Aviso Online Data Extraction Service: a new way of disseminating altimetry data

F. Briol[1] aviso@oceanobs.com
F. Birol[2], E. Bronner[3],
G. Dibarboure[1], T. Guinle[3],
O. Lauret[1], R. Morrow[2],
C. Nicolas[3], F. Niño[2],
V. Rosmorduc[1]
(1) CLS, France
(2) LEGOS/CTOH, France
(3) CNES, France

CNES, in cooperation with LEGOS/CTOH and CLS, in the frame of AVISO, is working on a new interface to download altimetry data in an interactive frame.

Context /Rationale

◢ most altimetry users don't need the complete datasets (either or both in content or area covered) (cf SLOOP user survey), including for regional, hydrological, wind/wave applications while few "easy-to-use" datasets exist for those.

◢ updates of GDRs are done when sufficient modifications must be made, but interesting alternate corrections exist in the meantime

◢ A lot of interesting things done in Toulouse, with not always sufficient visibility from the outside
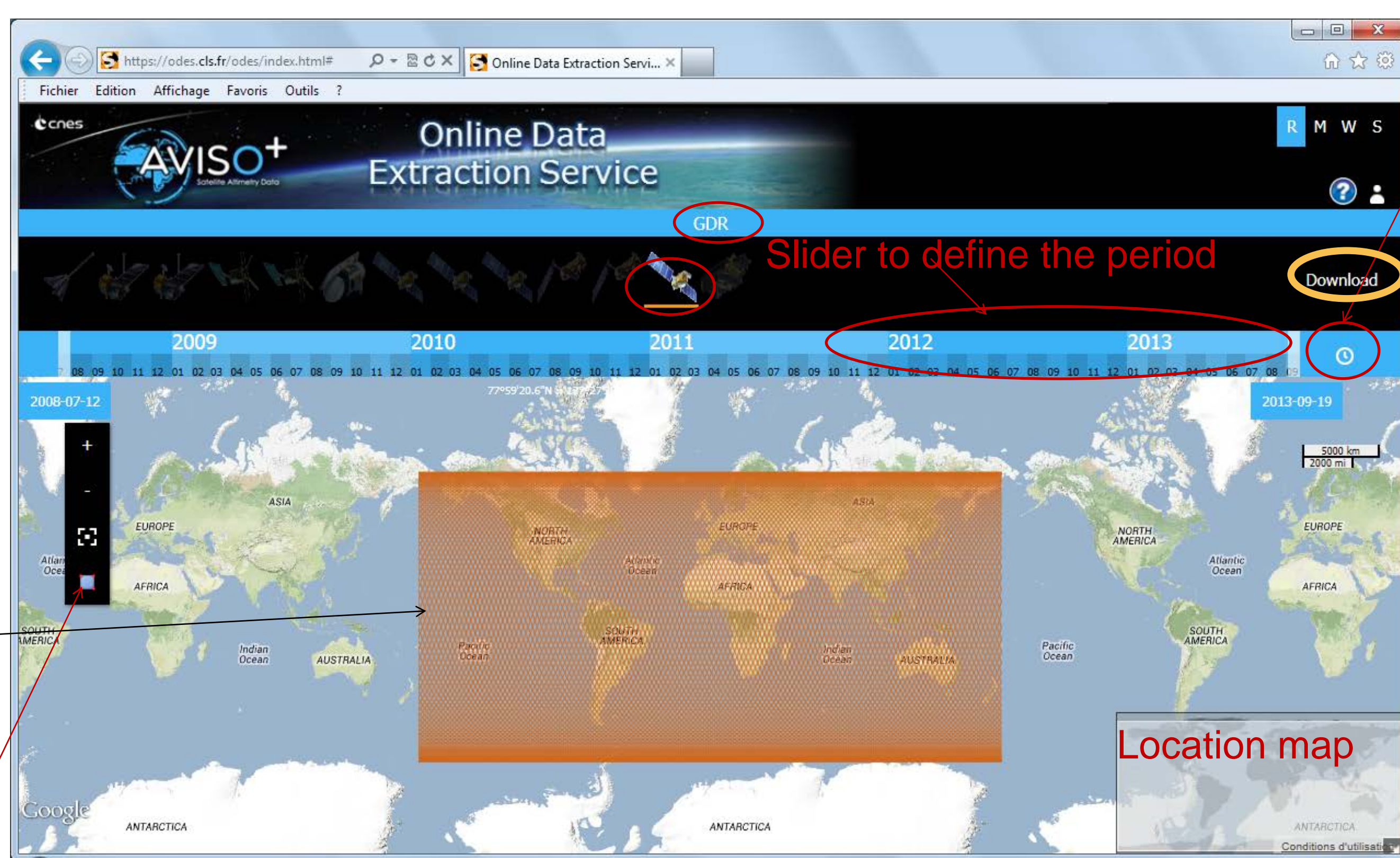
The interface

