



Copernicus supporting the Marine Strategy Framework Directive Copernicus for Local and Regional Authorities

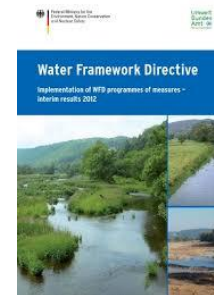


European Directives on coastal areas

- ✓ **Water Framework Directive (WFD)**
- ✓ **Marine Strategy Framework Directive (MSFD)**
- ✓ **Recommendation on Integrated Coastal Zone Management**
- ✓ **Bathing Water, Habitats (Natura2000), ...**

WFD: Good Status for all EU surface and groundwaters by 2015. 2027 final deadline for meeting objectives

MSFD: Good Environmental Status of EU marine waters by 2020





Evaluation of the water/environmental good status by evaluating/monitoring:

- environmental indicators in coastal waters, up to 12 n.m. (WFD)
- 11 status descriptors on marine waters from 1 n.m. (MSFD)

Identified gaps after the first assessment/monitoring cycles:

- ✓ Very large marine areas to monitor
- ✓ In situ measurement/sampling costly and time/space limited
- ✓ Importance of cooperation between bordering Member States



MSFD implementation into national laws ->

- **Appointing of a national referent**
- **Definition of a national monitoring strategy**
- **Bodies responsible for performing at sea monitoring**

Representative example: Italian implementation

- National referent/coordination: Environment Ministry
- EU reporting and scientific guidance: ISPRA (National Institute for Environmental Protection and Research)
- ISPRA defined practices and parameters to be measured
- Monitoring mainly by regional bodies: ARPA (Regional Agency for the Environmental Prevention and Protection)



Marine
Monitoring

Remote sensing of Water Quality

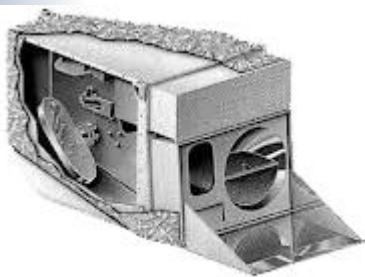
20 years of water quality measurements from Earth Observation (EO)

Large area coverage

High temporal frequency

Scientific community recognizes its value for complementing in situ measurements

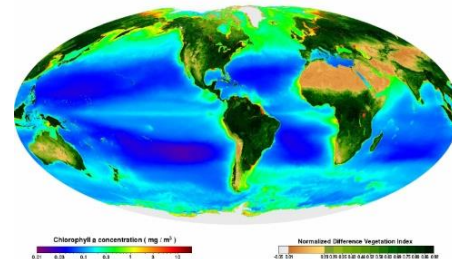
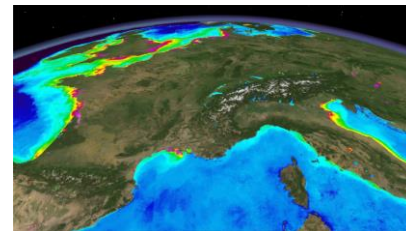
Actual sensor used:



Modis



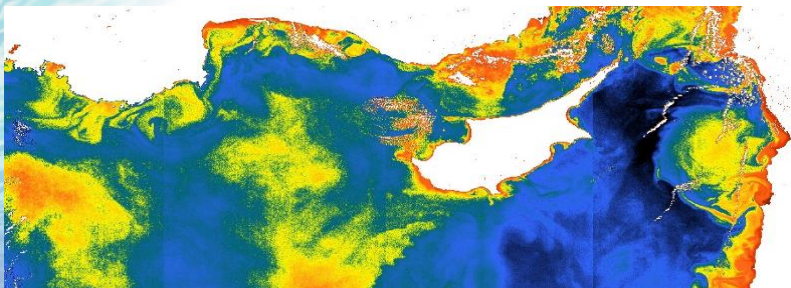
Viirs



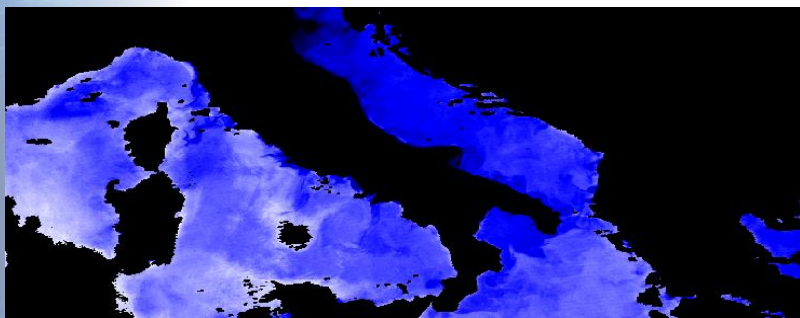


Marine
Monitoring

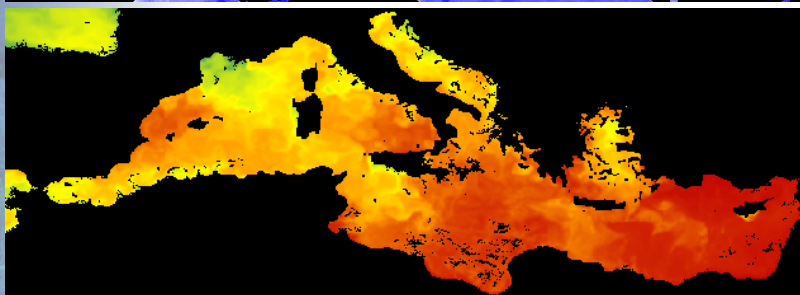
Useful data



Chlorophyll-a concentration



Water transparency



Sea surface temperature

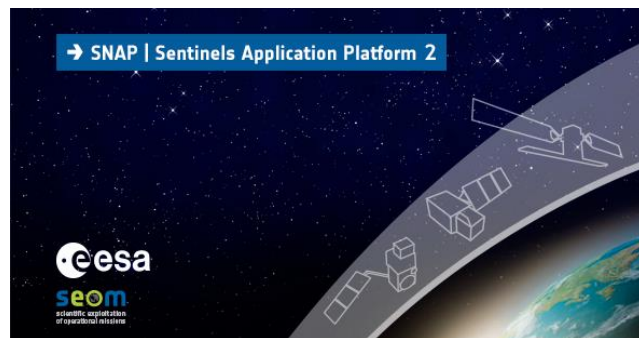


DEMO



Software used:

ESA -SNAP





Marine
Monitoring

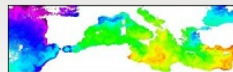
DEMO

Data used:

- Chlorophyll concentration
- Sea Surface Temperature
- Diffuse absorption coefficient (Kd490)


The screenshot shows the Copernicus Marine Environment Monitoring Service (MEMS) website. At the top, there is the European Commission logo and the text "COPERNICUS MARINE ENVIRONMENT MONITORING SERVICE" with the tagline "Providing PRODUCTS and SERVICES for all marine applications". A search bar is located in the top right corner. Below the header is a navigation menu with links for "ABOUT US", "BENEFITS", "NEWS", "SCIENCE & LEARNING", "TRAINING", and "SERVICES PORTFOLIO". The main content area is titled "ACCESS TO PRODUCTS" and includes a "FIRST VISIT?" button. It offers options to "Select your:" "AREA", "PARAMETERS", "TIME COVERAGE", and "OBSERVATIONS/MODELS". Under "OBSERVATIONS/MODELS", there are sub-categories: "MODEL", "SATELLITE OBSERVATIONS", and "INSITU OBSERVATIONS". A date stamp "2016 21 SEP" is visible. Below these are buttons for "PDF CATALOGUE", "OBSERVATIONS OVERVIEW", "ONLINE CATALOGUE", and "MODELS OVERVIEW". On the right side, there is a "SHORT-CUT TO SERVICES" sidebar with links for "REGISTER NOW!", "VALIDATION STATISTICS", "ONLINE TUTORIALS", and "COLLABORATIVE FORUM". Below this is a "LATEST NEWS FLASH" section with the headline "EUROPEAN COMMISSION LAUNCHES COPERNICUS ACCELERATOR" and a "READ MORE" button. At the bottom left, there is an "EVENTS AGENDA" section for "28 MONDAY" and a "PARTNERS AND STAKEHOLDERS" section. The footer contains "SITE MAP - ALL RIGHTS RESERVED".


MEDITERRANEAN SEA HIGH RESOLUTION AND ULTRA HIGH RESOLUTION SEA SURFACE TEMPERATURE ANALYSIS



Metadata provided by CMEMS
Credits: Copernicus Marine Service

BACK TO SEARCH

ADD TO CART 

VIEW PRODUCT 

DOWNLOAD PRODUCT 

INFORMATION



DOCUMENTATION

SERVICES

PRODUCT IDENTIFIER SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012

OVERVIEW

For the Mediterranean Sea- The L3S data consist of supercollated (merged-multisensor) L3P SST data remapped over the Mediterranean Sea at high (HR=1/16 deg.) spatial resolution, representative of night SST values (00:00 UTC). The L3S data are produced selecting only the highest quality input data from input L2P images within a strict temporal window (local nighttime), to avoid diurnal cycle and cloud contamination. Consequently, the L3S processing is run daily, but L3S files are produced only if valid SST measurements are present on the area considered.

FULL OVERVIEW

VARIABLES sea_surface_temperature

GEOGRAPHICAL COVERAGE

46.0

Areas: mediterranean-sea

-18.12



36.25

30.25

SPATIAL RESOLUTION 0.01 degree

VERTICAL COVERAGE from 0m to 0m (CRS=EPSG:5714)

TEMPORAL RESOLUTION Daily mean

TEMPORAL COVERAGE from 2008-01-01T00:00:00Z, still going

UPDATE FREQUENCY daily

PRODUCTION UNIT SST-CNR-ROME-IT





DATA ACCESS

BACK TO SEARCH

MY CART

OCEANCOLOUR_MED_OPTICS_L3_REP_OBSERVATIONS_009_095

Mediterranean Sea Remote Sensing Reflectances and Attenuation Coefficient at 490nm from Multi Satellite observations Reprocessed (ESA-CCI)

DATASET SELECTED

DATASET-OC-MED-OPT-MULTI_CCI-L3-KD490_1KM_DAILY-RI

DATASET-OC-MED-OPT-MULTI_CCI-L3-KD490_1KM_DAILY-REP-V01



DOWNLOAD

DATASET FILTERS

GEOGRAPHICAL AREA

(Default = Product region)

Full region

-6



45.99°

36.50°

30

TIME RANGE

(Default = Last date available)

START DATE 2015-08-31

END DATE 2015-08-31

DEPTH

(Default = Surface depth)

END DEPTH Choose a ζ

VARIABLES

(Default = All variables)

Uncheck All

DOWNLOAD NAME DESCRIPTION STANDARD NAME UNIT

Funded by
the European UnionABOUT
USPARTNERS &
STAKEHOLDERS

BENEFITS

ANY QUESTIONS?

Get help from the Service Desk





DATA ACCESS

BACK TO SEARCH

MY CART



European Sea Surface Chlorophyll Concentration from Multi Satellite observations

OCEANCOLOUR_EUR_CH
L_L3_NRT_OBSERVATIO
NS_009_050

DATASET SELECTED

DATASET-OC-EUR-CHL-MULTI-L3-CHL_1KM_DAILY-RT-V01

DATASET-OC-EUR-CHL-MULTI-L3-CHL_1KM_DAILY-RT-V01



DOWNLOAD

DATASET FILTERS

GEOGRAPHICAL AREA

(Default = Product region)

Full region



TIME RANGE

(Default = Last date available)

START DATE 2016-09-17

END DATE 2016-09-17

DEPTH

(Default = Surface depth)

END DEPTH Choose a c

VARIABLES

(Default = All variables)

Uncheck All





Product Explorer x Pixel Info

Product Explorer and Pixel Info panels are currently empty.

Navigation Colour Mani... x Uncertainty ... World View Layer Editor

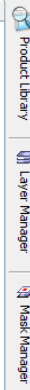


This tool window is used to manipulate the **colouring of images** shown in an image view. Right now, there is no selected image view.

