

New datasets for ODES (Online Data Extraction Service)

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Outline

- Problematics
- ODES at a glance & Story
- New datasets
- Demo
- Future ODES

Problematics

- L2 along-track altimetry data are mainly disseminated by ftp (arranged by file containing data over one pass).
- Most of altimetry users don't need the complete datasets (in content, area covered) depending on their application domain. Moreover, the volume of data can be a limit.
- Algorithms and science progress rapidly compared to space agencies reprocessing program but interesting alternate corrections exist in the meantime
- CNES and CTOH want to promote ops and research datasets trough AVISO+ and would like to offer a new tool answering new users needs.



ODES at a glance

- What ? Online Data Extraction Service
- Why ? To extract subset of parameters from geographical and temporal selection of altimetric products.

• How?

- Interactive and friendly web portal (client/server technology)
- Fast data exploration and extraction
- Extracted products in NetCDF-CF format
- Download after « on the fly » extraction (no waiting time, no cache nor limit in data volume)
- What kind of products? Research and operational products (L2, L2+, L3 altimetric products) updated every day

ODES Story

- OSTST Venezia (2012): Prototype of a new dissemination service (reduced dataset and functionalities).
- OSTST Boulder (2013): ODES available in beta-version for OSTST members.
- **OSTST Constance (2014):** ODES Official opening.

New datasets available this week

- SARAL S-GDR experimental data (« PEACHI project »)
- GDRs with up-to-date corrections (« Enhanced GDRs ») and also the classical IGDRs for J2 and GDRs for J1 and J2
- CTOH's X-TRACK regional coastal SLAs for the historical series of TP-J1-J2 available on 23 zones
- Hydrological and coastal experimental data (« PISTACH project) for J2
- The full series of CorSSHs (all satellites : +60 years of cumulated data), including SARAL and HY-2A altimeter missions
- \rightarrow Detailed product pages available on the AVISO website



1. Select a category





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2. Select a product



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3. Select a mission

and the theoretical ground track appears on the map





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4. Select the temporal coverage (if no selection, the entire period will be selected)



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5. Select the geographical area (if not defined, global selection)





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6. Sign in (with your AVISO login/password)



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7. Select products parameters and min/max threshold (optional)



| AVISO+ ONLINE | DATAE | XTRACTI | UNSERVICE | | | | | | | | C |
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8. Download your extracted data!

Index of /Request_20141027_202/data/2014_Q2

This page contains the data selected by the <u>query</u> you made. If you wish to download many files, please use the FTP server at the following address: <u>ftp://cnes@odes.altimetry.cnes.fr/Request_20141027_202</u>

| Name | Size | Date Modified |
|--|------|---------------------|
| 1 [parent directory] | | |
| JA2_IPC_2PTP211_174_20140401_021646_20140401_031151.nc | 3 MB | 2014-09-17 08:45:32 |
| JA2_IPC_2PTP211_189_20140401_161851_20140401_171504.nc | 2 MB | 2014-09-17 08:47:02 |
| JA2_IPC_2PTP211_198_20140402_004447_20140402_014100.nc | 2 MB | 2014-09-17 08:46:00 |
| JA2_IPC_2PTP211_200_20140402_023713_20140402_033326.nc | 3 MB | 2014-09-11 07:39:58 |
| JA2_IPC_2PTP211_215_20140402_164026_20140402_173639.nc | 2 MB | 2014-09-10 14:27:45 |
| JA2_IPC_2PTP211_224_20140403_010622_20140403_020235.nc | 3 MB | 2014-09-09 09:39:29 |
| JA2_IPC_2PTP211_226_20140403_030029_20140403_035458.nc | 3 MB | 2014-09-11 07:55:51 |
| JA2_IPC_2PTP211_239_20140403_150935_20140403_160505.nc | 3 MB | 2014-09-09 09:48:08 |
| JA2_IPC_2PTP211_241_20140403_170201_20140403_175756.nc | 3 MB | 2014-09-17 08:43:53 |
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| JA2_IPC_2PTP212_013_20140404_172336_20140404_181949.nc | 3 MB | 2014-09-11 08:32:45 |
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| JA2 IPC 2PTP212 061 20140406 142154 20140406 151732.nc | 3 MB | 2014-09-09 10:26:31 |
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| JA2_IPC_2PTP212_087_20140407_144329_20140407_153942.nc | 3 MB | 2014-09-11 07:29:18 |
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| JA2 IPC 2PTP212 098 20140408 010151 20140408 015804.nc | 3 MB | 2014-09-17 08:46:14 |
| JA2_IPC_2PTP212_113_20140408_150504_20140408_160117.nc | 2 MB | 2014-09-11 07:07:01 |
| JA2_IPC_2PTP212_122_20140408_233100_20140409_002713.nc | 2 MB | 2014-09-09 09:12:41 |
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Help and Tutorial available for ODES

Online help



- Data use cases available on the AVISO+ website to help you using ODES and extract data:
 - How to use ODES for ice studies
 - How to use ODES for coastal studies
 - How to use ODES for ocean studies specific areas
 - How to use ODES for hydrology



HOW TO REGISTER & SIGN-IN

In order to be able to download any data- you must register.

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Datasets soon available

- Jason-1 GDRs for geodetic phase (early 2015)
- Reprocessed Jason-1 products in GDR-E standard (2015)
- Cryosat-2 Processing Prototype products (early 2015) – LRM/pseudo-LRM mode
 - SAR mode
- GDRs and Enhanced GDRs for SARAL (end 2014)
- Reprocessed X-TRACK data for ERS (2015)

The future ODES

- New and unique datasets will be released regularly
- In the future, ODES will be able to disseminate:
 - Gridded products
 - Auxiliary products
 - Experimental algorithms and data from OSTST community
- Improvement of MMI and robustness of server for extraction
- New functionalities

Come and visit us!



http://odes.altimetry.cnes.fr



Feedbacks are welcome at aviso@altimetry.fr

