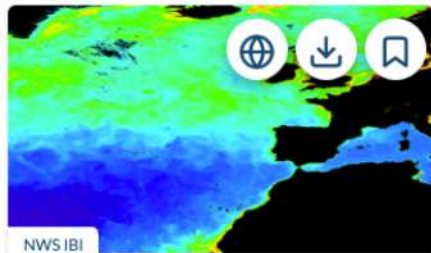


➔ Global and regional OC satellite-derived L3 and L4 products available at 0,3, 1 and 4km spatial resolutions



North Atlantic Surface Chlorophyll Concentration From Satellite Observati...

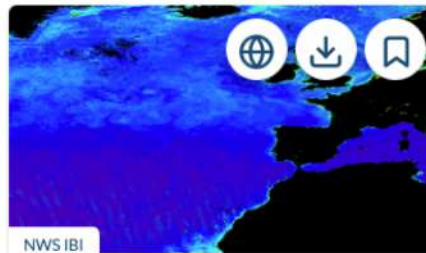
OCEANCOLOUR_ATL_CHL_L4_NRT_OBSERVATI...

CHL

From 2016-04-25 To Present

0.3 km x 0.3 km

Observation L4



North Atlantic Attenuation Coefficient At 490Nm: Monthly

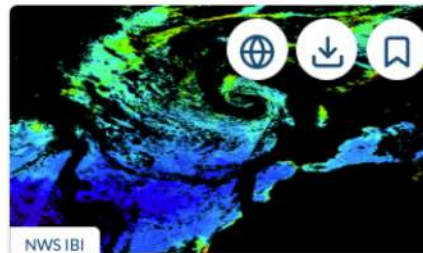
OCEANCOLOUR_ATL_OPTICS_L4_NRT_OBSERVA...

KD

From 2016-04-25 To Present

0.3 km x 0.3 km

Observation L4



North Atlantic Surface Chlorophyll Concentration From Satellite Observati...

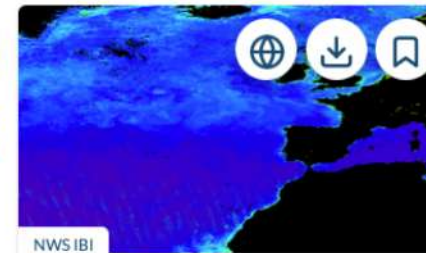
OCEANCOLOUR_ATL_CHL_L3_NRT_OBSERVATI...

CHL

From 2016-04-25 To Present

0.3 km x 0.3 km

Observation L3



North Atlantic Remote Sensing Reflectances, Attenuation Coefficient A...

OCEANCOLOUR_ATL_OPTICS_L3_NRT_OBSERVA...

RRS SPM CDM APHY KD

From 2016-04-25 To Present

0.3 km x 0.3 km

Observation L3



BAL NWS IBI MED BS

European Sea Surface Chlorophyll Concentration From Multi Satellite Obs...

OCEANCOLOUR_EUR_CHL_L3_NRT_OBSERVATI...

CHL

From 2019-01-01 To Present

1 km x 1 km

Observation L3



L4: Daily Interpolation

North Atlantic Chlorophyll (Copernicus-globcolour) From Satellite Observations...

OCEANCOLOUR_ATL_CHL_L4_NRT_OBSERVATI...

CHL

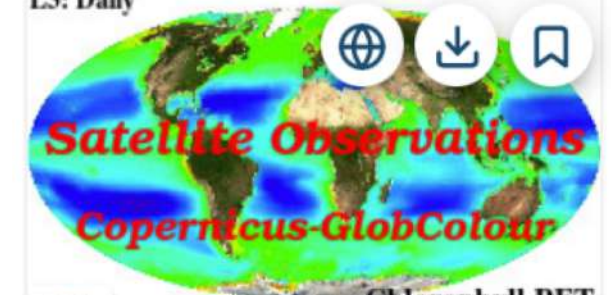
From 2021-07-01 To Present

1 km x 1 km

Observation L4

- Chl
- Rrs
- IOPs
- SPM, CDM
- PFTs

L3: Daily



Satellite Observations
Copernicus-GlobColour

GLO Chlorophyll, PFT

Global Ocean Chlorophyll, Pp And Pft (Copernicus-globcolour) From Satellite ...