Products - Properties x

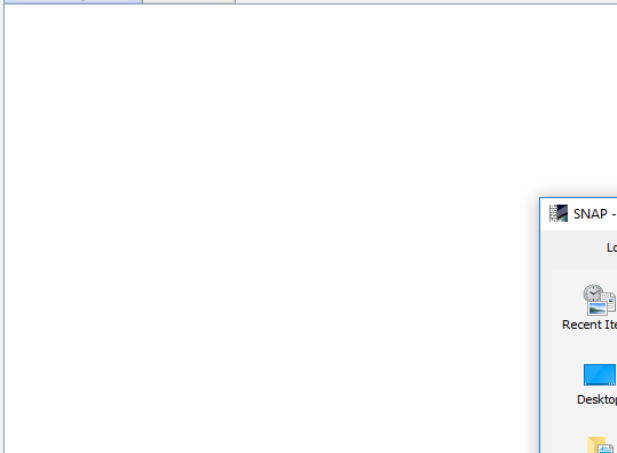
<No Properties>

Products

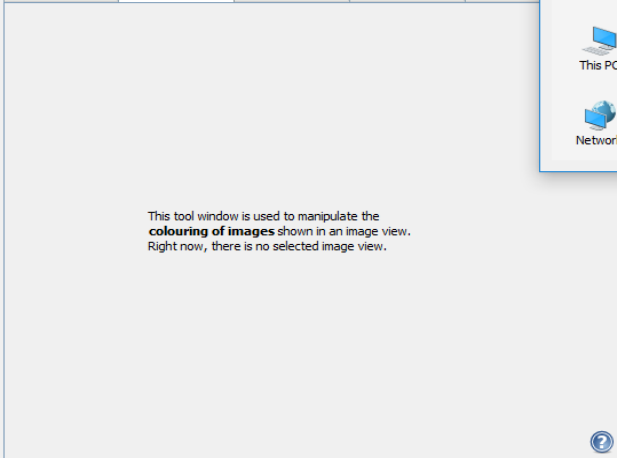




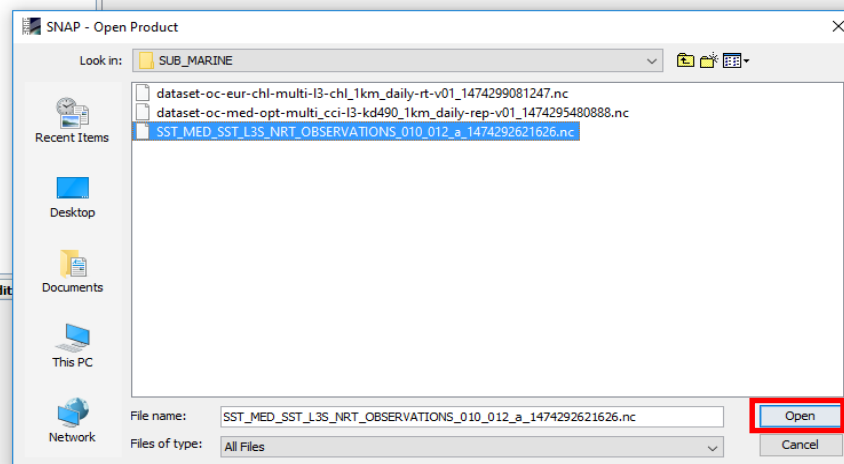
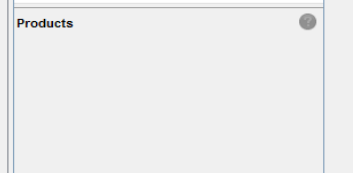
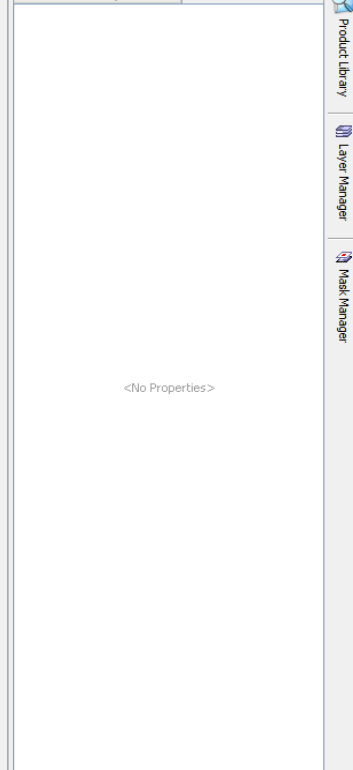
Product Explorer x Pixel Info



Navigation Colour Mani... x Uncertainty ... World View Layer Edit

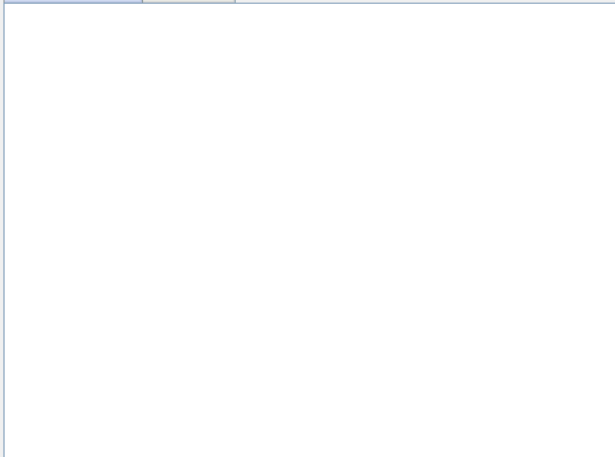


Products - Properties x

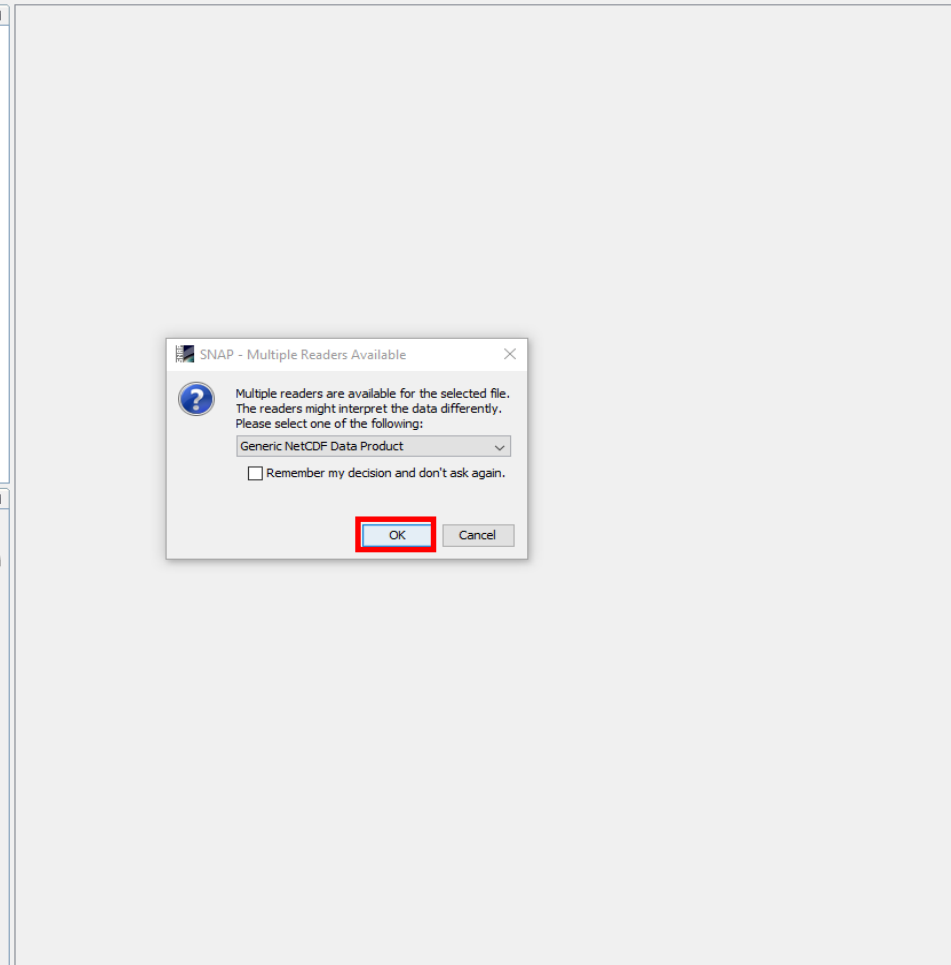
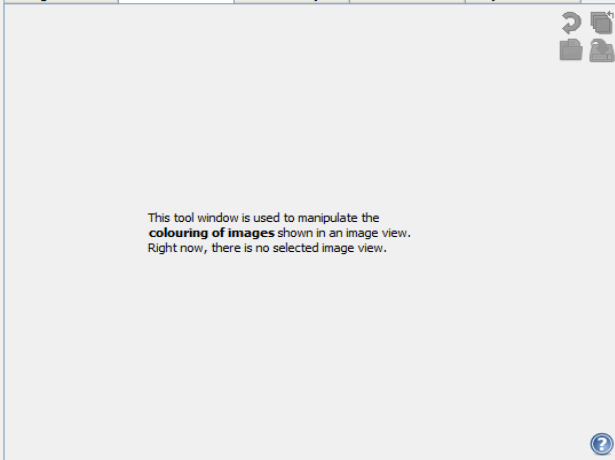




Product Explorer x Pixel Info



Navigation Colour Mani... x Uncertainty ... World View Layer Editor



SNAP - Multiple Readers Available

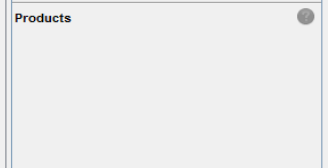
Multiple readers are available for the selected file. The readers might interpret the data differently. Please select one of the following:

Generic NetCDF Data Product

Remember my decision and don't ask again.

OK Cancel

Products - Properties x



Product Library Layer Manager Mask Manager



Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1**
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6

Navigation **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**



This tool window is used to manipulate the **colouring of images** shown in an image view.
Right now, there is no selected image view.

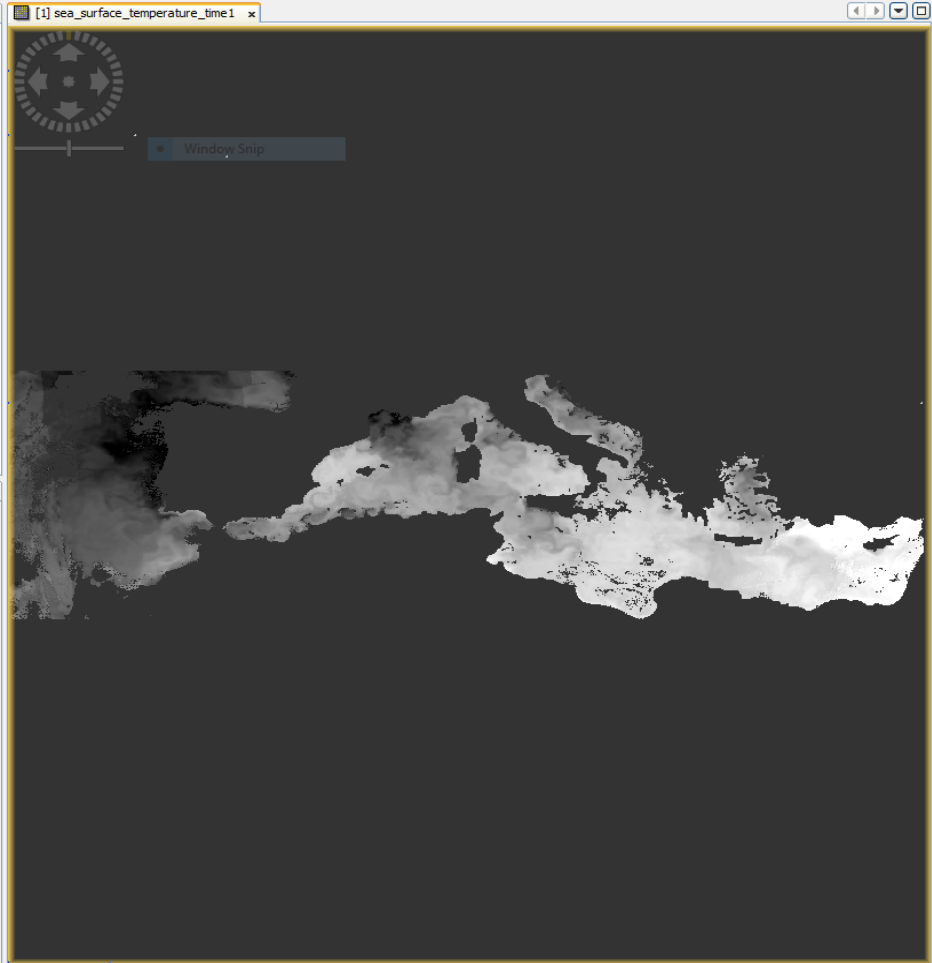
[1] SST_MED_SST_L3S_NRT_OBSER... x

Product Node Properties	
Name	SST_MED_SST_L3S_...
Description	Mediterranean SST, L...
Modified	<input type="checkbox"/>
Product Properties	
File	Q:\UserUptake\SUB_...
Product Type	CF-1.0
Sensing Start Time	
Sensing Stop Time	
Band Grouping	sea_surface_temper...

