NAACLIM
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)

Laura de Steur (NIOZ, The Netherlands) - OceanSITES meeting 3-6 Nov. 2014
NAACLIM 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:
NAACLIM 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
NAACLIM 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)
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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.”
NAACLIM Data Policy

....Suggestion after review: data @ OceanSITES
NAACLIM Data Policy

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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.. :}


NAACLIM Data Policy

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2. **Derived time series, e.g. volume, heat transports**
   
   **Yes!** Data manager of NAACLIM 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 is 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….?
NAACLIM Data @ OceanSITES?
NAACLIM 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?
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NACLIM www.naclim.eu