SeaDataNet

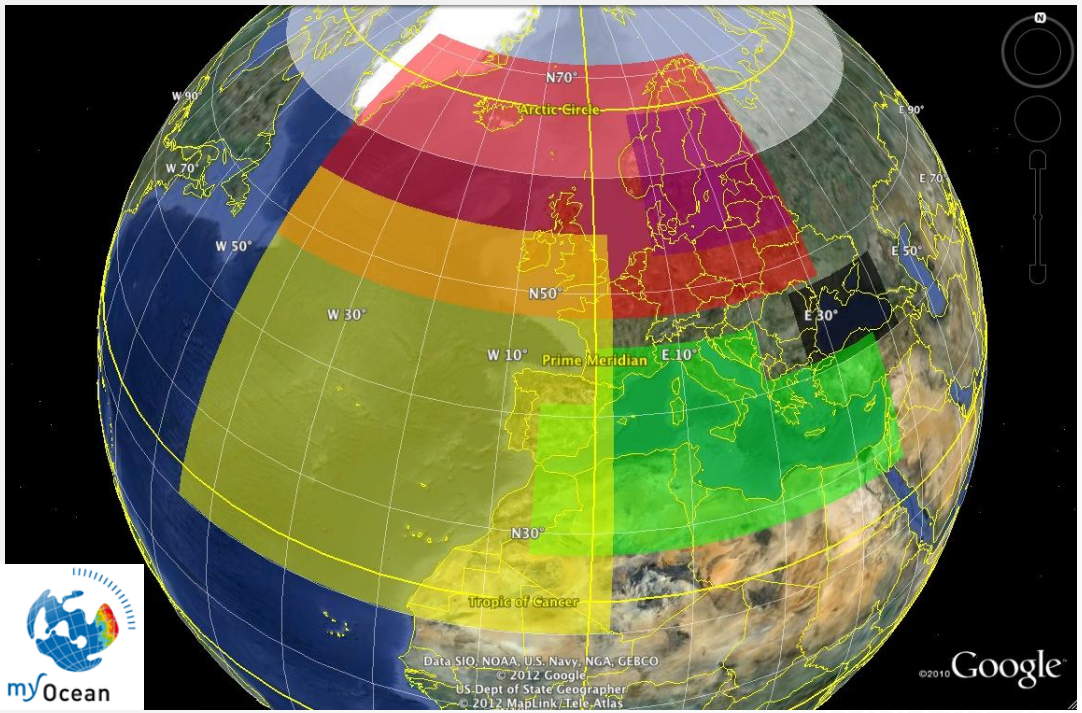
PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

Seadatanet II – Atlantic Ocean Aggregated dataset

Christine Coatanoan

Aggregated dataset – North Atlantic

	West	East	North	South
Arctic	-180	180	90	60
South West Shelf	-50	9	60	19
Baltic	31	8	66	53
Black Sea	42	26	47.5	40
Mediteranea2	20	0	45.6	41
Mediteranea1	37	-5.5	41	28
North West Shelf	31.5	-45	71.5	48
Global	-180	180	90	-90



Baltic Sea : N°53-N°66, E°008-E°031
North Sea :N°49-N°62, W°004 – E°010
Arctic:N°65-N°80, E°010-E°075
Med Sea : N°30-N°46, W°009-E°036.5
Black Sea: N°40-N°47, E°026.5-E°042
Atlantic: N°10-N°65, W°082-E°010

SeaDataNet

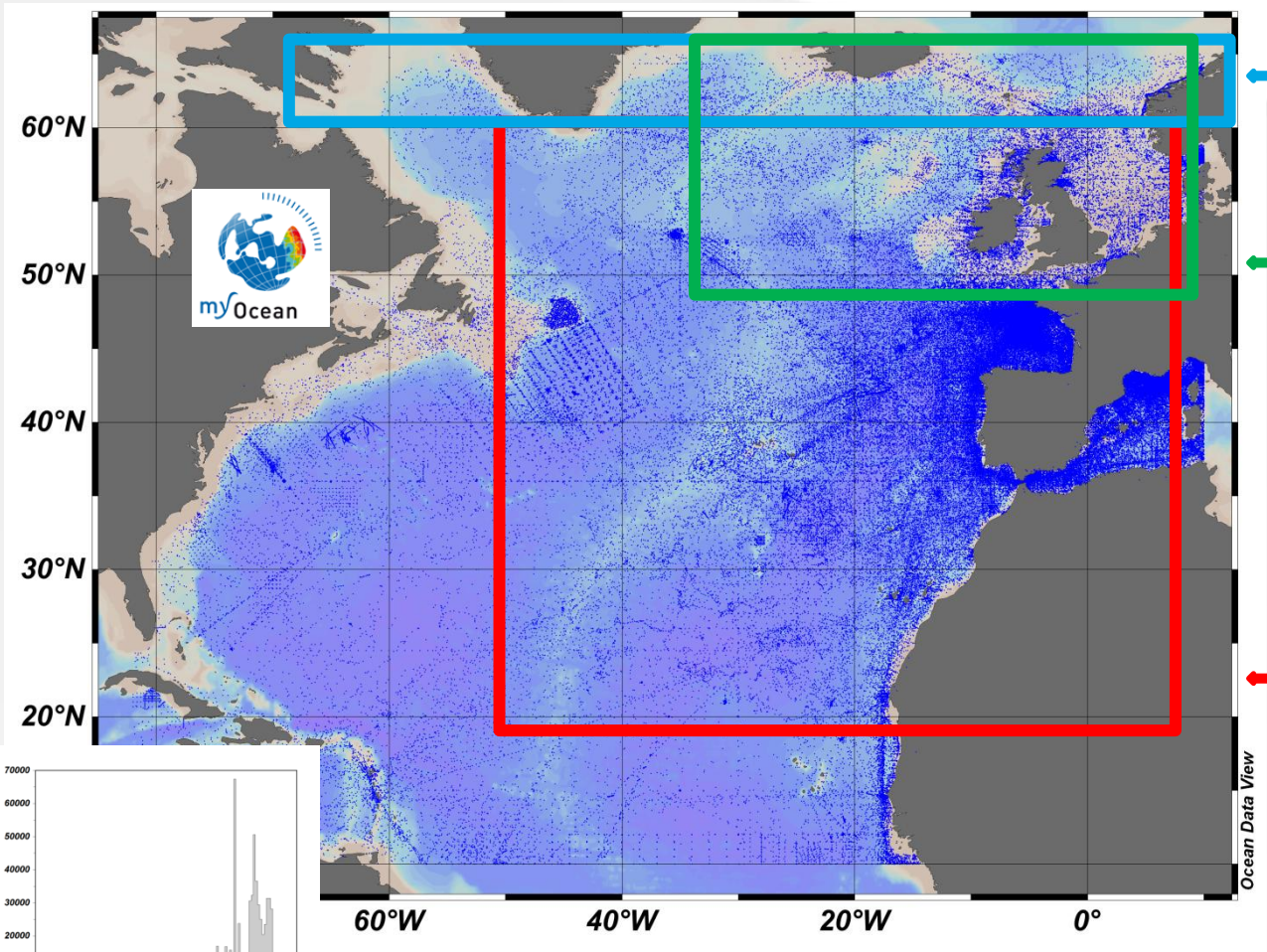
← MyOcean

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

SeaDataNet

North Atlantic Area
710039 stations

Aggregated dataset – North Atlantic – MyOcean1990-2012



ARTIC Area
60°N – 65°N

NSW Area
65°N – 48°N
31.5°W- 10°E

IBI Area
60°N – 19°N
50°W – 9°E

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

PAN-EUROPEAN INFRASTRUCTURE
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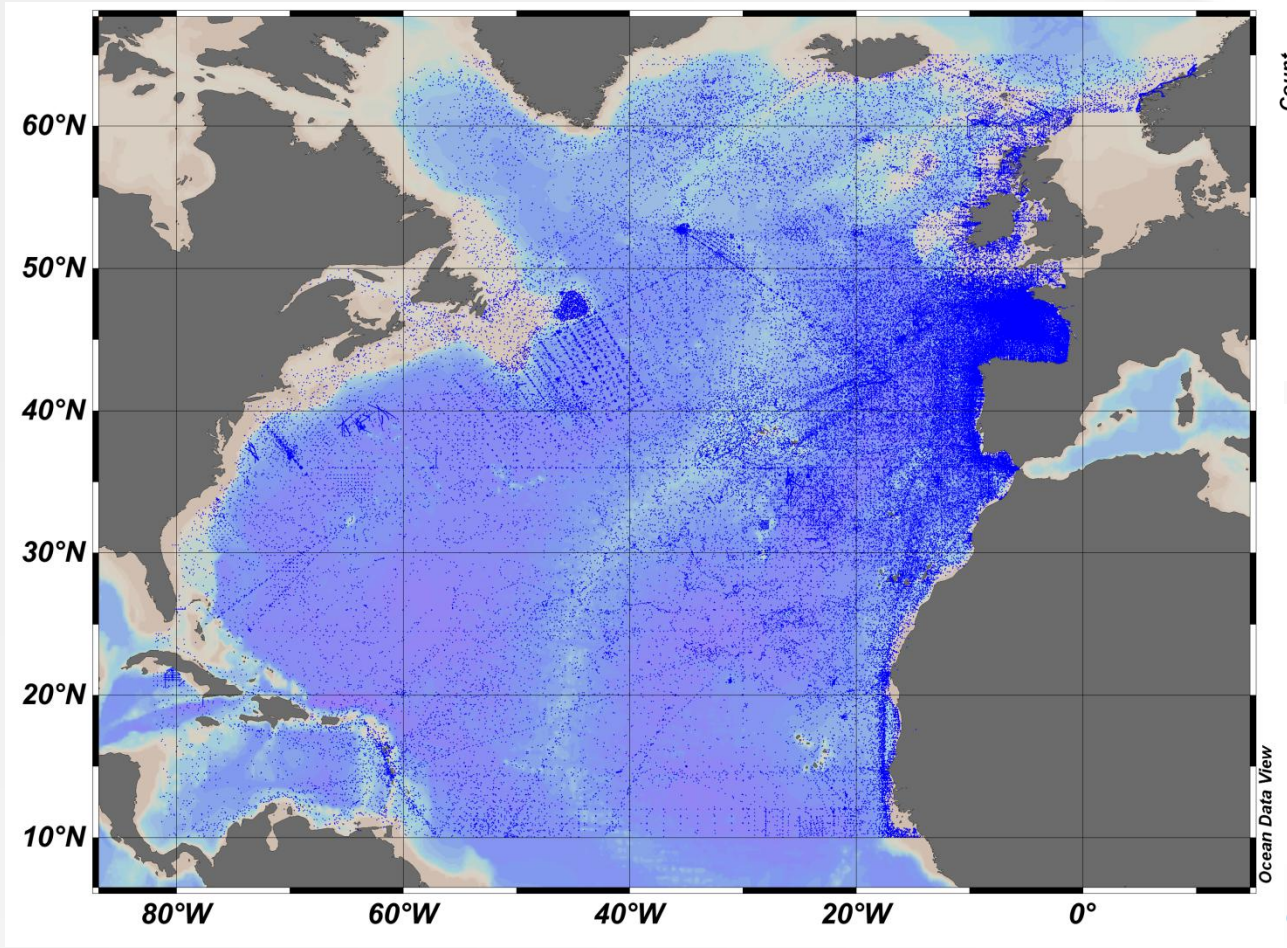
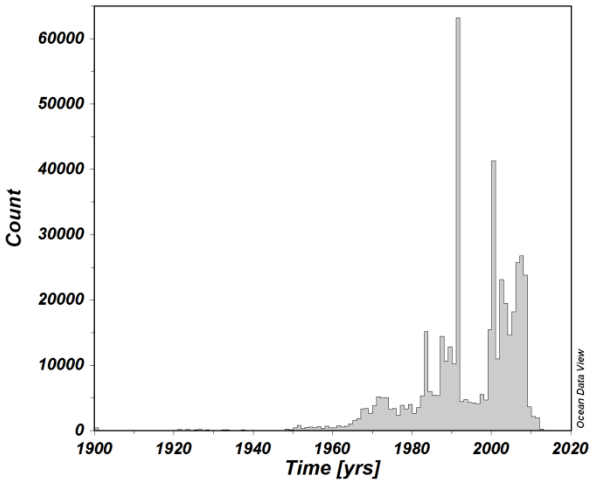
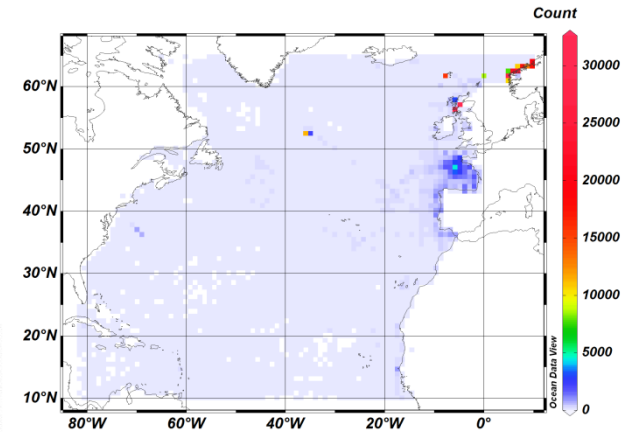
SeaDataNet

