



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

MyOcean data collection & Release v1.2

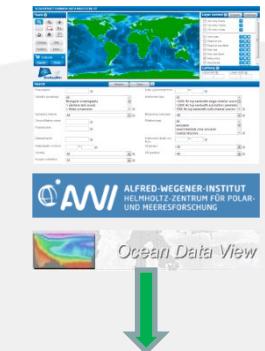
Christine Coatanoan & Thierry Carval, WP10 Meeting, Athens, 08th April 2015



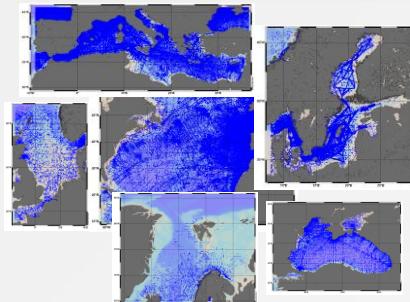
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Flux SeaDataNet - MyOcean



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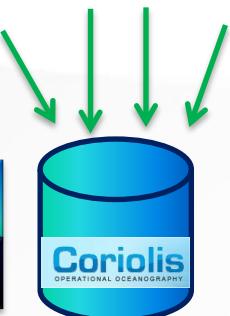
Time period 1990-2012
Regional dataset

E x c h a n g e

MyOcean

Only new data

MyOcean DU

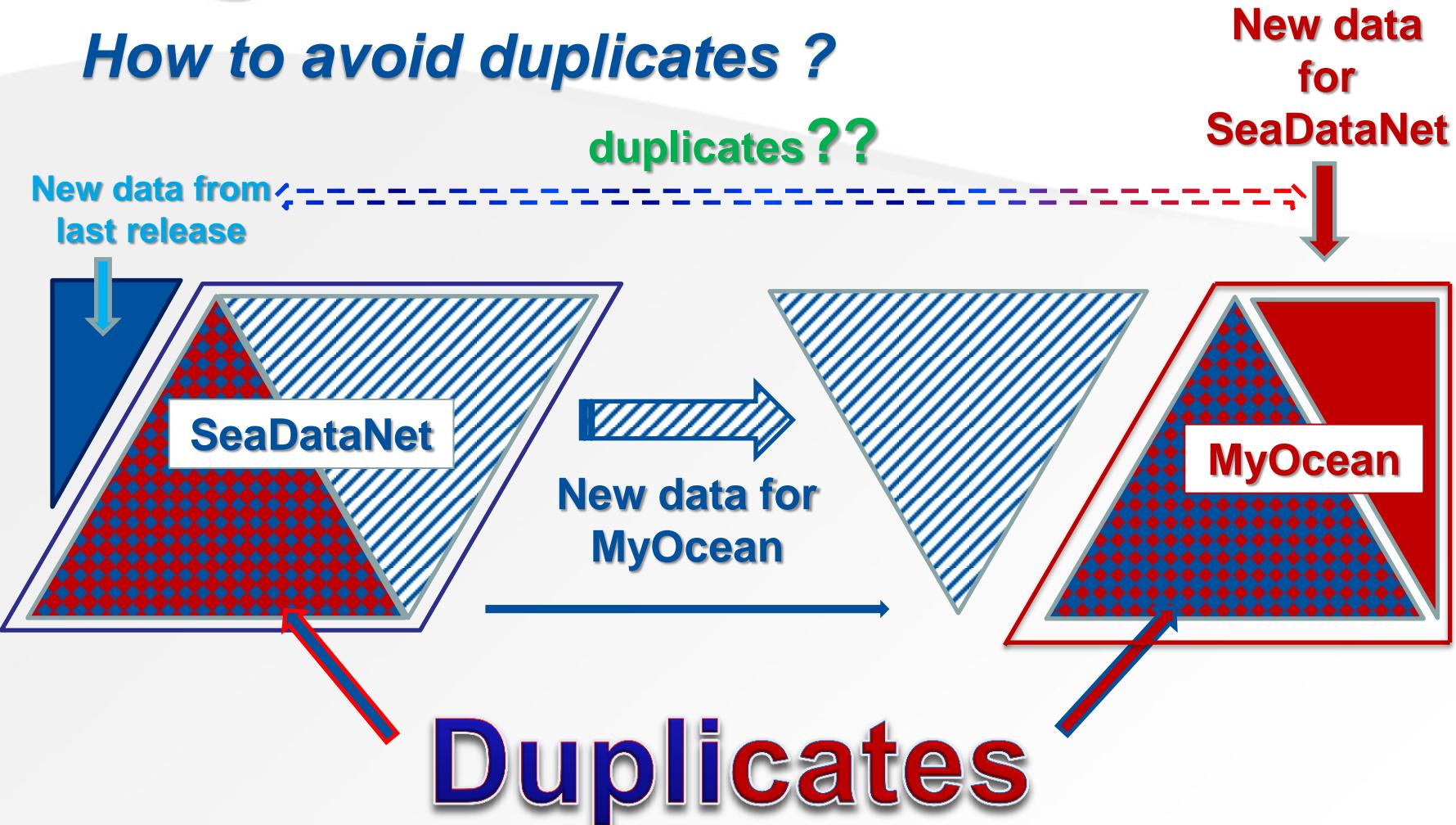


Extraction of
MyOcean data ?

Duplicates - Which data ?
Non-European
& Argo (except French data) ?



How to avoid duplicates ?





How to manage duplicates (Coriolis level)

- Load metadata files from each regional collection in Coriolis database (metadata from odv collection)
- Check with the position (Latitude, Longitude) and the time (station_date) – criteria 15'
- List the stations that are not in the SeaDataNet collection
- Export the data in Oceansite netcdf format (manage the dataset with ODV)



Started work at Coriolis

- Load metadata files (1st loading from Black Sea region)
 - Load all the metadata available in the file
 - Errors for some stations (different reasons) :

Station ID Accession Number Cruise Station Type yyyy-mm-ddThh:mm:ss.sss Longitude [degrees_east] Latitude [degrees_north]
LOCAL_CDI_ID EDMO_code Bot. Depth [m] Platform type Instrument / gear type Originator CDI-record id Data set name Category CDI-record creation date CDI-partner OnLand

No time available:

49743 455353 MECH_145 67330 B **1990-08-28** 31.52800 46.37300 67330 727 13 31 135 914 354887 67330 PSAL,TEMP 2009-03-20
14:59:08.123000000 727 0

Instrument / gear type not a code (number):