◢ extraction based on LEGOS/CTOH solution

◢ built on open-source solution and standardized protocols, GUI used and proven for imagery data

◢ possibility of using command-line mode (to use within a script)

◢ showing theoretical ground tracks (depending on the missions / phases chosen), to be able to better select the right area

◢ download after extraction "on-the-fly" (no delay)

Temporal/geographical/parameters extraction
Up-to-date corrections
Official, tailor-made, coastal & regional products available

Selecting...

Text box / calendar (alternate way to define the period)

1/ Product selection →
2/ Mission / phase selection →
3/ Time period selection →

Slider to define the period

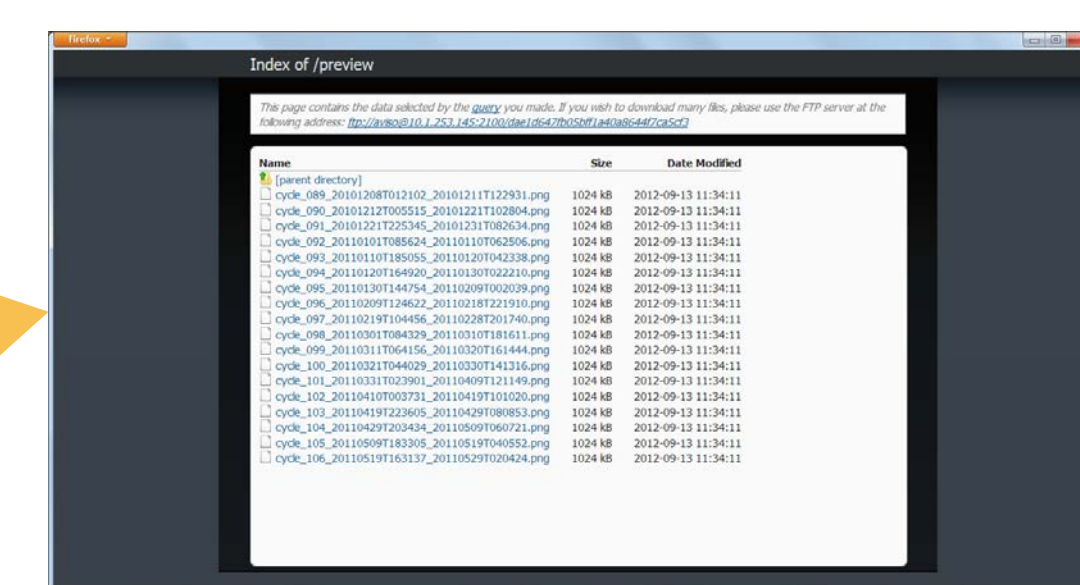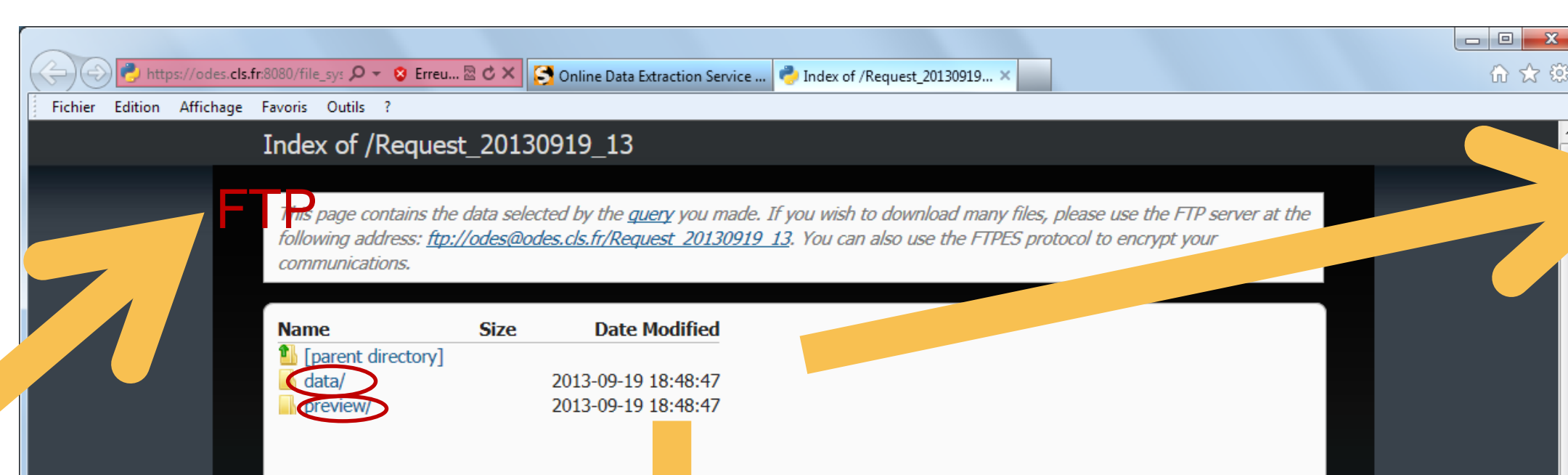Theoretical ground tracks for the selected product / mission / phase

