



# NACLIM

## North Atlantic CLIMate

Predictability of the climate in the North Atlantic/European sector related to the North Atlantic/Arctic Ocean sea surface temperature and sea ice variability and change.

EU FP7 program with 18 EU partner institutes 2012-2016

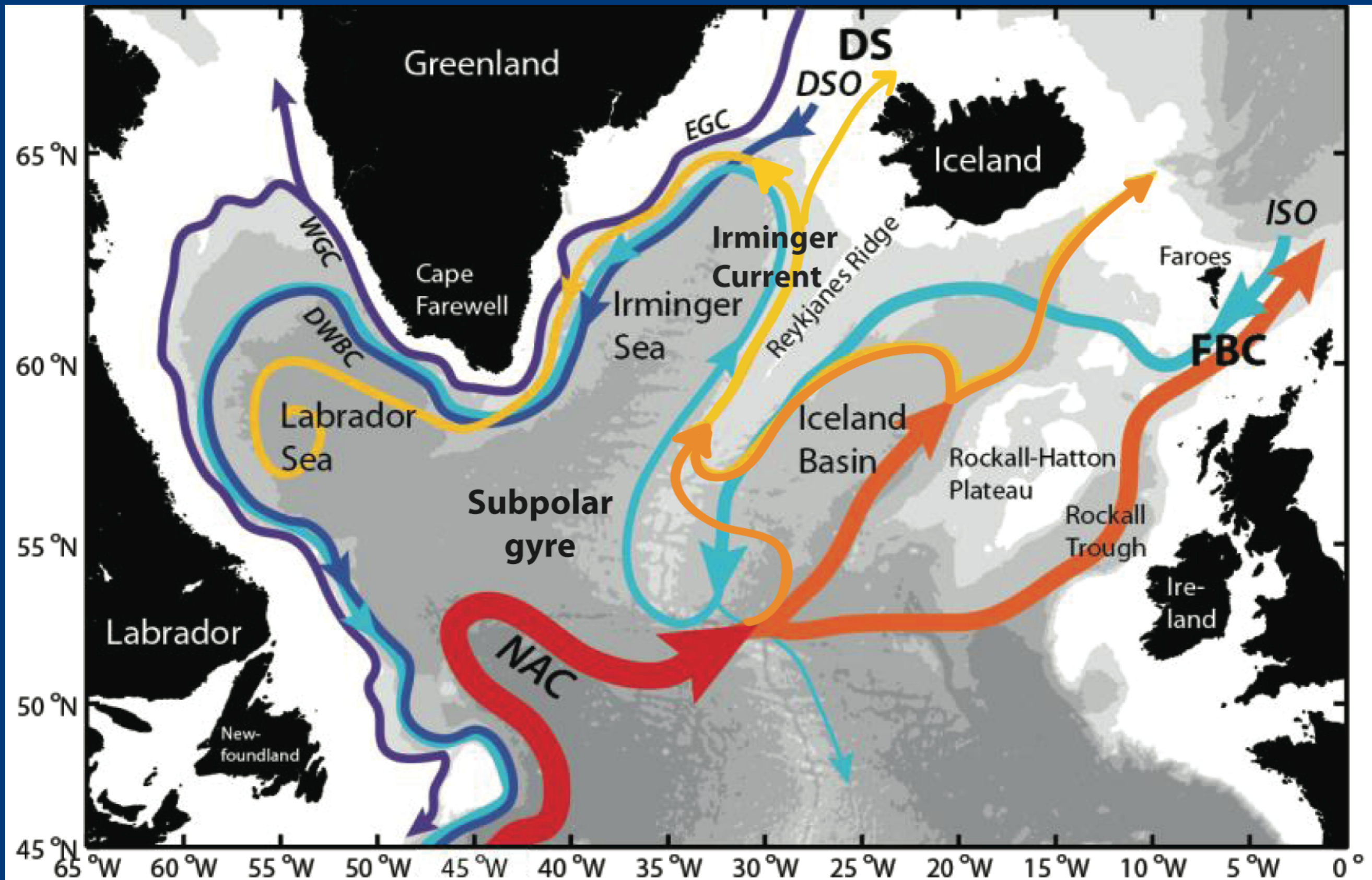
Follow up of THOR ThermoHaline Ocean Circulation at risk? (EU FP7 2008-2012)

