



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Report on the North Atlantic Area V1.1 Historical Data Collection

Christine Coatanoan





SeaDataNet

First release of the aggregated dataset V1

Preparation regional datasets for MyOcean

February 2013

Feedback from CDI partners

29 answers on 48 CDI (60.4%)

September 2013

17th March : updated version provided to SDN regional headers

Different versions of ODV, bugs on the dataset (new version in March)

March 2014

June 2013

Anomalies list sent to CDI partners

*Guideline
dateline for corrections :
15th September 2013*

January 2014

Second release of the aggregated dataset V1.1

Updated corrections, new CDI – restricted dataset

September 2014

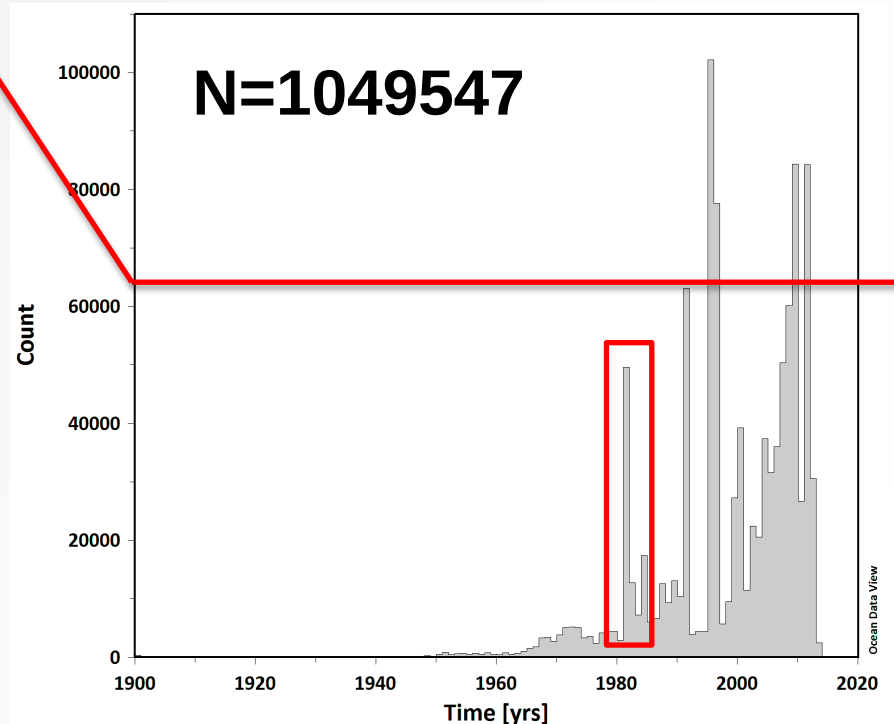
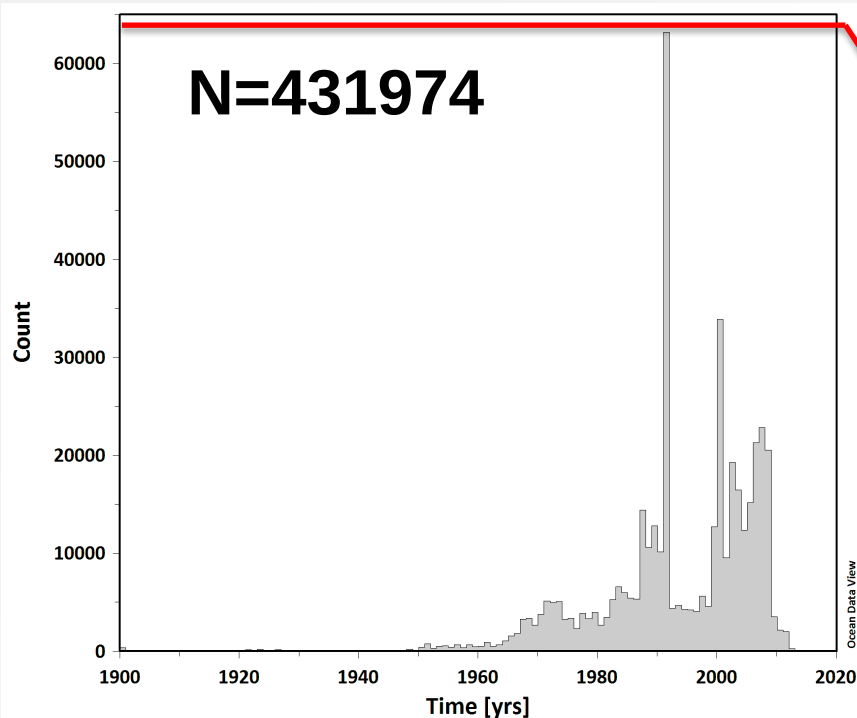
Aggregated dataset V1.1 to be provided by regional headers

Increase of the dataset

V1



V1.1

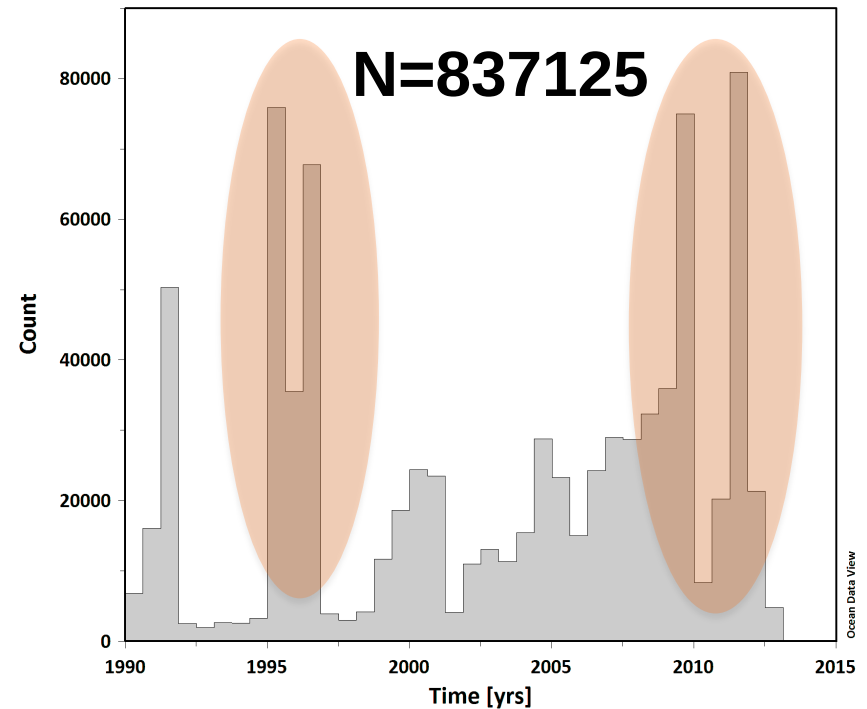
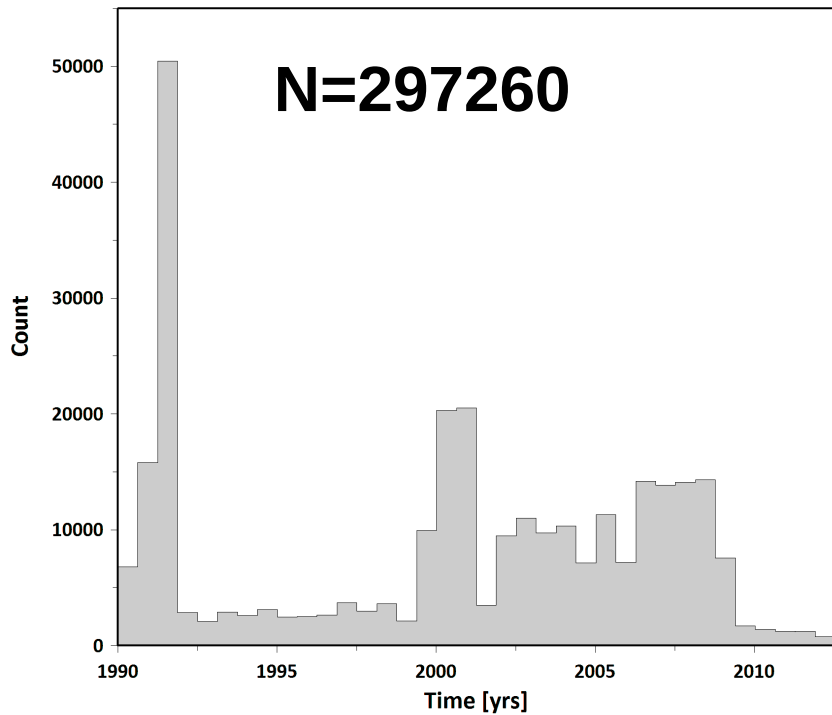


Increase of the dataset – Zoom on 1990-2012

V1



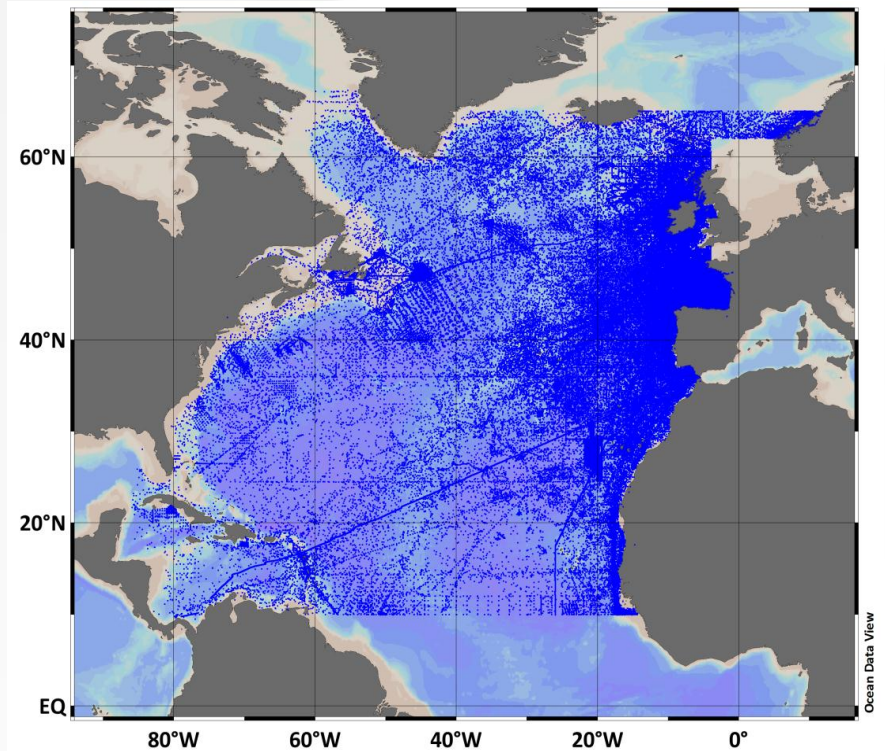
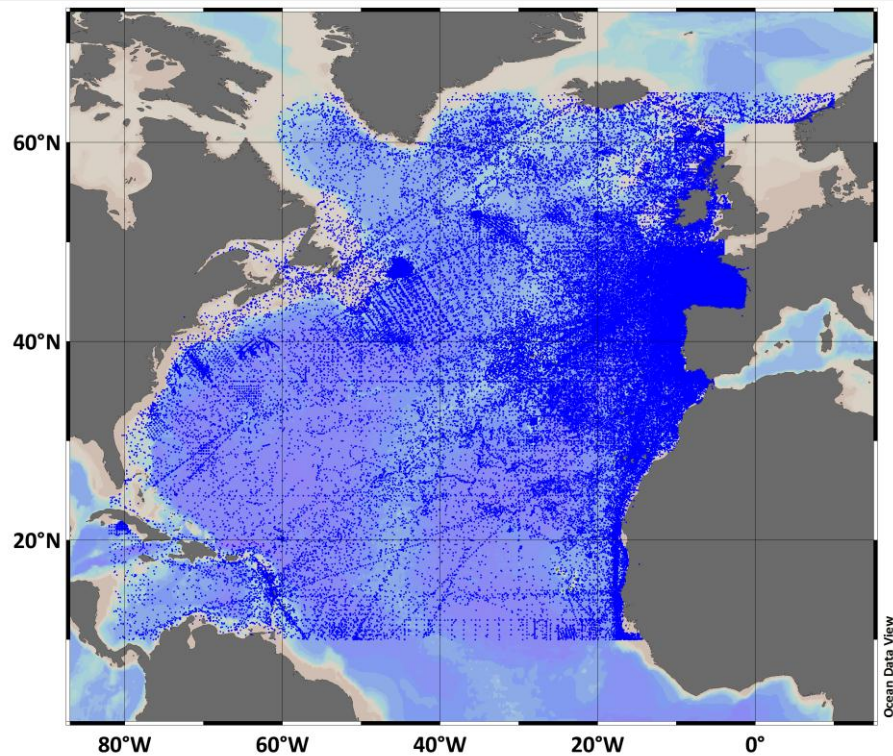
V1.1