Check your request
Select the variables within the product
Edit the data before downloading
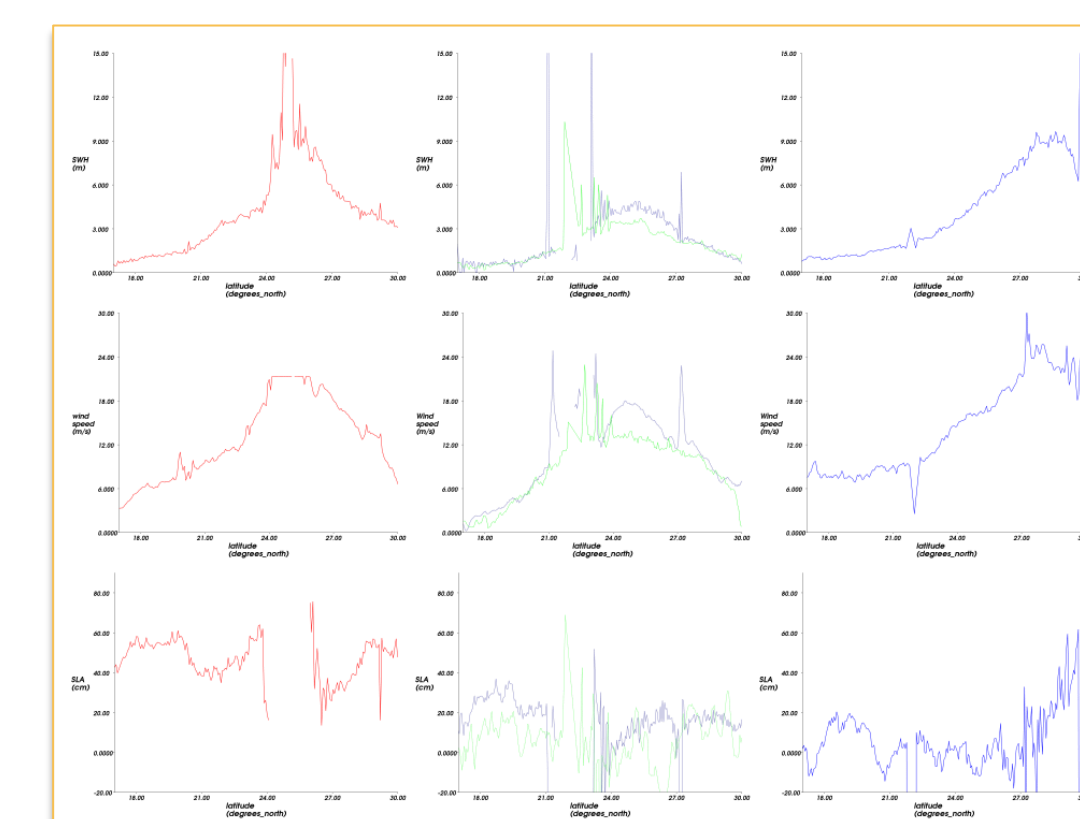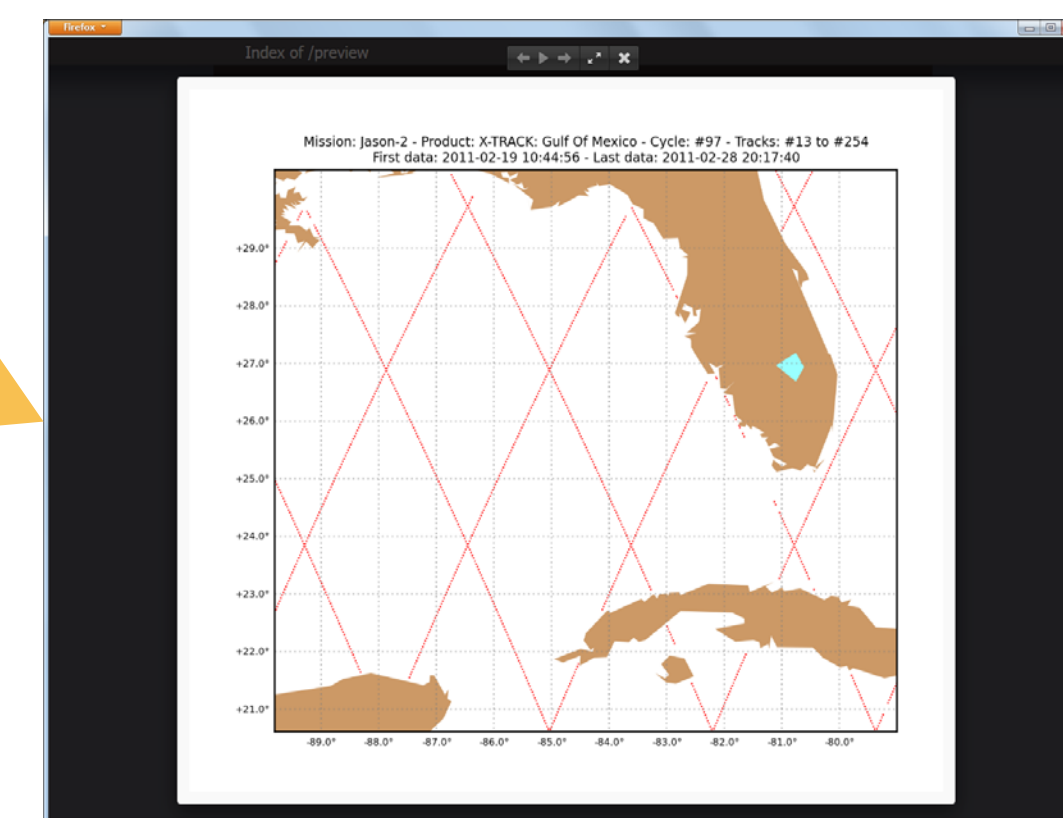min max

