

"Potential physics data in the SeaDataNet CDI system – potential and challenges"

Peter Thijsse MARIS



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Challenge for physical data in operational centers, ROOS/MyOcean and CDI

- ROOSes and MyOcean demonstrate the available stations in their indexes, but analysis of local networks indicate there is more:
 - Not all stations are shared to ROOSes (historically, or restrictions)
 - Not all parameters are shared



- CDI system already holds large potential of physical data, but:
 - Stations can not be recognised due to missing/different station name.
 - Archived data center do not hold, or do not share the physical data yet.
 - Often recent data is missing (gap of many years)

How did we analyse this?



Query for potential physical data from fixed stations in CDI

1) search for:

-- discovery parameters (P02) = RFVL, PPAB, EXCO, KRTS, LERR, LVLT, ASLV, WVSP, LRZA, GWDR, WVST, HEAV, CAPH, CDTA, CHUM, EWSB, WSTR

- -- measurement area type (L02) = 4 (=point)
- -- lat lon box: POLYGÓN((-29.23 27.2201, 43.4901 27.2201, 43.4901 75.35, -29.23 75.35, -29.23 27.2201)

-- observation duration > 27 days

2) delete from results all CDI records with station_name = unspecified

3) sort all remaining results by CDI_author => CDI_originator => station_name and then group count number of CDI records per station_name -- delete from the results all station_names with only 1 CDI record, that have a observation period < 360 days



"Slim CDI physics interface"

- Special interface on CDI subset only holding potential fixed station data
- <u>http://slim-emodnet-</u> physics.maris2.nl/v_cdi_v 3/browse_step.asp
- Also stations no longer active (not in NRT data exhange)





The current potential coverage map





The current potential coverage

- 864 stations
- 11.377 CDI records
- Coverage well in some countries, not in others



Challenge of EMODNet Physics

- Fix the gaps
- Stimulate the exposure of physical data by data centers, necessary to streamline the process from operator to archive data center
- Stimulate the operators, via the ROOS, to expand station coverage and parameter content
- Harmonise the station names via code list to enable linking NRT and archived data of the same station



Time for discussion!

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