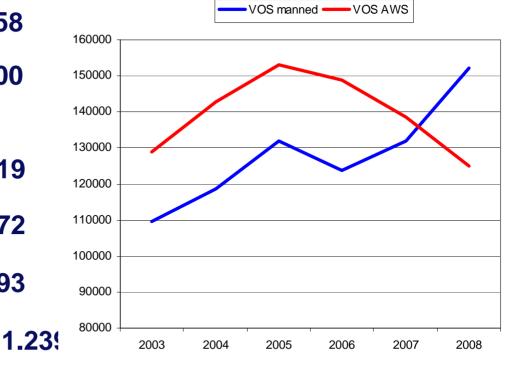
Manual observations: 152.300

AWS (MILOS / other) 19

Recruitments: 72

De-Recruitments: 93

Visits in German Ports:

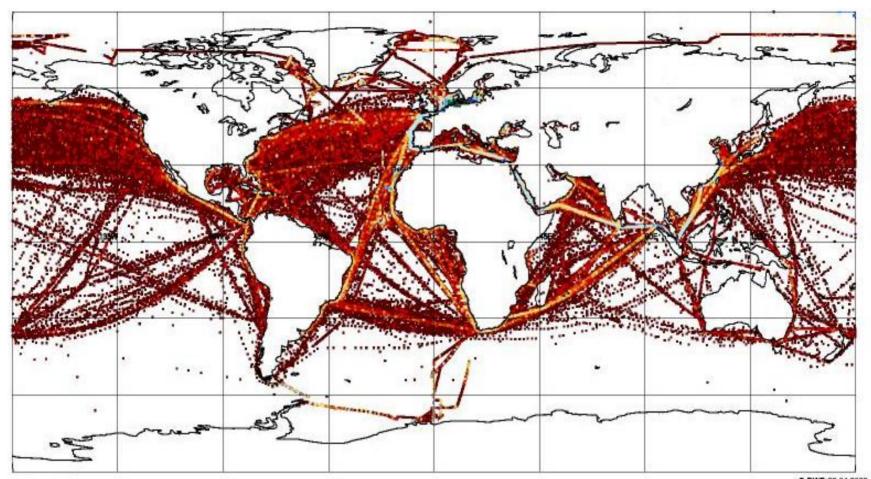




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#### **Distribution of German Observations in 2008**



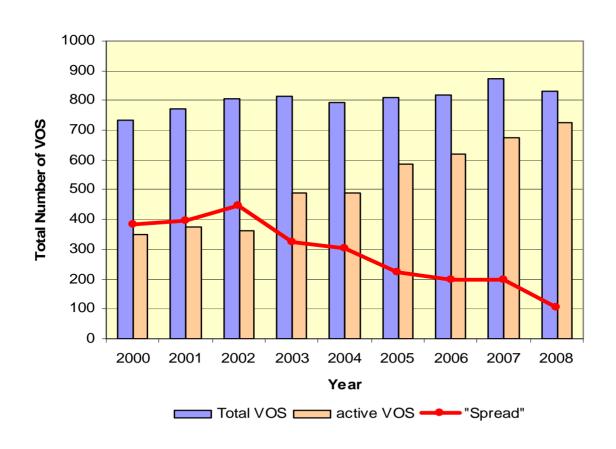
© DWD 22,04,2009



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#### **VOF Observational Performance**





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#### **Data Management**

- Internal monitoring of national VOS efficiency and data arrival
- Internal quality control and feedback to observers via PMO system
- Use of international monitoring products
- Data contribution to Responsible Members in MCSS via GCCs

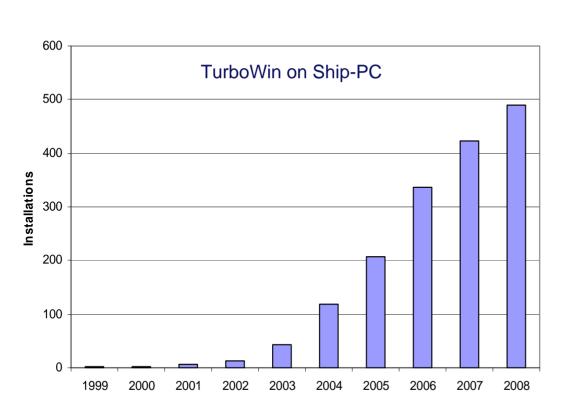


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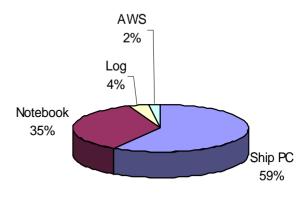


#### **Quality-Management**

#### 1. Electronic Logbook



Notebook on ships 292 TurboWin on Ship-PC 490





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#### **Quality-Management (cont.)**

#### 2. Ongoing tasks

- ▶ Regular use of international monitoring results
- Continuing to improve observing activities and quality
- ▶ Calibration intervalls in conformance with QM-requirements



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#### **Quality-Management (cont.)**

#### 3. Motivation tools

- Personal presents for observers
- Certifications (e.g. SOT) for VOS and shipping companies
- Personal medal awarded by the Secretary of Traffic