North Atlantic Area
1900-2012

SeaDataNet2 : 710039 stations







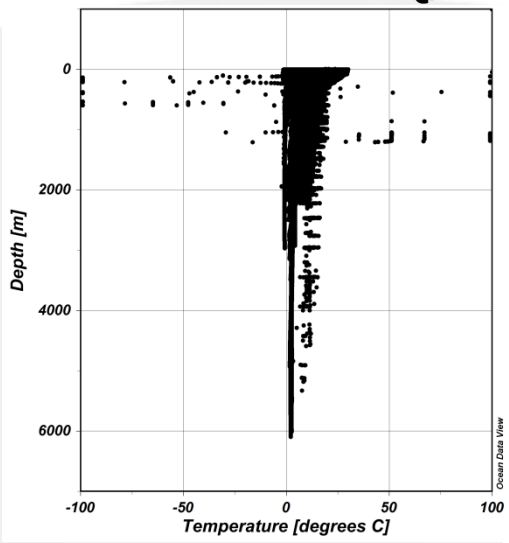
org

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

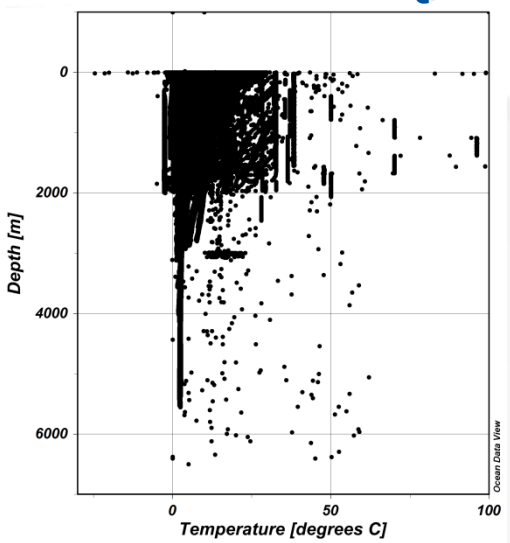
Ranges Z 0-6500m
T -2°C to 32°C
S 0 to 40 psu

SeaDataNet2 : 1990-2012 (1990-1999 & 2000-2012)

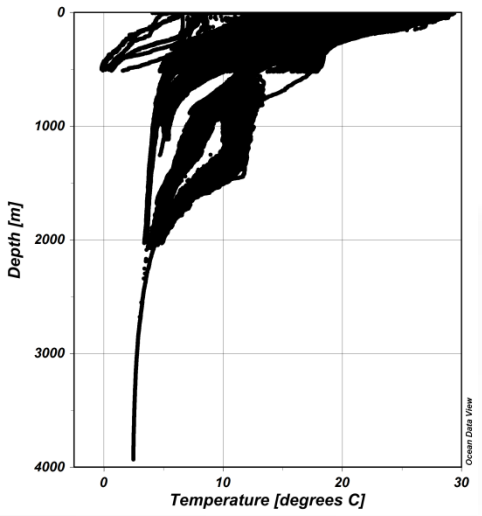
1990-1999 T All QC



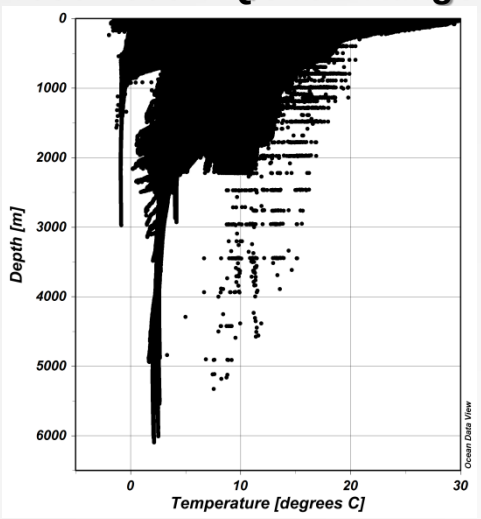
2000-2012 T All QC



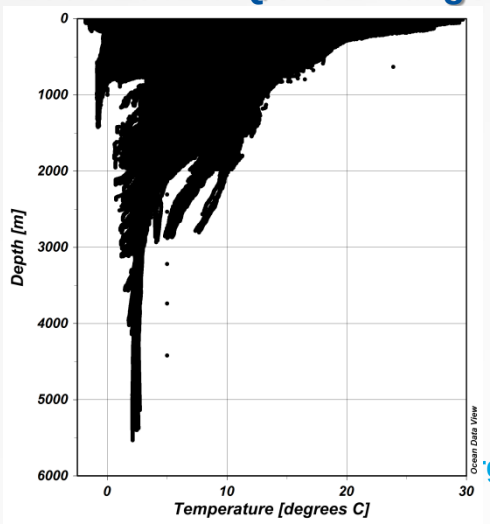
1990-1999 T QC 0



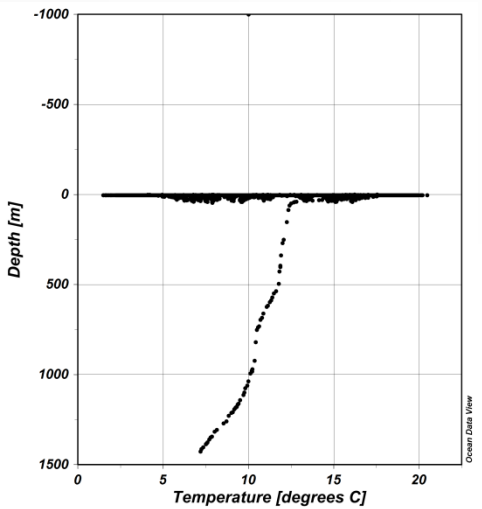
1990-1999 T QC1&2 Range



2000-2012 T QC1&2 Range



2000-2012 T QC 0



'g – www.seadatar

TEMPERATURE

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

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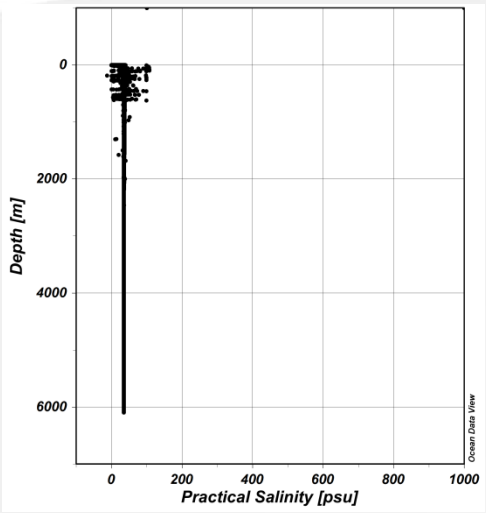
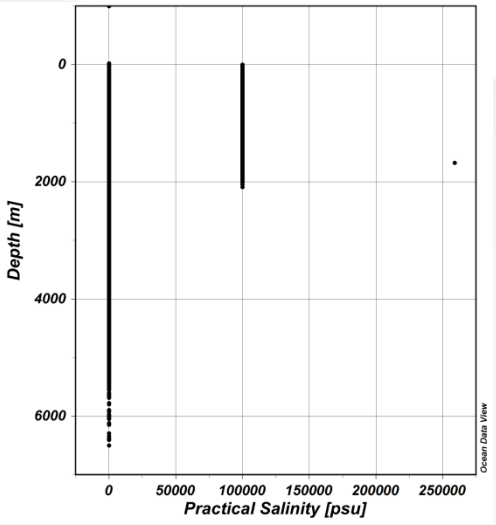
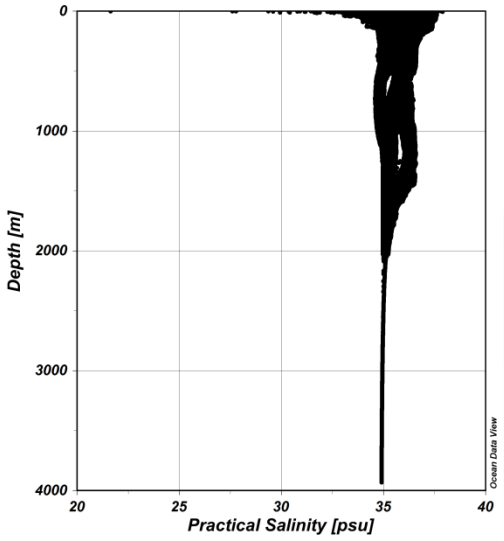
1990-1999 S All QC



