



Gestion de données au CTOH

Fernando NIÑO

Expertise en Altimétrie Satellitaire

S.O. INSU depuis 1999
 Florence **Birol** (CNAP)

Objectifs:

- Documenter *sur le long terme* la formation, l'évolution, la variabilité de l'océan, et de faire progresser les connaissances dans ces domaines
- Soutenir le développement et l'utilisation des nouvelles applications altimétriques
- Support aux utilisateurs scientifiques pour les données et des produits dérivés altimétriques
- Assurer le transfert de compétence et d'expertise vers les centres opérationnels (CNES , ESA), et pour définir des nouvelles missions



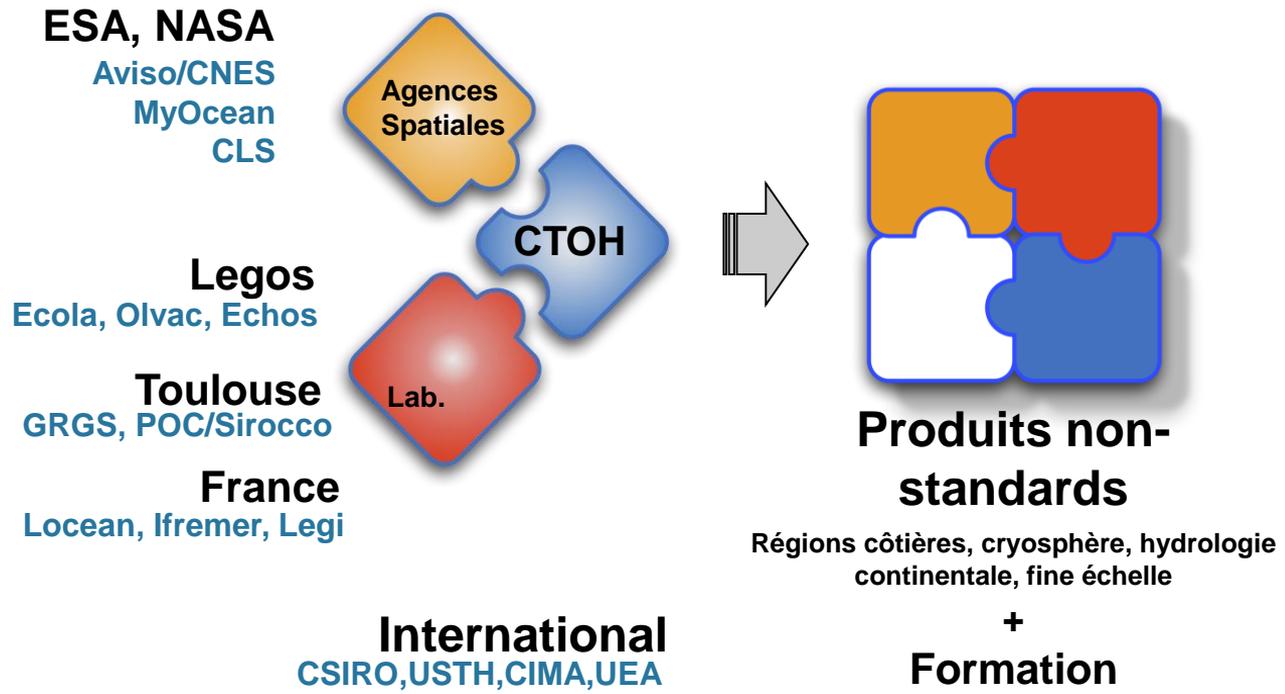


Plan



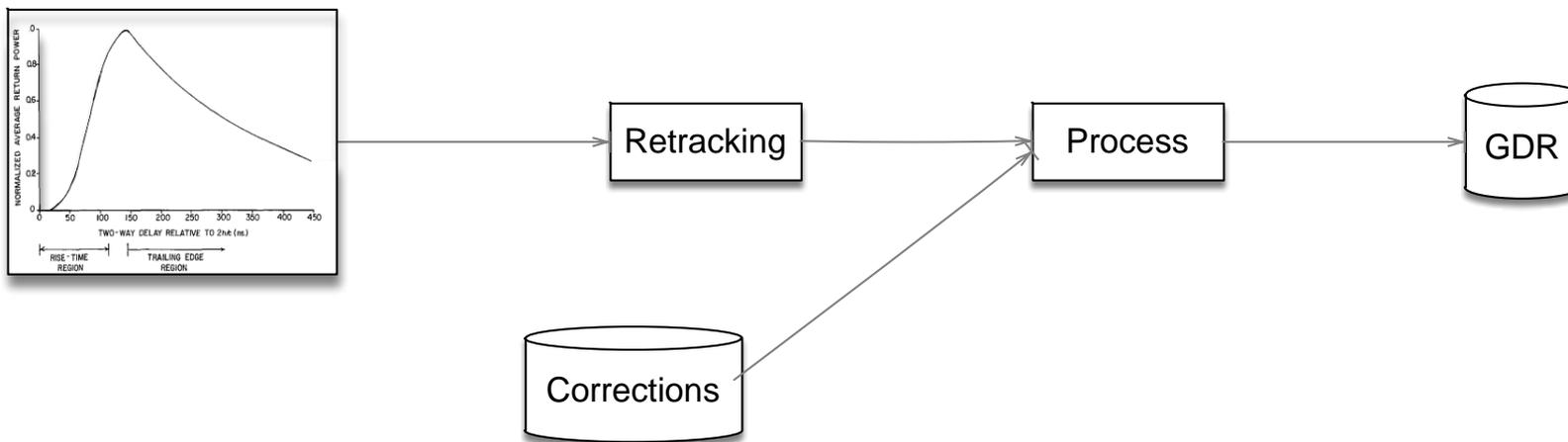
- Partenaires et Environnement