+ 617573 stations (242%)

V1 2013 - 431974 stations

V1.1 2014 - 1049547 stations



Most important *Edmo_code* providers for Atlantic Area

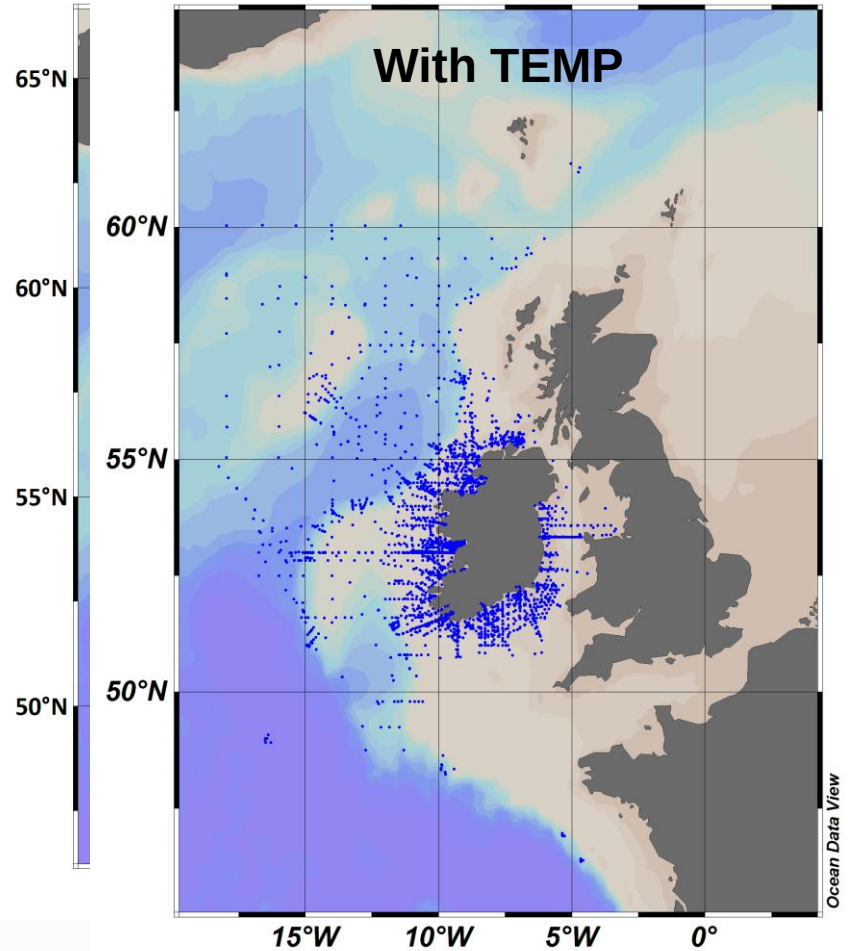
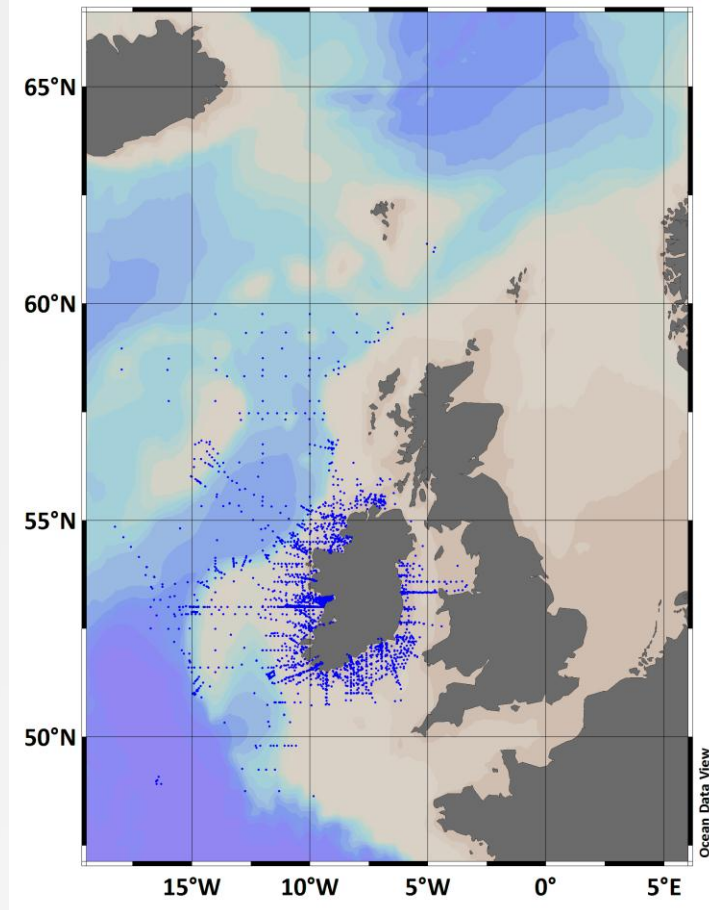
V1 2013 - 431974 stations

V1.1 2014 - 1049547 stations

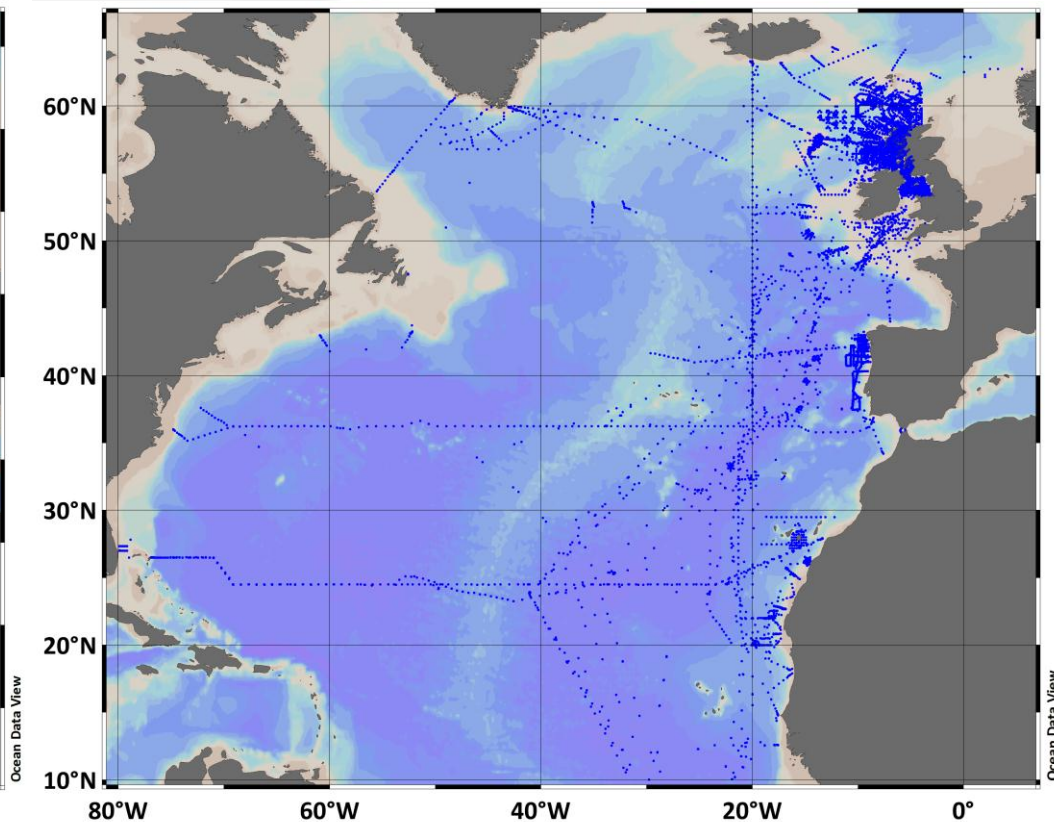
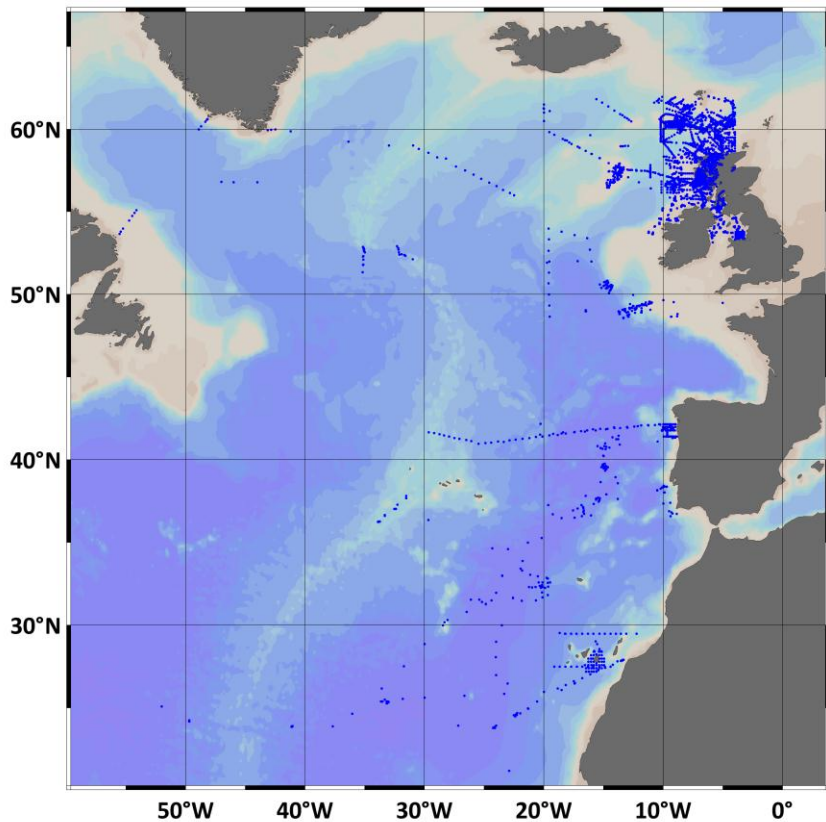
Edmo_code	2013 (V1)	2014 (V1.1)	Data increase (%)
43 (BODC)	90213	331786	241573 (267.8%)
353 (IEO)	12345	188078	175733 (127.4%)
396 (MI)	3806	127592	123786 (3252.4%)
486 (SISMER)	94008	99601	5593 (5.95%)
540 (SHOM)	49521	49580	59 (0.12%)