# NACLIM Core Themes:

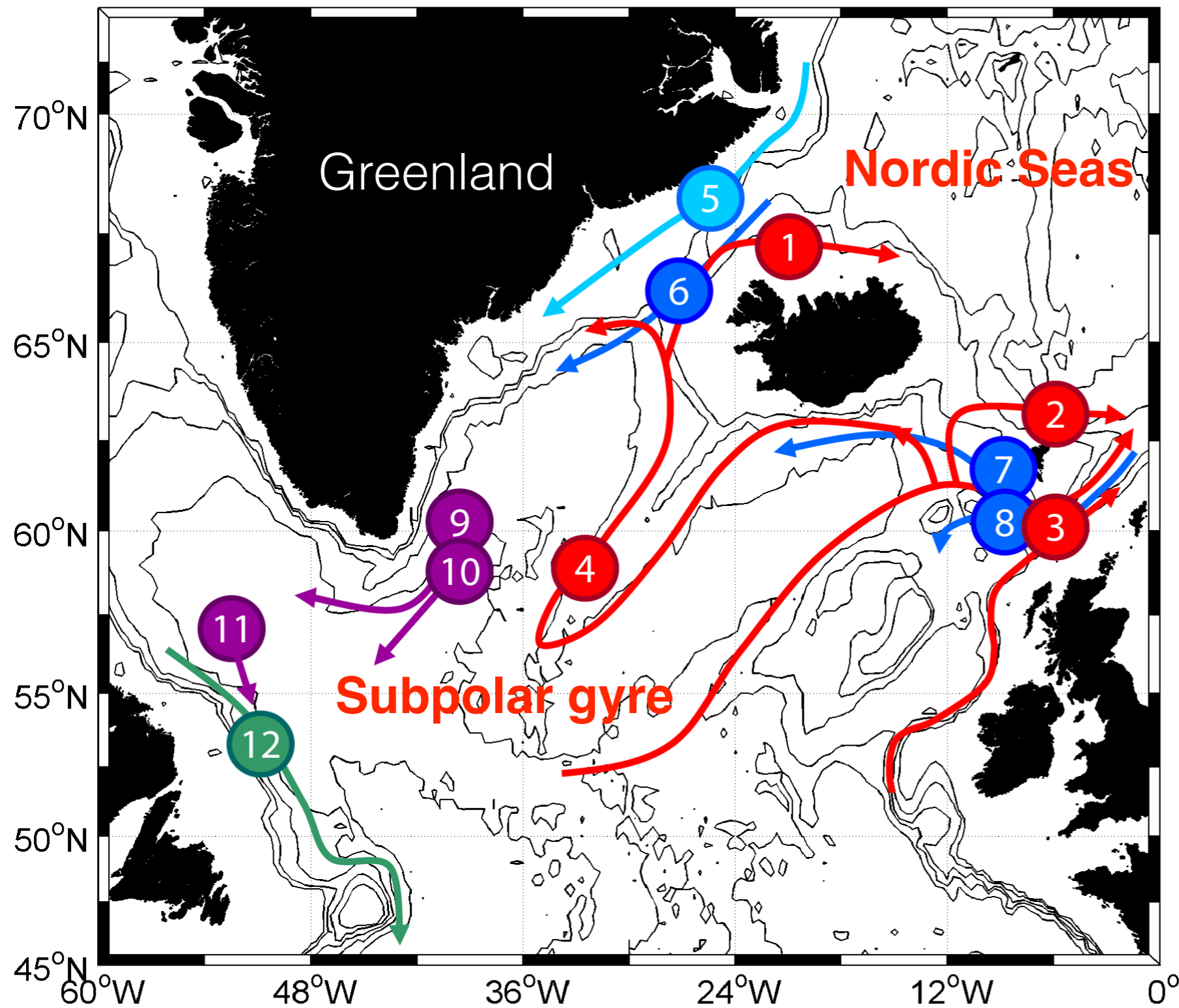
- CT1: Predictability of key oceanic and atmospheric quantities related to the N.Atlantic/Arctic Ocean surface state
- CT2: Monitoring of North Atlantic Parameters
- CT3: Initialization of prediction systems with ocean observations
- CT4: Impact on the oceanic ecosystem and urban societies