5043 410653 15AK2007132 S-BG01-08 (M304) B 2007-10-07T14:24:31.000 28.50000 43.16667 c153a6e0-009f-4198-8f6d-a0c02da30d52
692 78 31 **130,LAB20** 692 122419 CTD_S-BG01-08 (M304) data set AMON,DOXY,NTRA,NTRI,PHOS,PSAL,SLCA,TEMP 2011-10-18
07:46:54.333000000 692 0

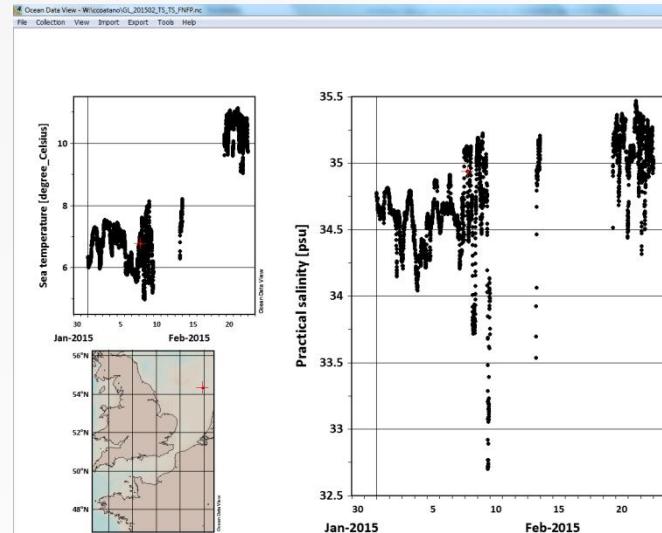
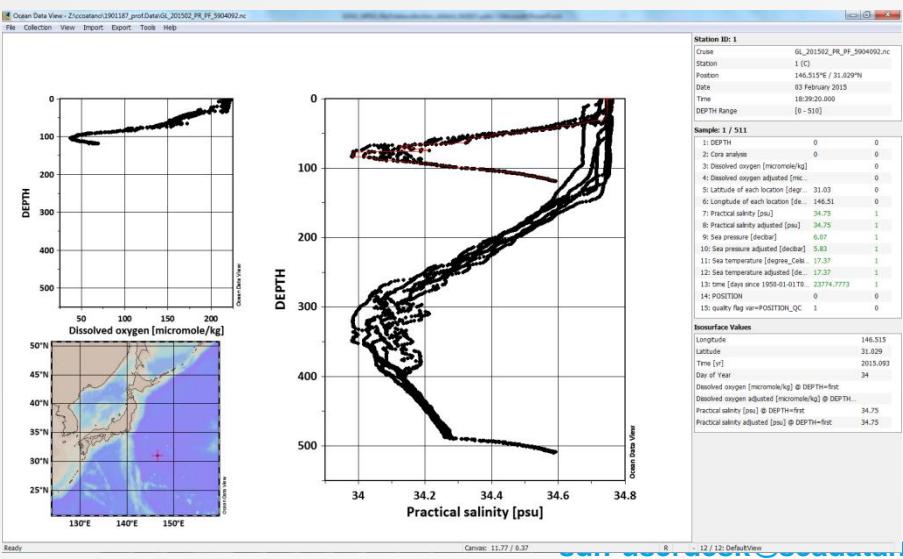
5044 410654 15AK2007132 S-BG01-10 (M306) B 2007-10-05T09:09:22.000 28.83333 43.16667 a750c79b-3b7c-4577-905d-409177d69fb1
692 310 31 **130,LAB20** 692 122418 CTD_S-BG01-10 (M306) data set AMON,DOXY,NTRA,NTRI,PHOS,PSAL,SLCA,TEMP 2011-10-18
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Load only needed metadata to check duplicates ?



Schedule

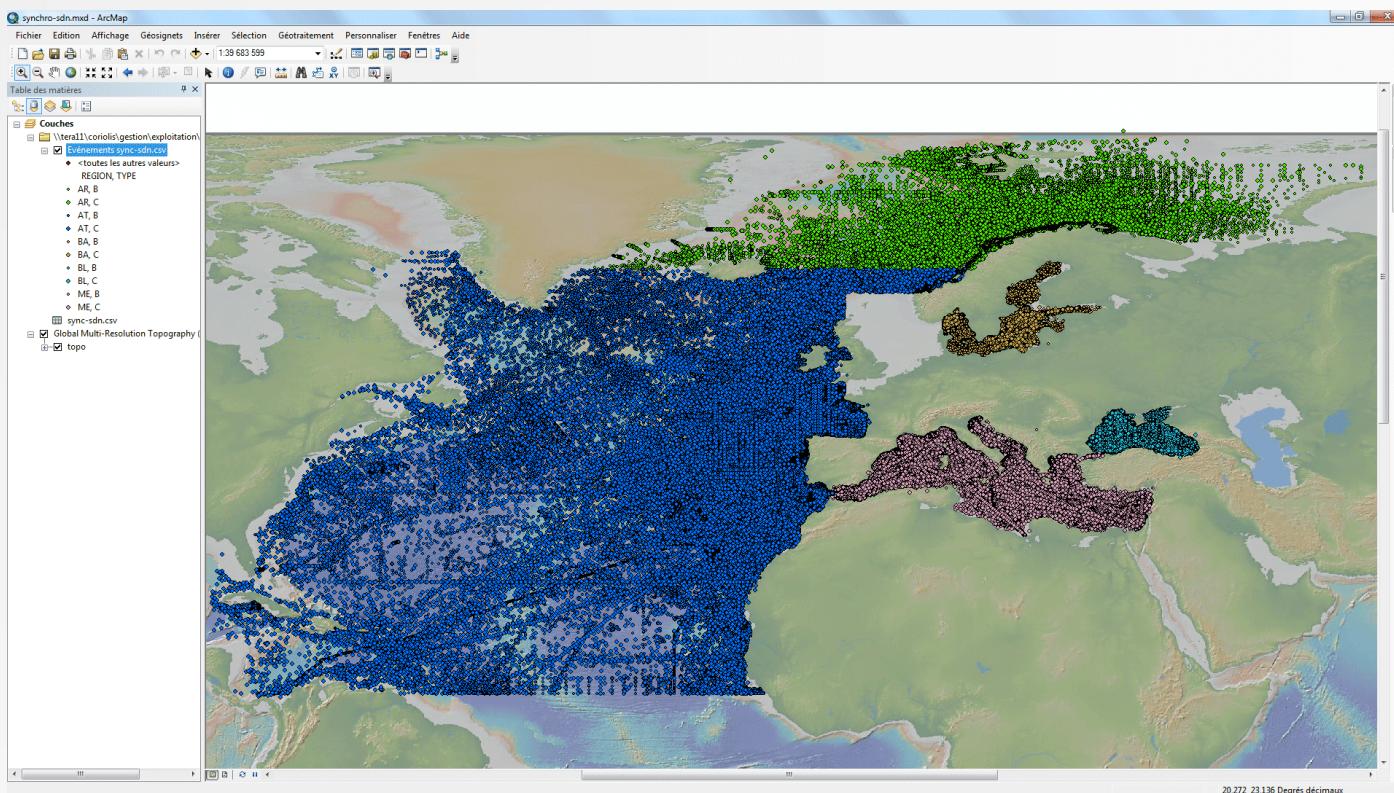
- Takes more time than expected
 - Loads only needed metadata for checking duplicate
 - Export data ? Oceansite netcdf format (ask Reiner if it's ok – first tests seem ok)
 - One nc file by station