9909 with TEMPERATURE measurements

396 – MARINE INSTITUTE (IRELAND)

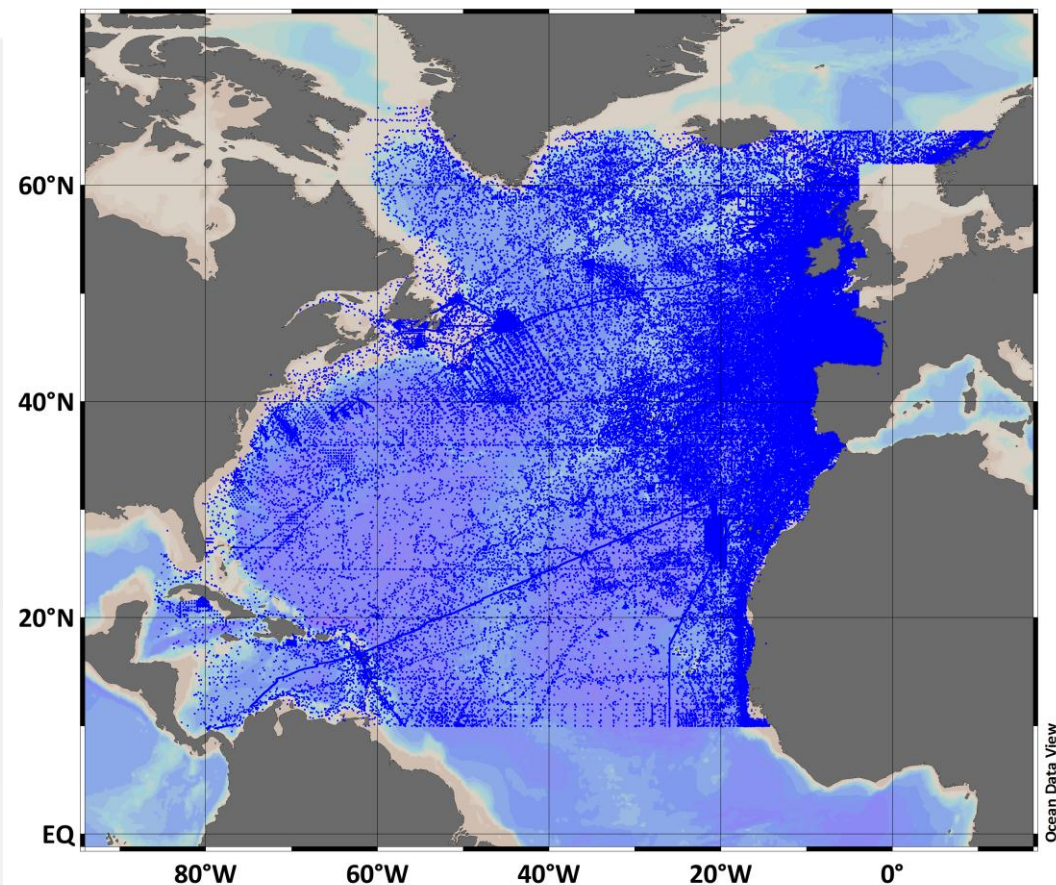


43 – BODC (UK)



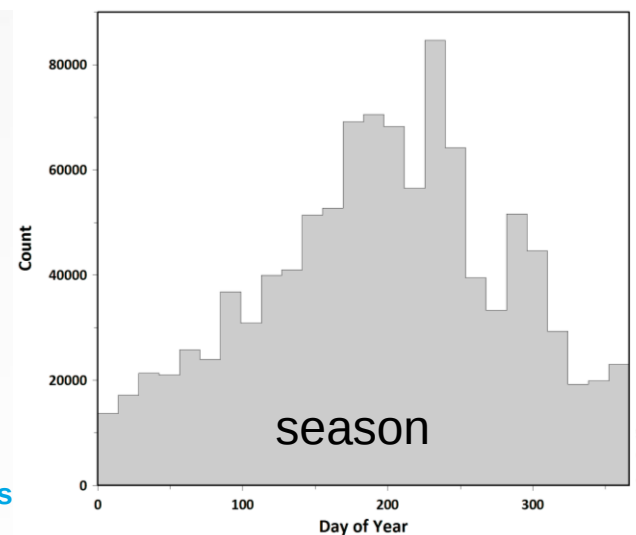
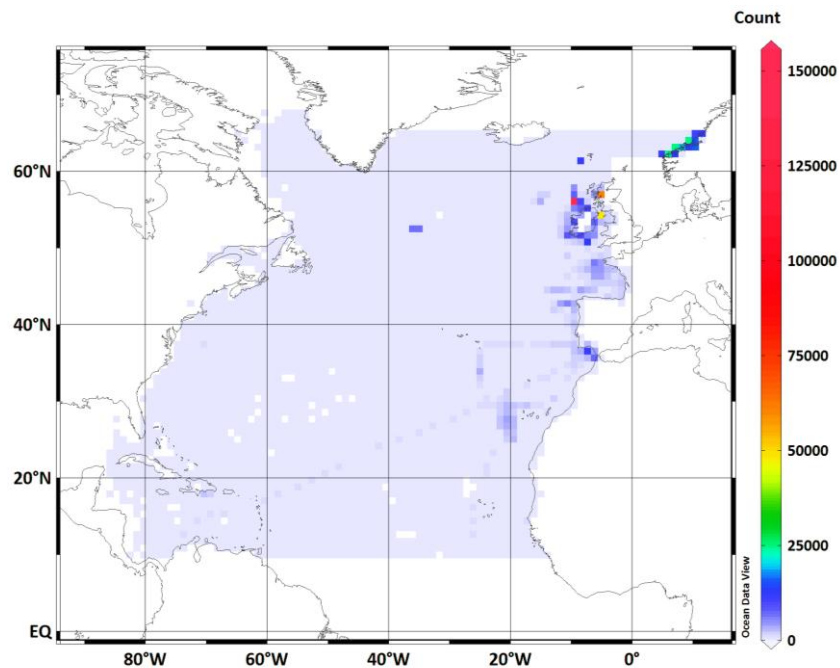
1990 to 2011

sdn-userdesk@seadatanet.org – www.seadatanet.org



N= 1049547

sdn-userdesk@seadatanet.org – www.sdn-userdesk@seadatanet.org

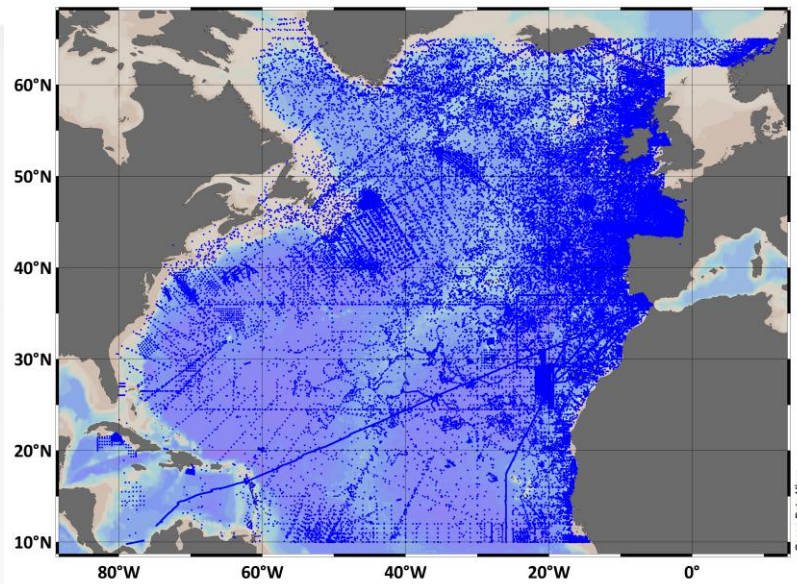
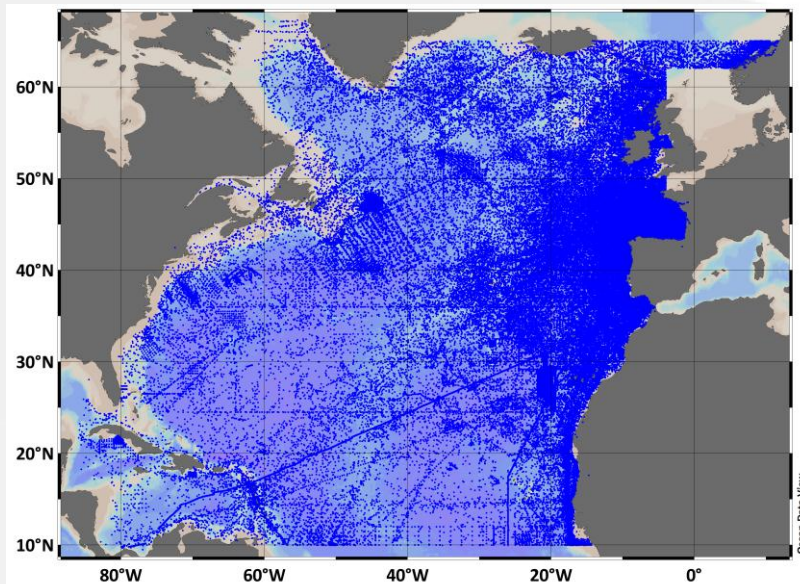




