IBI-ROOS area SeaDataNet and MyOcean

ibi-roos area : seadatanet and myocean data

In February 2013, SeaDataNet provided an in-situ dataset

- Area : IBI-ROOS (Ireland Biscay Iberia)
- Period :1990 to 2012
- Parameters : temperature and salinity only
- 284 073 vertical profiles

Profiles as distinct local_cdi_id



IBI-Roos tasks on SeaDataNet data

- The IBI-ROOS TAC performed the following tasks
 - Creation of 1700 pseudo platform codes from SeaDataNet cruise IDs
 - A total of 9 889 CTDs and 127 211 bottles where identified as new data. We ignored the SHOM data as a direct integration is underway.
 - A first visual quality control was performed on the new profiles with Scoop QC tool on the 1990-1999 period
 - A first QC feedback to SeaDataNet is available

IBI-Roos remaining tasks

- Perform a visual QC on 2000-2012 period and provide feedback
- Investigate the SeaDataNet profiles reporting the same platform-date-position-instrument (13 961 : about 5% of the profiles)
- Perform analysis on 1990-2012 period before addition into CORA dataset and provide additional feedback to SeaDataNet

New profiles : CTDs and bottles



New profiles by provider (edmo)



New CTDs by provider (edmo)



IBI-Roos existing profiles (no bottles)



Height issues

- 1: Many profiles have salinity but no temperature Many profiles have no temperature and no salinity
- 2 : In the ODV file the vertical reference is immersion.
 We need the original measurement : pressure for CTDs.
 This is crucial for MyOcean users.
- 3 : For XBTs we need the WMO instrument type and the fall rate equation. This is crucial for MyOcean users.
- 4 : In addition to the cruise ID, we need a platform code for each profile. This is crucial for MyOcean data managers.

Height issues

- 5 : We need to know whether CTDs are calibrated.
 What is the error on measurement ?
 Modelers want to know the error on any data, particularly on calibrated data.
- 6 : A fair number of QC 0 (no control) are mixed with QC 1 (good). Should we change 0 into 1 ?
- 7: some immersions are duplicated

Height issues

ibi-roos area : seadatanet and myocean data

• 8 : The great majority of profiles is well quality controlled.

However, a visual inspection is still needed. QC flags changed on 0.5 % of the profiles on period 1990-1999 (452/96 263 profiles).

Objective analysis may raise further inspections.

Mixed profiles and spike



Dubious salinities

-

Scoop ² - Ensemble de stations 1037 stations - Profil : Coriolis				
Profils Verticaux Carte				
✓ Infomations sur le profil vertical			✓ Informations	
Station ID 28979727 - N" - 47 niveaux - MAJ : 03/04/2013 13:00:10 Date Latitude Bathymétrie statistique 20/03/1992 14:41:00 1 41:924 97 Status Longitude 1 Bathymétrie mesurée 51 -6.95166 - -	Plate-forme EXSD1514 SeoDataNet PROSARP 0392 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) • • Jeu de données Stations plate-forme	e
Zone 1	Zone 2	Zone 3	 Autres plates-formes 	5
35-TEMP-Sea temperature	O O	POTENTIAL DENSITY	Mode Super-Profil	
10.00 10.83 11.67 12.50 13.33 0 50 50 50 50 50 50 200 250 300 350 400 450 500 500 600	14,17 15,0 33,00 33,67 34,33 0 50 100 150 200 250 300 350 400 400 400 550 550 550 550 550 550 5		26.50 27.00 27.50 28.0 * V Pts profil courant Pts autres profils Conserver paramètre Conserver paramètre Con	s on é
	Valider Annuler Fermer			

Suspicious profile

	un la manfil u	a later a t																			(Informations
						EUCDA EA															+ mormations
ition ID 2897	0510 - N°	1 niveaux - MA	J: 03/04/2013	12:49:14	SeaData	Net PROSARF	0392					Commenta	aires					~	Infomations vi Groupe	sualisees	
te		Latitude	Bathy	metrie statistique	00 UNK	NOWN OR NO	T DEFINED				ſ								Groupe Coric	lis +	- Ontione d'affichages
100/1002 1	0.40.00	Longitude	Bathy	métrie mesurée	9900 UN	KNOWN INS	ITUTION				1	11							Climatologie		· options d'unichages
		-2.66382	a builty		Cycle 0	du 01/01/1900	au 31/12/2050				-								LEVITUS 2005	(1X1) =	Profil courant
					BSH Arg	o Project						-						-			Stations plate-forme
1							Zone 2							Zone 3							Autres plates-formes
EMP-Sea	emperature				- 11	annai.	30-PSAL-Pra	ctical salinity					*	POTENTIAL	DENSITY					*	Mode Super-Profil
200	12 17	12 33	12.50	12.67	12.83	13.0 ^	35.00	35.17	35.33	35.50	35.67	35.83	36.0 ^	26.00	26.33	26.67	27.00	27 33	27.67	28.0 ^	
1	12,17	12,00	12,50	12,07	12,00	13.0	-5	33,17	33,35	55,50	33,07	55,05	50.0	-5	20,00	20,07	27,00	27.55	27,07	20.0	Pts profil courant
			-				0							0							Conserver bornes
							5							5							Conserver paramètres
							10							10							
							20							20							8 8 9
							25							25						commenter :	
							30							30							
							35							35							Profil avant
							40						11.00.000	40						and the second se	0
						0000000000 Anno 10000	40 50						97094000	40 50						Contracting and	Profil après
							55							55							
-							60							60							
							65							65							Code qualites visibles
							70							70 -							(lous visible)
							80							80							T-bonne
							85							85							2-moyenne
							90							90							3 - douteuse
						da.com	95 -						11111111	95 -							4 manuare
							100						10024375	100							S manualia
							105							105							9 - absente
							115							115							Outling do annual t
							120							120							Option de suppression
							125							125 130		1					terr and a second seco
1							135							135 -			1				✓ Code qualité visualisé
							140				and the second			140							Niveau
							145							145							Valeur
						*	150						-	150						-	Edition
						*	*						F	*						- F	1 h

Salinity but no temperature



Atypical density



Dubious immersion



Spikes

- 1



Bottom errors

.....



Instrument failure

.....



Noisy data



Good and uncontrolled data



Good and uncontrolled data

....