OCEANCOLOUR_GLO_CHL_L3_NRT_OBSERVATI...

CHL PFT PSC

From 2021-01-01 To Present

0.3 km x 0.3 km

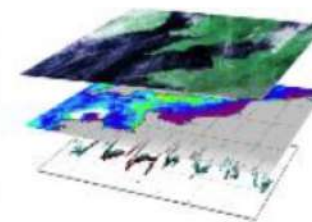
Observation L3

Surface only
daily mean

About the project

Kalicôtier is an ocean colour data server dedicated to the study of coastal regions of major oceanographical interest. The goal is to provide extensive datasets of ocean colour remote-sensing data together with in situ measurements and related publications, on dedicated coastal sites. Each site is managed in partnership with a researcher of the scientific community locally involved in the region, who insures relevance and update of the information.

The current version of Kalicôtier is in demonstration mode with the MERIS Full Resolution (300m) archive on five coastal sites. For any comment or feedback, please e-mail us at kalicotier@gis-cooc.org.

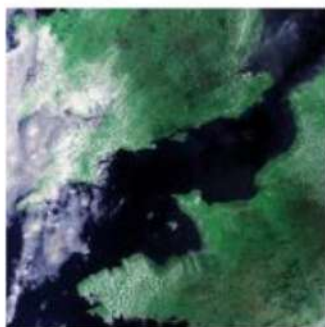


Data Access

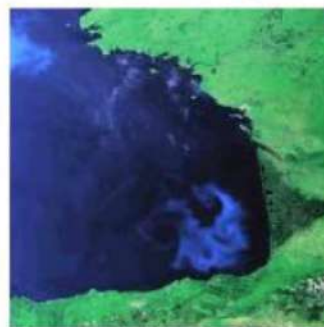
Ligurian Sea



English Channel



Bay of Biscay



New Caledonia - Vanuatu



Mekong - South Vietnam



Informations générales région

Visualisation des données

Téléchargement

Deux versions de processeur

Correspondants scientifiques & laboratoires associés

Carte des produits

Sélection des paramètres: Période, Niveau de traitement, Produits de sortie, Visualisation des RGB

Documentation & Bibliographie sur la zone

Série temporelle

Résultat de validation (MERMAID)

Réception des données sur FTP, e-mail de confirmation

Localisation sur GGE

The screenshot shows the ODESA online processing interface. At the top, there are navigation links: 'Data access', 'Conditions of use', 'Contact', 'FAQ', and 'Logout'. The main header includes 'English Channel' and 'Processing version: MEGS 8.1' with a dropdown menu showing 'MEGS 8.1' and 'SAABIO'. Below this is a 'Quick view' section with 'Field: chlorophyll_1' and 'Date: 20020719'. The central part of the interface is a map titled 'Carte des produits' showing chlorophyll concentration in the English Channel. To the right is the 'MERIS FR data download' section, which includes a 'Date range' (From: 20020719, To: 20020719), a 'Level' selection (Level 1, Level 2 MEGS 8.1), and a list of 'Level 2 fields' including 'chlorophyll_1', 'chlorophyll_2', 'PAR', 'SPM', 'yellow_substance', 'I2_flags', 'nrns_412', 'nrns_443', 'nrns_490', and 'nrns_510'. There are buttons for 'select/unselect all', 'Preview composite images', and 'Launch request'. At the bottom, there are sections for 'Time series' and 'Validation' (MERMAID). The left sidebar contains 'Partnership' information for LOG, ULCO, and SOMLIT, and 'Documentation' with references to scientific papers.



Landsat

Landsat, a joint program of the USGS and NASA, has been observing the Earth continuously from 1972 through the present day. Today the Landsat satellites image the entire Earth's surface at a 30-meter resolution about once every two weeks, including multispectral and thermal data.