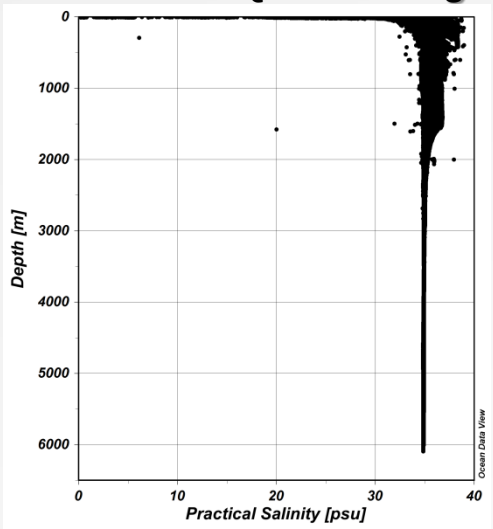
2000-2012 S All QC



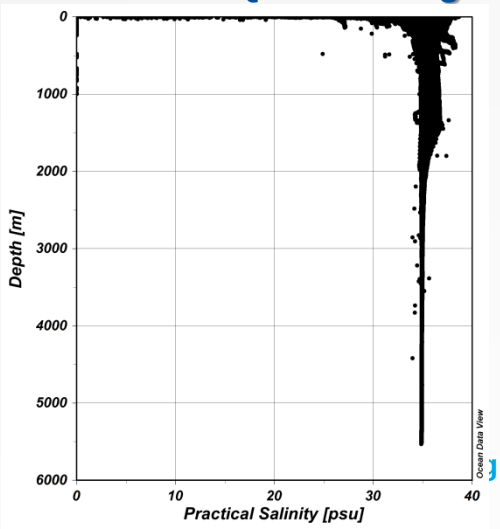
1990-1999 S QC 0



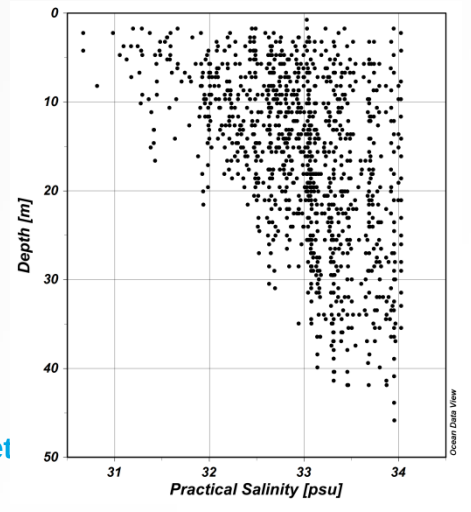
1990-1999 S QC1&2 Range



2000-2012 S QC1&2 Range



2000-2012 S QC 0



SALINITY

PAN-EUROPEAN INFRASTRUCTURE
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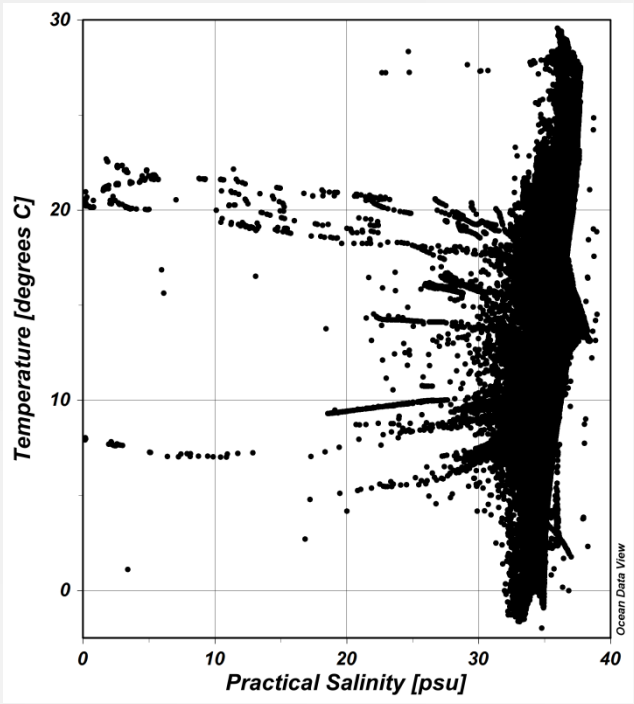
MANAGEMENT

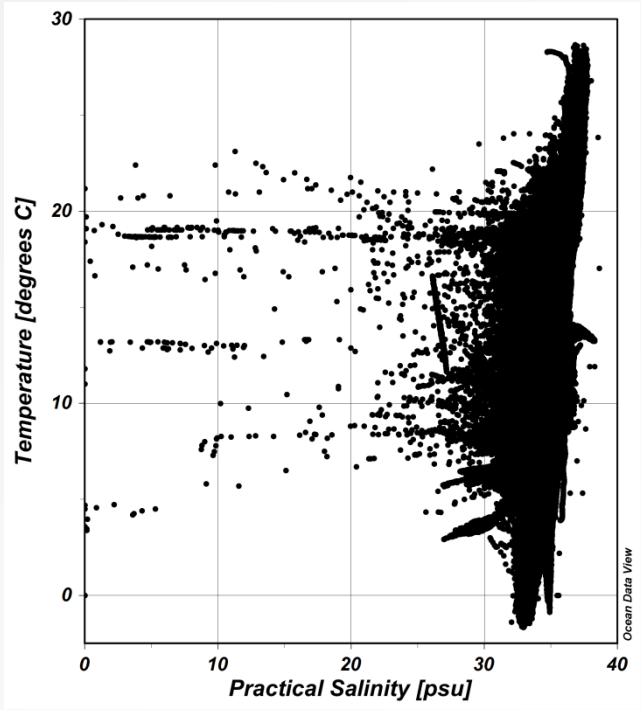
Ranges Z 0-6500m
T -2°C to 32°C
S 0 to 40 psu

SeaDataNet2 : 1990-2012 (1990-1999 & 2000-2012)

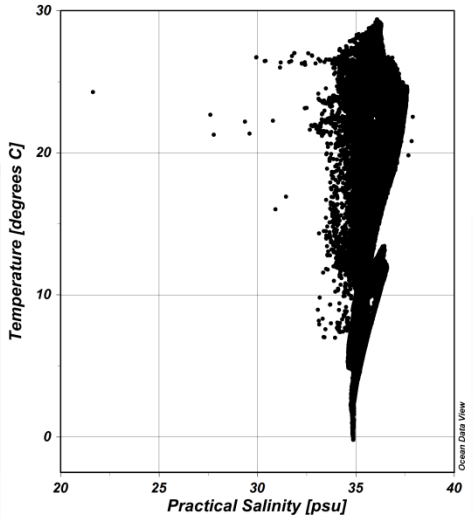
1990-1999 TS QC1&2 Range



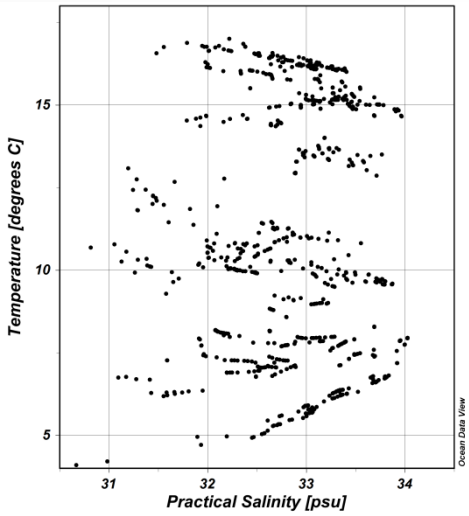
2000-2012 TS QC1&2 Range



1990-1999 TS QC0



2000-2012 TS QC0

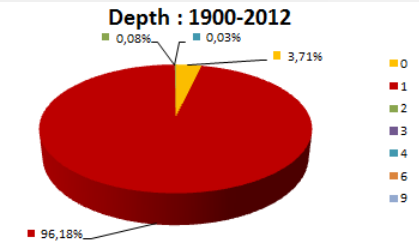


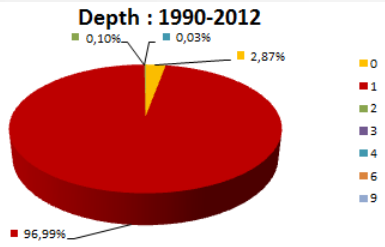
SDN2region 1900-2012

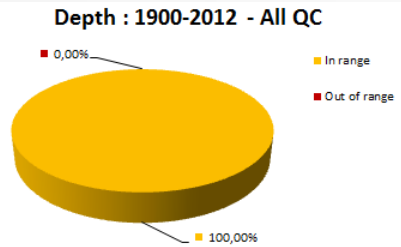
QC	0	1	2	3	4	6	9	Total	In range	Out of range	Total QC12	In range QC12	Out of range QC1
Depth	1332566	34589413	28822	901	11533	2	973	35964210	35963262	948	34618235	34618234	1
%	3,71	96,18	0,08	0,00	0,03	0,00	0,00	100%	99,997	0,003		100,000	0,000
Temperature	1118476	33445687	1139	55527	37169	0	6	34658004	34652071	5933	33446826	33446785	41
%	3,23	96,50	0,00	0,16	0,11		0,00	100%	99,983	0,017		100,000	0,000
Salinity	956923	27926194	48	44011	89267	0	7	29016450	28961232	55218	27926242	27925325	917
%	3,30	96,24	0,00	0,15	0,31		0,00	100%	99,810	0,190		99,997	0,003

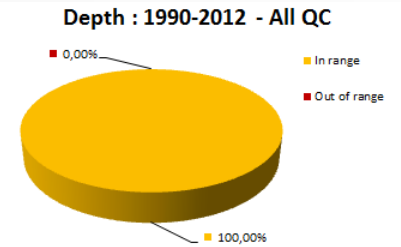
SDN2region 1990-2012

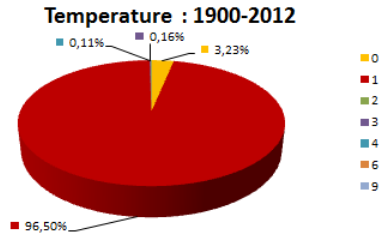
QC	0	1	2	3	4	6	9	Total	In range	Out of range	Total QC12	In range QC12	Out of range QC1
Depth	833719	28163053	28820	492	10135	0	881	29037100	29036547	553	28191873	28191872	1
%	2,87	96,99	0,10	0,00	0,03	0,00	0,00		99,998	0,002		100,000	0,000
Temperature	644093	27124534	451	14104	35443	0	6	27818631	27812737	5894	27124985	27124957	28
%	2,32	97,50	0,00	0,05	0,13	0,00	0,00		99,979	0,021		100,000	0,000
Salinity	472474	22671361	48	35520	79179	0	7	23258589	23203476	55113	22671409	22670493	916
%	2,03	97,48	0,00	0,15	0,34	0,00	0,00		99,763	0,237		99,996	0,004