Data Distribution and Density Map

TEMPERATURE

SALINITY

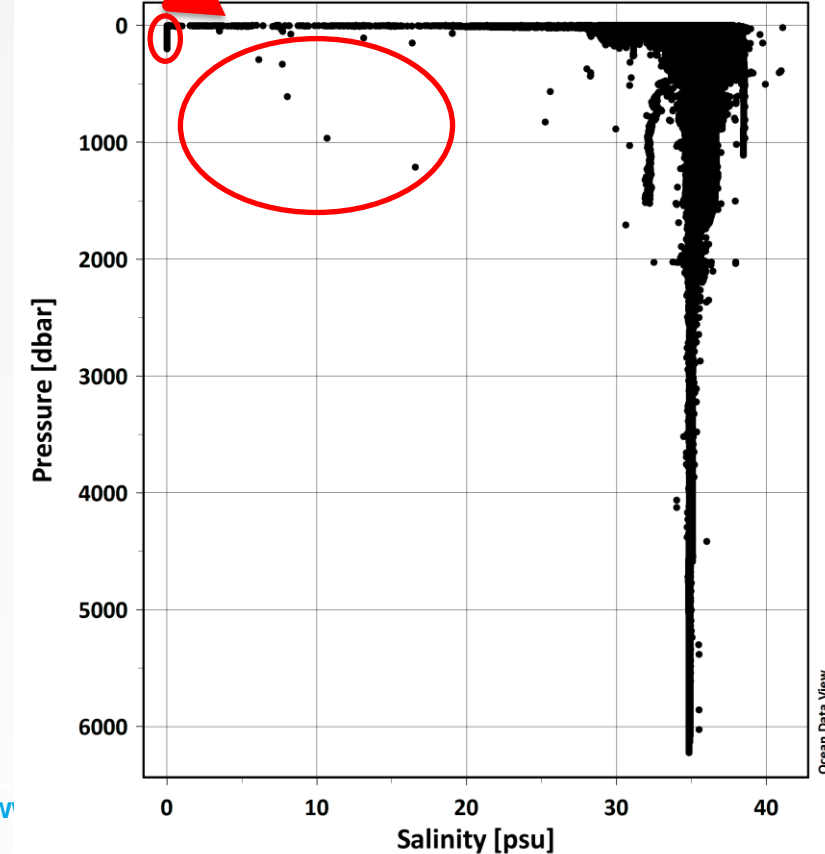
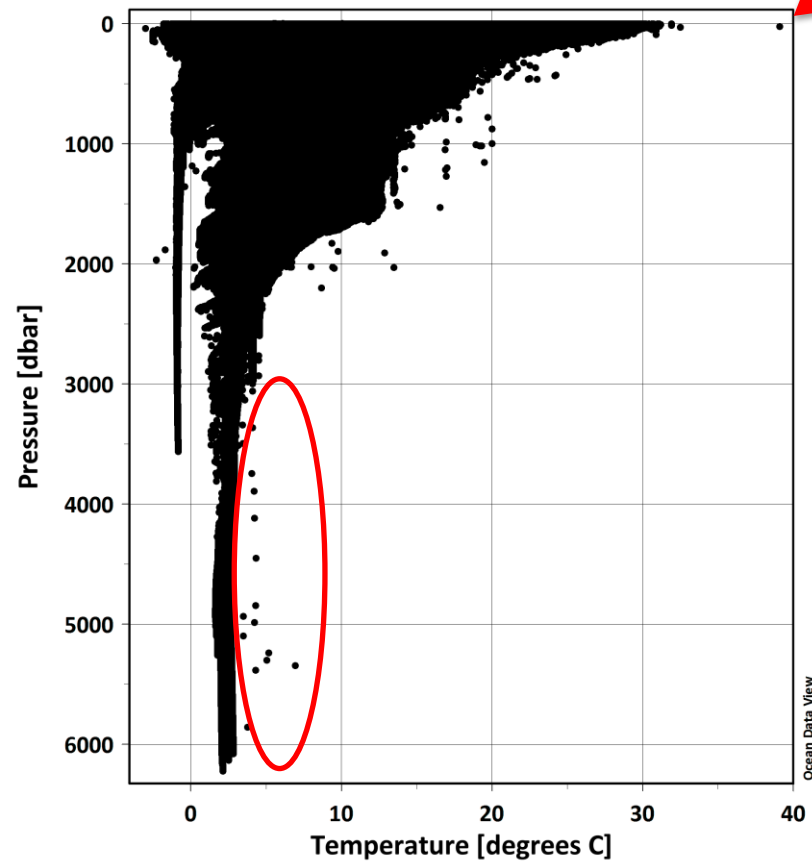
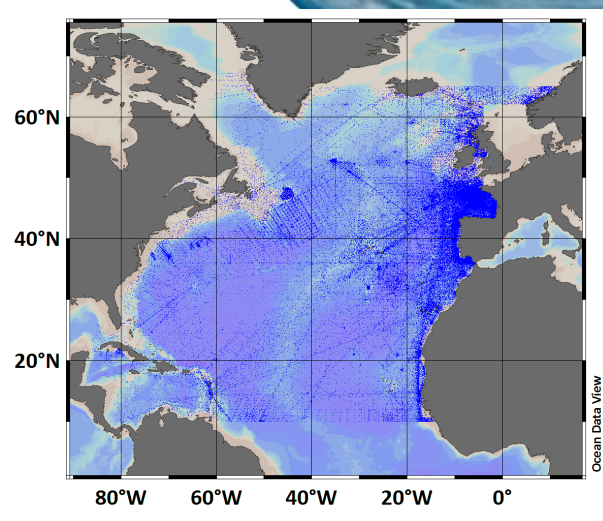


PAR	# points
	1049547
T	915809
S	298404
TS	297796

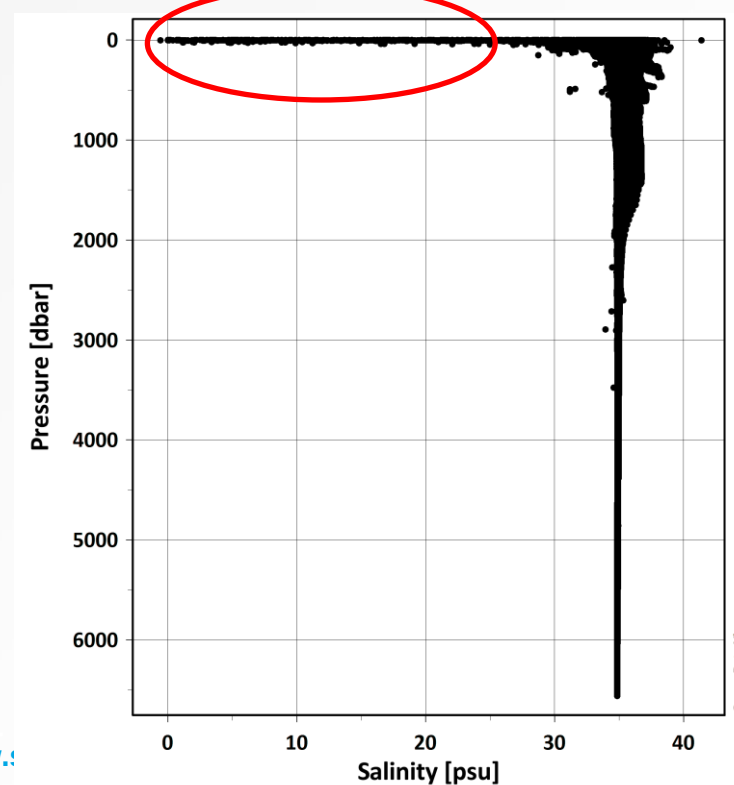
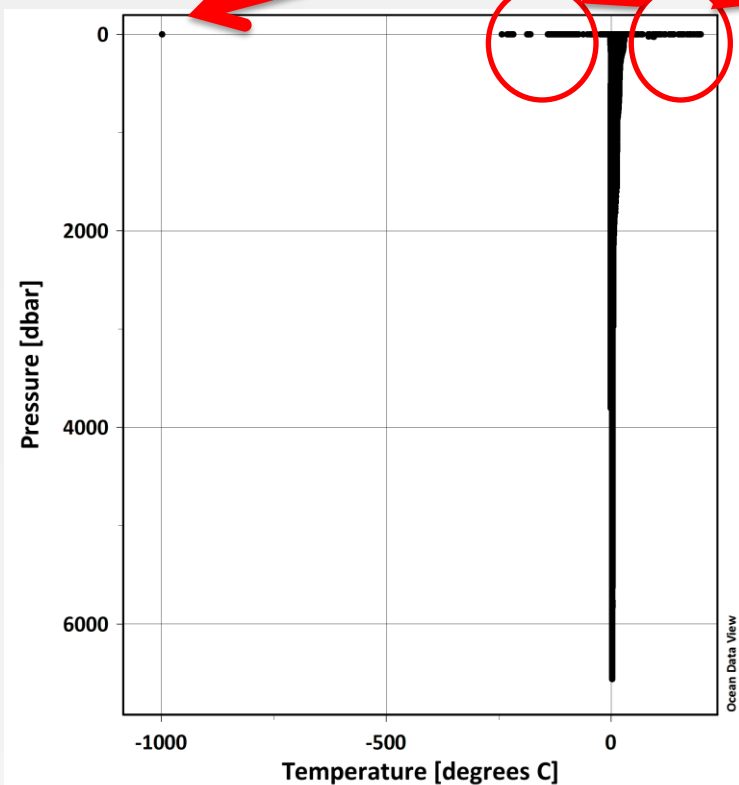
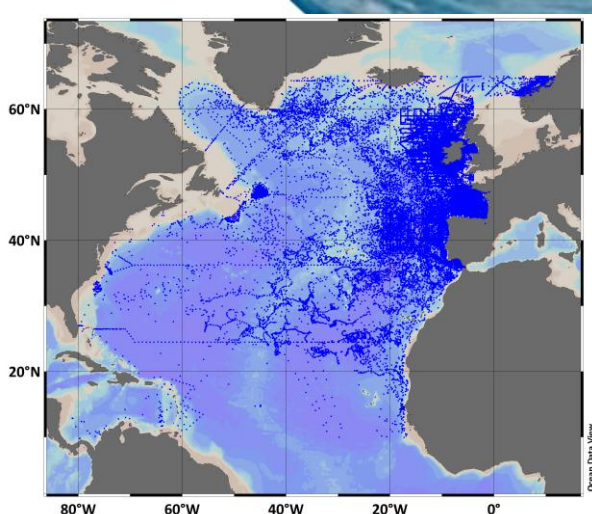
1900-1999