**Research Focus:** Assessment of decadal climate forecasts

# NACLIM study region:



# NACLIM moorings in Core Theme 2



**AW transport  
arrays # 1-4**

**EGC shelf array  
# 5**

**Overflow arrays  
#6-8**

**Central gyre  
moorings # 9-11**

**DWBC array  
# 12**

# NACLIM Data Policy

## 1. Moored instrument data

Stored at National / Institutional data bases

(WOD, NODC, BODC, SeaDataNet, MRI, Pangea)

available to the public according to national policies

—> some sites are already OceanSITES: CIS, LOCO2, 53W

## 2. Derived time series, e.g. volume, heat transports

NACLIM data base (including pre-NACLIM time series)

# NACLIM Data Policy

## 1. Moored instrument data

Stored at National / Institutional data bases

(WOD, NODC, BODC, SeaDataNet, MRI, Pangea)

available to the public according to national policies

—> some sites are already OceanSITES: CIS, LOCO2, 53W

## 2. Derived time series, e.g. volume, heat transports

NACLIM data base (including pre-NACLIM time series)

### **Access to data after project closure**

“Before the end of the NACLIM project the project office will decide where the NACLIM (and THOR) observational data will be stored and made available for everyone after the end of the project duration respectively the closure of the NACLIM web site.”

# NACLIM Data Policy

....Suggestion after review: data @ OceanSITES

# NACLIM Data Policy

....Suggestion after review: data @ OceanSITES

## 1. Moored instrument data

**Resistance** among scientists to reformat all instrument data to OceanSITES! (no time, funding, etc) :(

NOTE: some moorings are an OceanSITE already.. and some new arrays that contribute to OSNAP will follow OceanSITES format.

## 2. Derived time series, e.g. volume, heat transports

**Yes!** Data manager of NACLIM could do so.. :)



# NACLIM Data Policy

....Suggestion after review: data @ OceanSITES

## 1. Moored instrument data

**Resistance** among scientists to reformat all instrument data to OceanSITES! (no time, funding, etc) :(  
NOTE: some moorings are an OceanSITE already.. and some new arrays that contribute to OSNAP will follow OceanSITES format.

## 2. Derived time series, e.g. volume, heat transports

**Yes!** Data manager of NACLIM could do so.. :)

But... a lot of Qs...