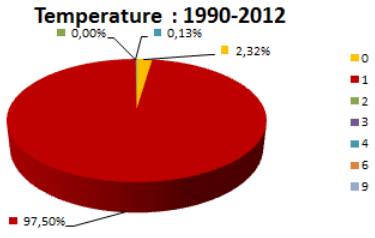


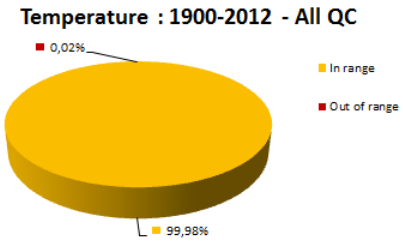


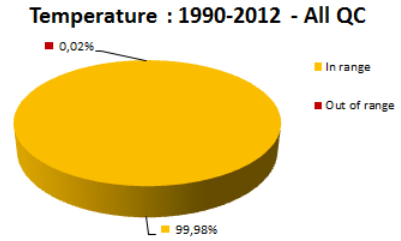


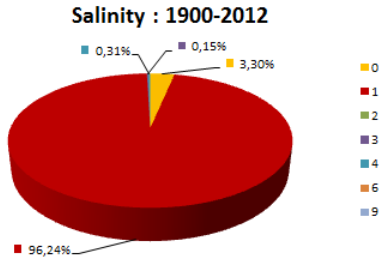


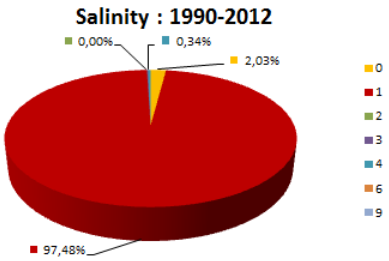


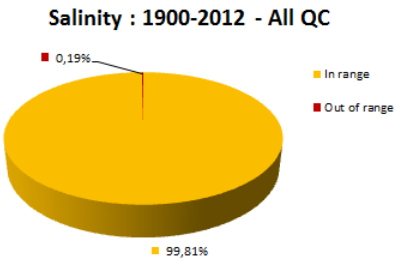


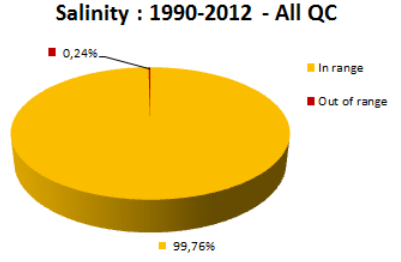












Flag Description	ODV	GTSPP	ARGO	SEADATANET	ESEAS	WOD	WODSTATION	WOCEBOTTLE	WOCECTD	WOCESAMPLE	QARTOD	BODC	PANGAEA	SMHI	OceanSITES
good quality	0	1	1	1	1	0	0	2	2	2	3	blank	blank	blank	1
unknown quality	1	0	0	0	0	0	0	2	2	2	0	blank	*	blank	0
questionable quality	4	3	3	3	3	4	3	3	3	7	2	K	?	?	3
bad quality	8	4	4	4	4	4	3	4	4	7	1	K	?	B	4

QC analysis results : First step

- **QC 0**

- 1900-2012 : 3,4% of measurements
- 1990-2012 : 2,4% of measurements

Question : QC 0=ODV QC? If yes, what about QC1

ODV QC 0 = good quality & 1 = unknown quality

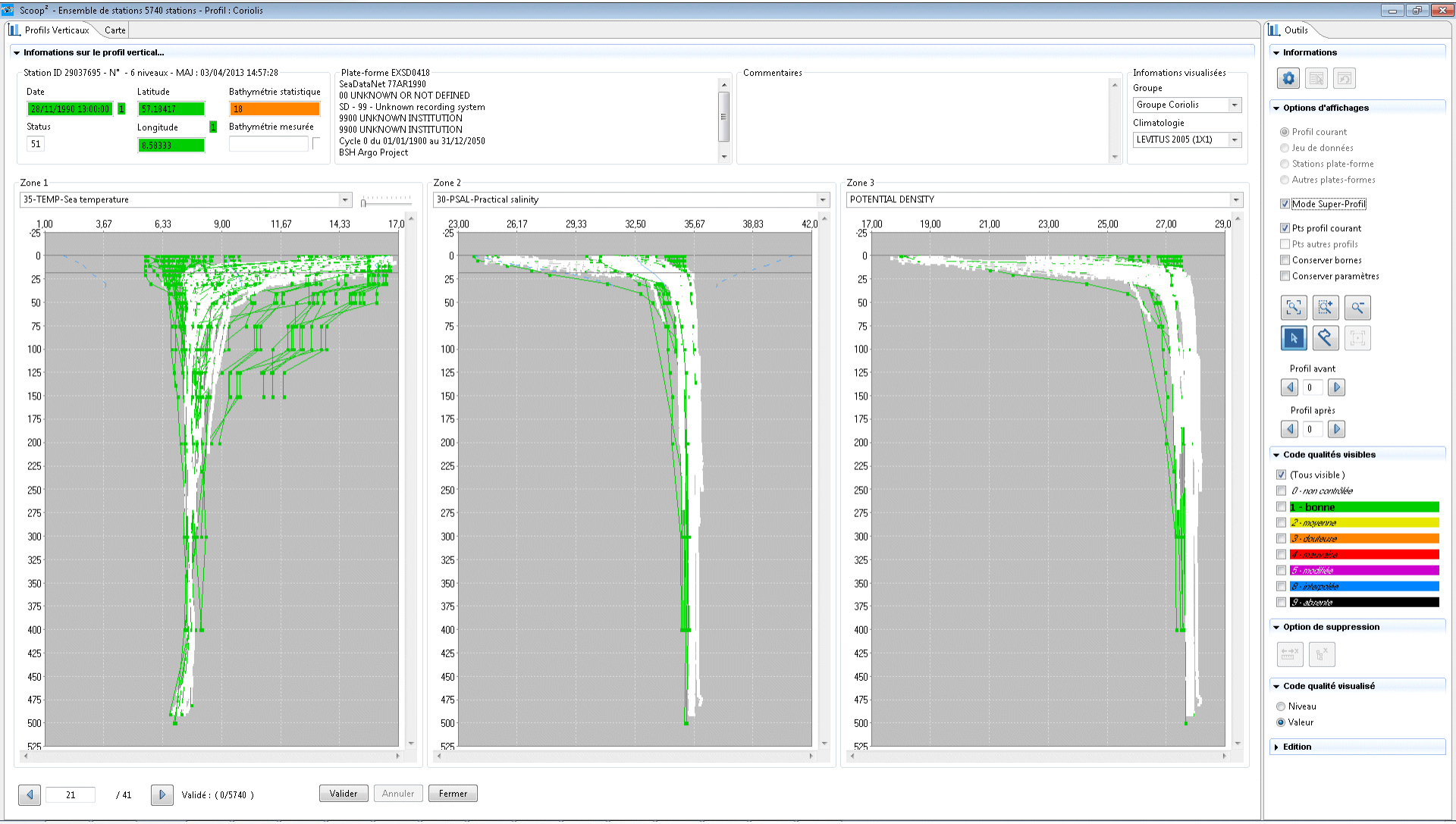
Mixing of QC 1& 0 for a same cruise

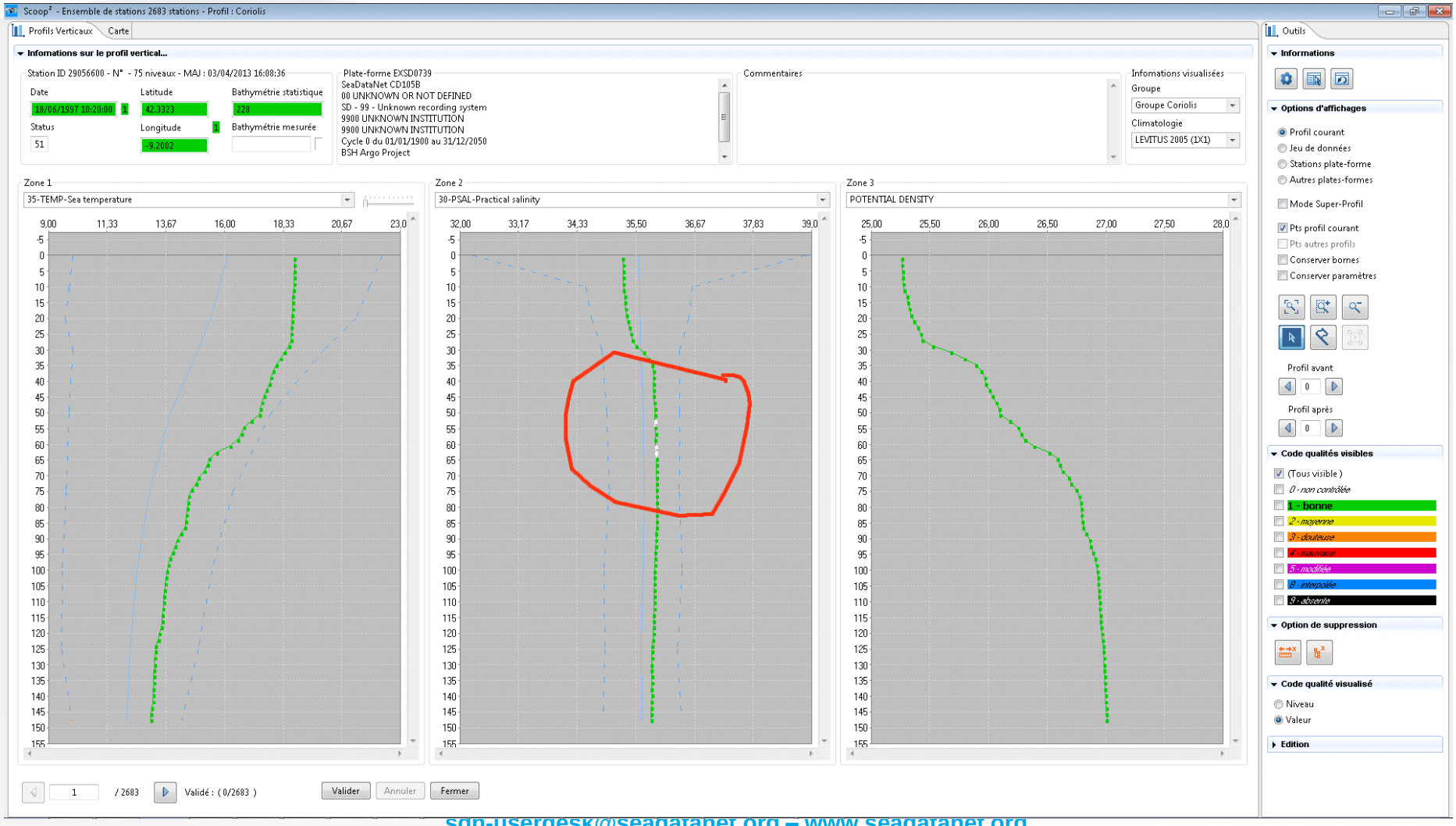
- **QC outliers** (take into account QC 1&2 for Z,T,S) : very short list