- AG Atlantique global 916280
- AR Arctique 445281
- BA Baltique 350884
- BL Black sea 101369
- ME Med sea 201645

Data from regions



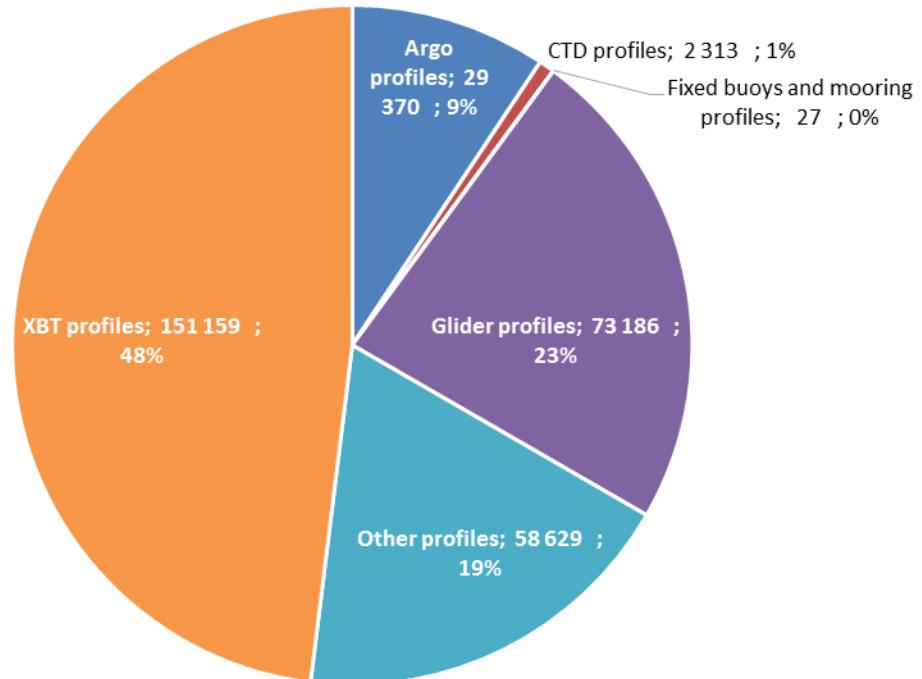


Copernicus to SDN, Mediterranean sea

- 314 684 new “MyOcean” profiles to complement the 201 461 “SeaDataNet” profiles (+156%)

Type of profiles	nb profiles
Argo profiles	29 370
CTD profiles	2 313
Fixed buoys and mooring profiles	27
Glider profiles	73 186
Other profiles	58 629
XBT profiles	151 159
Total	314 684

Type of profiles	format	nb profiles
Argo profiles	PF	28 889
Argo profiles	TE	481
CTD profiles	CT	1 253
CTD profiles	OC	1 060
Fixed buoys and mooring profiles	OS	3
Fixed buoys and mooring profiles	TE	24
Glider profiles	CT	253
Glider profiles	GL	72 932
Glider profiles	TE	1
Other profiles	BA	467
Other profiles	CT	3 982
Other profiles	DT	5
Other profiles	OS	299
Other profiles	PF	388
Other profiles	SH	33 006
Other profiles	TE	19 884
Other profiles	XB	598
XBT profiles	BA	6 941
XBT profiles	IC	123
XBT profiles	ME	447
XBT profiles	OS	163
XBT profiles	RE	2 277
XBT profiles	SH	136 617
XBT profiles	TE	14
XBT profiles	XB	4 577
Total		314 684