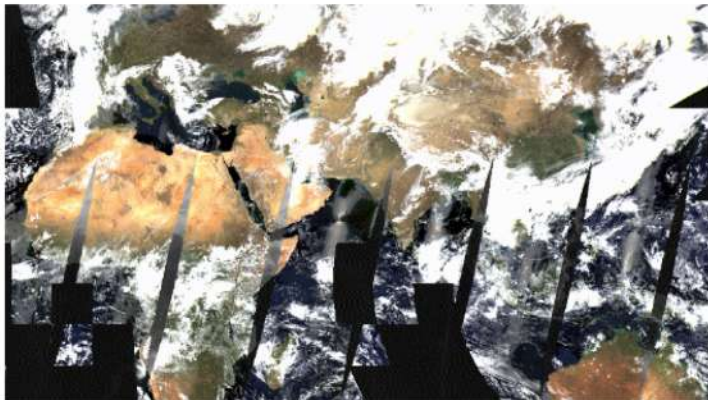
[Explore Landsat](#)



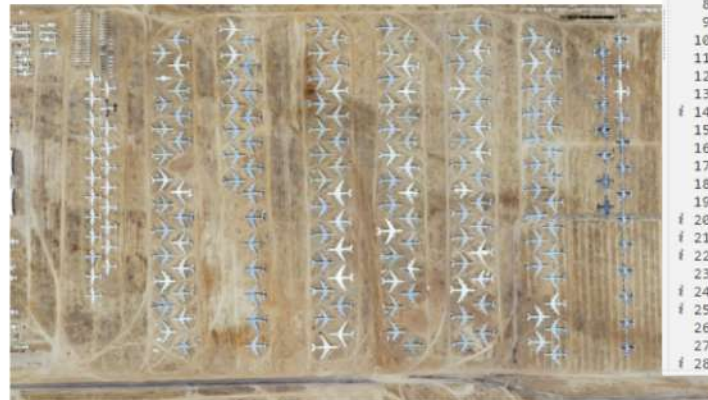
Sentinel

The Copernicus Program is an ambitious initiative headed by the European Commission in partnership with the European Space Agency (ESA). The Sentinels include all-weather radar from Sentinel-1A and -1B, high-resolution optical images from Sentinel 2A and 2B, as well as land data suitable for environmental and climate monitoring from Sentinel 3.

[Explore Sentinel](#)