- 1900-2012 : Z=1 T=41 S=917 ← To be updated in QC4
- 1990-2012 : Z=1 T=28 S=916

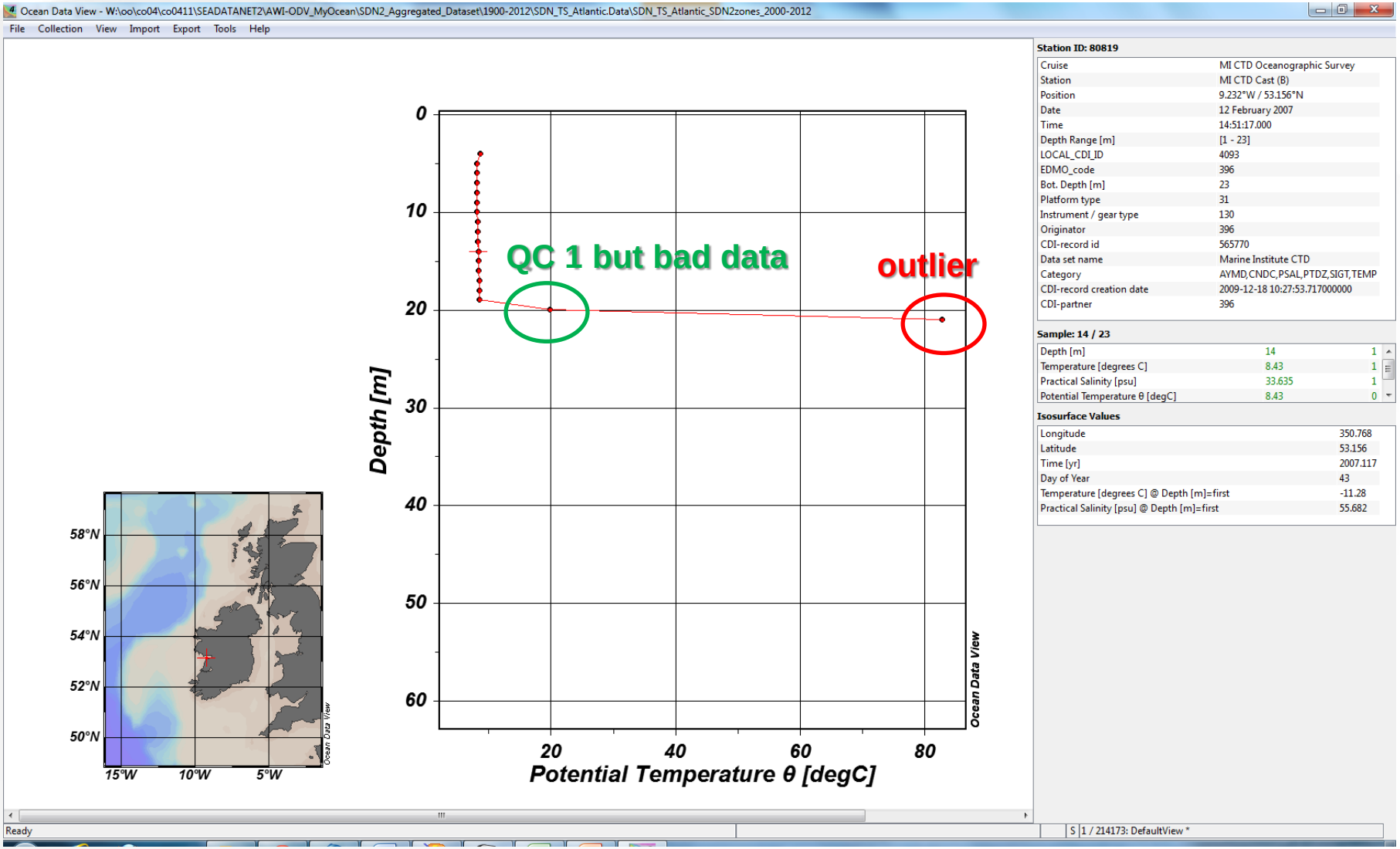
- Check others measurements on the profil where outliers are detected (see ex. after)

Green = QC 1
White = QC 0

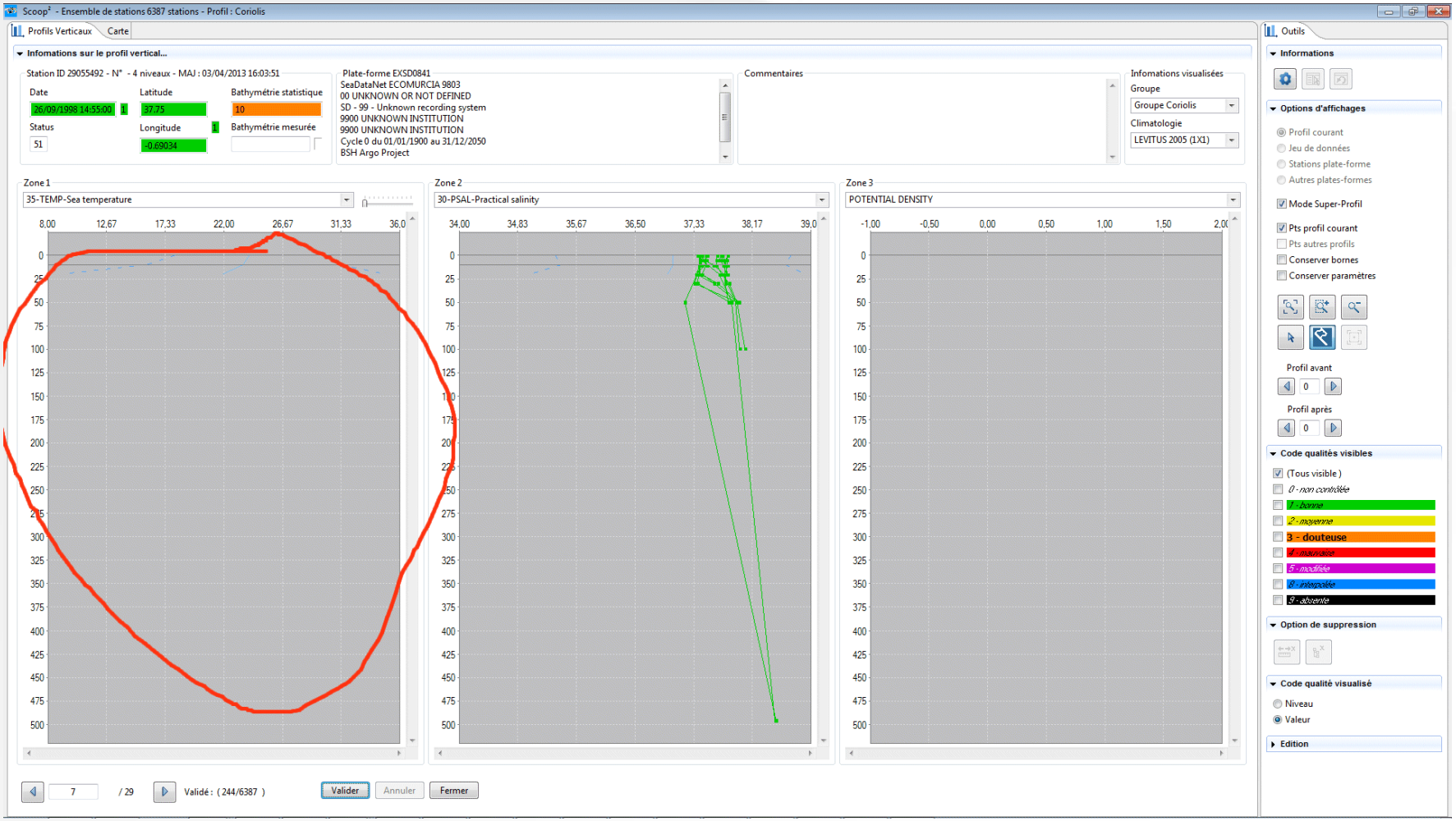



Scoop² - Ensemble de stations 2683 stations - Profil : Coriolis
Profils Verticaux
Carte
Outils
Informations sur le profil vertical...
Station ID 29056600 - N° - 75 niveaux - MAJ : 03/04/2013 16:08:36
Date
18/06/1997 10:20:00
Latitude
42.3323
Bathymétrie statistique
228
Status
51
Longitude
-9.2002
Bathymétrie mesurée
Plate-forme EXSD0739
SeaDataNet CD105B
00 UNKNOWN OR NOT DEFINED
SD - 99 - Unknown recording system
9900 UNKNOWN INSTITUTION
9900 UNKNOWN INSTITUTION
Cycle 0 du 01/01/1900 au 31/12/2050
BSH Argo Project
Commentaires
Informations visualisées
Groupe
Groupe Coriolis
Climatologie
LEVITUS 2005 (1X1)
Zone 1
35-TEMP-Sea temperature
Zone 2
30-PSAL-Practical salinity
Zone 3
POTENTIAL DENSITY
Informations
Options d'affichages
Profil courant
Jeu de données
Stations plate-forme
Autres plates-formes
Mode Super-Profil
Pts profil courant
Pts autres profils
Conserver bornes
Conserver paramètres
Profil avant
Profil après
Code qualités visibles
(Tous visible)
0 - non contrôlée
1 - bonne
2 - moyenne
3 - douteuse
4 - mauvaise
5 - modifiée
8 - interpolée
9 - absente
Option de suppression
Code qualité visualisé
Niveau
Valeur
Edition
1
/ 2683
Validé : (0/2683)
Valider
Annuler
Fermer