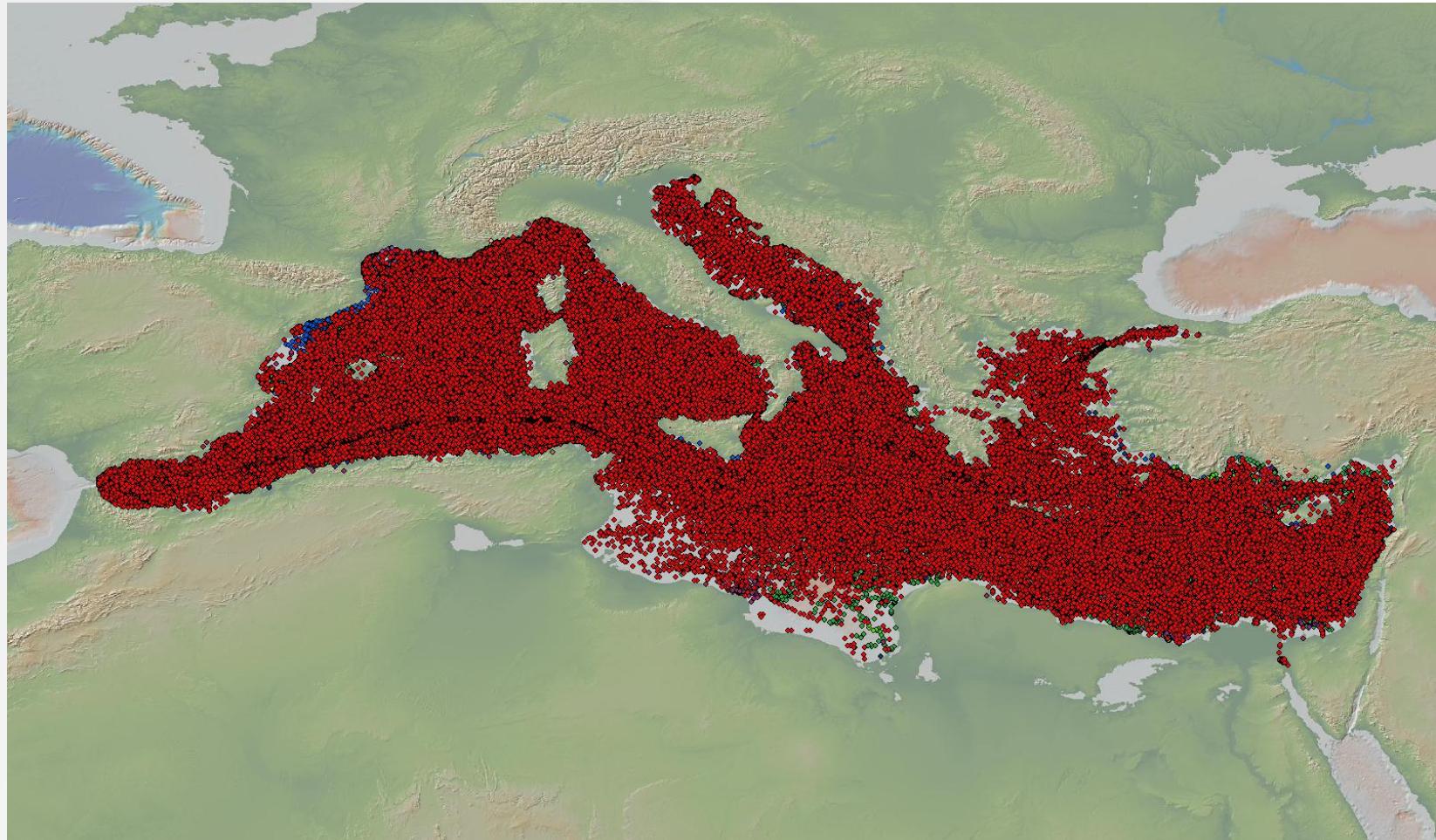




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Med sea, all new Copernicus

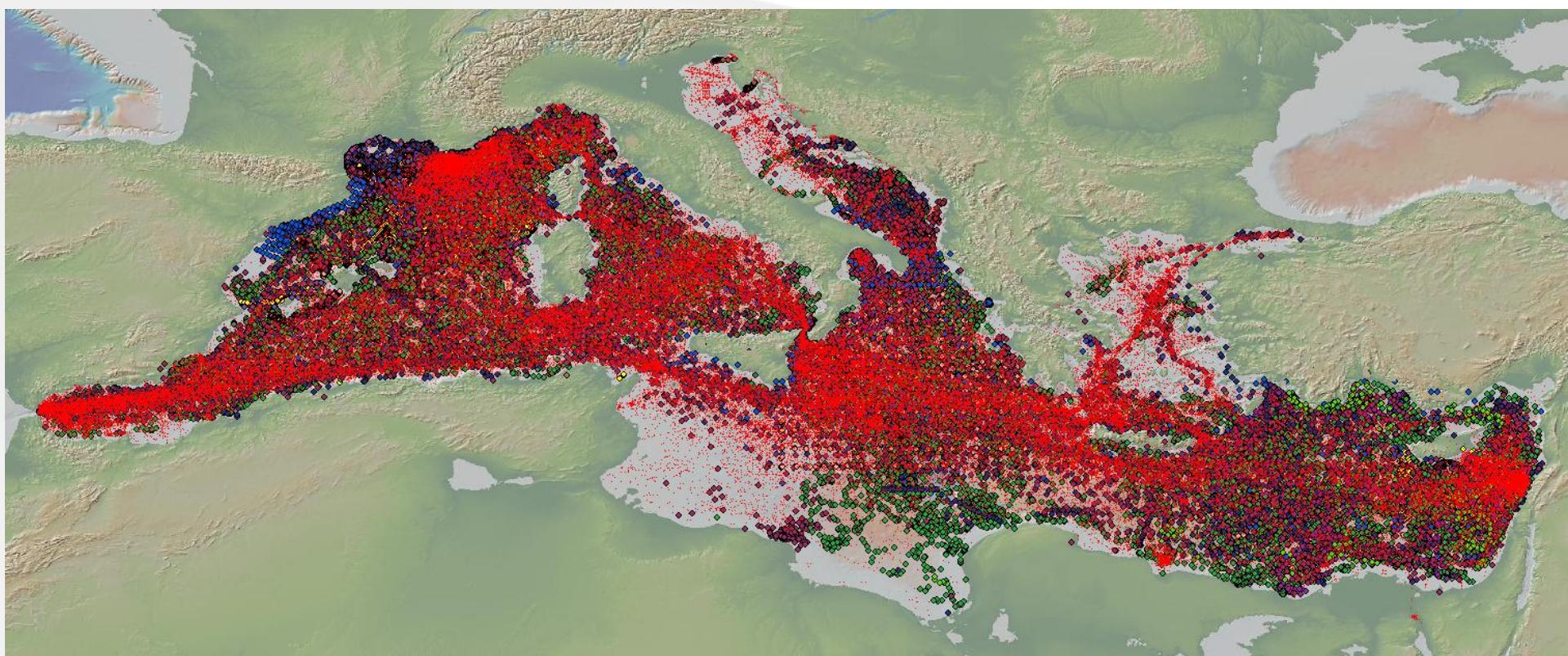




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Mediterranean sea, all new Copernicus small red dots : SHOM XBT-CTD