- Produits diffusés
- Entrées, sorties, organisation de la donnée
- Calcul et stockage
- Chaînes de traitement, versions et DOI
- Diffusion

Partenaires et Environnement – Expertise en altimétrie



Produits diffusés

- Produits mono-satellite along-track L2 de référence, long terme
→ retraitements y compris pour produits pas à la mode



- Produits à valeur ajoutée: côtier, épaisseur de la banquise

Entrées, sorties

Entrées

L1 agences spatiales

L2 : GDR produit mono-satellite along-track avec corrections

données auxiliaires

marées

modèles tropo

données ECMWF

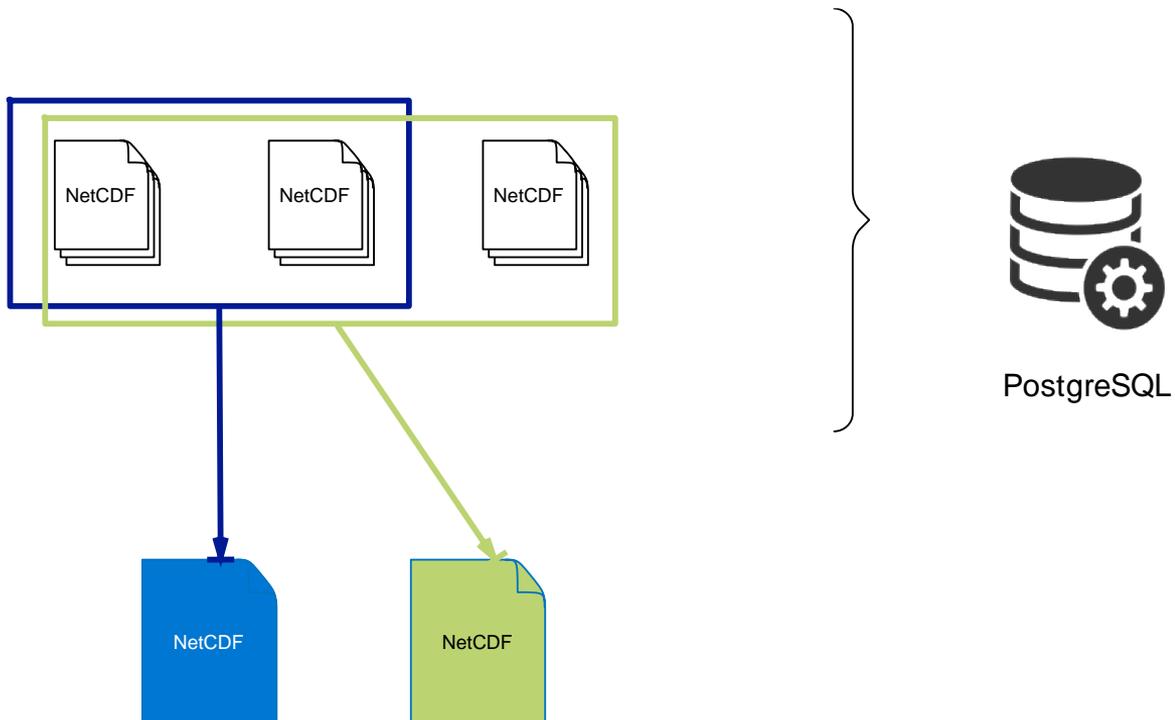
✓ L2 de référence

Sorties

✓ L3: produit mono-satellite validé à valeur ajouté
(typiquement séries temporelles, trace moyenne)