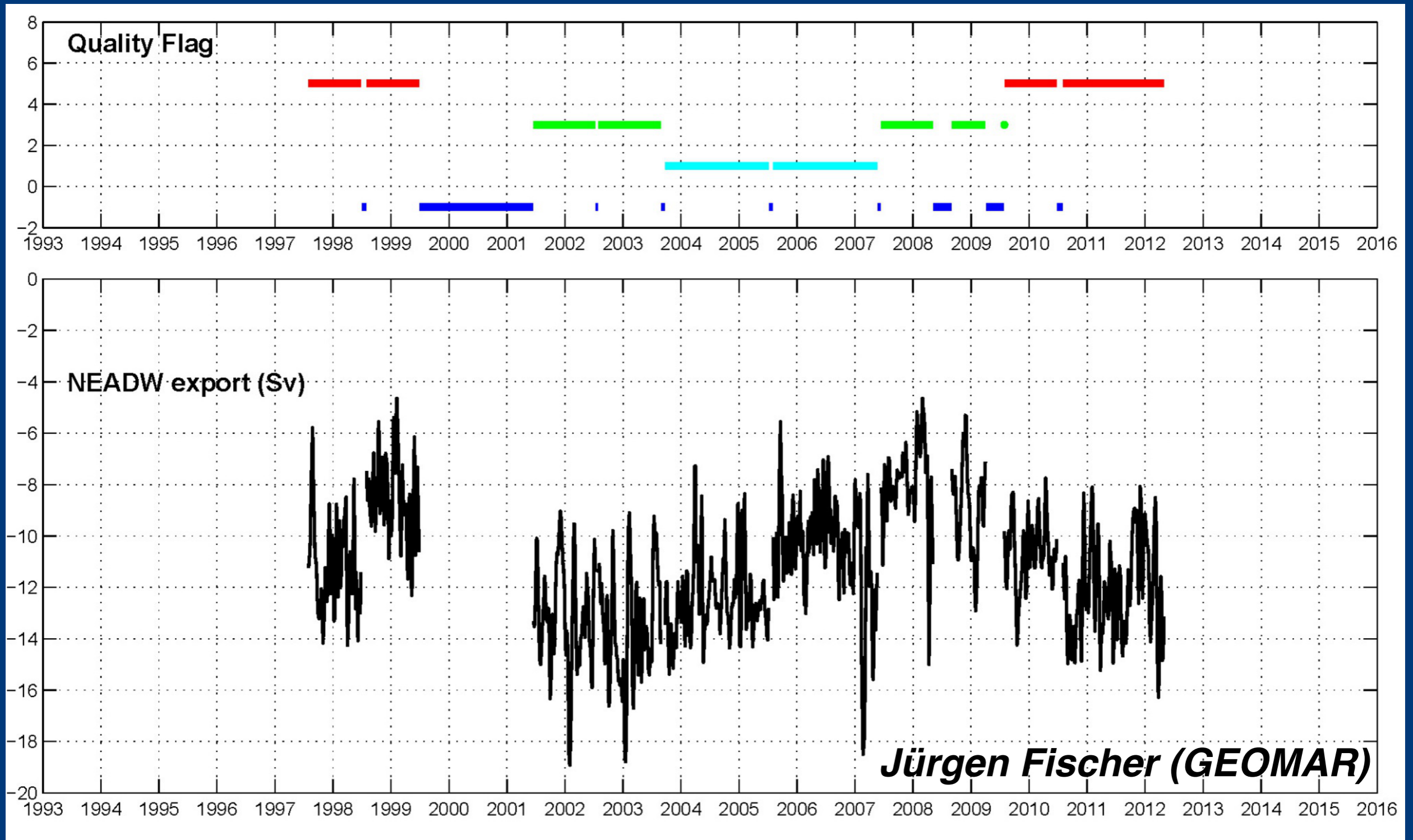
Details on how time series were obtained?

Q-control flags?

Data gaps?

Errors?

# One suggestion to deal with flags for derived transports...



The full array consists of 5 stations and the highest quality of the estimate from this period. Periods with no data have negative flag.

## Other suggestions for Q-control derived time series:

- Include error / one sigma std. deviation (RAPID)
- Include description of the derivation in the meta data
- Include a reference to publication (where description of the derivation/analysis is given) in the meta data
- other....?

# NACLIM Data @ OceanSITES?

# NACLIM Data @ OceanSITES?

1. Moored instrument data

**Resistance** among scientists to convert to CF  
(apart from some)

WHAT TO DO..?

2. Derived time series, e.g. volume, heat transports

**Yes!** But clear Q-control / methods /flags need to be provided

OceanSITES GUIDE LINES / DOCUMENT?



The research leading to these results has received funding from the European Union 7th Framework Programme (FP7 2007-2013), under grant agreement n.308299

NACLIM [www.naclim.eu](http://www.naclim.eu)