[1] SST_MED_SST_L3S_NRT_OBSERVATIONS...
Mediterranean SST, L3S, 1/16deg daily
SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a

Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



sea_surface_temperature_time1 - P...

Product Node Properties

Name	sea_surface_tempera...
Description	sea surface temperat...
Modified	<input type="checkbox"/>

Raster Band Properties

Unit	kelvin
Data Type	int16
Raster size	871 x 253
Valid-Pixel Expression	
No-Data Value Used	<input checked="" type="checkbox"/>
No-Data Value	-32768.0
Spectral Wavelength	0.0
Spectral Bandwidth	0.0
Ancillary Variables	
Ancillary Relations	

Navigation - ... Colour Mani... x Uncertainty ... World View Layer Editor

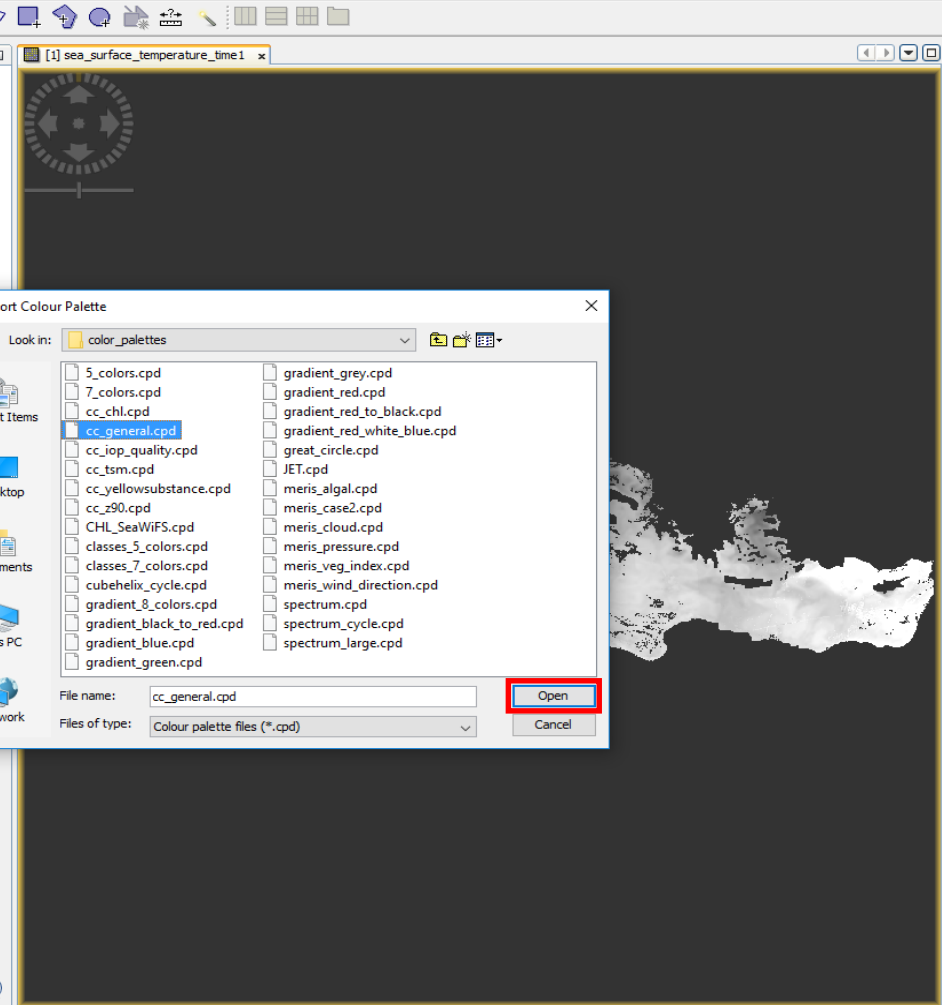
Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
 Unit: kelvin
 Min: 289,19
 Max: 305,94
 Rough statistics!

More Options

Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



No Properties x

<No Properties>

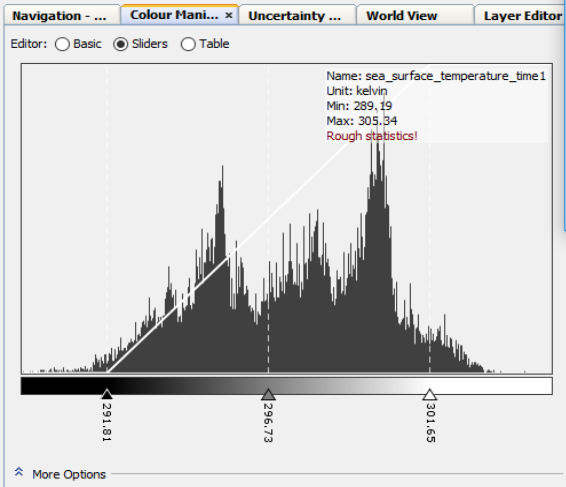
Import Colour Palette

Look in: color_palettes

5_colors.cpd	gradient_grey.cpd
7_colors.cpd	gradient_red.cpd
cc_chl.cpd	gradient_red_to_black.cpd
cc_general.cpd	gradient_red_white_blue.cpd
cc_iop_quality.cpd	great_circle.cpd
cc_tsm.cpd	JET.cpd
cc_yellowsubstance.cpd	meris_algal.cpd
cc_z90.cpd	meris_case2.cpd
CHL_SeaWiFS.cpd	meris_cloud.cpd
classes_5_colors.cpd	meris_pressure.cpd
classes_7_colors.cpd	meris_veg_index.cpd
cubehelix_cycle.cpd	meris_wind_direction.cpd
gradient_8_colors.cpd	spectrum.cpd
gradient_black_to_red.cpd	spectrum_cycle.cpd
gradient_blue.cpd	spectrum_large.cpd
gradient_green.cpd	

File name: cc_general.cpd **Open** Cancel

Files of type: Colour palette files (*.cpd)

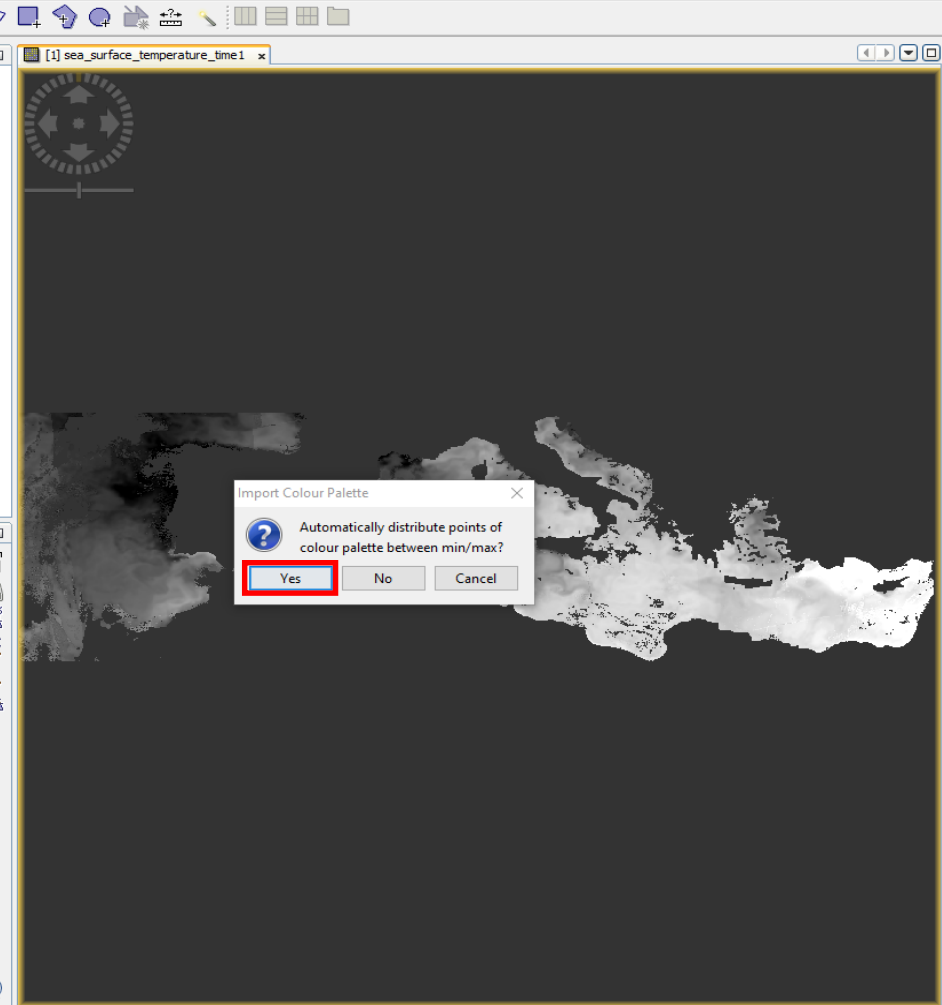
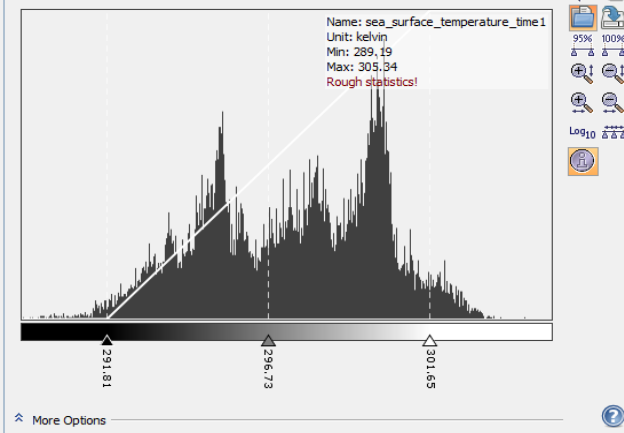


Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
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 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6

Navigation - ... **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**

Editor: Basic Sliders Table



Import Colour Palette

Automatically distribute points of colour palette between min/max?