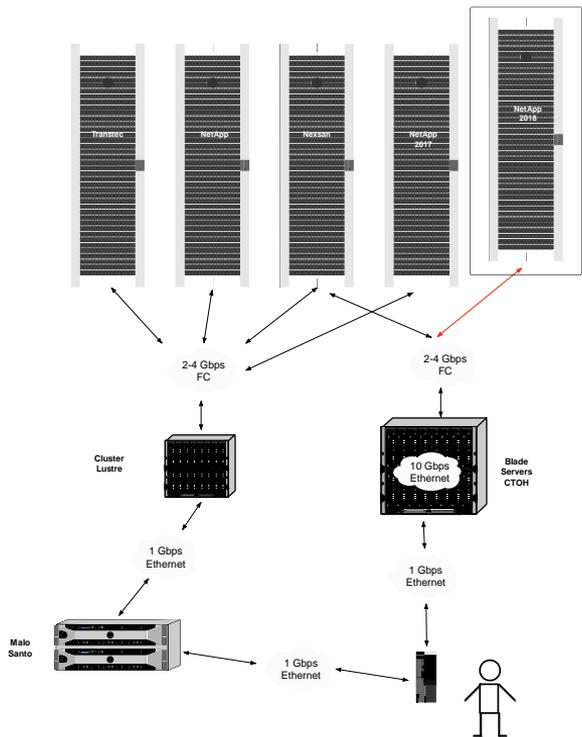
✗ L4 : produit interpolé, sur grille

Organisation de la donnée



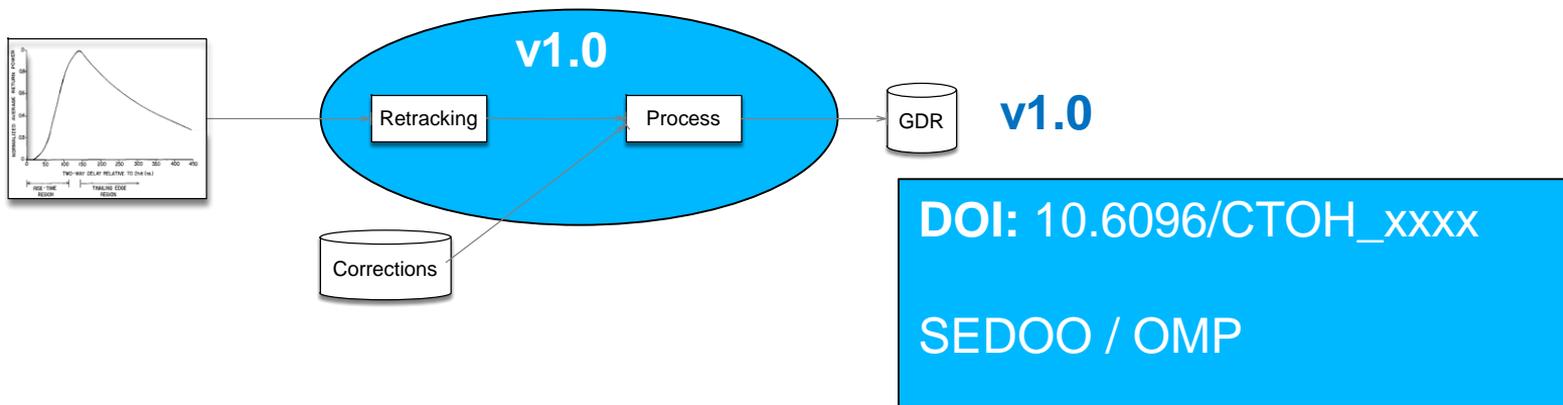
Calcul et Stockage pour la Production

- 130 To de données
- 2 serveurs de calcul
 - 16 cpu & 96 Go RAM
 - 64 cpu & 386 Go RAM



- Cluster G-POD de l'ESA pour traitement SAR
- *Cluster CNES pour SWOT*

Chaînes de traitement, versions et DOI



Web: <http://ctoh.legos.obs-mip.fr>

GDR online data
This form allows you to request a GDR extraction from CTOH datasets.