QF 1& 2

There are still
some anomalies



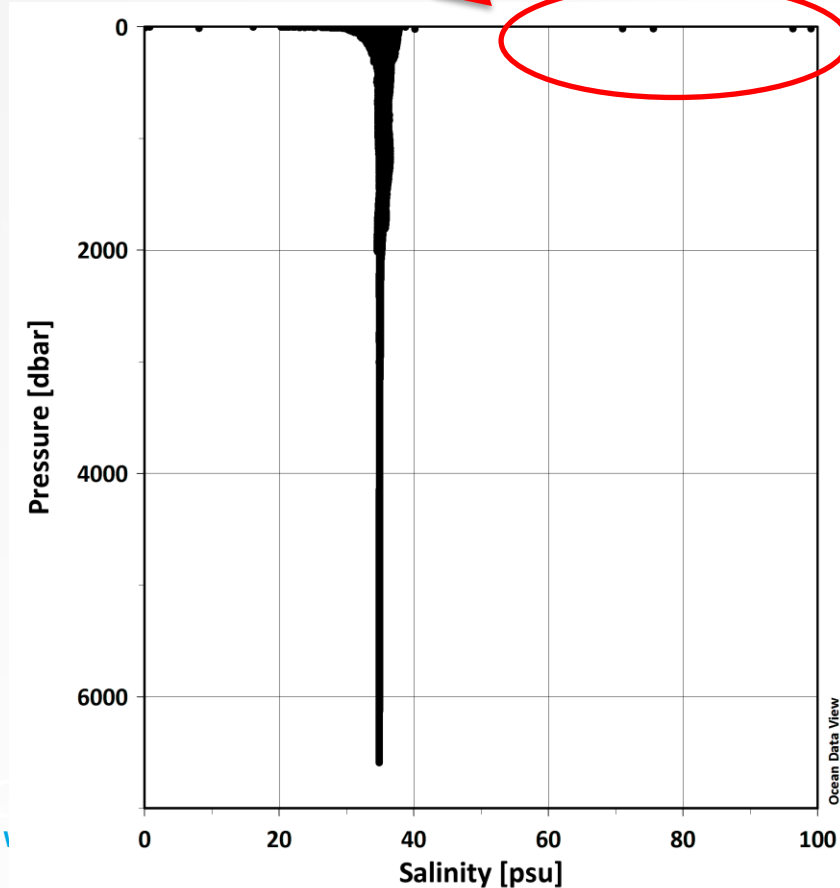
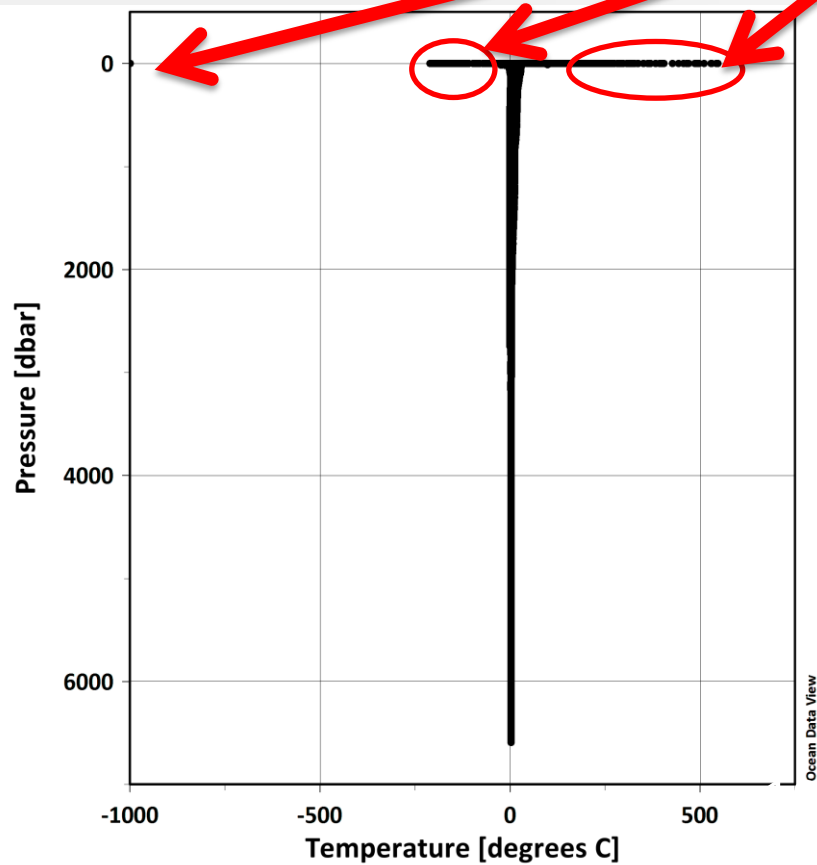
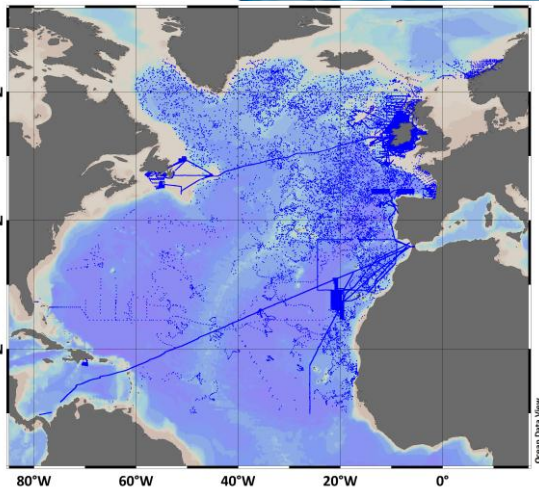
There are still
some anomalies



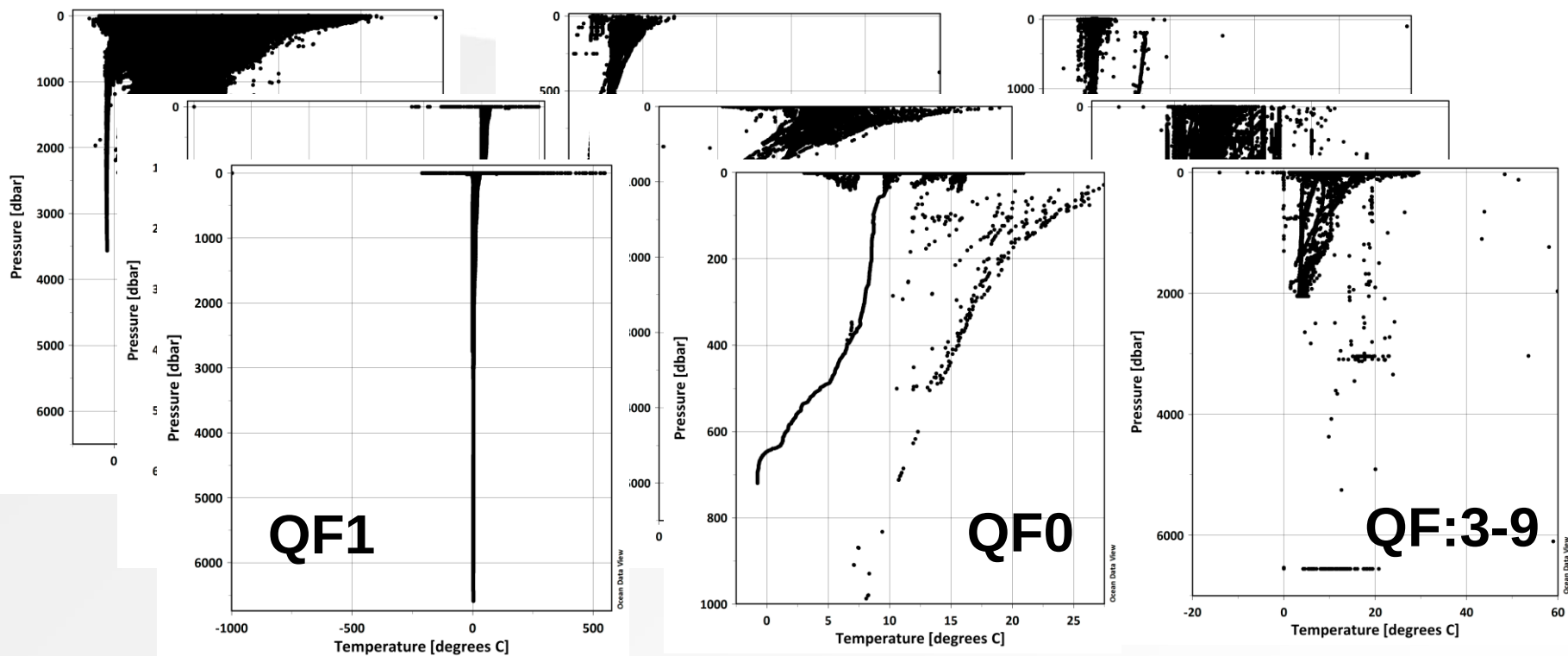
2009-2013

QC 1 & 2

There are still
some anomalies



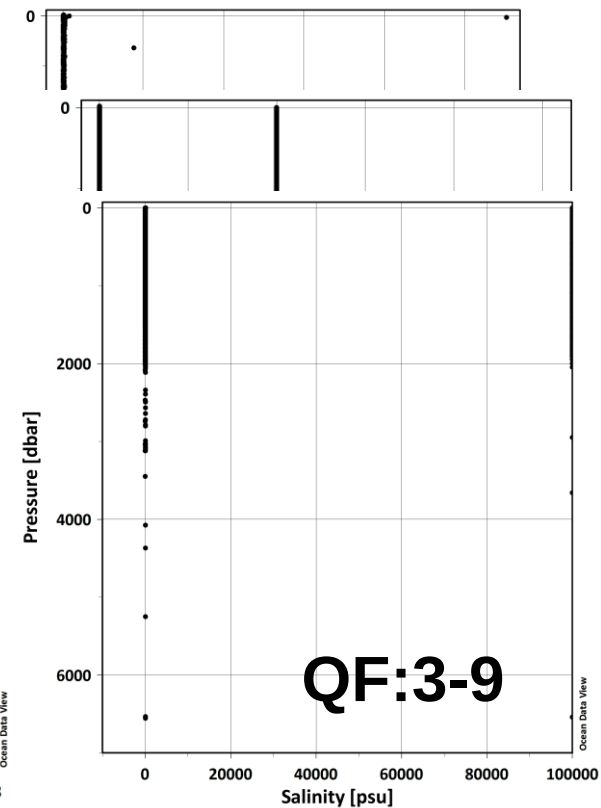
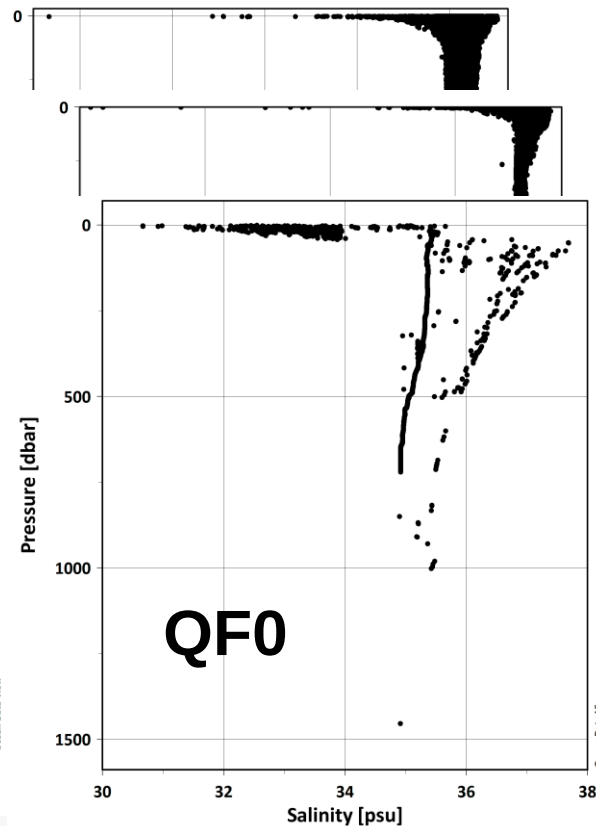
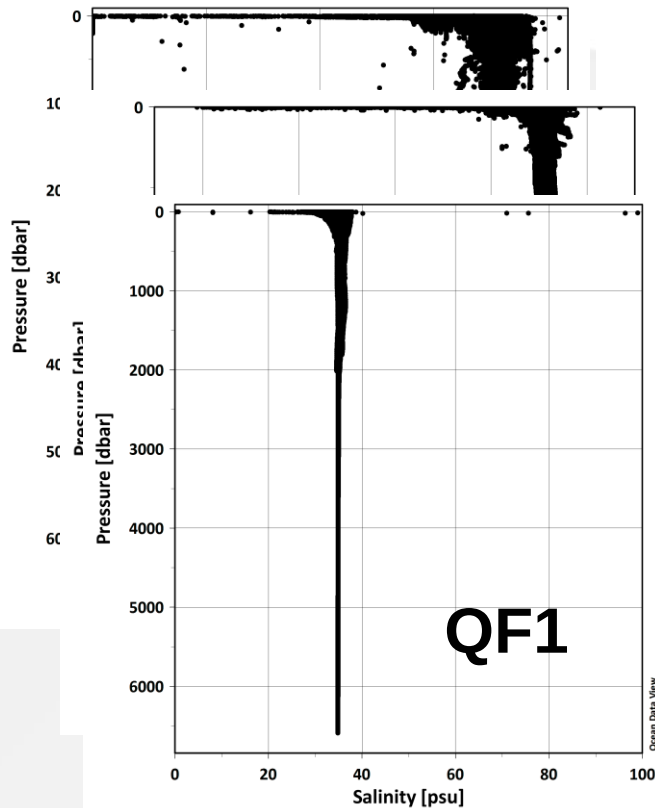
Scatter Plots: TEMPERATURE