Select your area (or keep the whole coverage)

Location map

Available for OSTST testing at
https://odes.altimetry.cnes.fr/
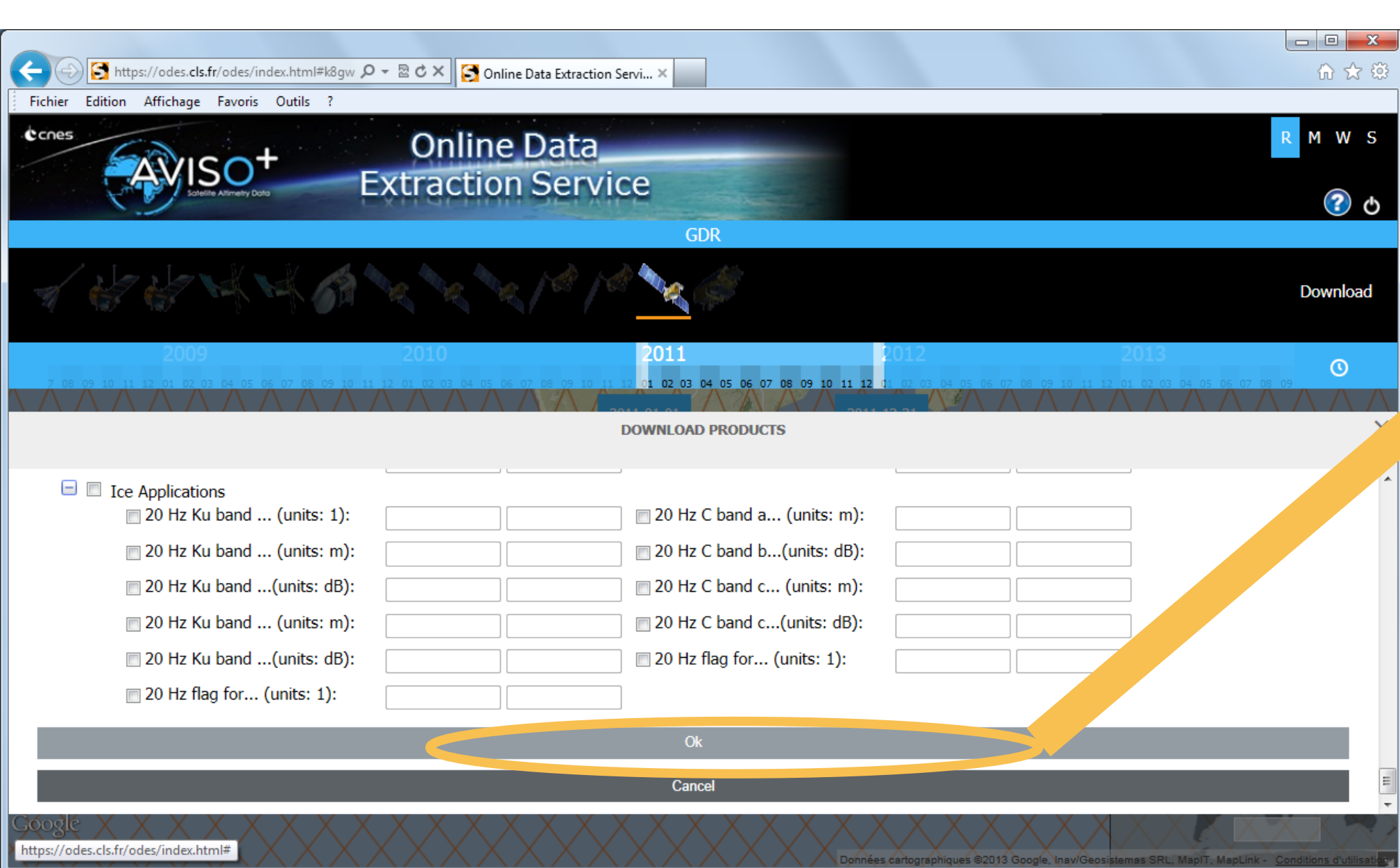
Downloading...

On the fly extraction of data when downloading

On the fly production of previews when downloading

Data & products

Version 1 / OSTST (oct. 2013)

◢ Jason-2 GDRs
◢ CTOH's regional Xtrack

◢ PISTACH coastal and hydrology data
◢ SALP Calval database alternate corrections (Jason-1 and 2, all phases)

Version 1 / public opening: early 2014