Other data sets available on request:

When you've established your chosen satellite mission, parameters, region and period, click on "Go to extraction". You will then be able to preview results and request a GDR extraction.

--- Parameters ---
 Prior to selecting any parameter, you need to select a satellite to request data from.
Satellite
 Envisat01 Envisat transmission orbit 1 (phase A, cycles 6 to 26)
 Envisat02 Envisat transmission orbit 2 (phase B, cycles from 66)
 Jason1 Jason1 processing version C (phase A, cycles 1 to 206)
 Jason2H Jason2 processing version C (phase B, cycles from 202)
 Jason2L Jason2 processing version D (cycles from 1)

--- Region of interest ---
 You can select a region by pressing Shift key and dragging a rectangle.
Plan | **Scale**

 Alternatively, you can specify a region by its South-West and North-East corners in WGS 1984.
 SW: NE: **Update map**

--- Parameters ---
 The selected parameters allow you to conveniently initialize the following form:

--- Parameters ---
 Select parameters in this list:
 - ngt_1 (C band corrected ASCII)
 - ngt_1a (Ku band corrected ASCII)
 - ngt_number_of (Number of valid points used to compute C band ASCII)
 - ngt_number_ofa (Number of valid points used to compute Ku band ASCII)
 - ngt_nme_1 (RMS of the C band ASCII)
 - ngt_nme_1a (RMS of the Ku band ASCII)
 - alt (1 Hz altitude of satellite)
 - alt_0100 (0.1 Hz altitude of satellite)
 - alt_min_type (altimeter mode type)
 - alt_min_max_min_max_0100 (0.1 Hz altimeter data flag: acquisition mode)
 - alt_min_max_min_max_1 (altimeter data flag: Ku/C band responding)
 - alt_min_max_min_max_2 (altimeter data flag: C band/altimetry)

--- Cycle selection ---
 Fill in these fields with valid cycle numbers. Check CycleDate conversion page for finding the cycle you need.
 Dates must be specified in YYYY-MM-DD format.
Start

End

 Select an orbit:

--- Cycle selection method ---
 Choose a cycle selection method:

--- First Cycle ---
 Select first cycle:
 41 2009-09-2
 Last Cycle
 Select last cycle:
 41 2009-10-1

Request Preview and Extraction

This tool is designed to allow you to request or subscribe. Please use the top bar above or the key right to do so.