Anomalies – QC 1 and outliers



Station with only salinity parameter

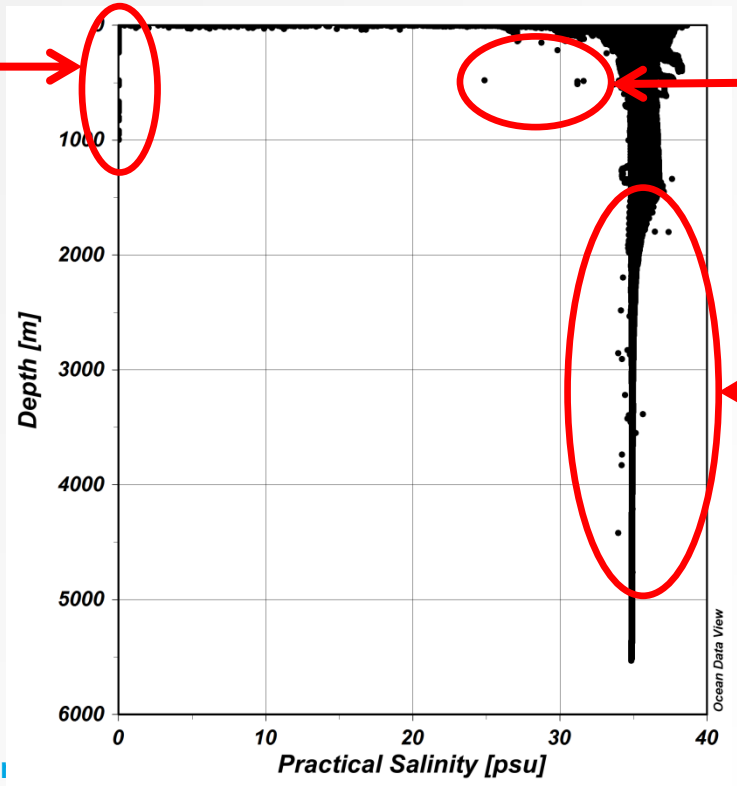


QC analysis results : Second step

- QC 1 & 2

- Existing spike, doubtful data, low value

Bad Salinity
0 psu



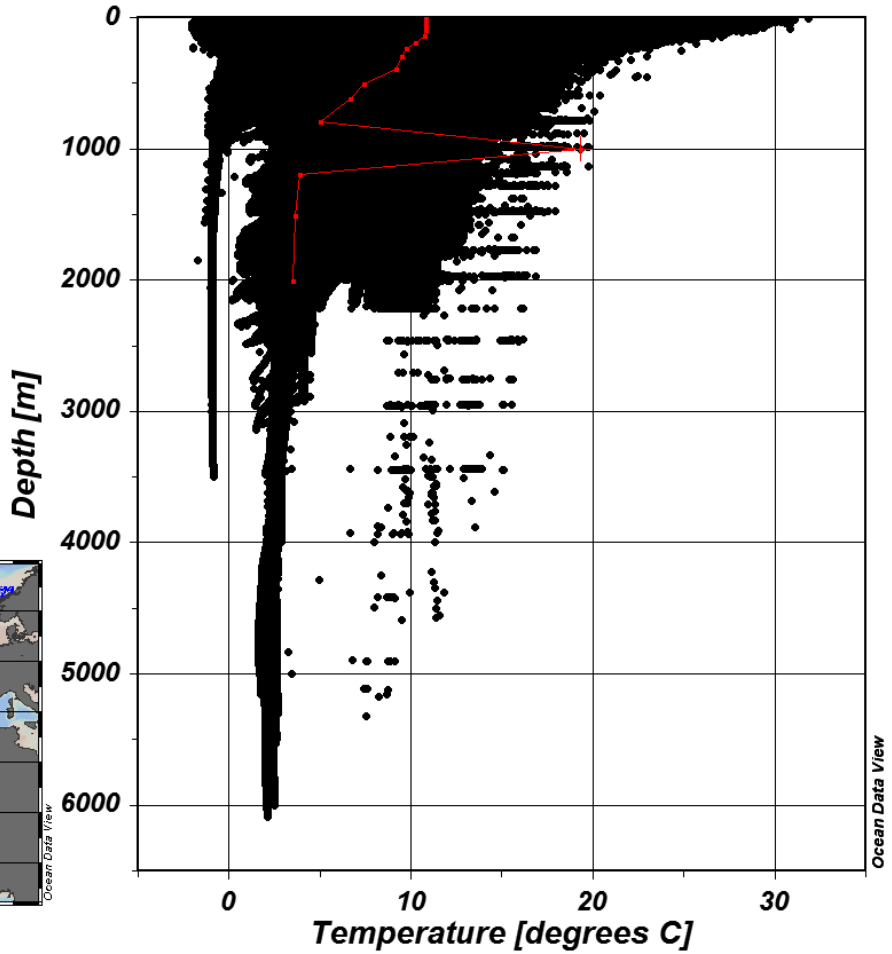
Doubtful
Salinity
low value

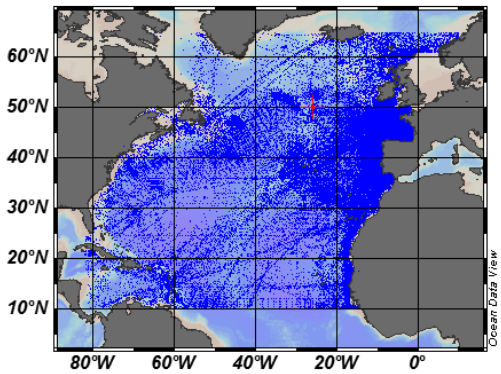
Doubtful
Salinity
Spike ?

Salinity and Depth
QC 1& 2
Range Check
SDN2 2000-2012

Ocean Data View - W:\oo\co04\co0411\SEADATANET2\AWI-ODV_MyOcean\SDN2_Aggregated_Dataset\1900-2012\SDN_TS_Atlantic.Data\data_from_SDN_TS_Atlantic_SDN2zones_1900-1999_correction

File Collection View Import Export Tools Help





Station ID: 31725

Cruise	18302
Station	43 (B)
Position	26°W / 50°N
Date	15 April 1990
Time	05:30:00.000
Depth Range [m]	[0 - 2011]
LOCAL_CDI_ID	RNODC_Bottle_18302_43
EDMO_code	681
Bot. Depth [m]	3820
Platform type	31
Instrument / gear type	30
Originator	931
CDI-record id	288200
Data set name	RNODC_Bottle_18302
Category	MPMN,TEMP,PSAL,DOXY
CDI-record creation date	2009-03-10 10:52:24.950000000
CDI-partner	681

Sample: 16 / 19

Depth [m]	1007	1
Temperature [degrees C]	19.32	2
Practical Salinity [psu]	34.904	1

Isosurface Values

Longitude	-26.000
Latitude	50.000
Time [yr]	1990.286
Day of Year	105
Temperature [degrees C] @ Depth [m]=first	10.83
Practical Salinity [psu] @ Depth [m]=first	35.505

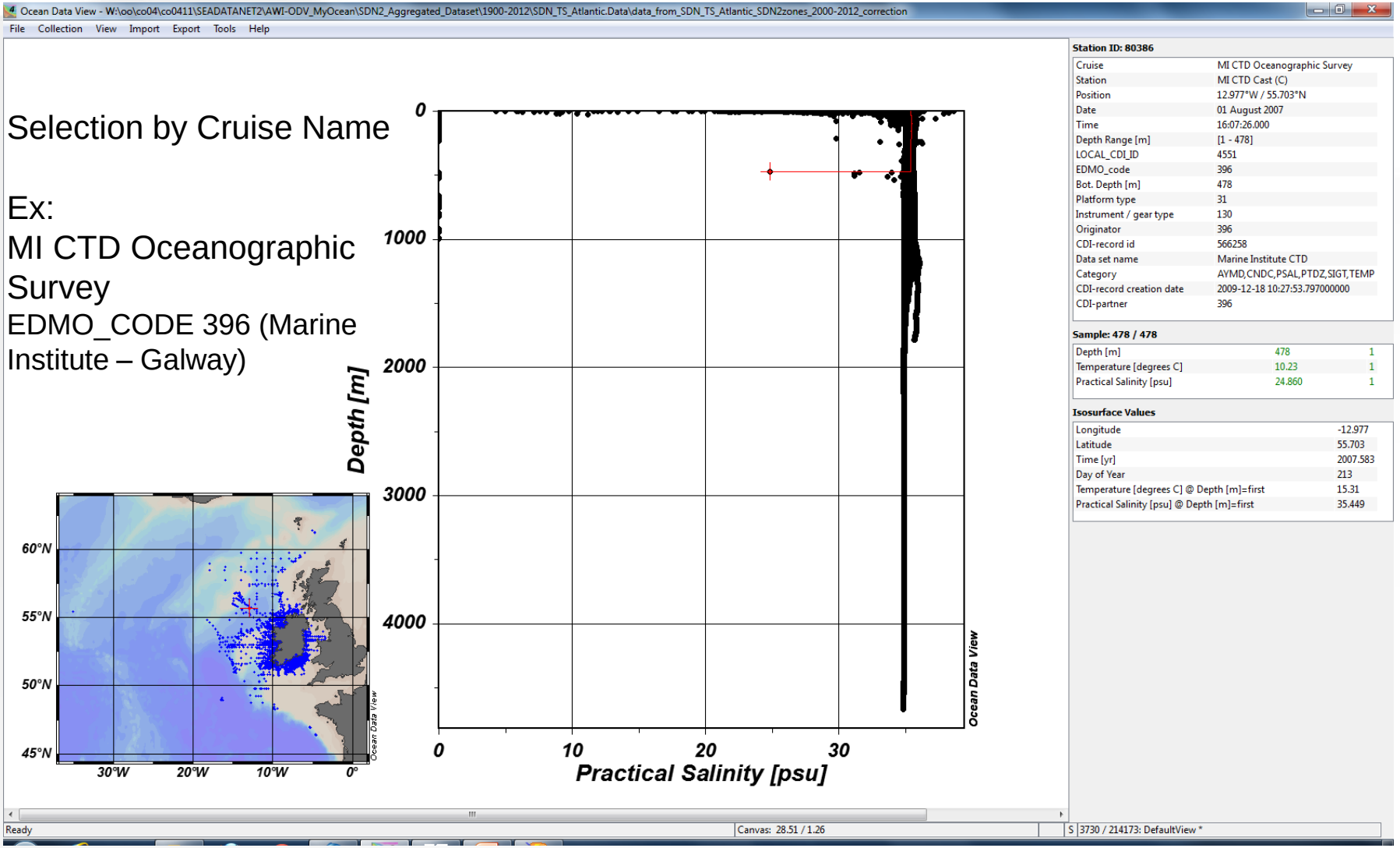
Ready

263466 / 263466: DefaultView *

QC analysis results : Second step

Selection by Cruise Name

Ex:
MI CTD Oceanographic Survey
EDMO_CODE 396 (Marine Institute – Galway)