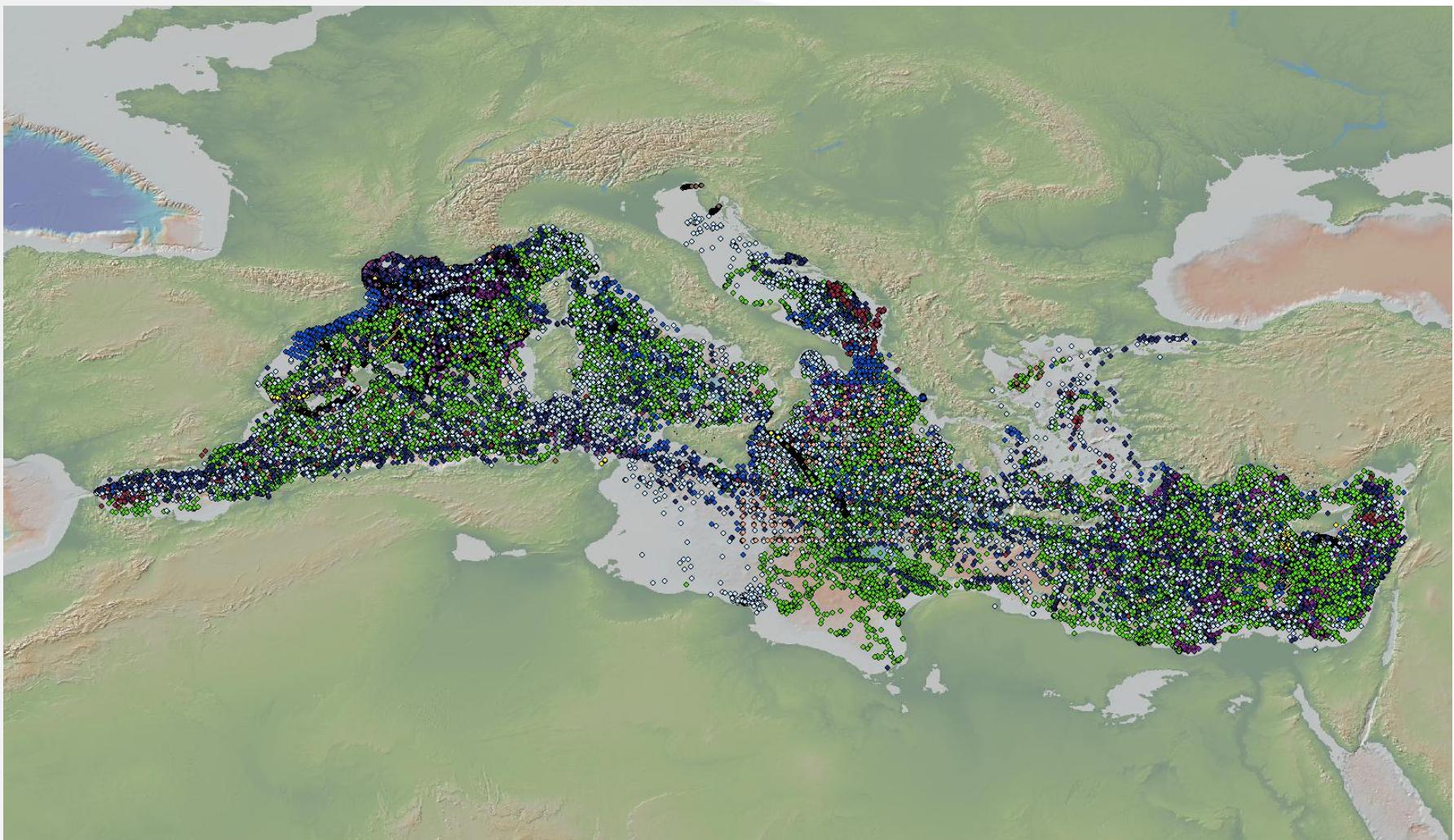




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Mediterranean sea, all new Copernicus without SHOM XBT-CTD

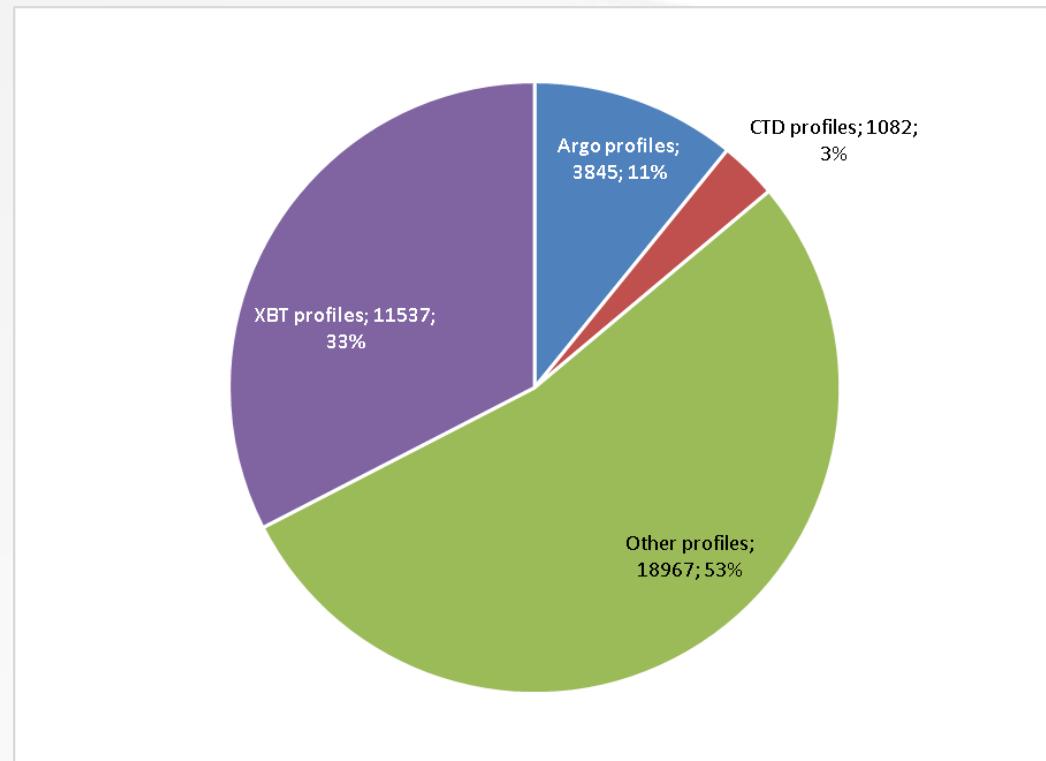




Copernicus to SDN, Black sea

- 35 436 new “MyOcean” profiles to complement the 101 369 “SeaDataNet” profiles (+35%)

region	type	format code	nb profiles
BS	Argo profiles	PF	3 845
BS	CTD profiles	OC	1 082
BS	Other profiles	OS	168
BS	Other profiles	SH	366
BS	Other profiles	TE	18 428
BS	Other profiles	XB	5
BS	XBT profiles	BA	103
BS	XBT profiles	IC	60
BS	XBT profiles	ME	20
BS	XBT profiles	SH	11 277
BS	XBT profiles	TE	1
BS	XBT profiles	XB	76