--- Your request ---
 Satellite: Jason2H
 Orbit: Jason2010A
 Region: 20W 00N - 20E 00N - 10E 00N - 10S 00N
 Parameters: ngt_1a, ngt_1, ngt_nme_1a, ngt_nme_1, ngt_nme_2, ngt_nme_2a, ngt_nme_2b, ngt_nme_2c, ngt_nme_2d, ngt_nme_2e, ngt_nme_2f, ngt_nme_2g, ngt_nme_2h, ngt_nme_2i, ngt_nme_2j, ngt_nme_2k, ngt_nme_2l, ngt_nme_2m, ngt_nme_2n, ngt_nme_2o, ngt_nme_2p, ngt_nme_2q, ngt_nme_2r, ngt_nme_2s, ngt_nme_2t, ngt_nme_2u, ngt_nme_2v, ngt_nme_2w, ngt_nme_2x, ngt_nme_2y, ngt_nme_2z, ngt_nme_2aa, ngt_nme_2ab, ngt_nme_2ac, ngt_nme_2ad, ngt_nme_2ae, ngt_nme_2af, ngt_nme_2ag, ngt_nme_2ah, ngt_nme_2ai, ngt_nme_2aj, ngt_nme_2ak, ngt_nme_2al, ngt_nme_2am, ngt_nme_2an, ngt_nme_2ao, ngt_nme_2ap, ngt_nme_2aq, ngt_nme_2ar, ngt_nme_2as, ngt_nme_2at, ngt_nme_2au, ngt_nme_2av, ngt_nme_2aw, ngt_nme_2ax, ngt_nme_2ay, ngt_nme_2az, ngt_nme_2ba, ngt_nme_2bb, ngt_nme_2bc, ngt_nme_2bd, ngt_nme_2be, ngt_nme_2bf, ngt_nme_2bg, ngt_nme_2bh, ngt_nme_2bi, ngt_nme_2bj, ngt_nme_2bk, ngt_nme_2bl, ngt_nme_2bm, ngt_nme_2bn, ngt_nme_2bo, ngt_nme_2bp, ngt_nme_2bq, ngt_nme_2br, ngt_nme_2bs, ngt_nme_2bt, ngt_nme_2bu, ngt_nme_2bv, ngt_nme_2bw, ngt_nme_2bx, ngt_nme_2by, ngt_nme_2bz, ngt_nme_2ca, ngt_nme_2cb, ngt_nme_2cc, ngt_nme_2cd, ngt_nme_2ce, ngt_nme_2cf, ngt_nme_2cg, ngt_nme_2ch, ngt_nme_2ci, ngt_nme_2cj, ngt_nme_2ck, ngt_nme_2cl, ngt_nme_2cm, ngt_nme_2cn, ngt_nme_2co, ngt_nme_2cp, ngt_nme_2cq, ngt_nme_2cr, ngt_nme_2cs, ngt_nme_2ct, ngt_nme_2cu, ngt_nme_2cv, ngt_nme_2cw, ngt_nme_2cx, ngt_nme_2cy, ngt_nme_2cz, ngt_nme_2da, ngt_nme_2db, ngt_nme_2dc, ngt_nme_2dd, ngt_nme_2de, ngt_nme_2df, ngt_nme_2dg, ngt_nme_2dh, ngt_nme_2di, ngt_nme_2dj, ngt_nme_2dk, ngt_nme_2dl, ngt_nme_2dm, ngt_nme_2dn, ngt_nme_2do, ngt_nme_2dp, ngt_nme_2dq, ngt_nme_2dr, ngt_nme_2ds, ngt_nme_2dt, ngt_nme_2du, ngt_nme_2dv, ngt_nme_2dw, ngt_nme_2dx, ngt_nme_2dy, ngt_nme_2dz, ngt_nme_2ea, ngt_nme_2eb, ngt_nme_2ec, ngt_nme_2ed, ngt_nme_2ee, ngt_nme_2ef, ngt_nme_2eg, ngt_nme_2eh, ngt_nme_2ei, ngt_nme_2ej, ngt_nme_2ek, ngt_nme_2el, ngt_nme_2em, ngt_nme_2en, ngt_nme_2eo, ngt_nme_2ep, ngt_nme_2eq, ngt_nme_2er, ngt_nme_2es, ngt_nme_2et, ngt_nme_2eu, ngt_nme_2ev, ngt_nme_2ew, ngt_nme_2ex, ngt_nme_2ey, ngt_nme_2ez, ngt_nme_2fa, ngt_nme_2fb, ngt_nme_2fc, ngt_nme_2fd, ngt_nme_2fe, ngt_nme_2ff, ngt_nme_2fg, ngt_nme_2fh, ngt_nme_2fi, ngt_nme_2fj, ngt_nme_2fk, ngt_nme_2fl, ngt_nme_2fm, ngt_nme_2fn, ngt_nme_2fo, ngt_nme_2fp, ngt_nme_2fq, ngt_nme_2fr, ngt_nme_2fs, ngt_nme_2ft, ngt_nme_2fu, ngt_nme_2fv, ngt_nme_2fw, ngt_nme_2fx, ngt_nme_2fy, ngt_nme_2fz, ngt_nme_2ga, ngt_nme_2gb, ngt_nme_2gc, ngt_nme_2gd, ngt_nme_2ge, ngt_nme_2gf, ngt_nme_2gg, ngt_nme_2gh, ngt_nme_2gi, ngt_nme_2gj, ngt_nme_2gk, ngt_nme_2gl, ngt_nme_2gm, ngt_nme_2gn, ngt_nme_2go, ngt_nme_2gp, ngt_nme_2gq, ngt_nme_2gr, ngt_nme_2gs, ngt_nme_2gt, ngt_nme_2gu, ngt_nme_2gv, ngt_nme_2gw, ngt_nme_2gx, ngt_nme_2gy, ngt_nme_2gz, ngt_nme_2ha, ngt_nme_2hb, ngt_nme_2hc, ngt_nme_2hd, ngt_nme_2he, ngt_nme_2hf, ngt_nme_2hg, ngt_nme_2hh, ngt_nme_2hi, ngt_nme_2hj, ngt_nme_2hk, ngt_nme_2hl, ngt_nme_2hm, ngt_nme_2hn, ngt_nme_2ho, ngt_nme_2hp, ngt_nme_2hq, ngt_nme_2hr, ngt_nme_2hs, ngt_nme_2ht, 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ngt_nme_2zp, ngt_nme_2zq, ngt_nme_2zr, ngt_nme_2zs, ngt_nme_2zt, ngt_nme_2zu, ngt_nme_2zv, ngt_nme_2zw, ngt_nme_2zx, ngt_nme_2zy, ngt_nme_2zz

--- Preview ---
 Make sure requesting an extraction: your satellite request will be processed. We will be in touch with you.
 Parameters:
 Send the parameters to CTOH. If no image is generated, the user might be too big.

