

WP 15 Historical Product for V3-V4

Joint SeaDataNet2- WP10 MyOcean2-INSTAC Meeting 15th April 2013







Products evolution in V3

Product Name	Creation / Update	Update description
INSITU_GLO_TS_REP_OBSERVATIONS_013_001_b	Update	Increase Time coverage (1990-2011)
INSITU_ARC_TS_REP_OBSERVATIONS_013_037	Creation	First Version including some SDNII and ARCTIC ROOS data
INSITU_BAL_TS_REP_OBSERVATIONS_013_038	Creation	First Version including some SDNII and BOOS data
INSITU_NWS_TS_REP_OBSERVATIONS_013_043	Creation	First Version including some SDNII and NOOS data
INSITU_IBI_TS_REP_OBSERVATIONS_013_040	Creation	First Version including some SDNII and IBI- ROOS data
INSITU_MED_TS_REP_OBSERVATIONS_013_041	Creation	First Version including some SDNII and MONGOOS data
INSITU_BS_TS_REP_OBSERVATIONS_013_042	Creation	First Version including some SDNII and BLACK SEA GOOS data

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Products evolution in V4

Product Name	Creation/ Update	Update description
INSITU_GLO_TS_REP_OBSERVATIONS_013_001 _b	Update	Increase Time coverage (1990-2012) + Regional Data
INSITU_ARC_TS_REP_OBSERVATIONS_013_037	Update	Second version including SDNII aggregating product
INSITU_BAL_TS_REP_OBSERVATIONS_013_038	Update	Second version including SDNII aggregating product
INSITU_NWS_TS_REP_OBSERVATIONS_013_043	Update	Second version including SDNII aggregating product
INSITU_IBI_TS_REP_OBSERVATIONS_013_040	Update	Second version including SDNII aggregating product
INSITU_MED_TS_REP_OBSERVATIONS_013_041	Update	Second version including SDNII aggregating product
INSITU_BS_REP_OBSERVATIONS_013_042	Update	Second version including SDNII aggregating product

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Report on the Joint Meeting MyO-SDN

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Rhodes 19 Sept 2012, SeaDataNet2 First Planetary Meeting







QC strategy my Ocean ANALYSIS CENTERS (ACs) NODCs QC of profiles QC of a pool of profiles through FLAGS Duplicates 1. **ODV** 2. Outliers How do RCs feed back to NODCs? Gross Range Check 3. **Effective feed back loop:** 1) between D10.1 and D10.2 Alerts log MyO + ODV logs+ reply to MyO alerts **Statistical Check** 2) between D10.2 and D10.4 ODV logs + MyO alerts(?) describe the Report to (checks aggregated and performed to produce it and statistics to describe it) Gmes www.myocean.eu



- observation must have a date, a location and a level of immersion (pressure or depth) and Quality flags
 - a set of observations belong to an unique platform
 - each profile / time-serie must be identify with a unique SDN ID
 - One observation available in different NODCs is provided once (the best quality)
- How?
 - file format can be ODV or **netCDF** as long as the previous information are available (Distribution format close to MyOcean format is preferred)
 - In the dataset a unique variable name should be used for Temperature (TEMP) and Salinity(PSAL) even if NODCs use different variable names
 - The data are provided manually to MyO on FTP





- Report on anomalies from validation at MyO INS TAC regional centres will be sent to SDN RC
- After Analysis SeaDataNet RC will confirm or not the changes proposed by MyO

Date	02/05/2002 13:15:48
Station ID (SDN ID+New MyOcean ID)	2924240 ABC123
Parameter	TEMP
NODC	SISMER
Platform	FABB
Previous flag	1
Immersions	(153:158)
New flag (suggestion)	4
Precision about the type of alert	Duplicate with/far from climatology/spikes



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- SDN should provide to MyO an update dataset that contains the data
 - That are new
 - That have been modified
- SDN should inform
 - on what data were deleted
 - When the update was generated





The status







System changes in V3

- The importance of historical observations input dataflow is increased.
 - New data providers in ROOS
 - SDN link is implemented
- Adding to the FTP portal a new branch to provide INS historical product without additional validation at INS TAC level (V3)

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my Ocean





- T&S data extracted from SDN network in December 2012-January 2013
- Data validated using ODV by AWI (Reiner Schlitzer) and split in MyOcean regions packages
- Data transmitted to SDNII WP5 coordinators February-March 2013
- A first study by SDN coordinators showed data with flag 1 (good)which should be clearly changed to 4 (bad)because they are out of reasonable ranges













What additional steps need to be performed

- Data Aggregation
 - Each DU defined how they handle duplicates between NRT (monthly directory observations) and delayed mode (SDN or ROOS providers, Global DU)
 - For V3 only new data are considered
 - XBT are discarded because missing instrument type and fall rate
 - IF we have historical data directly fromm ROOS parner and From SDN we choose the ROOS route because of the lack of metadata
 - Each region has to be prepared to ingest Update from SDN , validated by SDN RC coordinators, that will be provided in September 2013
- FEEDBACK :
 - Implement feedback to SDN (and providers) on anomalies detected during validation
 - Implement Feedback to Global DU when observations are provided by Global DU
- Define the REP product format for V4 after discussion with MFCs (WP18)



What additional steps need to be performed for V4

- The REP product is separated from History directory on INSTAC because
 - During the next version of the REP product the previous on must be kept unchanged
 - History contains all parameters even those which haven't gone through scientific validation
 - History may be updated more often than the REP products



What additional steps need to be performed for V4

- Clarify MFCs need at WP18 meeting (Thursday)
 - The product for reanalysis is **frozen** at a certain date and no new observations can be added
 - Are the data organized by platform as for V3 fine for reanalysis ?
 - Would MFCs prefer data organized by date to facilitate assimilation as system can ingest the observation based on temporal schedule
 - If organized by date , do we need to
 - also organize the data by type of platform according to the sensor accuracy to be able to discard datasets with insufficient accuracy
 - or is the instrument type enough as a metadata in the platform file is enough





Questions ?