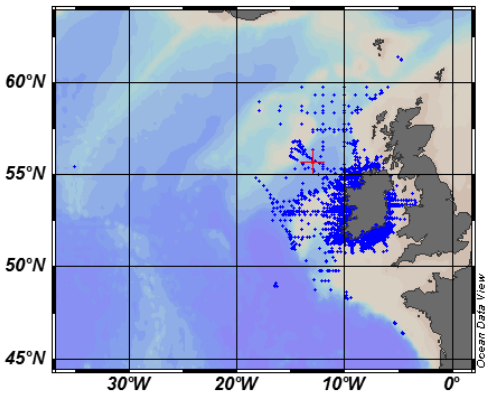


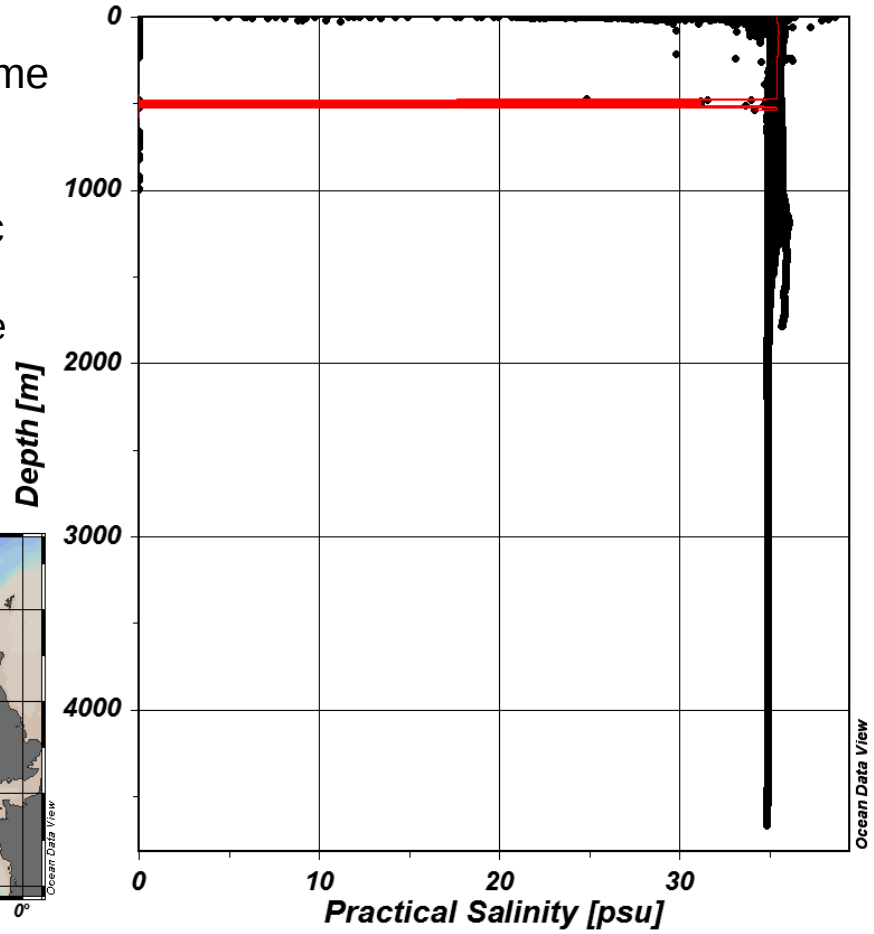
Ocean Data View - W:\oo\co04\co0411\SEADATANET2\AWI-ODV_MyOcean\SDN2_Aggregated_Dataset\1900-2012\SDN_TS_Atlantic.Data\data_from_SDN_TS_Atlantic_SDN2zones_2000-2012_correction

File Collection View Import Export Tools Help

Selection by Cruise Name

Ex:
MI CTD Oceanographic Survey
EDMO_CODE 396 (Marine Institute – Galway)





Station ID: 80387

Cruise	MI CTD Oceanographic Survey
Station	MI CTD Cast (C)
Position	12.976°W / 55.703°N
Date	01 August 2007
Time	15:01:23.000
Depth Range [m]	[1 - 543]
LOCAL_CDI_ID	4550
EDMO_code	396
Bot. Depth [m]	543
Platform type	31
Instrument / gear type	130
Originator	396
CDI-record id	566257
Data set name	Marine Institute CTD
Category	AYMD,CNDC,PSAL,PTDZ,SIGT,TEMP
CDI-record creation date	2009-12-18 10:27:53.797000000
CDI-partner	396

Sample: 1042 / 1086

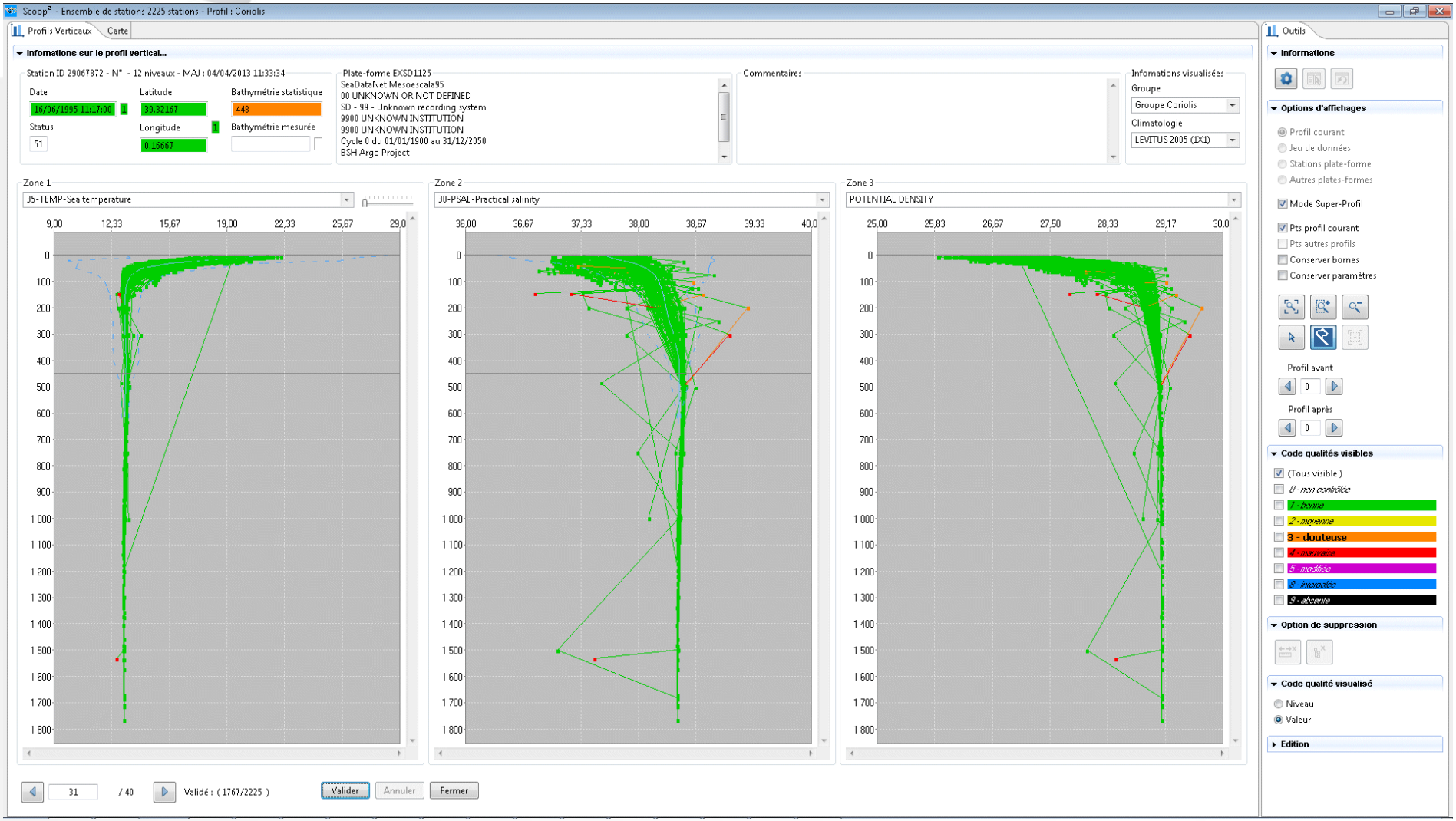
Depth [m]	521	1
Temperature [degrees C]	0.00	1
Practical Salinity [psu]	0.000	1

Isosurface Values

Longitude	-12.976
Latitude	55.703
Time [yr]	2007.583
Day of Year	213
Temperature [degrees C] @ Depth [m]=first	15.30
Practical Salinity [psu] @ Depth [m]=first	35.449

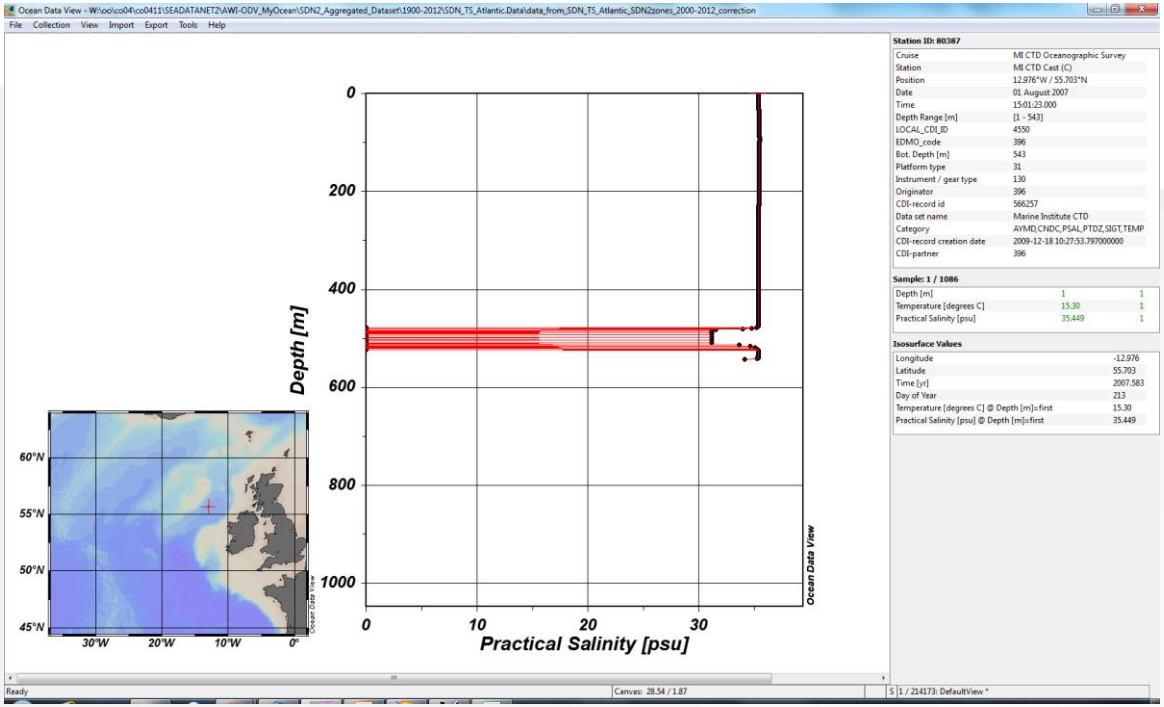
Ready

S 3730 / 214173: DefaultView *


Scoop² - Ensemble de stations 2225 stations - Profil : Coriolis
Profils Verticaux
Carte
Outils
Informations sur le profil vertical...
Station ID 29067872 - N° - 12 niveaux - MAJ : 04/04/2013 11:33:34
Date
16/06/1995 11:17:00
Latitude
39.32167
Bathymétrie statistique
448
Status
51
Longitude
0.16667
Bathymétrie mesurée
Plate-forme EXSD1125
SeaDataNet Mesoescala95
00 UNKNOWN OR NOT DEFINED
SD - 99 - Unknown recording system
9900 UNKNOWN INSTITUTION
9900 UNKNOWN INSTITUTION
Cycle 0 du 01/01/1900 au 31/12/2050
BSH Argo Project
Commentaires
Infomations visualisées
Groupe
Groupe Coriolis
Climatologie
LEVITUS 2005 (1X1)
Zone 1
35-TEMP-Sea temperature
Zone 2
30-PSAL-Practical salinity
Zone 3
POTENTIAL DENSITY
Informations
Options d'affichages
Profil courant
Jeu de données
Stations plate-forme
Autres plates-formes
Mode Super-Profil
Pts profil courant
Pts autres profils
Conserver bornes
Conserver paramètres
Profil avant
Profil après
Code qualités visibles
(Tous visible)
0 - non contrôlée
1 - bonne
2 - moyenne
3 - douteuse
4 - mauvaise
5 - modifiée
8 - interpolée
9 - absente
Option de suppression
Code qualité visualisé
Niveau
Valeur
Edition
31
/ 40
Validé : (1767/2225)
Valider
Annuler
Fermer