FTP après requête par
formulaire ou
demande par mél.

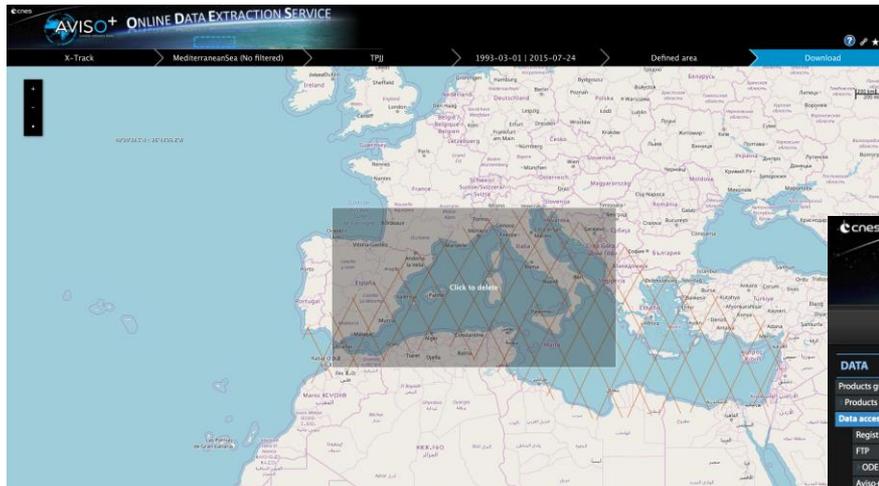
The screenshot shows the registration form for the CTOH (Center for Topographic studies of the Ocean and Hydrography) FTP service. The form is titled "ERS-2 data request form" and includes the following sections:

- Personal information:** Fields for Name (with a dropdown menu for titles like Doctor, PhD Student, Engineer, Scientist, Mr., Ms., Dr.), Last name, First name, Organization, Country, and E-Mail Address.
- Scientific information:** Fields for Objective and Description of the intended study.
- Study area:** A field for the study area, with a note to include latitude/longitude or grid.
- Terms and conditions:** A checkbox to accept the CTOH data use policy, followed by a detailed paragraph explaining the CTOH's mission and the conditions of data use.
- References for citing this data:** A list of references for citing the data, including "Dataset: Atlantic data of the ERS-2 mission" and "Fournier, F., Barret Lagarde, F., Fournier, N., Fournier, B., Nicolas, B., Nodet, J., Sarda, P., Fournier, B., and S. Carnot, 2016, 'The ERS-2 Monthly Reprocessing Computed with DDM3SAT for Long-Term Land and Ice Sheets Studies', Remote Sensing of the Environment, vol. 176, pp. 101-117."

Diffusion

Aviso+ : ODES & FTP Aviso standard

<http://odes.altimetry.cnes.fr>



DATA

Products guide
Products

Data access

- Registration form
- FTP
- ODES (Online Data Extraction Service)
- Aviso+ CNES Data Center
- LAS (Live Access Server)
- Aviso+ Opendap
- Gridded Data Extraction Tool

Tools

- Product information
- CALVAL
- Operational information

NEW AUTHENTICATION SERVICES

Aviso proposes several ways of accessing data. Some of them need an authentication to get access. If you are not registered and want to access to an authenticated service, we request you to fill in the online form.

Since March 26th 2018, the new authentication services are available as described below:

| Services | Until May 31st, 2018 | From today with new login/password delivered by Aviso+ |
|------------------------------|---|---|
| My private space "My AVISO+" | No | Yes click here |
| FTP | ftp.aviso.altimetry.fr | ftp-access.aviso.altimetry.fr |
| Gridded Data Extraction tool | " http://motu.aviso.altimetry.fr/aviso-gateway-service/Motu " | " https://motu.aviso.altimetry.fr/motu-web/Motu " |
| OpenDap | " http://opendap.aviso.altimetry.fr/thredds/catalog.html " | " https://ids.aviso.altimetry.fr/thredds/catalog.html " |
| odes | http://odes.altimetry.cnes.fr/ <small>(still valid after May 31)</small> | No connexion available. <small>Please contact Aviso+ service desk.</small> |

AVISO+ ONLINE DATA EXTRACTION SERVICE



Merci pour votre attention