Yes No Cancel

No Properties x

<No Properties>

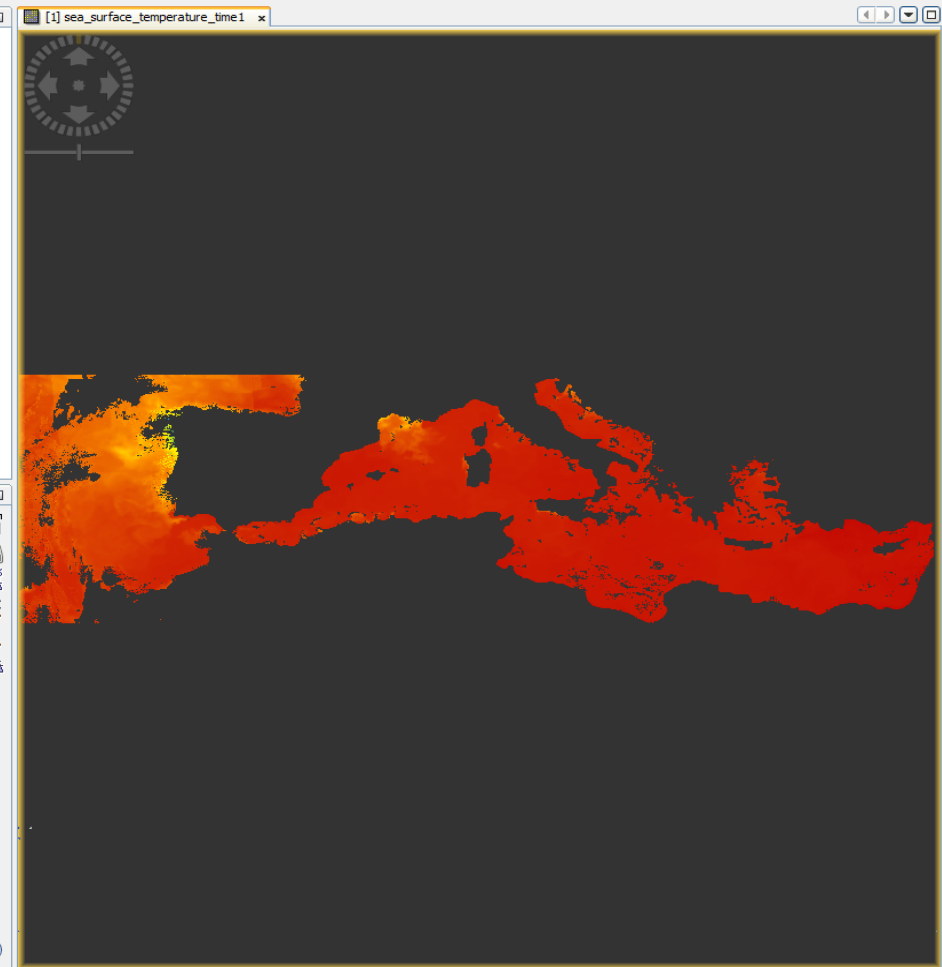
Product Library
Layer Manager
Mask Manager

X -- Y --
Lat -- Lon --
Zoom -- Level --



Product Explorer

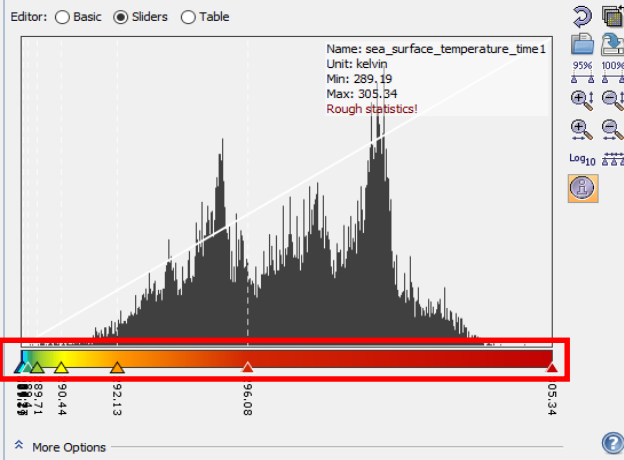
- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
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 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



No Properties

<No Properties>

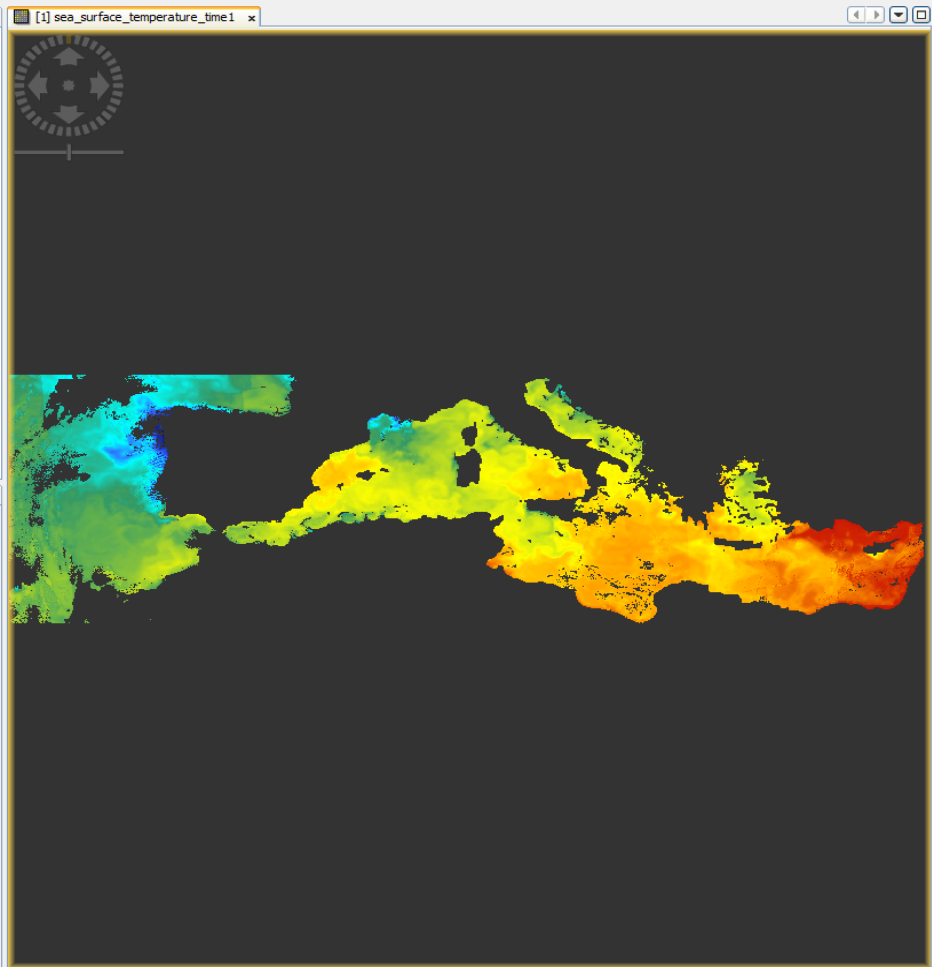
Navigation - ... Colour Mani... x Uncertainty ... World View Layer Editor





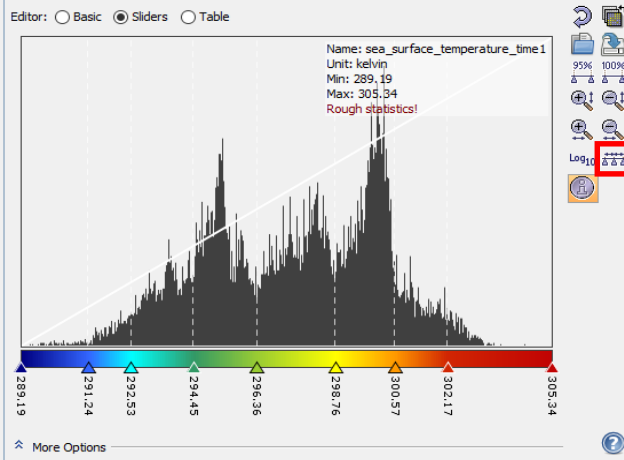
Product Explorer

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
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 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



No Properties

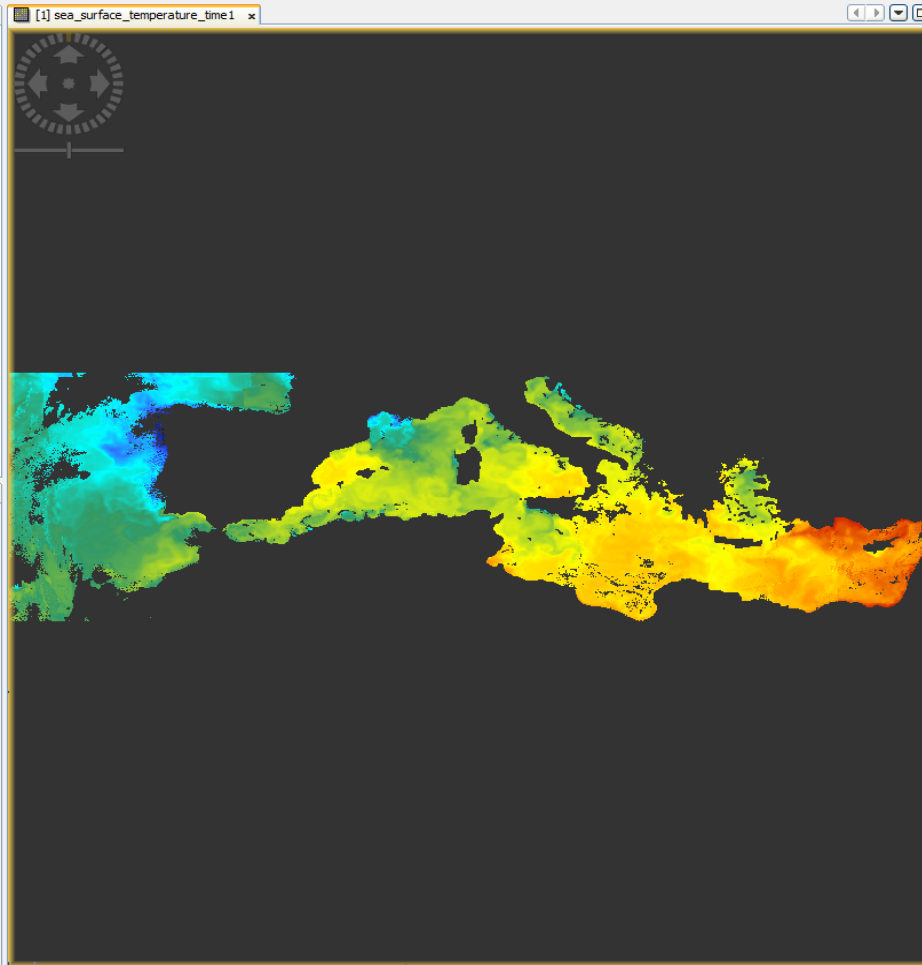
<No Properties>





Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



sea_surface_temperature_time1 - P...

Product Node Properties

Name	sea_surface_tempera...
Description	sea surface tempera...
Modified	<input checked="" type="checkbox"/>

Raster Band Properties

Unit	kelvin
Data Type	int16
Raster size	871 x 253
Valid-Pixel Expression	
No-Data Value Used	<input checked="" type="checkbox"/>
No-Data Value	-32768.0
Spectral Wavelength	0.0
Spectral Bandwidth	0.0
Ancillary Variables	
Ancillary Relations	

Navigation - ... Colour Mani... x Uncertainty ... World View Layer Editor

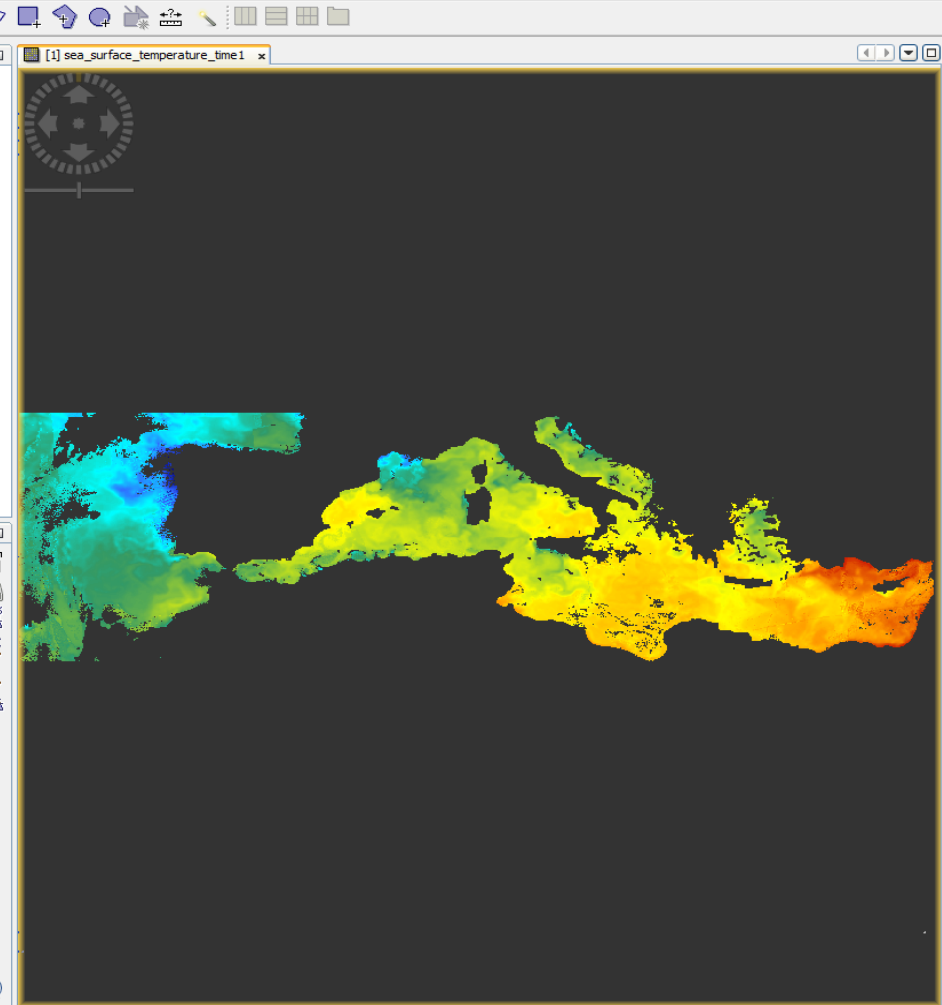
Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
 Unit: kelvin
 Min: 289,19
 Max: 305,34
 Rough statistics!

