



ATELIER ODATIS COULEUR DE L'EAU 2023

CNES Paris

6-8 mars 2023

D.Doxaran (LOV), V.Vantrepotte (LOG), S.Schmidt (EPOC/ODATIS)

Anne Lifermann (CNES) thématicienne côtier, cryosphère

Pas de mission spatiale couleur Fr > pas de science team, pas de 'segment sol' dédié...

- **Se Réunir et Echanger en tant que Communauté Nationale**
- **Faire un panorama des travaux en cours**
- **Exprimer les besoins de la communauté spatiale Couleur Fr**
- **Remonter ces besoins vers ODATIS puis DATA TERRA**
- Discuter avec composante in-situ côtière (Rep ILICO, RESOMAR)
- Discuter avec le CES THEIA Eaux Continentales
- **ODATIS = tremplin**
 - Vers DATA Terra
 - Préparer les réponses aux appels d'offre (PEPR, niveau européen ESA, EUM, H Europe, CMEMS, C3S...)
- **Donner de la visibilité aux travaux /publications**
 - Highlights Comité TOSCA
 - Forum IOCCG

- **Atelier ODATIS 2023 Couleur de l'Océan (CNES Paris 6-8/03/2023)**
 - ❖ Programme : D.Doxaran (LOV), V.Vantrepotte (LOG)
 - ❖ **Avancement de 2 actions en cours (CNES)**
 - Besoin OC-MR : développement ACRI en cours
 - Besoin Marées pour S2 (persp TRISHNA) : instruction (spécification, chiffrage en cours)
 - ❖ SS-groupe travail **hyperspectral** (A.Minghelli)
 - ❖ Proposition de ss-groupe de travail **IRT** Côtier et eaux continentales contacts E.Autret-IFREMER-
 - ❖ Session IF ODATIS/THEIA Côtier et eaux continentales

3 conferences opportunities OC in 2023



HYPERNETS Science Conference

In situ radiometry for water and land surfaces. (www.hypernets.eu)

Calibration and Validation of optical imaging satellites, including cubesats

- In situ optical instrumentation (radiometers, cameras, sunphotometers, polarimeters, lidar)
- Automated measurement systems for remote locations
- Angular variability of water and/or land surface reflectance (BRDF/HDRF)
- In situ measurement data processing, quality control and uncertainty estimation
- Ground-based measurements of atmospheric optical properties

The deadline for abstract submission is 25 February 2023.



ASLO Aquatic Sciences Meeting 2023, Meeting 4 – 9 June 2023 in Palma de Mallorca, Spain.

The deadline for abstract submission is 23 February 2023.

[Session SS102: Inland and Coastal Aquatic Ecosystems Monitoring from In Situ and Satellite](#)

[Radiometric Measurements](#)

focuses on monitoring coastal and inland waters ecosystems to understand ecosystem functioning, ensure sustainable practices, and assess the impact of human activities.

The session is open to all contributions presenting novel applications of inland and coastal aquatic monitoring based on visible and NIR radiometric remote sensing data either from satellite or in situ sensors

[SS055 Remote Sensing of Freshwaters Health from Local to Global Scales Under Climate Change](#)

focuses on understanding the long-term effects and the complex responses of lakes and inland waters in a changing environment.

The session is open to contributions that have developed and/or employed remote sensing methods to investigate the effects of climatic and anthropogenic drivers on inland waters with a particular focus on their ecosystem health.

2023 International Ocean Colour Science Meeting

The fifth International Ocean Colour Science (IOCS) meeting will take place in St. Petersburg, FL, USA from 14 – 17 November 2023, and will be convened by the International Ocean Colour Coordinating Group (IOCCG) in partnership with the University of South Florida, and thanks to sponsorship from several sponsors.



More at iocs.ioccg.org

- OPPORTUNITE VenμS VM5 : 15 sites côtiers <https://www.theia-land.fr/product/venus-2/>
- QUELS SONT VOS RETOURS? < REVEX fin 2023

URGENCE TRISHNA (2025) !!

- Complémentarité VIS+ IRT
- TRISHNA Point clé de définition du segment sol CNES fev 23
 - ❖ Relecture ATBD en cours
 - ❖ Définition des traitements et produits spécifiques côtiers L2B
- CAL/VAL OC ?
- Appel à volontaires

➤ Intérêt ss-gpe IRT /Couleur?

➤ Besoins IRT/Couleur ?