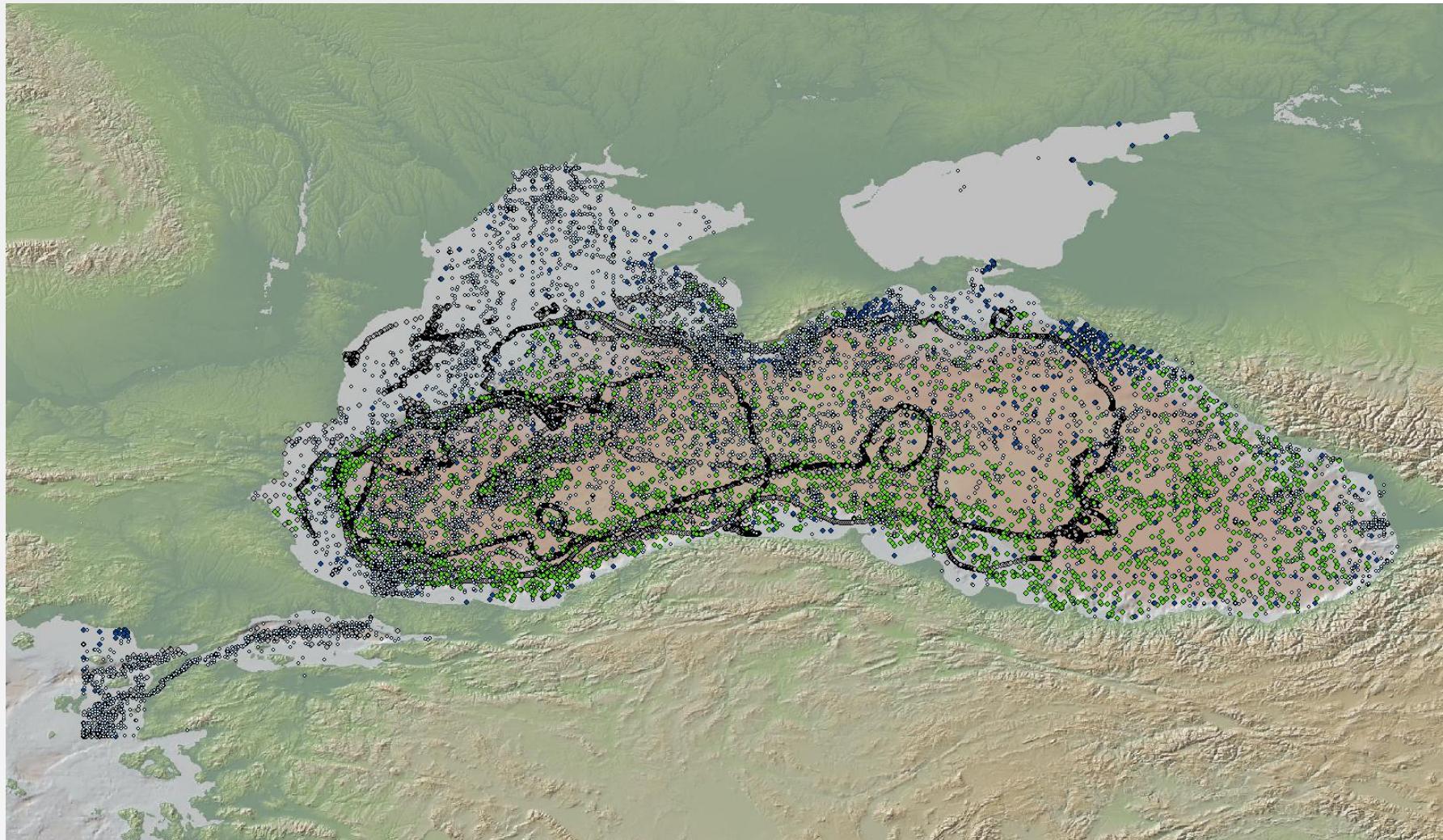




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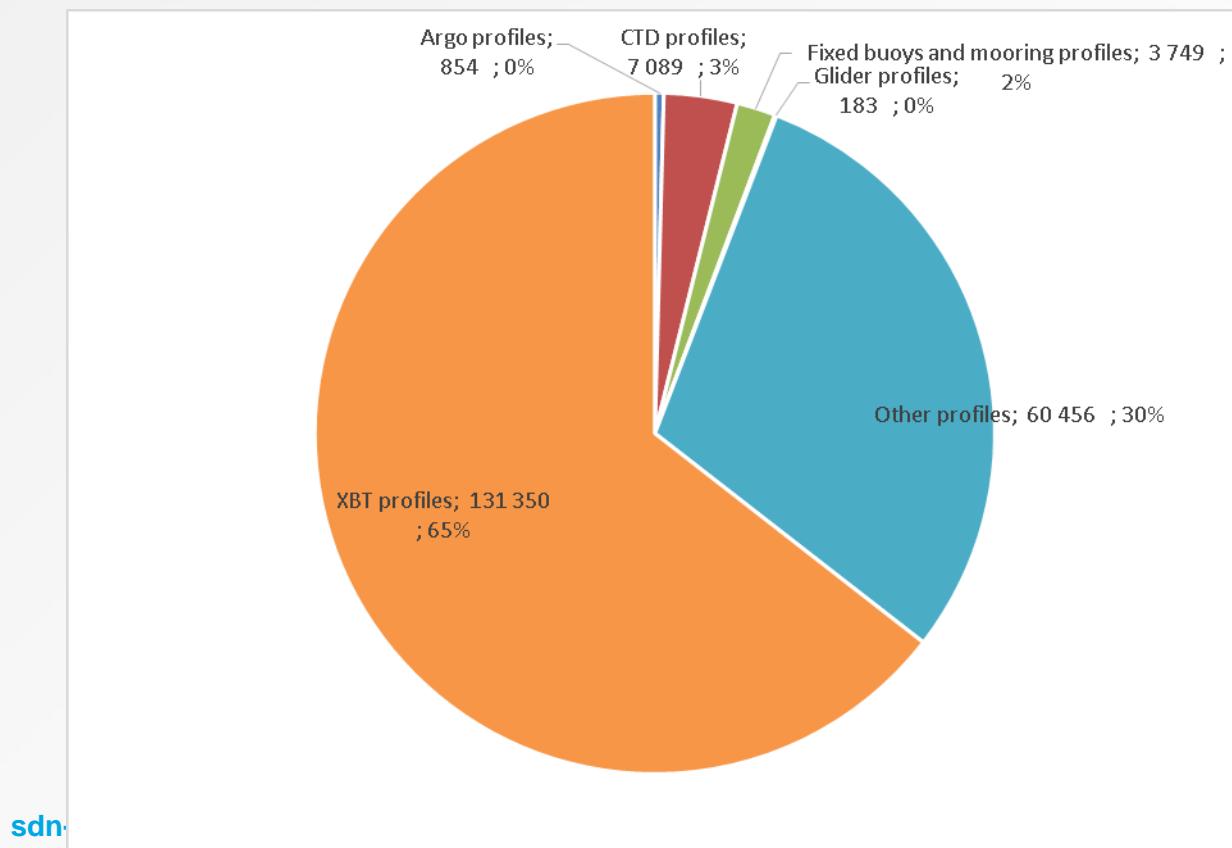
Copernicus to SDN, Black sea