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#### Instrumentation:

(VOS-Standard)









#### At the planning stage

- Long-term strategy to replace Hg-thermometer and mechanical barometer/barograph by electronic equipment
  - Starting with new-recruited VOS and existing VOSClim as soon as possible
  - Depending on available budget
- Re-Installation of AWS on merchant ships
  - Problem: Frequent changes of routes and charters



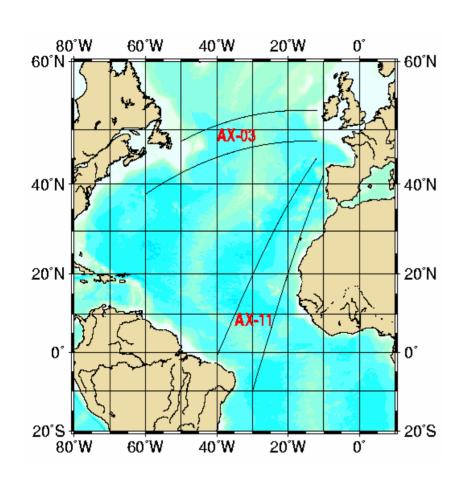


BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

# SOOP Programme German contribution

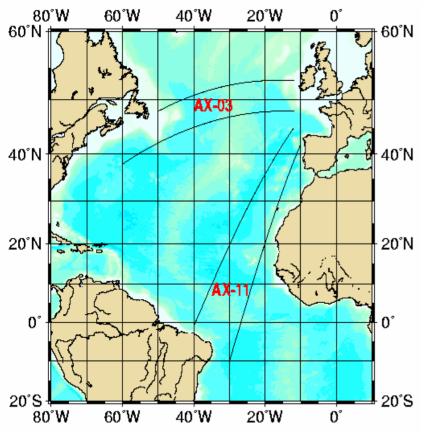
Presented by Birgit Klein (BSH)





Germany operates
XBT lines along AX-03
and AX-11 with
assistance from the
shipping companies
Hamburg Süd and
Rickmers







AX-03: Rickmers Dalian

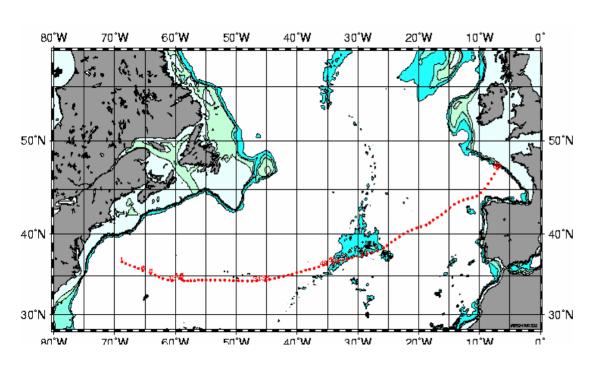


AX-11

Monte Olivia



#### AX3: 2007/2008



#### "Rickmers Dalian"

2007: 3 cruises in January, June and October

2008: 2 cruises in March and July

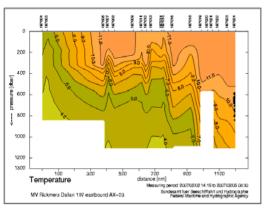
#### **Problem:**

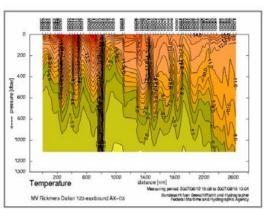
Section is often incomplete, crew changes rapidly, transfer of knowledge is difficult.

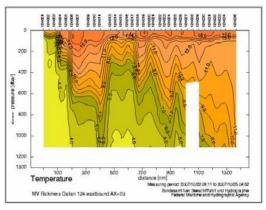
Shipping company is being contacted. It is anticipated to either look for a new ship or try to resolve problems through renewed training.

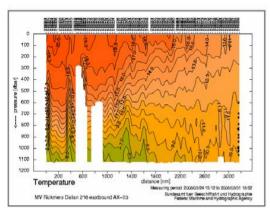
#### AX3: 2007/2008

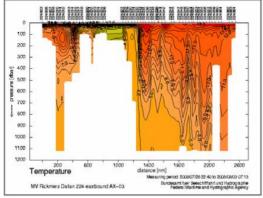






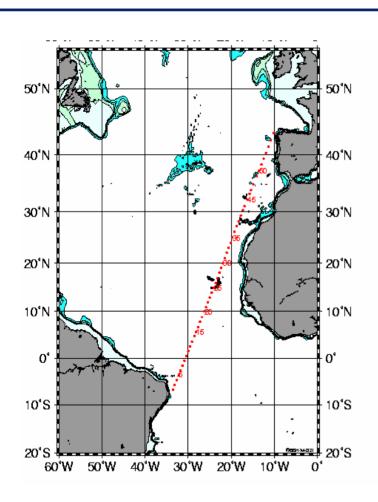








#### AX11: 2007/2008



"Monte Olivia"