	TOT	QF0	QF1	QF2	QF:3-9
T	46596335	145511	46231467	781	218546
		0,31%	99,21%	0,001%	0,47%

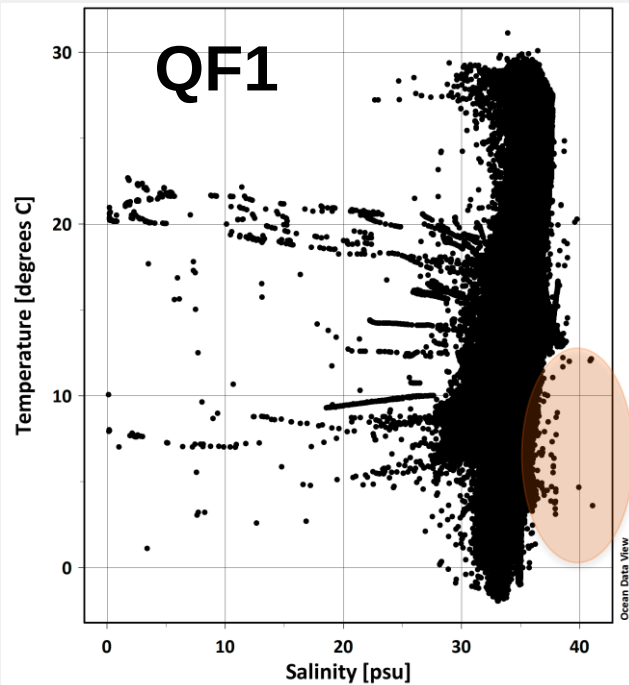
1990 to 2011

Scatter Plots: SALINITY

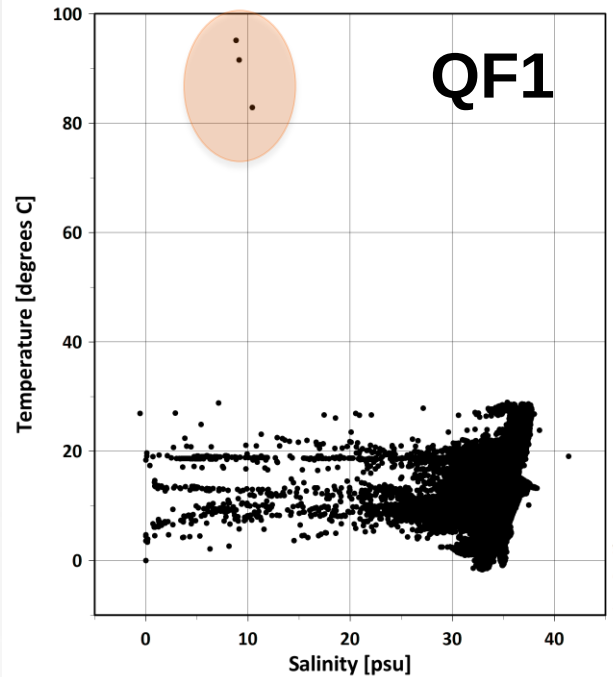


	TOT	QF0	QF1	QF2	QF:3-9
S	30698322	54295 0,18%	30425067 99,1%	62 <0,01%	218358 0,71%

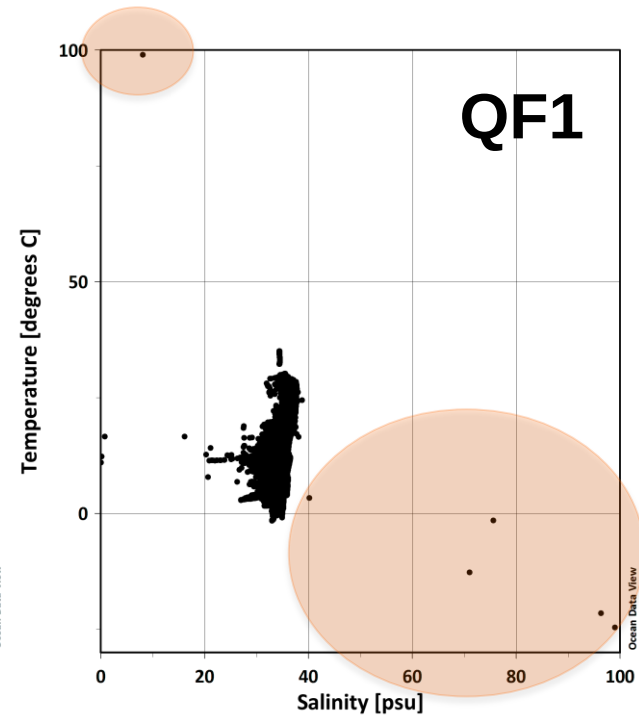
TS diagrams



1900-1999



2000-2008



2009-2013

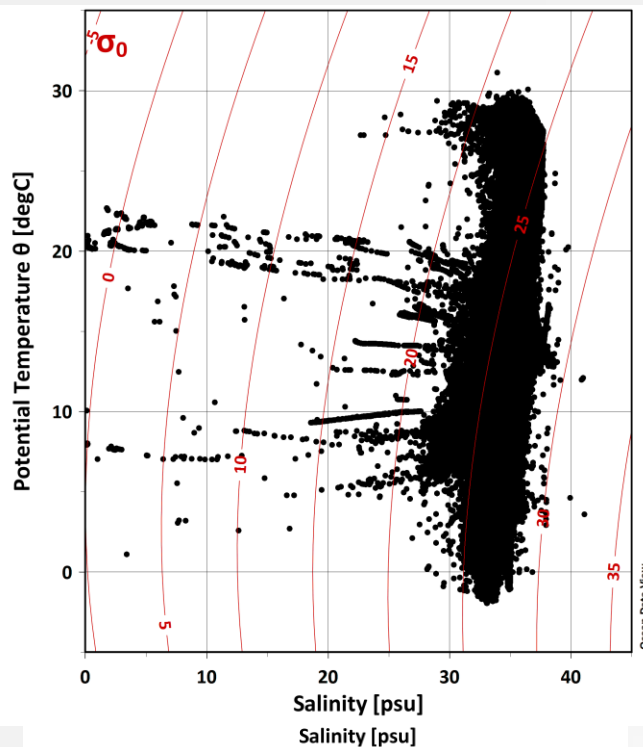


SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

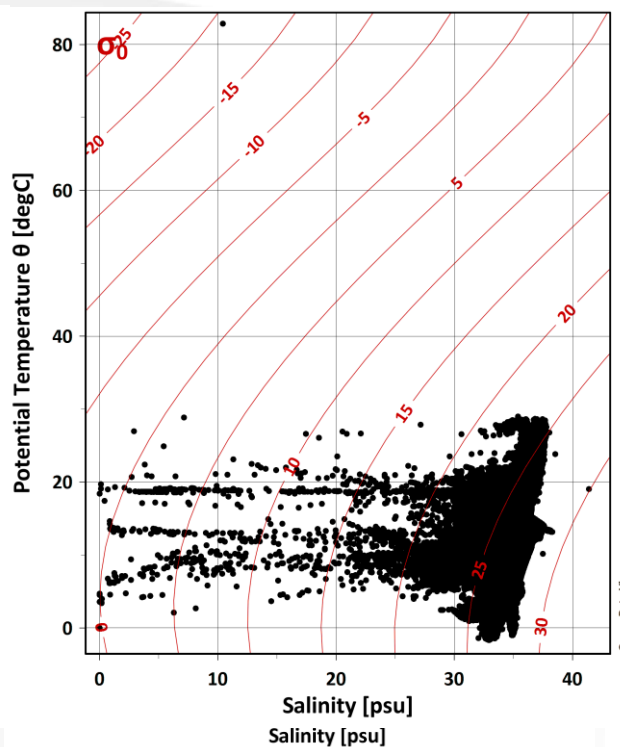
TS diagrams

QF1



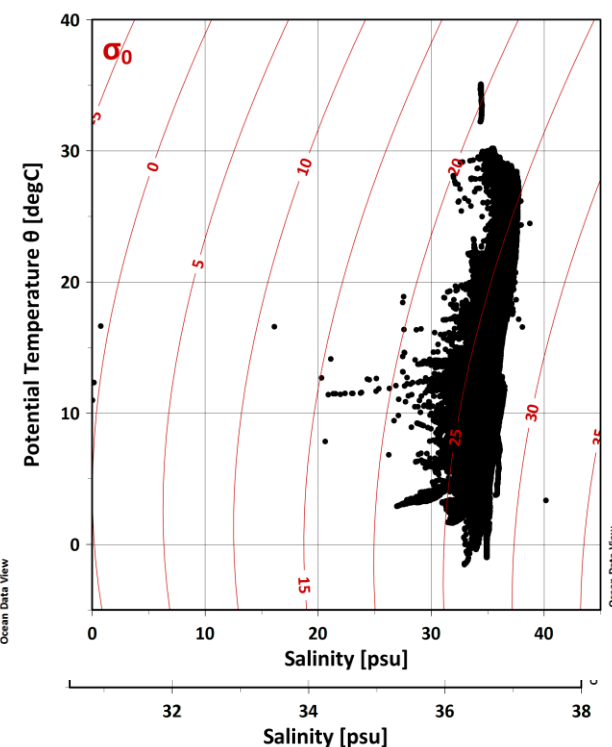
1900-1999

QF1



2000-2008

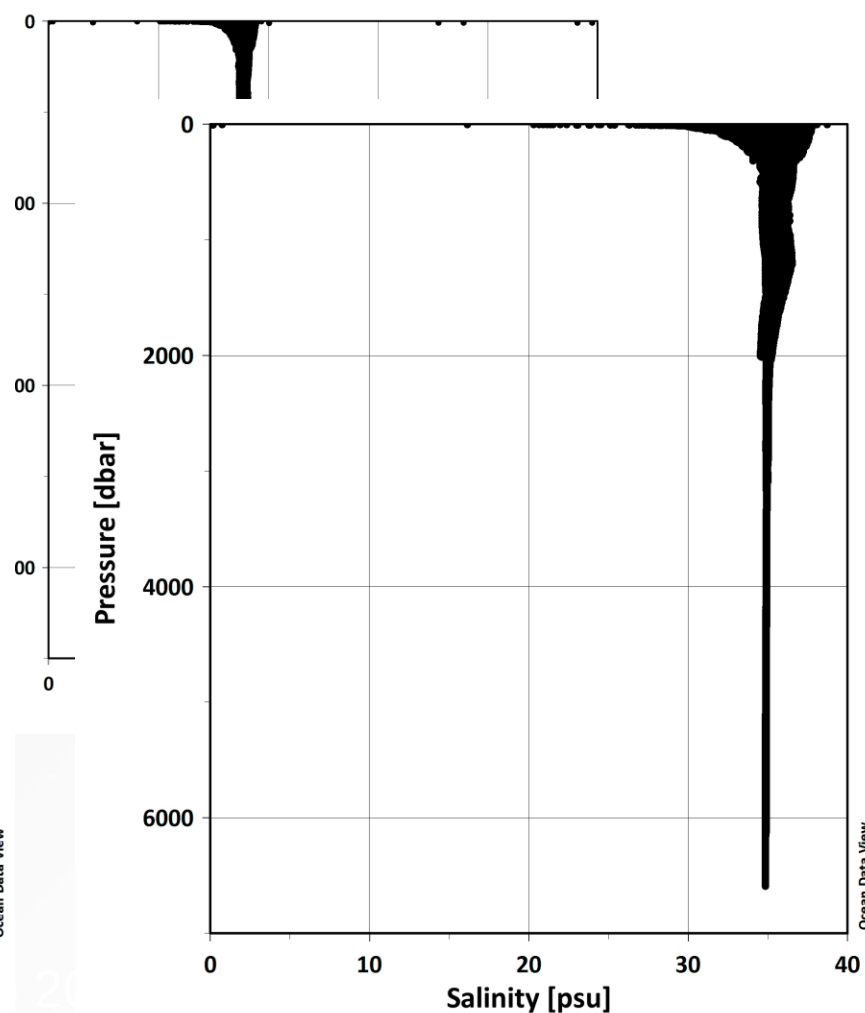
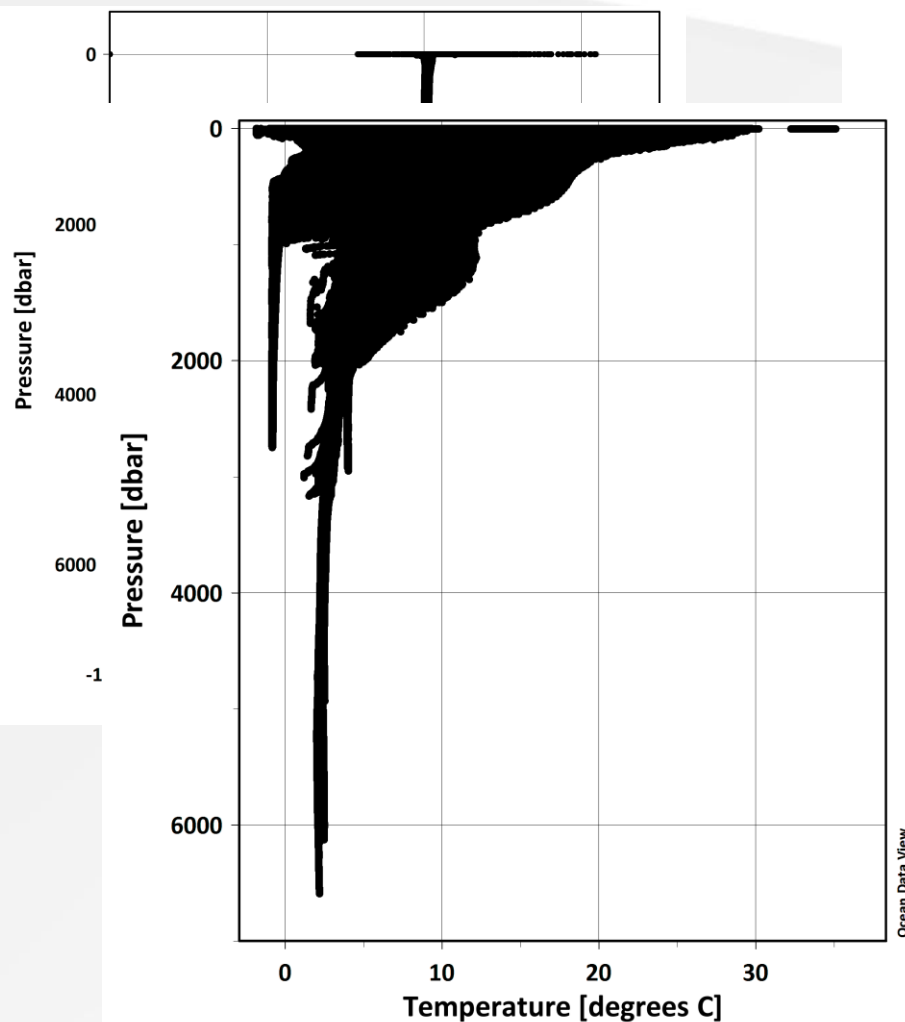
QF1



2009-2013

Less than 0,3%
of the local_cdi_id
(9 EDMO_CODE)

2009-2014 QC 1 after correction

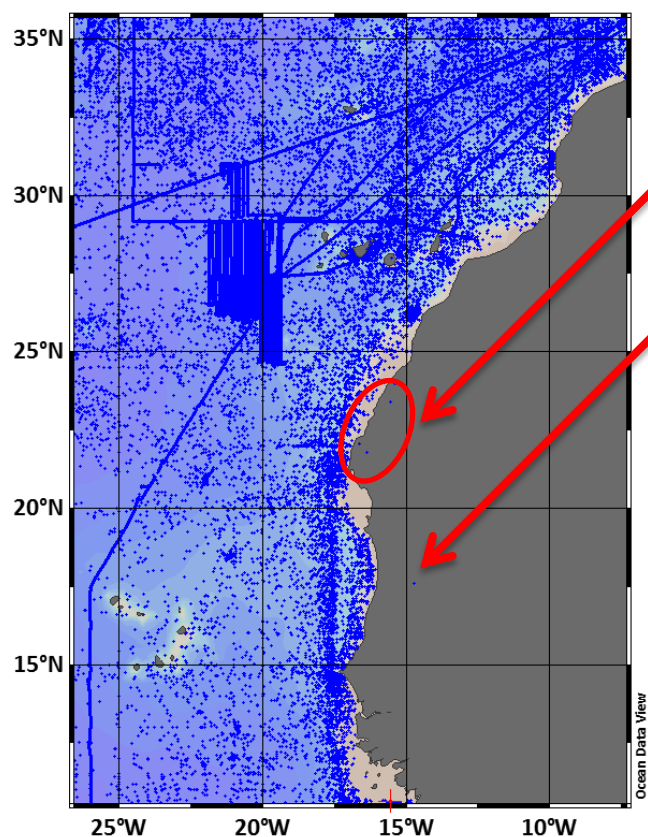
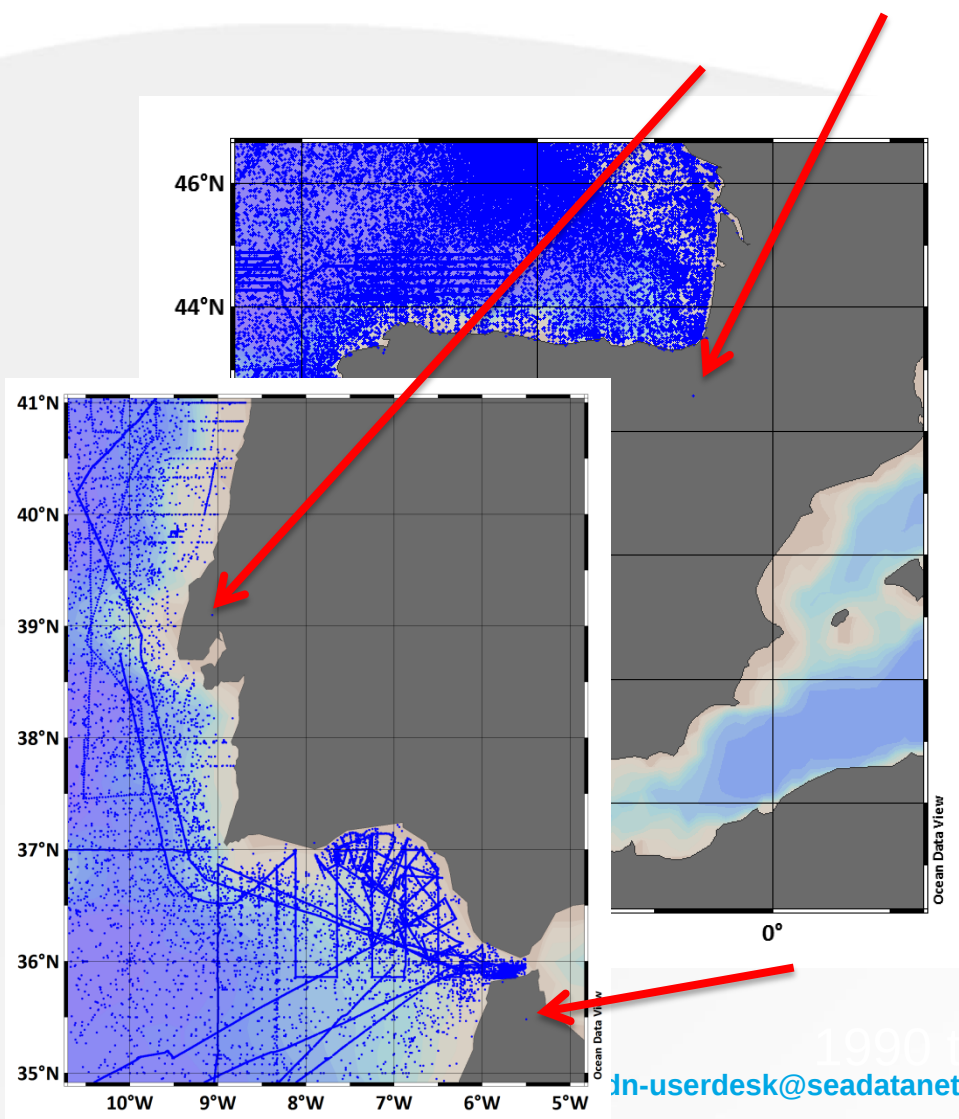