Copernicus to SDN, Baltic

- 203 755 new “MyOcean” profiles to complement the 350 884 “SeaDataNet” profiles (+58%)

region	type	format code	nb profiles
BA	Argo profiles	PF	854
BA	CTD profiles	OC	7 089
BA	Fixed buoys and moorings	BA	3 749
BA	Glider profiles	GL	183
BA	Other profiles	BA	56 994
BA	Other profiles	BO	2 110
BA	Other profiles	CT	1 153
BA	Other profiles	SH	129
BA	Other profiles	XB	70
BA	XBT profiles	BA	1 663
BA	XBT profiles	BO	200
BA	XBT profiles	IC	1 151
BA	XBT profiles	OS	150
BA	XBT profiles	RE	27
BA	XBT profiles	SH	127 946
BA	XBT profiles	TE	204
BA	XBT profiles	XB	9





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Copernicus to SDN, Baltic



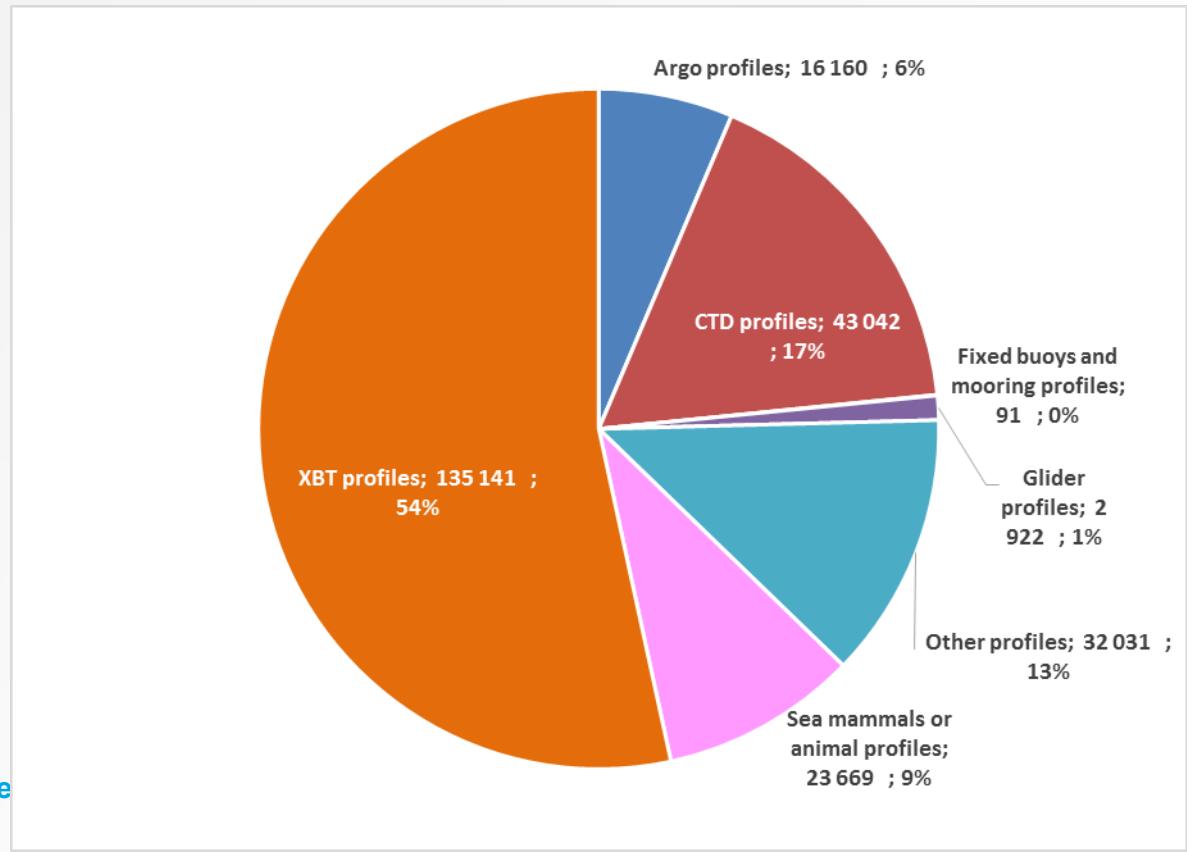


Copernicus to SDN, Artcic

- 253 515 new “MyOcean” profiles to complement the 445 281 “SeaDataNet” profiles (+57%)

region	type	format code	nb profiles
AR	Argo profiles	PF	15 321
AR	Argo profiles	TE	839
AR	CTD profiles	CT	150
AR	CTD profiles	OC	42 892
AR	Fixed buoys and moc	OS	91
AR	Glider profiles	GL	2 232
AR	Glider profiles	TE	690
AR	Other profiles	BO	276
AR	Other profiles	CD	293
AR	Other profiles	CT	123
AR	Other profiles	OC	44
AR	Other profiles	OS	1 507
AR	Other profiles	SH	293
AR	Other profiles	TE	29 118
AR	Other profiles	XB	377
AR	Sea mammals or animal	TE	23 669
AR	XBT profiles	BA	1 903
AR	XBT profiles	BO	2
AR	XBT profiles	IC	6 474
AR	XBT profiles	ME	149
AR	XBT profiles	OS	4 819
AR	XBT profiles	SH	120 547
AR	XBT profiles	TE	517
AR	XBT profiles	XB	730