2007: 9 cruises

2008: 8 cruises

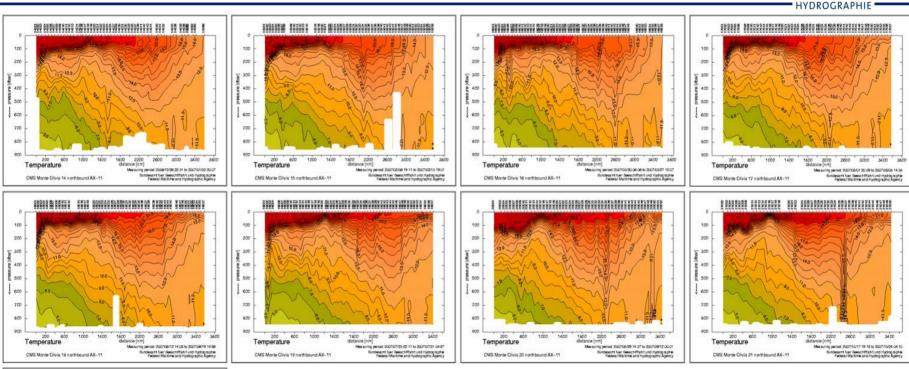
Very reliable ship crew, new Devil XBT device has been installed in 2008

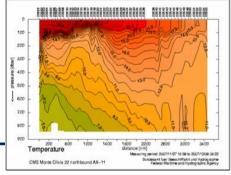
#### **Problem:**

"Monte Olivia" has been moved to another route. But *Hamburg Süd* offers a replacement ship. Will be equipped in August. Consultation with shipping company is scheduled.



#### AX11: 2007/2008

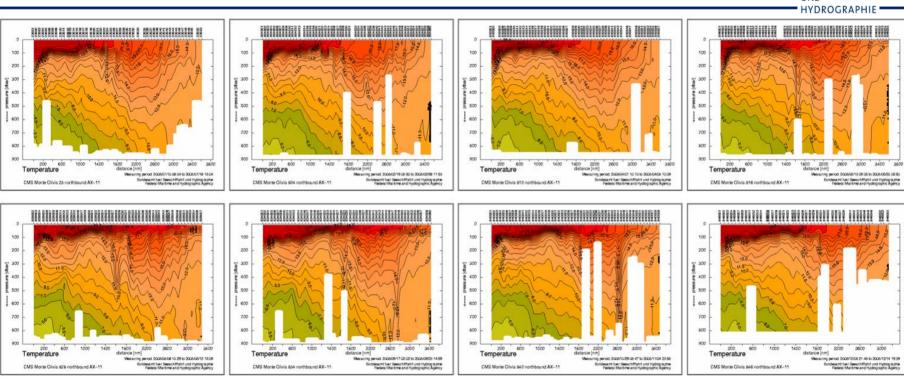




Temperature section for the nine 2007 repeats



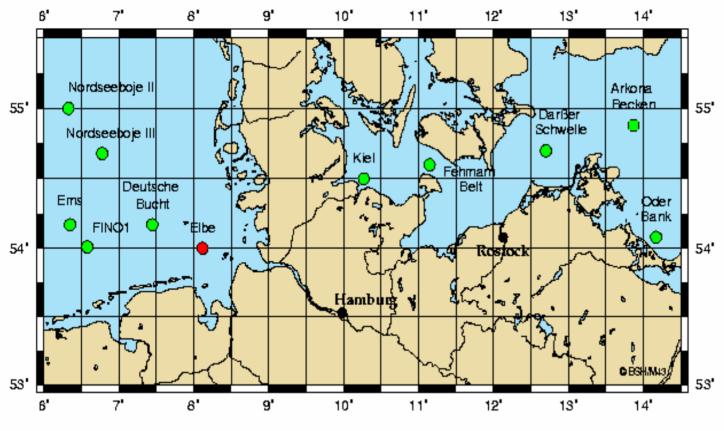
# AX11: 2007/2008



Temperature section for the eight 2008 repeats



# GTS data from monitoring network



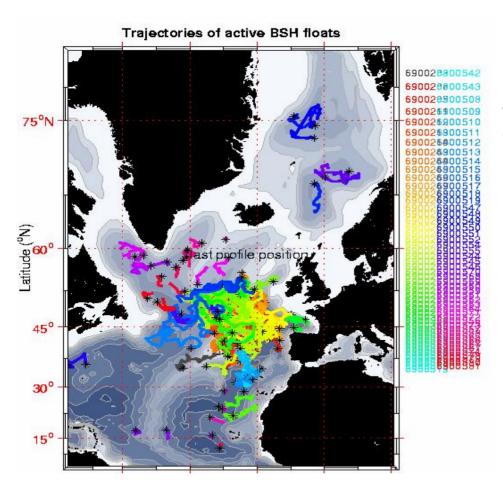
#### **MARNET**

monitoring network transmits ~ 6500 JJVV messages per year

Marine Environmental Monitoring Network in the North Sea and Baltic Sea



# GTS data from argo network



Presently the BSH operates 103 active floats; data are sent into GTS through the DAC Coriolis in Brest

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# Thank you