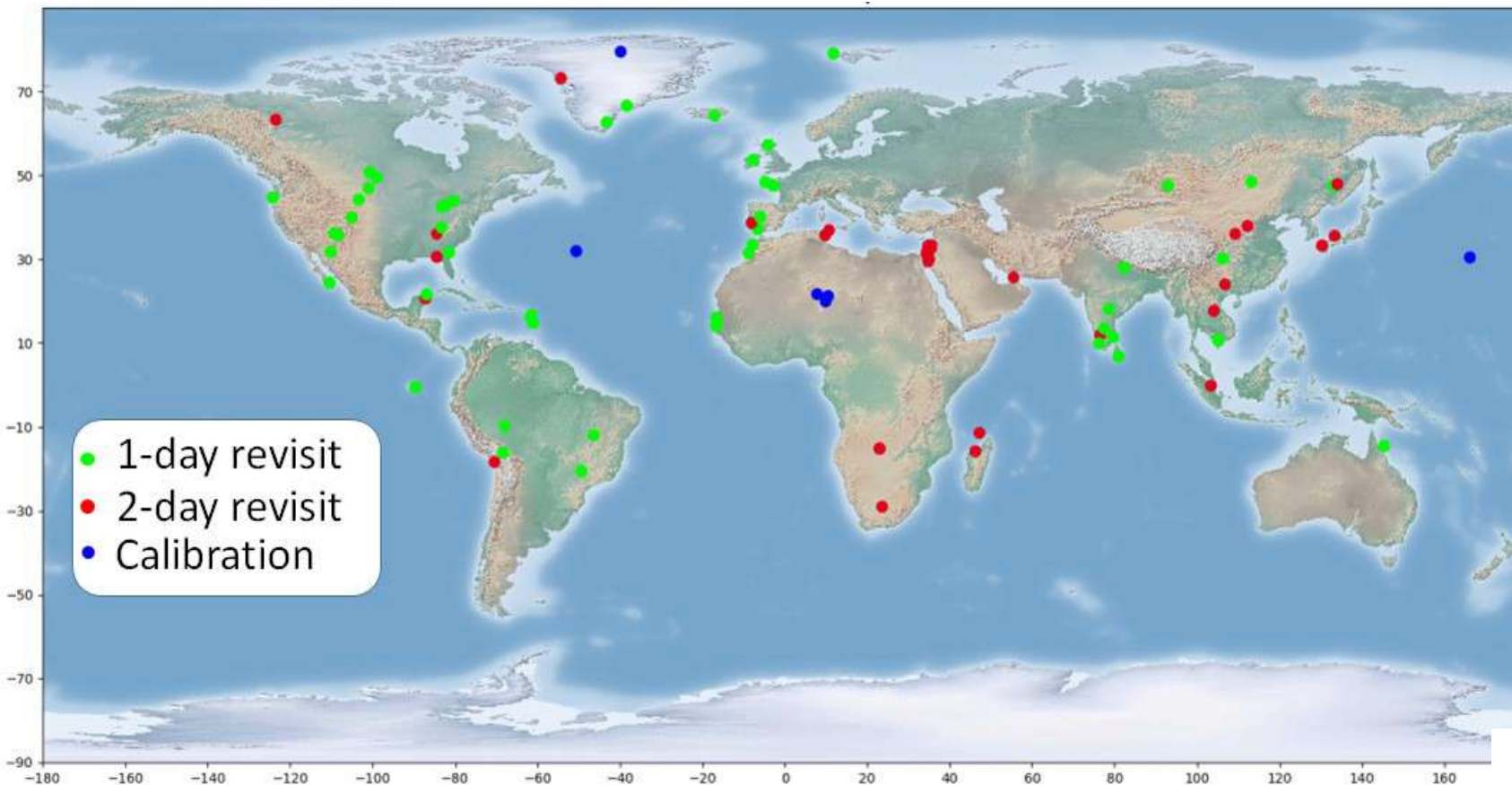
Rejoindre APR-CLEC

Contact E.Autret (IFREMER) , S.Saux-Picard (MF)

2 conférences IRT 2023

- WORKSHOP LSTM 10-12 mai 2023, ESA/ESRIN
International Workshop on High-Resolution Thermal EO
<https://thermal2023.esa.int/>
- GHRSS 2023 en Inde





Sites and Products

- ✓ Around 105 sites to be provided
- ✓ Level-1, Level-2 and Level-3
- ✓ Available (except for Israel) on CNES THEIA data portal

VM5 : Location and repetitivity/status of the 105 sites selected after an international call for proposals

<https://catalogue.theia-land.fr/>



Après une première phase de mission scientifique réussie (VM1) jusqu'en octobre 2020, VEN μ S a commencé sa dernière phase scientifique, VM5, en mars 2022 :

- une résolution spatiale de 4,1 m
- une fréquence de revisite d'un jour.

Septembre 2022 : fin de recette en vol : Bonnes performances radiométriques et géométriques

Ouverture progressive des données sur THEIA en commençant par le niveau 1, puis niveau 2 et 3.

The Ven μ s ground segment has started* the production and distribution of VEN μ S L1C data (ortho-rectified data expressed in TOA reflectance). In a few weeks, we will also process level 2A data (with cloud masks and after atmospheric correction).

*start with real time production, so the available data ranges between mid and end december. January will soon appear, and backward reprocessing.

- L1C can be downloaded from <https://theia.cnes.fr/> and then click on VEN μ S VM5
- Or directly from <https://theia.cnes.fr/atdistrib/rocket/#/search?collection=VENUSVM05>