



# Online data extraction service for research and operational users



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# ODES

## Online Data Extraction Service



Interactive web portal to distribute Level-2 / Level-2P altimetry products from CNES (GDR, PISTACH, DUACS) and LEGOS (XTRACK)

Handle 60+ years of cumulated data (data volume, heterogeneity)

Custom extractions (web portal must get into the product and process it)

Client / Server technology (MMI allows to build the query and the server disseminate the data)

Fast and interactive data exploration / extraction

Online Data Extraction Service  
Beta Version

Product family (global & regional, L2 and L2P)

Timeline (temporal selection)

User friendly map interface:  
zoom, scroll, view  
(flexible background: vectors  
or images, ...)

Download

Online Data Extraction Service

odes.altimetry.cnes.fr/#engbezzurzxc:4

AVISO Online Data Extraction Service Beta Version

Native GDR

Download

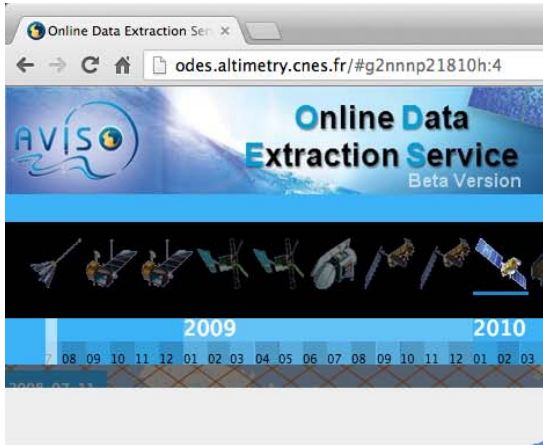
2009 2010 2012 2013

2008-07-11 2013-10-08

Click to North Atlantic Ocean

Altimetry mission and product type is now selected (here Jason-2)

Geographical selection made easier with rapid satellite track preview



Index of /Request\_20131006\_3/data/2013\_01

This page contains the data selected by the user on the server at the following address: <ftp://odes@cnes.fr>

Name
[parent directory]
j2_gdr_130_015_20120112_171655_20120112T171655
j2_gdr_130_041_20120113_171655_20120113T171655
j2_gdr_130_060_20120113_171655_20120113T171655
j2_gdr_130_080_20120113_171655_20120113T171655
j2_gdr_130_100_20120113_171655_20120113T171655
j2_gdr_130_120_20120113_171655_20120113T171655
j2_gdr_130_140_20120113_171655_20120113T171655
j2_gdr_130_160_20120113_171655_20120113T171655
j2_gdr_130_180_20120113_171655_20120113T171655
j2_gdr_130_200_20120113_171655_20120113T171655



Check your selection, select the parameters of interest and hit the OK button

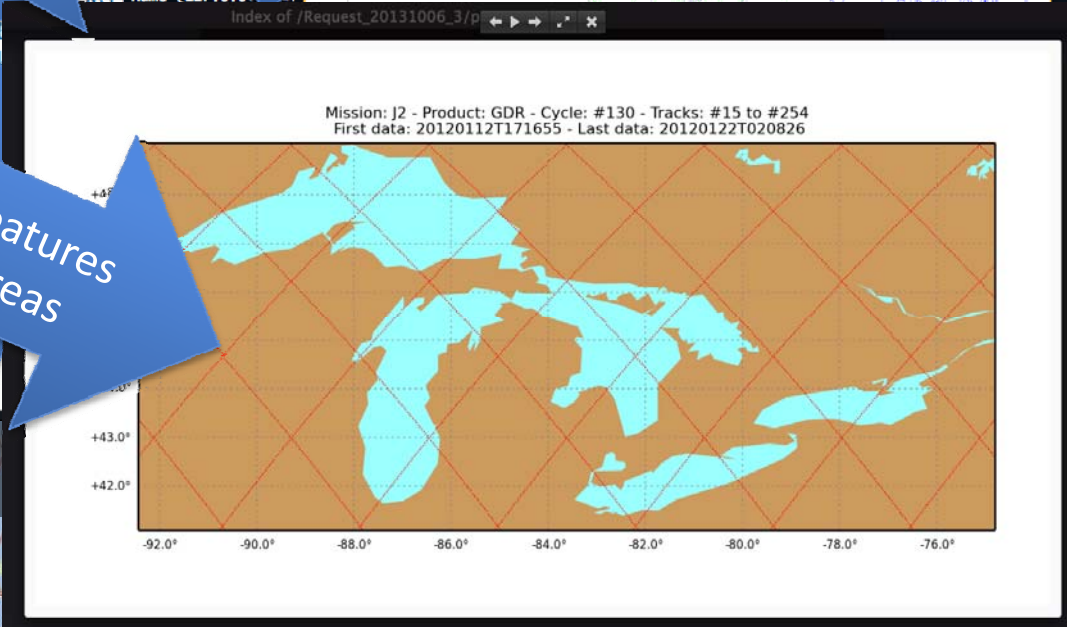
You can archive your favourite products

Your custom directory also features preview pictures for small areas (rapid setup, no waiting queue)

Download product Enhanced GDR with mission J2

Bounding box is not defined  
Time interval is 20120112T171655 - 20120113T171655

- Select/De-select products
- Main
- latitude (unselected)
- Uncategorized
- 23.8 GHz main ... (units: K)
- Radiometry
- atmospheric (unselected)



## You want

- To study significant wave heights over the last twenty years over the North-East Atlantic.

## Previously

- You downloaded all the GDRs (each having its different format), extracted the region and parameters of interest by yourself

## With ODES

- You chose the product (GDRs), time span, satellite(s)
- You select the area
- You select the parameters of interest (swh\_ku, swh\_c...)
- And download: you begin immediately to have files on your computer (standardized NetCDF4 files).

## You want

- To compute Sea Level Anomalies from GDRs using the new FES2012 tide model

## Previously

- You waited for a GDR re-processing.

## With ODES

- You chose the “enhanced GDRs” product
- You select the satellite, the period
- You select the tide correction from FES, as well as the other corrections you want
- You download.



## ODES can distribute operational and research-grade products

- from reference products (CNES missions)
- from CNES CALVAL activities (L2P on all altimetry missions)
- from LEGOS (L2P and L3)
- experimental algorithms and data from the OSTST community
- from non-CNES missions (after agreement of partner agency)

## Fall 2013 (ramp-up phase)

- GDR-class (level 2)
- PISTACH coastal and hydrology demonstrators (level-2P)
- XTRACK coastal (level 3)
- Additional research-grade parameters (e.g. alternative orbit solutions, alternative geophysical corrections...) from the OSTST PI community

2014 and beyond : CNES willing to improve the MMI, integrate more products from various contributors

## Not just a file/dataset selector

- ODES actually extracts and sends only the measurements and parameters selected with the interface (e.g. 3 parameters in a GDR, subset of 1D track)

## Rapid interface and extraction (a.k.a: we don't keep you waiting)

- File-by-file processing and only when the user is ready to download them
- Your Internet bandwidth is the limit (that... and our watchdog)

## Graphical preview

- You can verify the availability of EACH file disseminated from EACH cycle
- No more time waiting with empty/useless files

## Automated usage is possible for operational users

- HTTPS, FTP and FTPES interfaces
- Set up your parameters with the web portal and your FTP account mirrors your data of interest
- You can receive automatically new cycles after subscription



Online  
Data  
Extraction  
Service

Available this Fall on  
<http://odes.altimetry.cnes.fr/>  
with your AVISO account

Give us your feedback at  
[aviso@oceanobs.com](mailto:aviso@oceanobs.com)