In-useerde

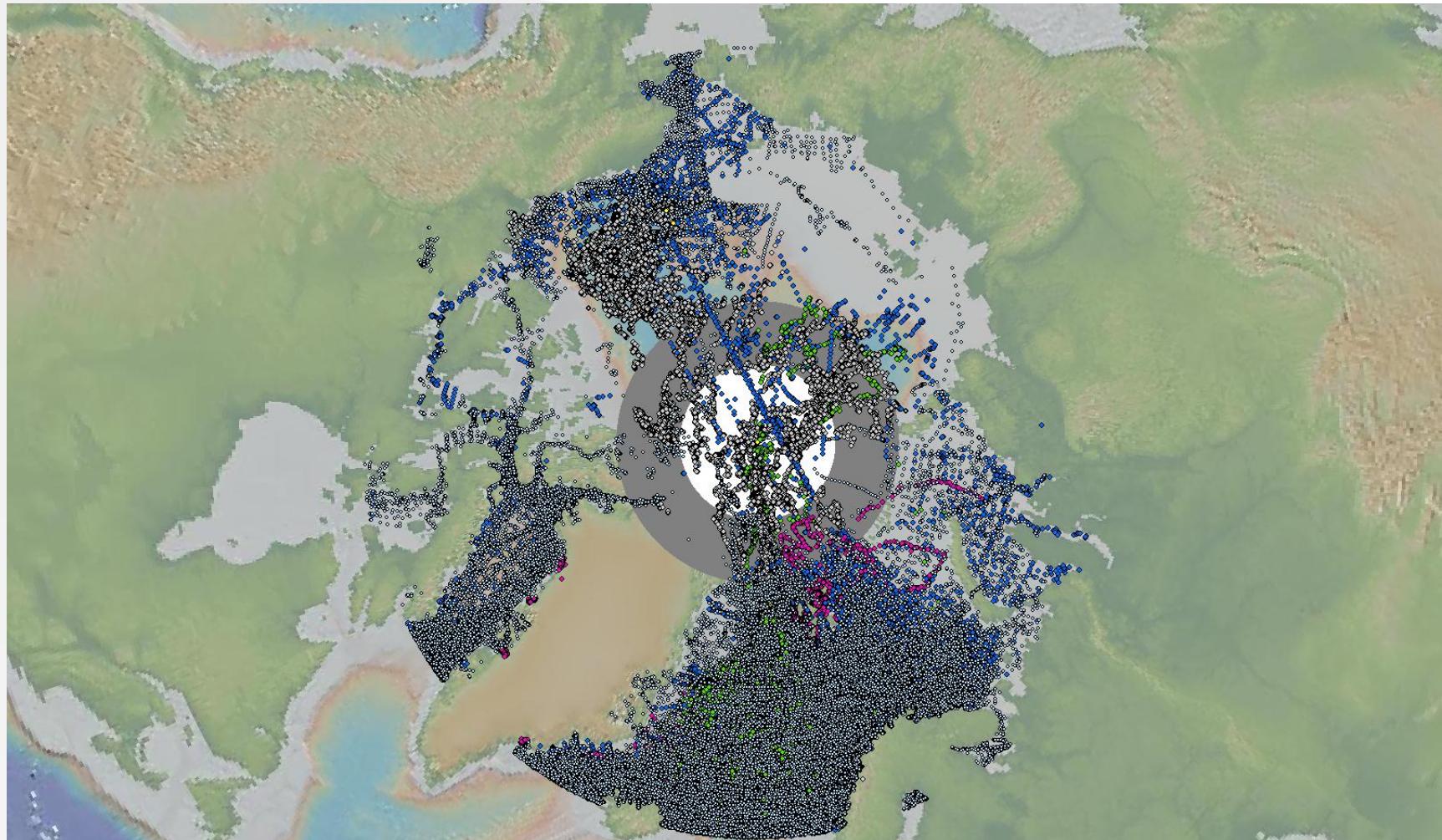




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Copernicus to SDN, Arctic



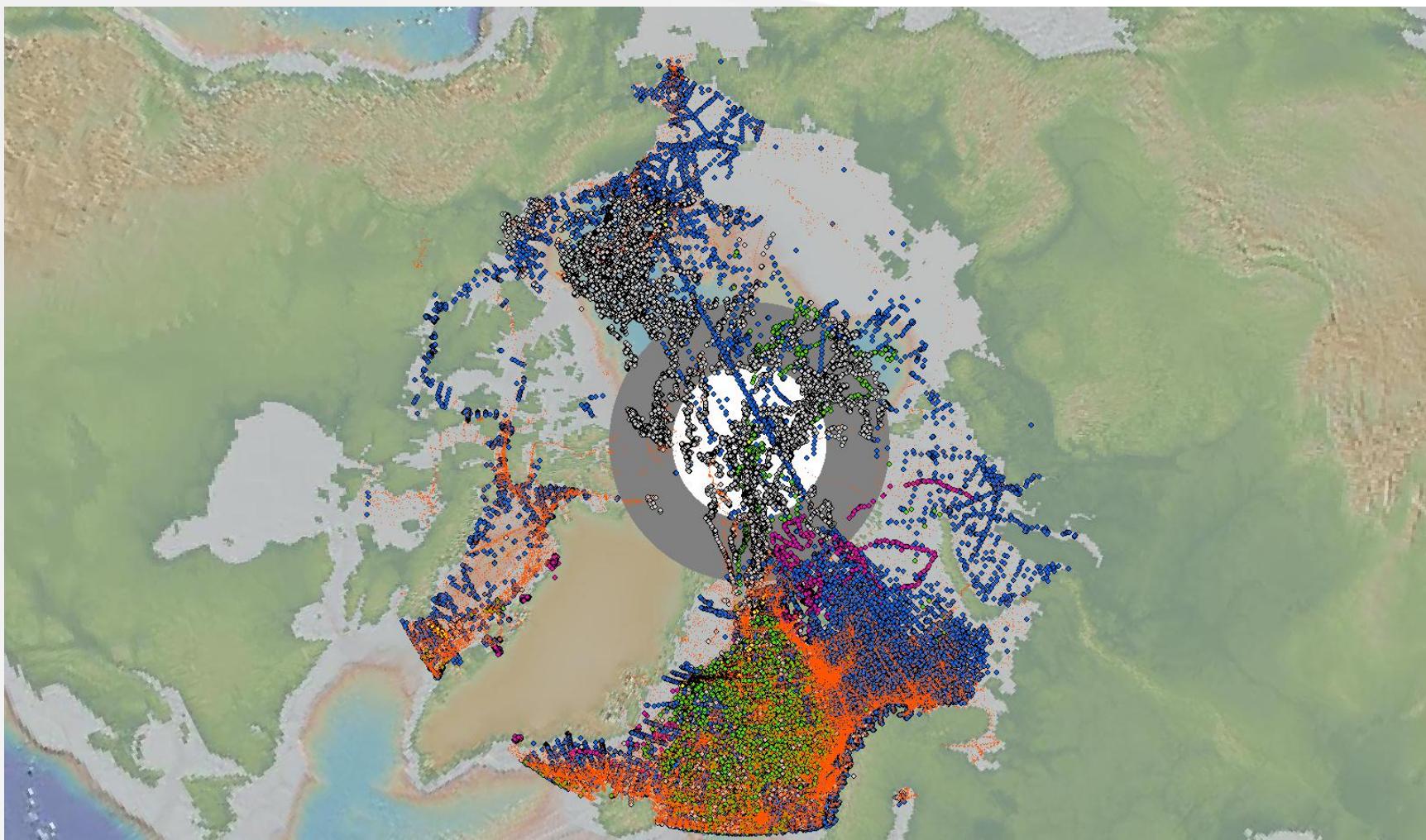


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Copernicus to SDN, Arctic

small red dots : SHOM XBT-CTD





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- Med Sea, Black Sea, Baltic Sea, Artic Sea : ready
- Atlantic area : in progress

- Data set available with a DOI

“Copernicus to SeaDataNet 2015 dataset”

<ftp://ftp.ifremer.fr/ifremer/doi/myocean/myocean-to-seadatanet/CopernicusToSeaDataNet-201504.tar.gz>