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

SeaDataNet



Station ID: 80387

Cruise	MI CTD Oceanographic Survey
Station	MI CTD Cast (C)
Position	12.976°W / 55.703°N
Date	01 August 2007
Time	15:01:23.000
Depth Range [m]	[1 - 543]
LOCAL_CDI_ID	4550
EDMO_code	396
Bot. Depth [m]	543
Platform type	31
Instrument / gear type	130
Originator	396
CDI-record id	566257
Data set name	Marine Institute CTD
Category	AYMD,CNDC,PSAL,PTDZ,SIGT,TEMP
CDI-record creation date	2009-12-18 10:27:53.797000000
CDI-partner	396

Sample: 1 / 1086

Depth [m]	1	1
Temperature [degrees C]	15.30	1
Practical Salinity [psu]	35.449	1

Isosurface Values

Longitude	-12.976
Latitude	55.703
Time [yr]	2007.583
Day of Year	213
Temperature [degrees C] @ Depth [m]=first	15.30
Practical Salinity [psu] @ Depth [m]=first	35.449

Sample: 2 / 1086

Depth [m]	1	1
Temperature [degrees C]	15.30	1
Practical Salinity [psu]	35.449	1

Isosurface Values

Longitude	-12.976
Latitude	55.703
Time [yr]	2007.583
Day of Year	213
Temperature [degrees C] @ Depth [m]=first	15.30
Practical Salinity [psu] @ Depth [m]=first	35.449

Sample: 3 / 1086

Depth [m]	2	1
Temperature [degrees C]	15.30	1
Practical Salinity [psu]	35.450	1

Isosurface Values

Longitude	-12.976
Latitude	55.703
Time [yr]	2007.583
Day of Year	213
Temperature [degrees C] @ Depth [m]=first	15.30
Practical Salinity [psu] @ Depth [m]=first	35.449

Sample: 4 / 1086

Depth [m]	2	1
Temperature [degrees C]	15.30	1
Practical Salinity [psu]	35.450	1

Isosurface Values

Longitude	-12.976
Latitude	55.703
Time [yr]	2007.583
Day of Year	213
Temperature [degrees C] @ Depth [m]=first	15.30
Practical Salinity [psu] @ Depth [m]=first	35.449

SeaDataNet QC update

TEMP QC									
2000-2012									
Cruise	LOCAL_CDI_ID	EDMO_CODE	Originator	Data set name	CDI-record id	ODV_station_id	Level	Old_QC	New_QC
09-220	1844_000130_H10	422	null	null	null	10666	All	1	4
64PE229	CTDCAST_105__204	630	630	64PE229_105__204	1446	14857	630	1	4
MI CTD Oceanographic survey	4093	396	396	Marine Institute CTD	565770	49409	[1:3] [20:23]	1	4
MI CTD Oceanographic survey	5327	396	396	Marine Institute CTD	567064	48294	[2:19]	1	4
MI CTD Oceanographic survey	1807	396	396	Marine Institute CTD	564113	50731	all TEMP=0 in [31:69]	1	4
MI CTD Oceanographic survey	713	396	396	Marine Institute CTD	567687	47767	384	1	4
MI CTD Oceanographic survey	4550	396	396	Marine Institute CTD	566257	48977	all TEMP=0 in [479:524] measure in double for each level	1	4
MI CTD Oceanographic survey	5592	396	396	Marine Institute CTD	567317	48090	392	1	4
MI CTD Oceanographic survey	4187	396	396	Marine Institute CTD	565868	49321	all TEMP=0 in [796:827]	1	4
MI CTD Oceanographic survey	4192	396	396	Marine Institute CTD	565873	49317	l TEMP=0 in [663:709] & [918:94	1	4
MI CTD Oceanographic survey	4855	396	396	Marine Institute CTD	566561	48738	all TEMP=0 in [991:996]	1	4
MI CTD Oceanographic survey	3897	396	396	Marine Institute CTD	565560	49596	all TEMP=0 in [672:718]	1	4

Aggregated dataset – List of outliers : text file

Outlier-Scan (scanMode=0): varID=3 Practical Salinity [psu] [0 - 40]
statID valID smplID Value QF <Cruise Station Type>

Outlier-Scan (scanMode=0):		varID=3	Practical Salinity [psu]	[0 - 40]	
statID	valID	smplID	Value	QF	<Cruise Station Type>
7629	7629	24	41.67	1	<02-030 000230 (C)>
8897	8897	57	40.339	1	<05-490 00ZG02 (C)>
8897	8897	59	44.606	1	<05-490 00ZG02 (C)>
8897	8897	60	42.899	1	<05-490 00ZG02 (C)>
8897	8897	61	51.891	1	<05-490 00ZG02 (C)>
8897	8897	62	49.852	1	<05-490 00ZG02 (C)>
8897	8897	63	64.521	1	<05-490 00ZG02 (C)>
8897	8897	64	62.389	1	<05-490 00ZG02 (C)>
8897	8897	65	87.006	1	<05-490 00ZG02 (C)>
8897	8897	66	85.118	1	<05-490 00ZG02 (C)>
8897	8897	67	99	1	<05-490 00ZG02 (C)>
8897	8897	68	99	1	<05-490 00ZG02 (C)>
8897	8897	69	99	1	<05-490 00ZG02 (C)>
8897	8897	70	99	1	<05-490 00ZG02 (C)>
8897	8897	71	99	1	<05-490 00ZG02 (C)>
9089	9089	37	53.728	1	<06-040 000120 (C)>
9089	9089	38	63.996	1	<06-040 000120 (C)>
9089	9089	39	99	1	<06-040 000120 (C)>
9089	9089	40	99	1	<06-040 000120 (C)>
9089	9089	41	99	1	<06-040 000120 (C)>
10666	10666	1	1999	1	<09-220 000130 (C)>
10666	10666	2	204.101	1	<09-220 000130 (C)>
10666	10666	3	291.055	1	<09-220 000130 (C)>
10666	10666	4	1999	1	<09-220 000130 (C)>
10666	10666	5	530.044	1	<09-220 000130 (C)>
10666	10666	6	1999	1	<09-220 000130 (C)>
10666	10666	7	1218.77	1	<09-220 000130 (C)>
10666	10666	8	1999	1	<09-220 000130 (C)>
10666	10666	9	1999	1	<09-220 000130 (C)>
10666	10666	10	1999	1	<09-220 000130 (C)>
10666	10666	11	1999	1	<09-220 000130 (C)>
10666	10666	12	1999	1	<09-220 000130 (C)>
10666	10666	13	1999	1	<09-220 000130 (C)>
10666	10666	14	1999	1	<09-220 000130 (C)>
10666	10666	15	1999	1	<09-220 000130 (C)>
10666	10666	16	1999	1	<09-220 000130 (C)>
10666	10666	17	1999	1	<09-220 000130 (C)>
10666	10666	18	1999	1	<09-220 000130 (C)>
10666	10666	19	1999	1	<09-220 000130 (C)>
10666	10666	20	1999	1	<09-220 000130 (C)>
10666	10666	21	1999	1	<09-220 000130 (C)>
10667	10667	46	40.348	1	<09-220 000215 (C)>
10667	10667	48	69.589	1	<09-220 000215 (C)>
10667	10667	49	68.063	1	<09-220 000215 (C)>
10667	10667	50	126.512	1	<09-220 000215 (C)>
10667	10667	51	125.002	1	<09-220 000215 (C)>
10667	10667	52	251.516	1	<09-220 000215 (C)>
10667	10667	53	249.915	1	<09-220 000215 (C)>
10667	10667	54	577.577	1	<09-220 000215 (C)>
10668 ,,,,,,,,,,,,,,,					

PSAL
out of range 0-40

But for feedback to NODC SDN, LOCAL_ID & EDMO_CODE are needed

Log of modification of QC from ODV

2013-03-06T17:03:50	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {125.9:1} -> 4
2013-03-06T17:03:54	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {124.9:1} -> 4
2013-03-06T17:04:01	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {121.9:1} -> 4
2013-03-06T17:04:04	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {121:1} -> 4
2013-03-06T17:04:08	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {120:1} -> 4
2013-03-06T17:04:13	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {119:1} -> 4
2013-03-06T17:04:18	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {117:1} -> 4
2013-03-06T17:04:22	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {116:1} -> 4
2013-03-06T17:04:26	ccoatano@NTSISM75	EDITFLAGS	<28213: FLEMISH CAP 1991 01160 (C)>	Practical Salinity [psu] @ Depth [m] = {115:1} -> 4
2013-03-06T17:07:18	ccoatano@NTSISM75	EDITFLAGS	<9721: 18232 37 (B)>	Practical Salinity [psu] @ Depth [m] = {802:1} -> 4
2013-03-06T17:08:43	ccoatano@NTSISM75	EDITFLAGS	<11407: 18844 69 (B)>	Practical Salinity [psu] @ Depth [m] = {786:1} -> 4
2013-03-07T08:54:57	ccoatano@NTSISM75	EDITFLAGS	<10746: 18397 56 (B)>	Practical Salinity [psu] @ Depth [m] = {1007:1} -> 4
2013-03-07T08:57:00	ccoatano@NTSISM75	EDITFLAGS	<10728: 18397 38 (B)>	Practical Salinity [psu] @ Depth [m] = {599:1} -> 4

But for feedback to NODC SDN : LOCAL_ID & EDMO_CODE are needed

Feedback from MyOcean to SeaDataNet

"station_id" contain sdn_local_cdi_id and sdn_edmo_code, the separator is blank (“ “)
"platform_code" contain the sdn_cruise identifier

Example (sdn_local_cdi_id=98959 ; sdn_edmo_code=729 ; sdn_cruise=0) :

station_id,platform_code,station_date_start,station_date_stop,update_date,parameter,qc_action, old_qc,new_qc,vertical_reference_start,vertical_reference_stop
98959 729,0,2001-04-25T06:26:00Z,2001-04-25T06:26:00Z,2013-04-04T16:04:03Z,TEMP,Spike,1,4,1.17,1.6