More Options

Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



sea_surface_temperature_time1 - P...

Product Node Properties

Name	sea_surface_tempera...
Description	sea surface tempera...
Modified	<input checked="" type="checkbox"/>

Raster Band Properties

Unit	kelvin
Data Type	int16
Raster size	871 x 253
Valid-Pixel Expression	
No-Data Value Used	<input checked="" type="checkbox"/>
No-Data Value	-32768.0
Spectral Wavelength	0.0
Spectral Bandwidth	0.0
Ancillary Variables	
Ancillary Relations	

sea_surface_temperature_time1

sea surface temperature, 871 x 253 pixels, (kelvin)

Navigation - ... Colour Mani... x Uncertainty ... World View Layer Editor

Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
 Unit: kelvin
 Min: 289.19
 Max: 305.34
 Rough statistics!

Less Options

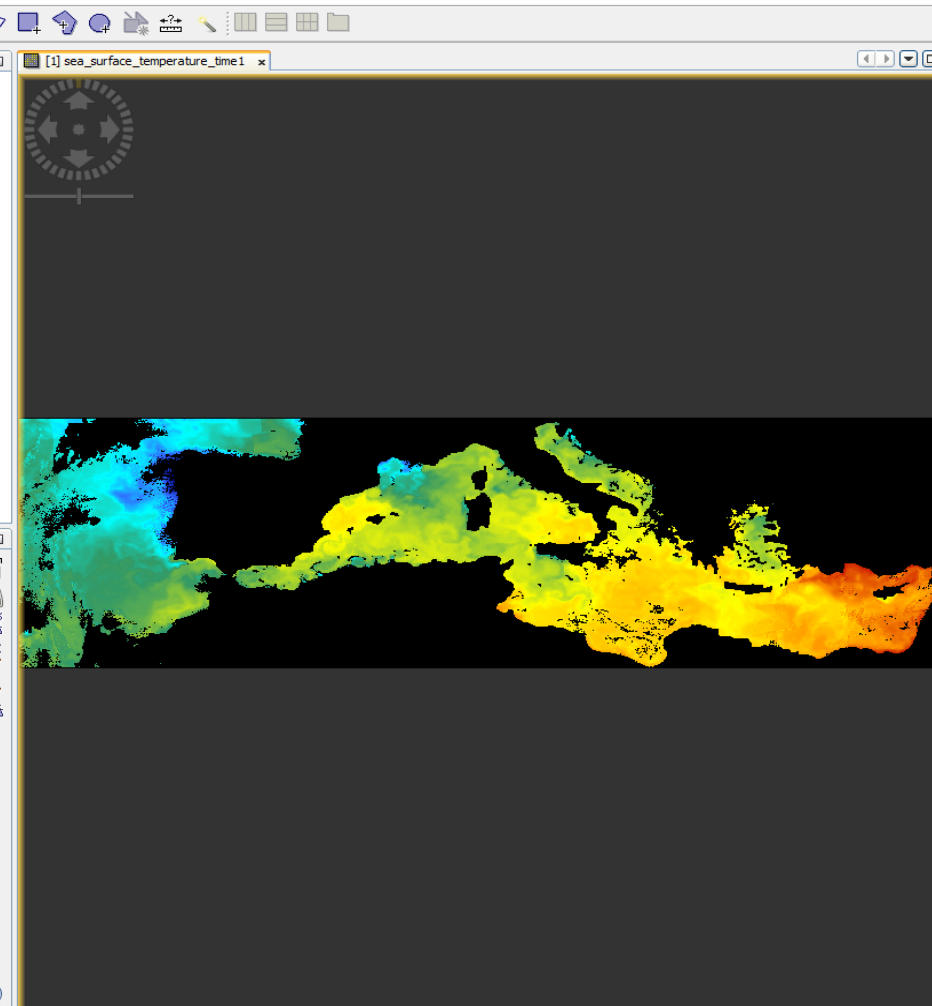
No-data colour: None

Histogram matching: None

Discrete colours

Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



sea_surface_temperature_time1 - P...

Product Node Properties

Name	sea_surface_tempera...
Description	sea surface tempera...
Modified	<input checked="" type="checkbox"/>

Raster Band Properties

Unit	kelvin
Data Type	int16
Raster size	871 x 253
Valid-Pixel Expression	
No-Data Value Used	<input checked="" type="checkbox"/>
No-Data Value	-32768.0
Spectral Wavelength	0.0
Spectral Bandwidth	0.0
Ancillary Variables	
Ancillary Relations	

sea_surface_temperature_time1
sea surface temperature, 871 x 253 pixels, (kelvin)

Navigation - ... Colour Mani... x Uncertainty ... World View Layer Editor

Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
Unit: kelvin
Min: 289.19
Max: 305.34
Rough statistics!

95% 100%

Log10

Less Options

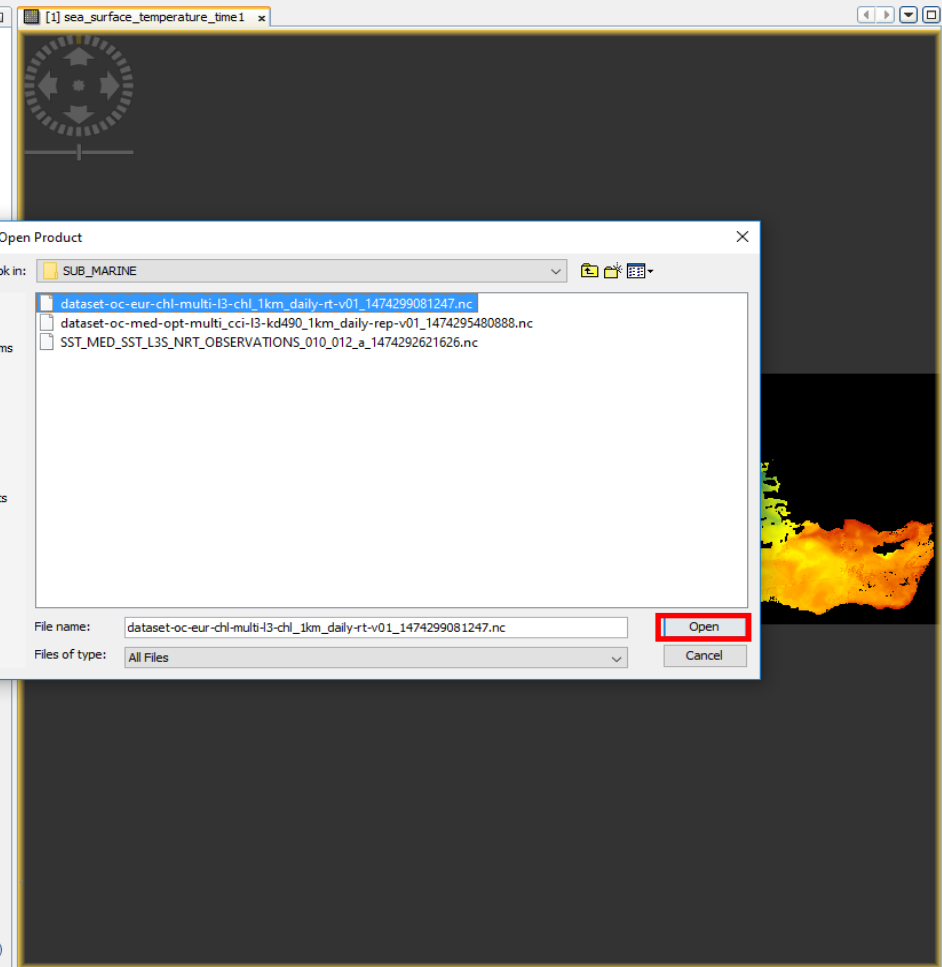
No-data colour: None

Histogram matching: Discrete colours



Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6
 - source_of_sst
 - quality_level
 - adjusted_sea_surface_temperature
 - adjusted_sea_surface_temperature_time1
 - adjusted_sea_surface_temperature_time2
 - adjusted_sea_surface_temperature_time3
 - adjusted_sea_surface_temperature_time4
 - adjusted_sea_surface_temperature_time5
 - adjusted_sea_surface_temperature_time6



sea_surface_temperature_time1 - P...

Product Node Properties	
Name	sea_surface_tempera...
Description	sea surface tempera...
Modified	<input checked="" type="checkbox"/>
Raster Band Properties	
Unit	kelvin
Data Type	int16
Raster size	871 x 253
Valid-Pixel Expression	
No-Data Value Used	<input checked="" type="checkbox"/>
No-Data Value	-32768.0
Spectral Wavelength	0.0
Spectral Bandwidth	0.0
Ancillary Variables	
Ancillary Relations	

sea_surface_temperature_time1
sea surface temperature, 871 x 253 pixels, (kelvin)

SNAP - Open Product

Look in: SUB_MARINE

- dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247.nc
- dataset-oc-med-opt-multi-cci-l3-kd490_1km_daily-rep-v01_1474295480888.nc
- SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626.nc

File name: dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247.nc **Open**

Files of type: All Files **Cancel**

Navigation - ... Colour Mani... x Uncertainty ... World View Layer Ed

Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
Unit: kelvin
Min: 289,19
Max: 305,34
Rough statistics!

289.19 291.21 293.23 295.25 297.26 299.28 301.3 303.32 305.34

Less Options

No-data colour:

Histogram matching: Discrete colours



Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
 - CHL
 - CHL_time1
 - CHL_time2
 - CHL_time3

[1] sea_surface_temperature_time 1 x

[2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01 x

Product Node Properties

Name	dataset-oc-eur-chl-m...
Description	dataset-oc-eur-chl-m...
Modified	<input type="checkbox"/>

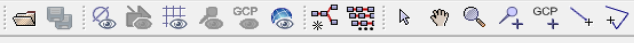
Product Properties

File	Q:\UserUptake\SUB_M...
Product Type	CF-1.0
Sensing Start Time	
Sensing Stop Time	
Band Grouping	CHL

[2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01
dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01

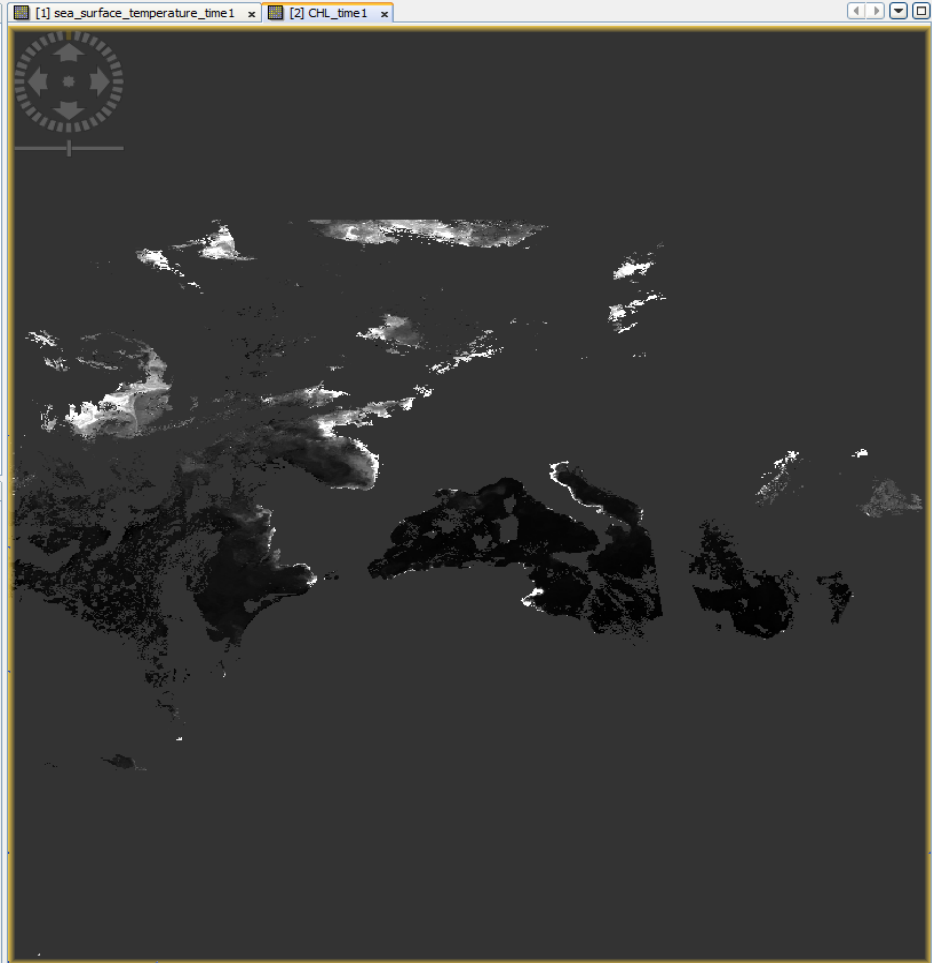
Navigation **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**

This tool window is used to manipulate the **colouring of images** shown in an image view. Right now, there is no selected image view.



Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
 - CHL
 - CHL_time1
 - CHL_time2
 - CHL_time3



No Properties x

<No Properties>

Navigation - [...] Colour Mani... x Uncertainty ... World View Layer Editor

Editor: Basic Sliders Table

Name: CHL_time1
 Unit: milligram m⁻³
 Min: 0.01
 Max: 46.312
 Rough statistics!

95% 100%

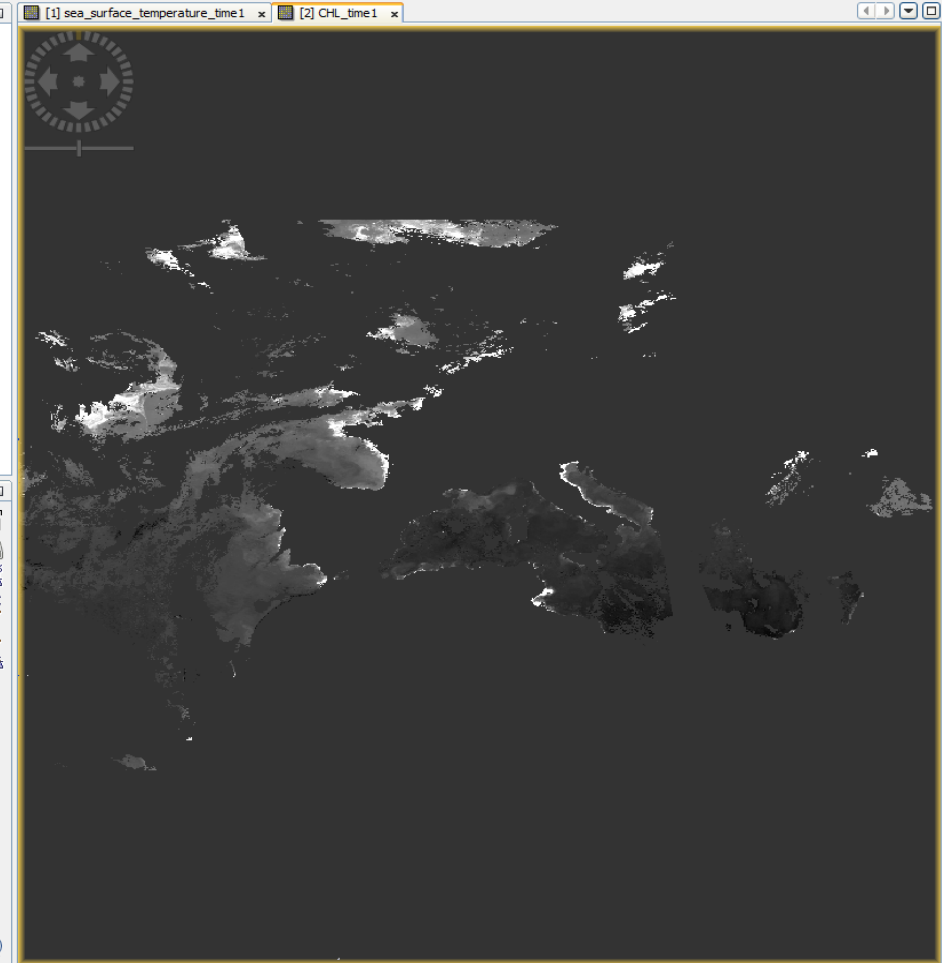
0.010

More Options



Product Explorer x Pixel Info

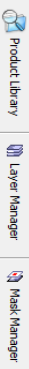
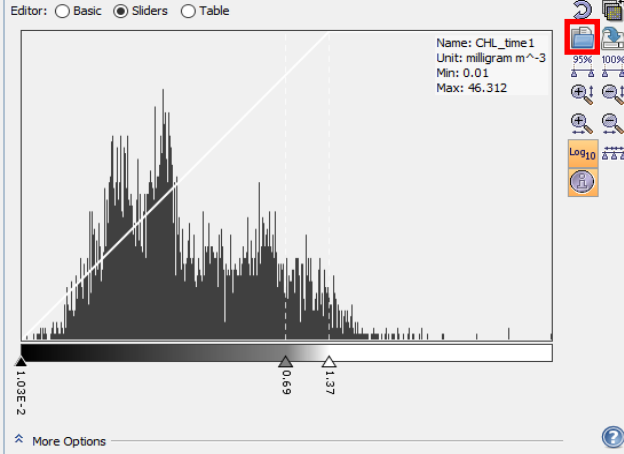
- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
 - CHL
 - CHL_time1
 - CHL_time2
 - CHL_time3



No Properties x

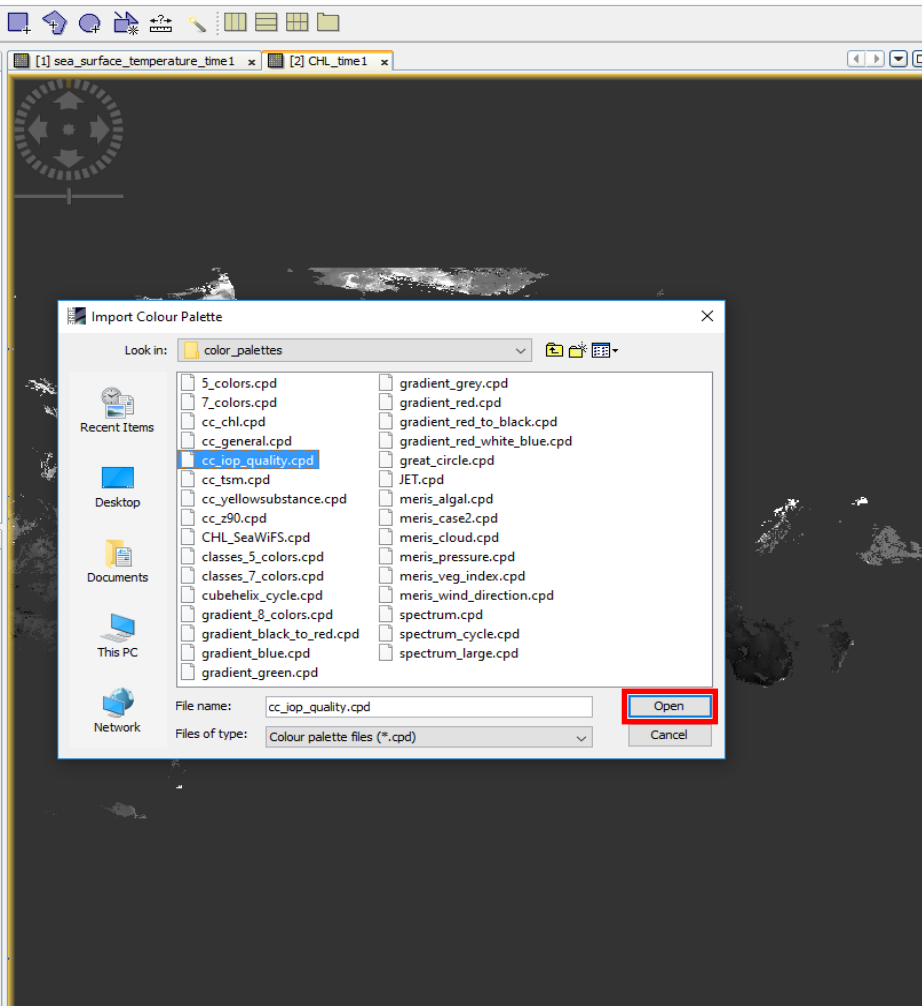
<No Properties>

Navigation - [...] Colour Mani... x Uncertainty ... World View Layer Editor



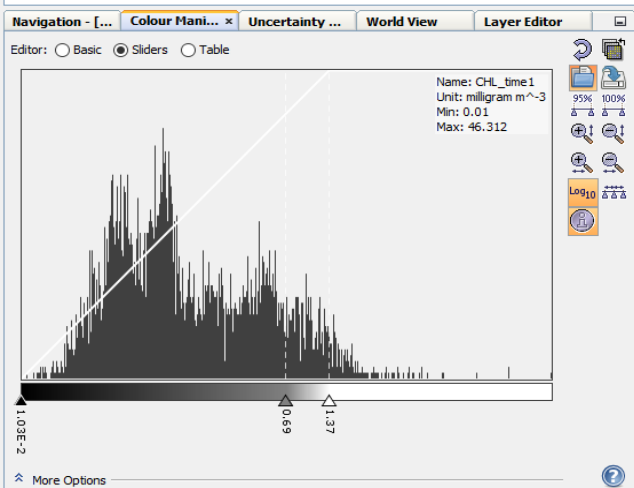
Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
 - CHL
 - CHL_time1
 - CHL_time2
 - CHL_time3



No Properties x

<No Properties>



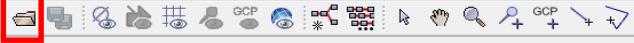
Import Colour Palette

Look in: color_palettes

<input type="checkbox"/> 5_colors.cpd	<input type="checkbox"/> gradient_grey.cpd
<input type="checkbox"/> 7_colors.cpd	<input type="checkbox"/> gradient_red.cpd
<input type="checkbox"/> cc_chl.cpd	<input type="checkbox"/> gradient_red_to_black.cpd
<input type="checkbox"/> cc_general.cpd	<input type="checkbox"/> gradient_red_white_blue.cpd
<input checked="" type="checkbox"/> cc_iop_quality.cpd	<input type="checkbox"/> great_circle.cpd
<input type="checkbox"/> cc_tsm.cpd	<input type="checkbox"/> JET.cpd
<input type="checkbox"/> cc_yellowsubstance.cpd	<input type="checkbox"/> meris_algal.cpd
<input type="checkbox"/> cc_z90.cpd	<input type="checkbox"/> meris_case2.cpd
<input type="checkbox"/> CHL_SeaWiFS.cpd	<input type="checkbox"/> meris_cloud.cpd
<input type="checkbox"/> classes_5_colors.cpd	<input type="checkbox"/> meris_pressure.cpd
<input type="checkbox"/> classes_7_colors.cpd	<input type="checkbox"/> meris_veg_index.cpd
<input type="checkbox"/> cubehelix_cycle.cpd	<input type="checkbox"/> meris_wind_direction.cpd
<input type="checkbox"/> gradient_8_colors.cpd	<input type="checkbox"/> spectrum.cpd
<input type="checkbox"/> gradient_black_to_red.cpd	<input type="checkbox"/> spectrum_cycle.cpd
<input type="checkbox"/> gradient_blue.cpd	<input type="checkbox"/> spectrum_large.cpd
<input type="checkbox"/> gradient_green.cpd	