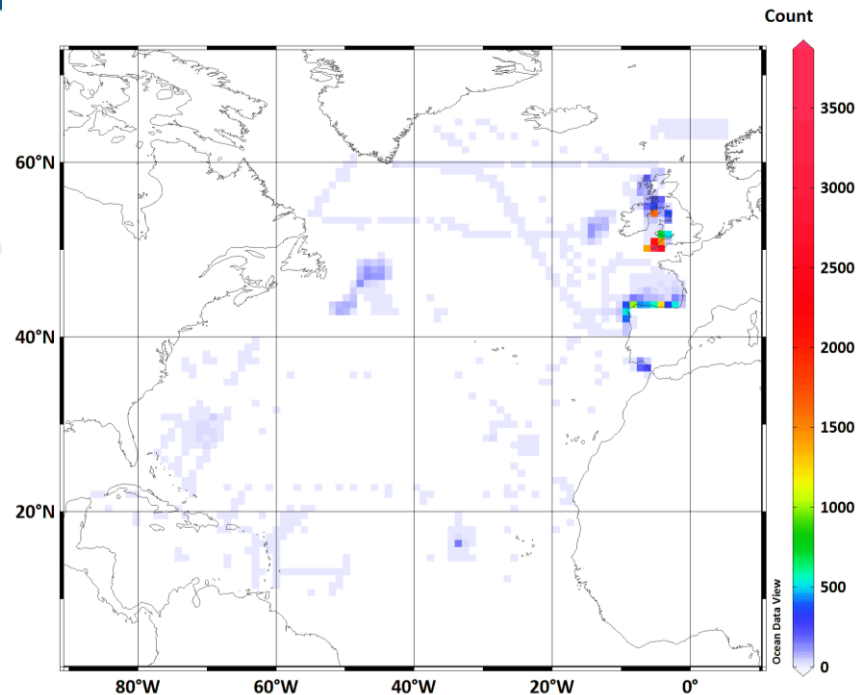
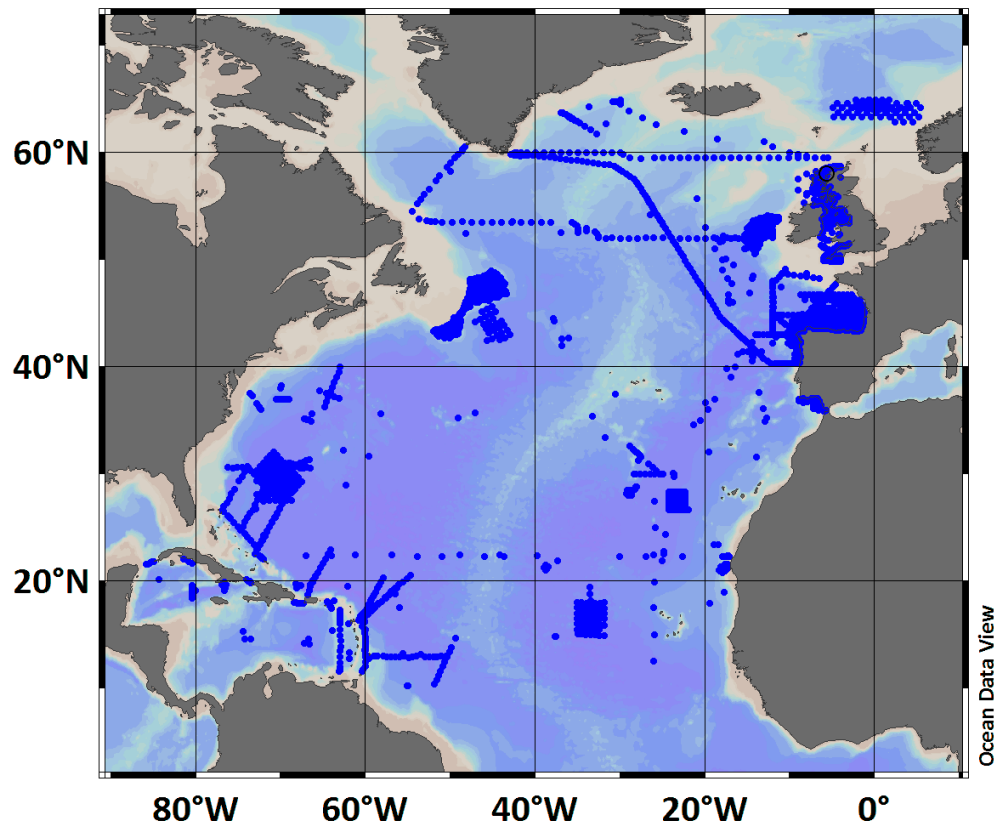
SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Land Points



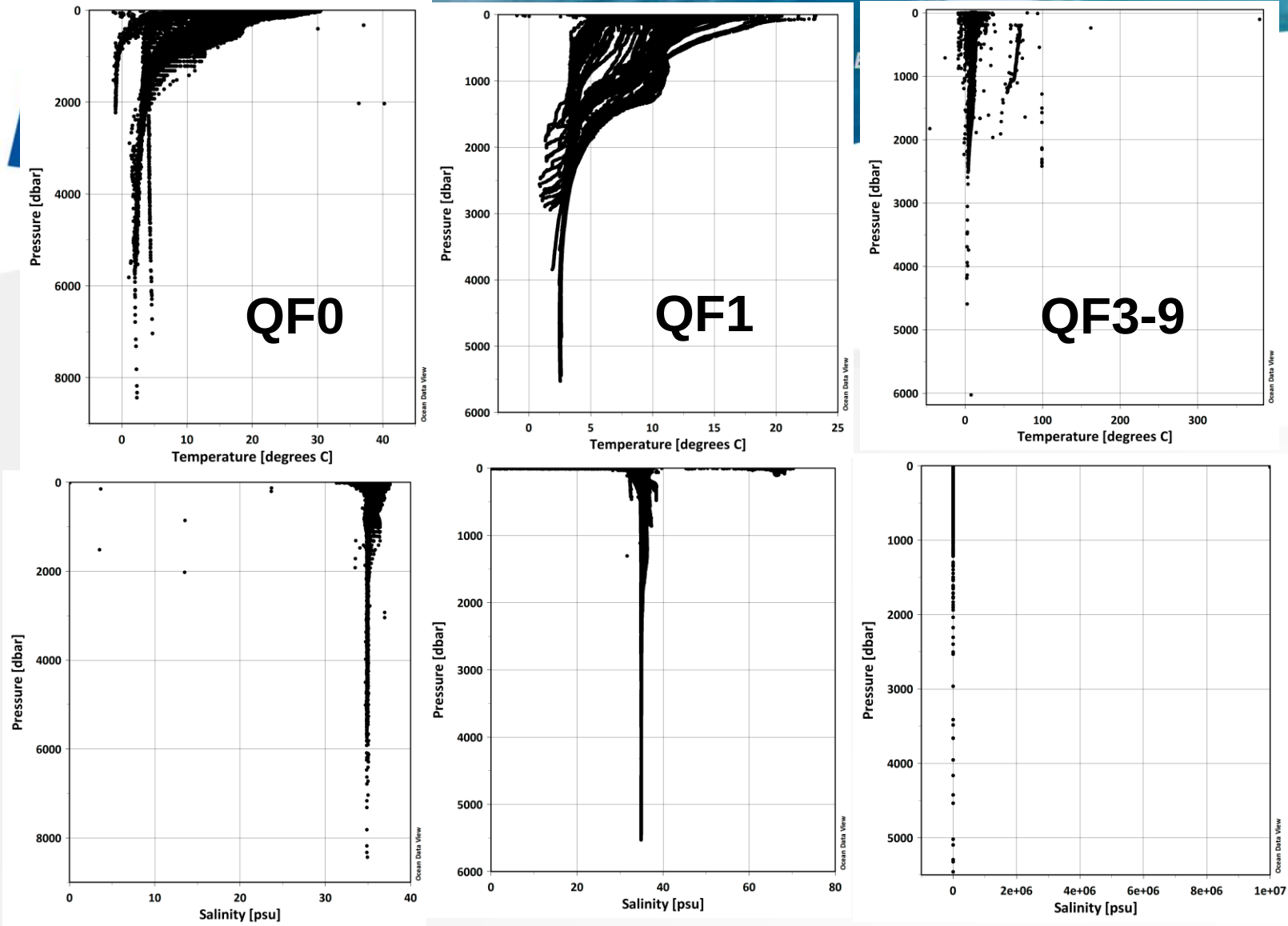
Restricted data



PAR	# points
	28338
T	15403
S	24873
TS	14922

1990 to 2011

sdn-userdesk@seadatanet.org – www.seadatanet.org



T

S

	TOT	QF0	QF1	QF2	QF 3-9
T	249684	27714 (11,09%)	221545 (88,73%)	0	425 (0.17%)
S	3754120	26705 (0,71%)	3716642 (99,01%)	0	10773 (0,28%)

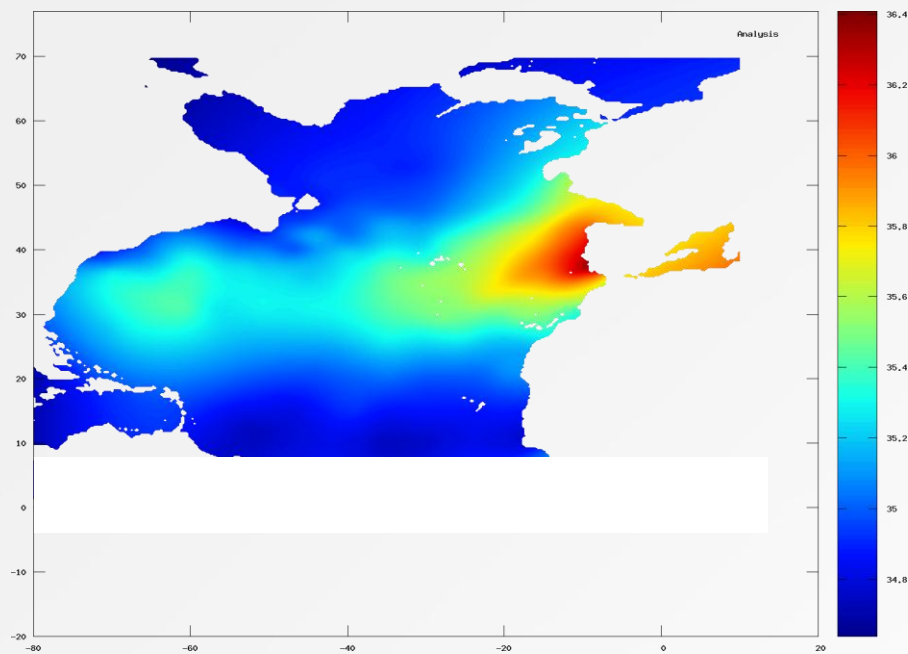


SeaDataNet

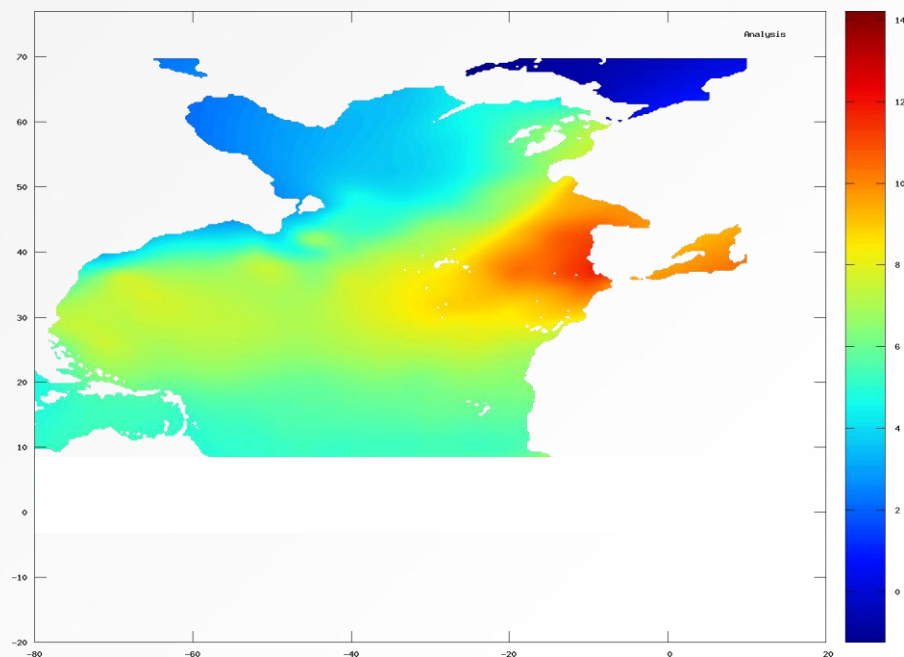
PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

DIVA First tests version 4.6.5

SALINITY



TEMPERATURE



Conclusions

- V1.1 data collection contains more data than V1 version (but new data without Temperature and Salinity values)
- V1.1 some data have been corrected from V1 (QC strategy implemented between RCs-MyO INSTAC-NODCs) but still bad QF due to a large number of new data
- Restricted data, retrieved during last aggregation exercise, correspond to 2,63% of the total number of data within SDN infrastructure for the North Atlantic Area
- QC analysis of V1.1 data set highlighted that there are still some:
 1. bad data are flagged as good
 2. data are on land
 3. still QF 0
- **Anomalies list will be sent to NODCs**
- **V1.1 data quality is better than V1 but still bad data, flagged as good**
- **Not a lot of V1.1 restricted data for the North Atlantic Ocean**