MODIS

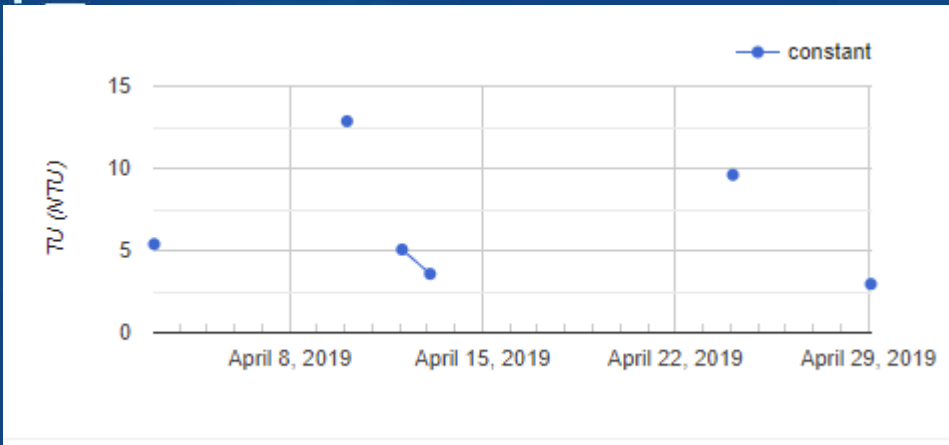


HR

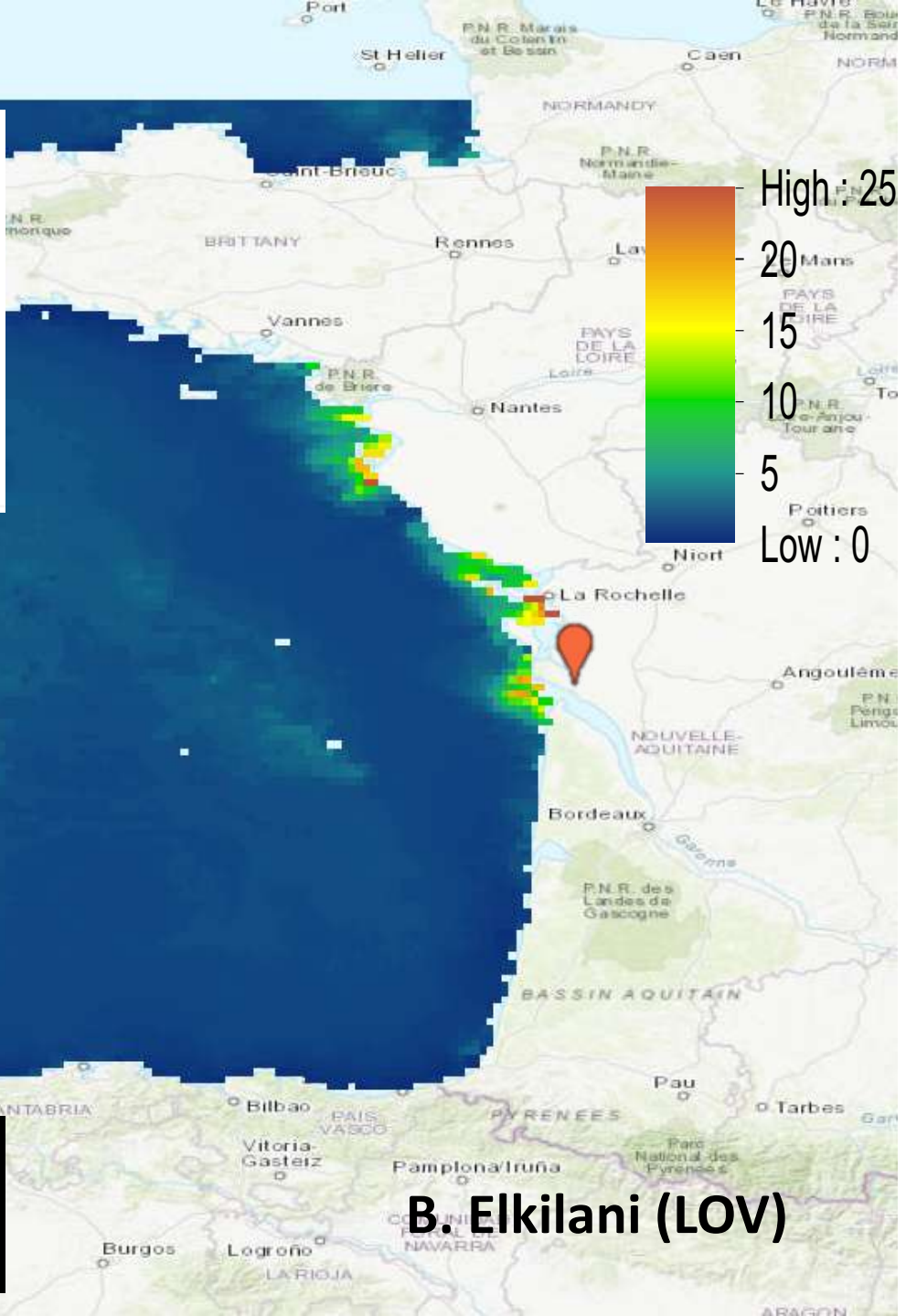
- Algorithmes 'standards' multi-capteurs
- Couverture globale
- Séries temporelles complètes

```
script final master *
  Imports (6 entries)
  var geometry1: Table users/boubakerekilani/limite
  var D: ImageCollection "Ocean Color SMI: Standard Mapped Image MODIS Aqua Data"
  var imageVisParam: constant_mean to 0
  var geometry: Polygon, 4 vertices
  var geometry2: Point (-1.45, 45.61)
  var geometry3: Polygon, 4 vertices

1 //filtrage et découpage de zone d'étude
2 var T = D.filterBounds(geometry3)
3 print(T)
4 print(T.size())
5 var S = T.filterDate( '2019-04-01' , '2019-04-30' )
6 print(S.size())
7 var image = S.select('sst')
8 function clip(image){
9   return image.clip(geometry1)
10  var SSTcollection = S.map(clip);
11  print(SSTcollection);
12  //Map.addLayer(SSTcollection)
13  //coube de ttemperature 2018
14  var TemPRATURE =SSTcollection.select([' sst' ])
15  var series1 = ui.Chart.image.series(
16  TemPRATURE, geometry1, ee.Reducer.mean(), 500);
17  series1.setOptions({title: '',
18  vAxis: {title: 'SST(°C)',
19  lineWidth: 2,
20  pointSize: 0,})
21  series1.setChartType('ScatterChart')
22  print(series1)
23  //valeur moyenne de ttemperature GEOTIF
24  var meanTEM = TemPRATURE.reduce(ee.Reducer.mean())
25  print(meanTEM)
26  //Map.addLayer(meanTEM)
27  // COURBE DE CHLOROPHYLE 2018
28  var image2 = S.select('chlor a')
```