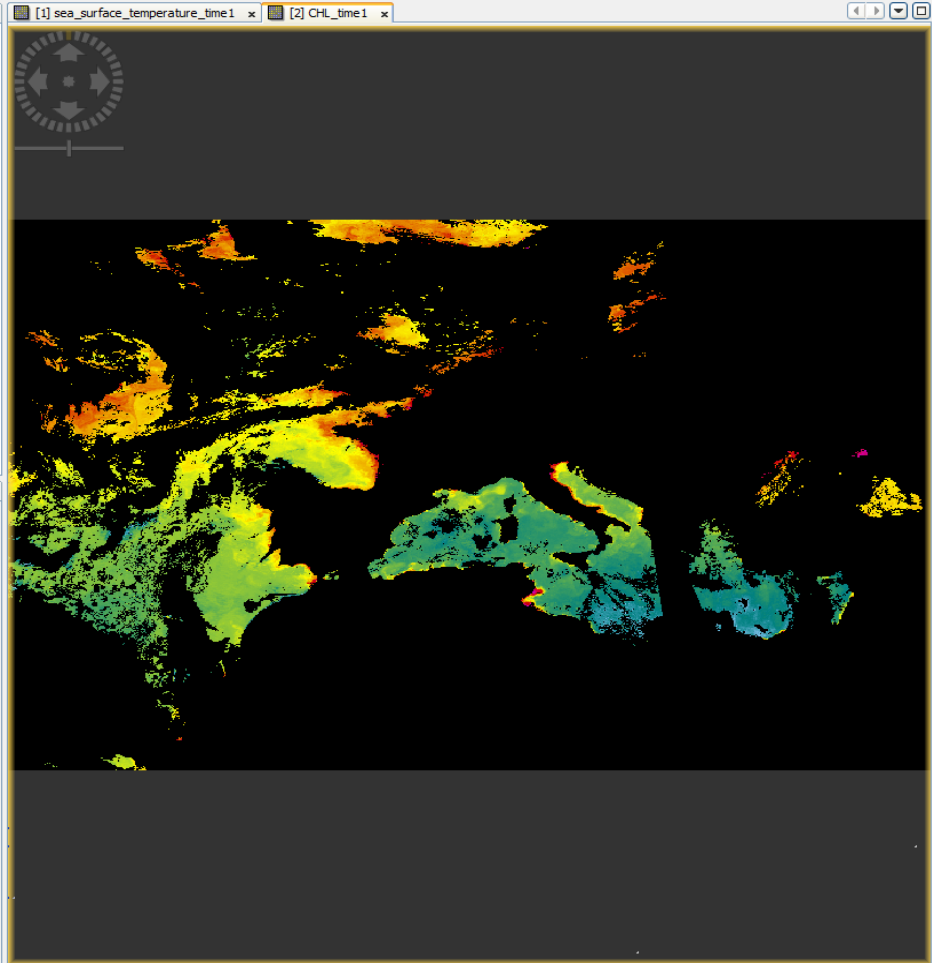
File name: cc_iop_quality.cpd **Open** Cancel

Files of type: Colour palette files (*.cpd)



Product Explorer x **Pixel Info**

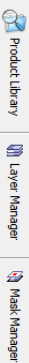
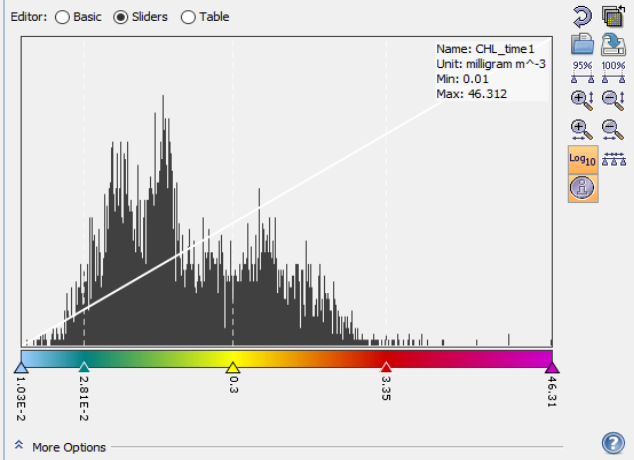
- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
 - CHL
 - CHL_time1
 - CHL_time2
 - CHL_time3



No Properties x

<No Properties>

Navigation - [...] **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**



Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
 - CHL
 - CHL_time1
 - CHL_time2
 - CHL_time3

Navigation - [World View] Layer Editor

Editor: Basic Sliders Table

Name: CHL_time1
Unit: milligram m⁻²
Min: 0.01
Max: 46.312

More Options

[1] sea_surface_temperature_time1 x [2] CHL_time1 x

No Properties x

<No Properties>

SNAP - Open Product

Look in: SUB_MARINE

- dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247.nc
- dataset-oc-med-opt-multi_cci-l3-kd490_1km_daily-rt-v01_1474295480888.nc
- SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626.nc

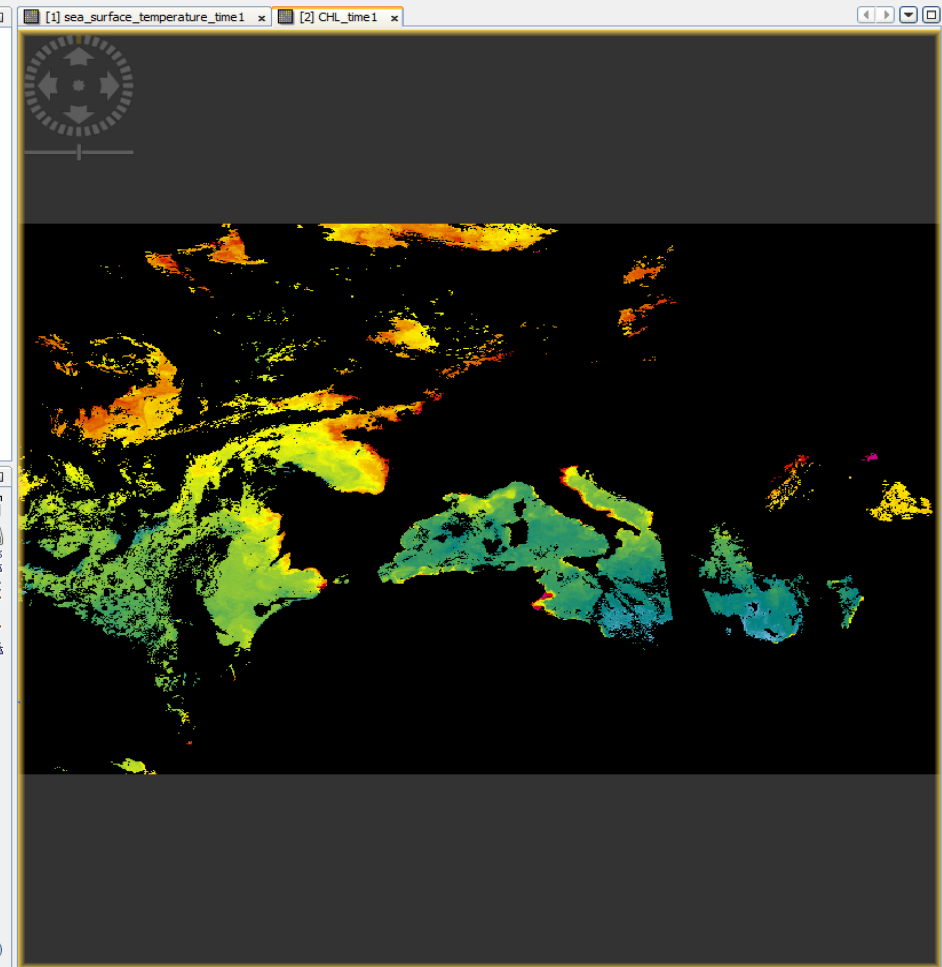
File name: dataset-oc-med-opt-multi_cci-l3-kd490_1km_daily-rt-v01_1474295480888.nc

Files of type: All Files

Open Cancel

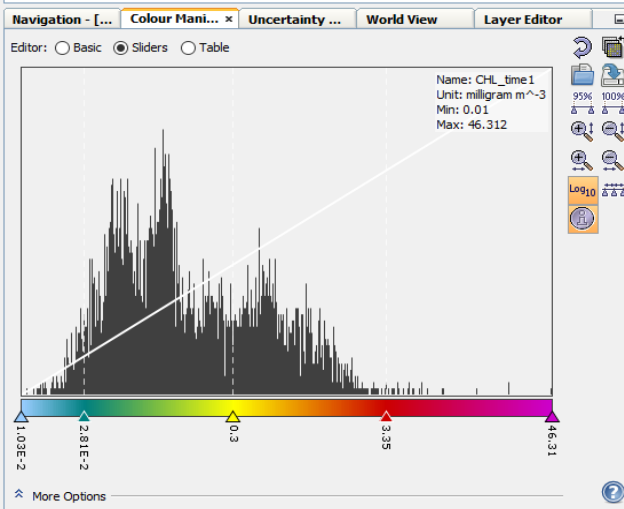
Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi-co-l3-kd490_1km_daily-rep-v01_1474295480888
- Metadata
- Vector Data
- Bands
 - KD490**



[2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01

Product Node Properties	
Name	dataset-oc-eur-chl-m...
Description	dataset-oc-eur-chl-m...
Modified	<input checked="" type="checkbox"/>
Product Properties	
File	Q:\UserUptake\SUB_M...
Product Type	CF-1.0
Sensing Start Time	
Sensing Stop Time	
Band Grouping	CHL



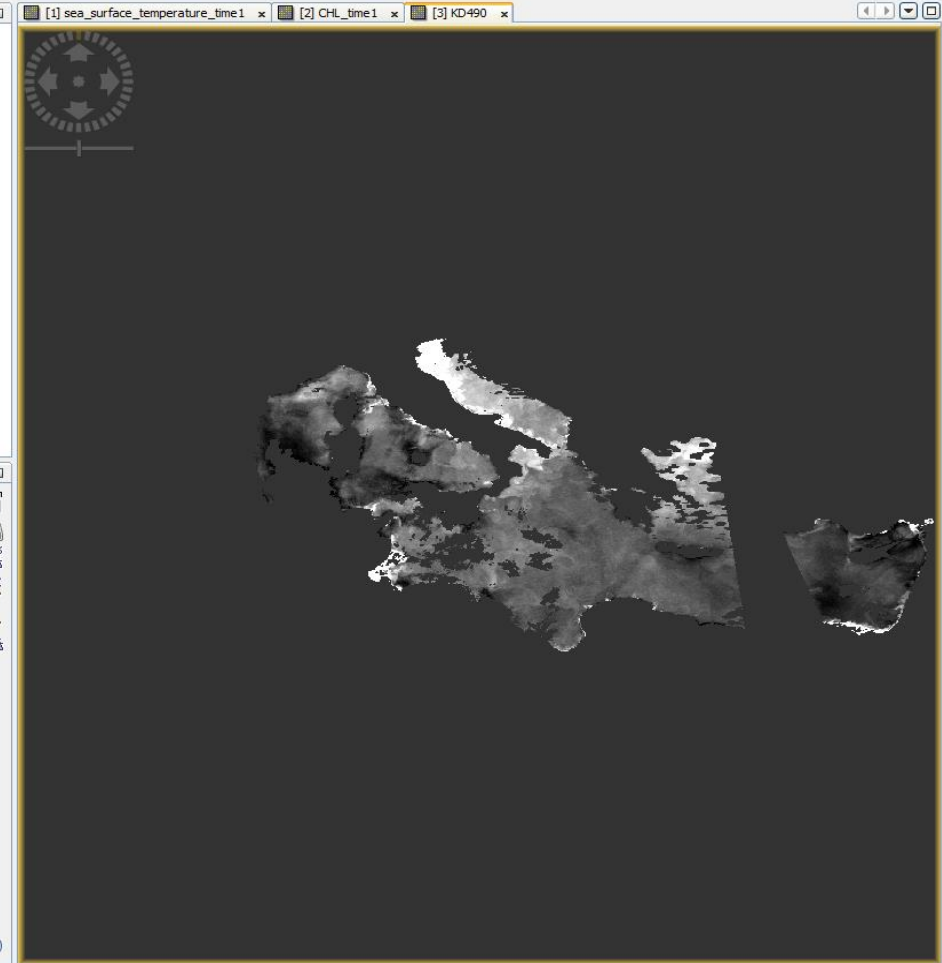
[2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01

dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01



Product Explorer x **Pixel Info**

- [1] SST_MED_SST_13S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-13-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490



No Properties x

<No Properties>

Navigation - [...] **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**

Editor: Basic Sliders Table

Name: KD490
Unit: m^-1
Min: 0.017
Max: 1.357
Rough statistics!

100%

Log10

More Options

Product Library
Layer Manager
Mask Manager

Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-I3-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-I3-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490**

[1] sea_surface_temperature_time_1 x [2] CHL_time_1 x [3] KD490 x

No Properties x

<No Properties>

Navigation - [...] **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**

Editor: Basic Sliders Table

Name: KD490
Unit: m^-1
Min: 0.017
Max: 1.357
Rough statistics!