- Produit généré en <1mn (un mois)
- Un année de produits : 4 mn



Composite mensuel (moyenne)
turbidité / Avril 2019
MODIS-Aqua / 500 m

B. Elkilani (LOV)

Expression des besoins MR

Rrs (multi-AC), IOPs, MES, Chla, POC, CDOM, DOC

→ Séries temporelles depuis 2000 à 300 m
(MODIS-A, MERIS, OLCI, VIIRS?)

→ Validations locales (SNO IR-ILICO)

→ Zones hors France métropolitaine

Produits satellitaires : réflectance multi-spectrale de l'eau (corrections atmosphériques : POLYMER, ACOLITE et SeaDAS : (MUMM et NIR-SWIR)), les propriétés optiques inhérentes (IOPs), K_d , turbidité, concentrations en MES et Chla, CDOM, POC et DOC).

Séries temporelles : MODIS-Terra 250 m (depuis 2000) et MODIS-Aqua 250 m (depuis 2002), combinées aux mêmes produits satellitaires MERIS (2003 à 2012) et OLCI (depuis 2016).

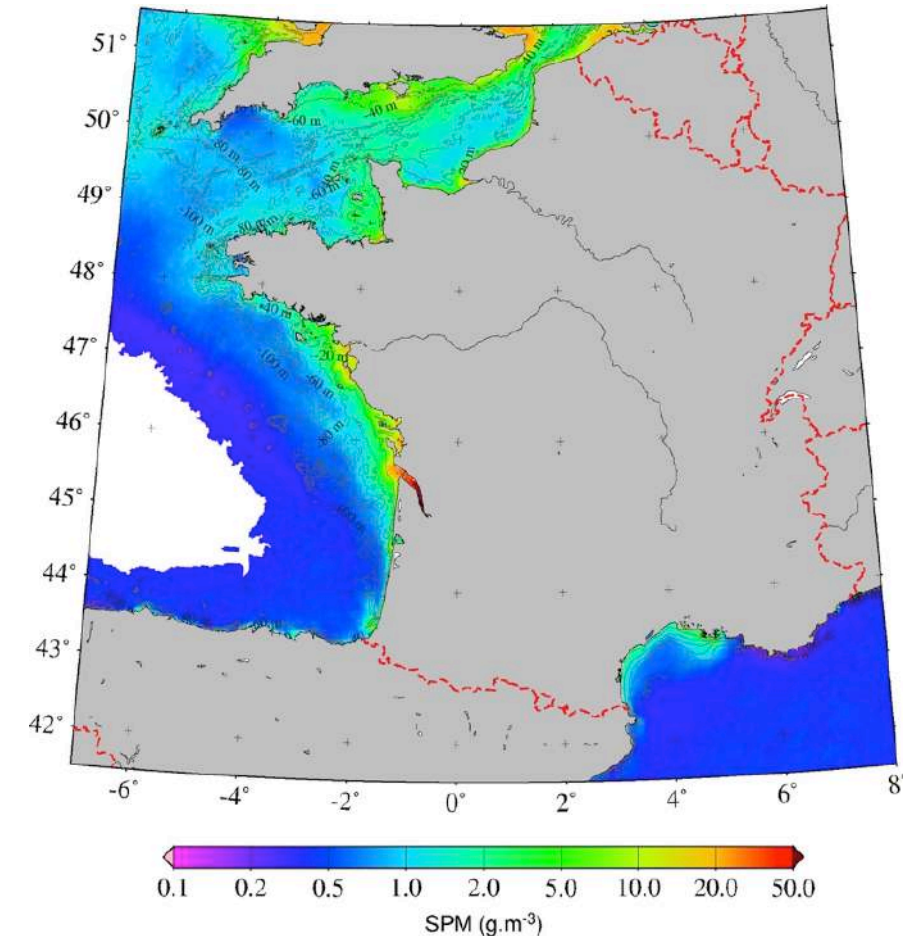


Figure 2. Emprise spatiale des données MR pleine résolution (MODIS, MERIS, OLCI) souhaitées.