95% 100%
Log10

More Options

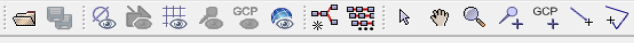
Import Colour Palette

Look in: color_palettes

<input type="checkbox"/> 5_colors.cpd	<input type="checkbox"/> gradient_grey.cpd
<input type="checkbox"/> 7_colors.cpd	<input type="checkbox"/> gradient_red.cpd
<input type="checkbox"/> cc_chl.cpd	<input type="checkbox"/> gradient_red_to_black.cpd
<input checked="" type="checkbox"/> cc_general.cpd	<input type="checkbox"/> gradient_red_white_blue.cpd
<input type="checkbox"/> cc_iop_quality.cpd	<input type="checkbox"/> great_circle.cpd
<input type="checkbox"/> cc_tsm.cpd	<input type="checkbox"/> JET.cpd
<input type="checkbox"/> cc_yellowsubstance.cpd	<input type="checkbox"/> meris_algal.cpd
<input type="checkbox"/> cc_z90.cpd	<input type="checkbox"/> meris_case2.cpd
<input type="checkbox"/> CHL_SeaWiFS.cpd	<input type="checkbox"/> meris_cloud.cpd
<input type="checkbox"/> classes_5_colors.cpd	<input type="checkbox"/> meris_pressure.cpd
<input type="checkbox"/> classes_7_colors.cpd	<input type="checkbox"/> meris_veg_index.cpd
<input type="checkbox"/> cubehelix_cycle.cpd	<input type="checkbox"/> meris_wind_direction.cpd
<input type="checkbox"/> gradient_8_colors.cpd	<input type="checkbox"/> spectrum.cpd
<input type="checkbox"/> gradient_black_to_red.cpd	<input type="checkbox"/> spectrum_cycle.cpd
<input type="checkbox"/> gradient_blue.cpd	<input type="checkbox"/> spectrum_large.cpd
<input type="checkbox"/> gradient_green.cpd	

File name: cc_general.cpd **Open** Cancel

Files of type: Colour palette files (*.cpd)



Product Explorer x **Pixel Info**

- [1] SST_MED_SST_13S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-13-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490**

[1] sea_surface_temperature_time1 x [2] CHL_time1 x [3] KD490 x

No Properties x



<No Properties>

Navigation - [...] **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**

Editor: Basic Sliders Table

Name: KD490
Unit: m⁻¹
Min: 0.017
Max: 1.357
Rough statistics!

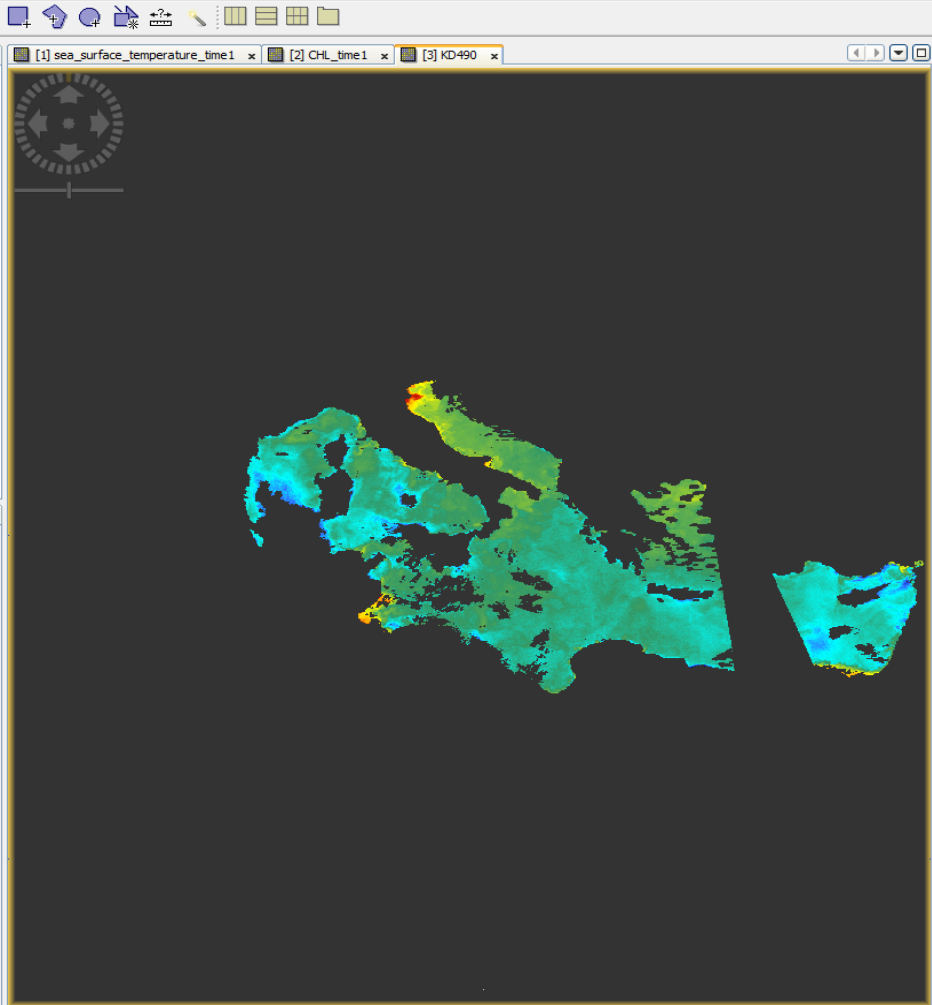
0.017 0.12 0.26 0.39 1.357

More Options

Product Library
Layer Manager
Mask Manager

Product Explorer x **Pixel Info**

- [1] SST_MED_SST_13S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-13-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490**



No Properties x

<No Properties>

Next

Navigation - [...] **Colour Mani...** x **Uncertainty ...** **World View** **Layer Editor**

Editor: Basic Sliders Table

Name: KD490
Unit: m^-1
Min: 0.017
Max: 1.357



From K_d490 to water transparency (very simple algorithm):

$$W_t = \frac{Const}{2 K_d490}$$



Const typically ranges from 4 to 7

- Band Maths...**
- Filtered Band...
- Convert Band
- Propagate Uncertainty...
- Geo-Coding Displacement Bands...
- Subset...
- Geometric Operations >
- DEM Tools >
- Masks >
- Data Conversion >
- Image Analysis >
- Export >

Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSER
- [2] dataset-oc-eur-chl-multi-43-chl_1
- [3] dataset-oc-med-opt-multi_cci-I3-kd490_1km_daily-rep-v01_1474295480888.nc
- Metadata
- Vector Data
- Bands
 - KD490

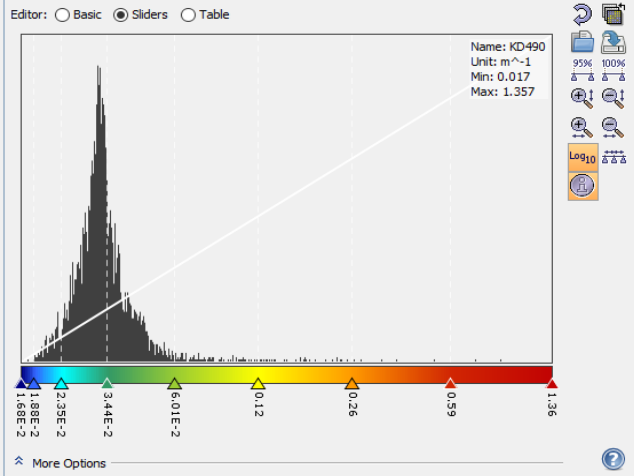
[1] sea_surface_temperature_time1 x [2] CHL_time1 x [3] KD490 x



No Properties x

<No Properties>

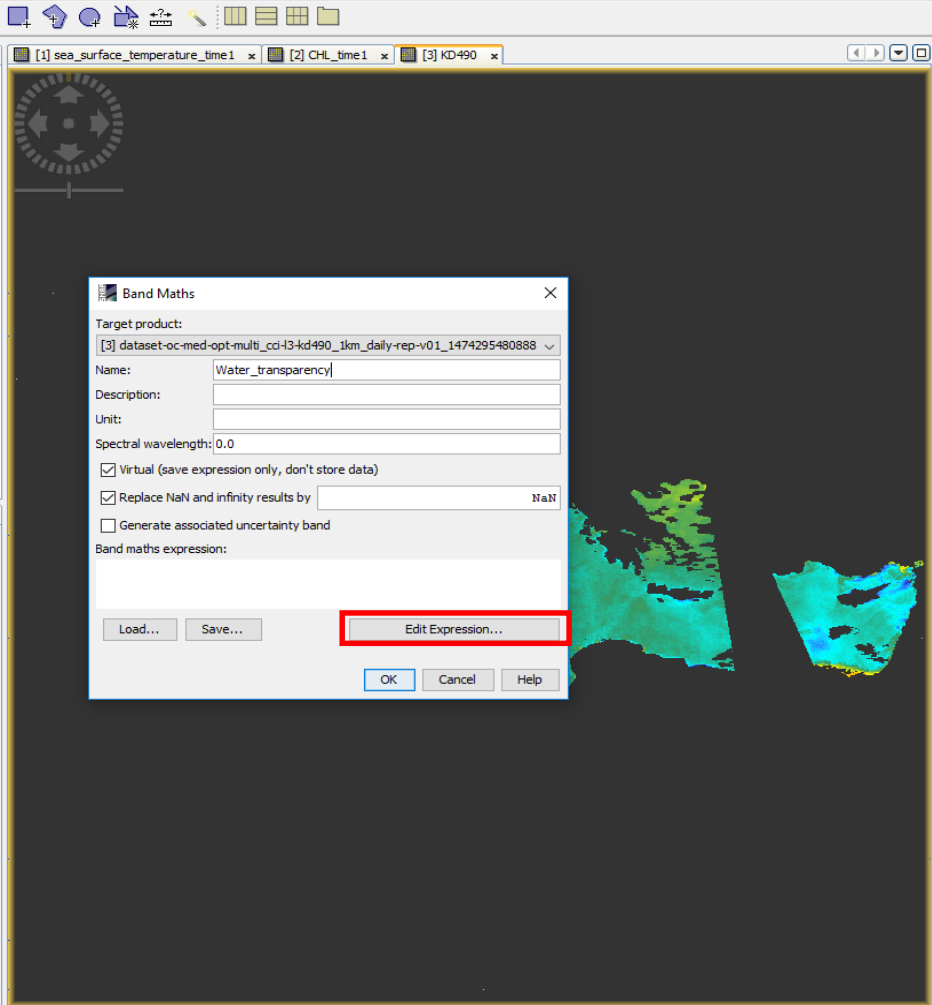
Navigation - [...] Colour Mani... x Uncertainty ... World View Layer Editor



File Edit View Analysis Layer Vector Raster Optical Radar Tools Window Help

Product Explorer x Pixel Info

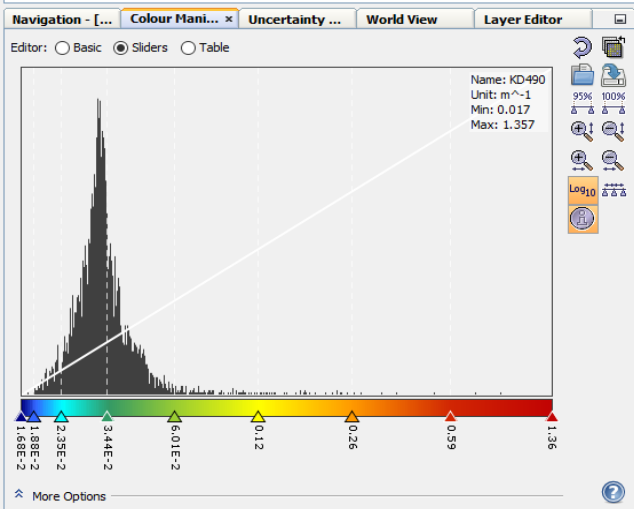
- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-13-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490



No Properties x

<No Properties>

Product Library
Layer Manager
Mask Manager



Band Maths

Target product:
[3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888

Name: Water_transparency

Description:

Unit:

Spectral wavelength: 0.0

Virtual (save expression only, don't store data)

Replace NaN and infinity results by NaN

Generate associated uncertainty band

Band maths expression:

Load... Save... Edit Expression...

OK Cancel Help

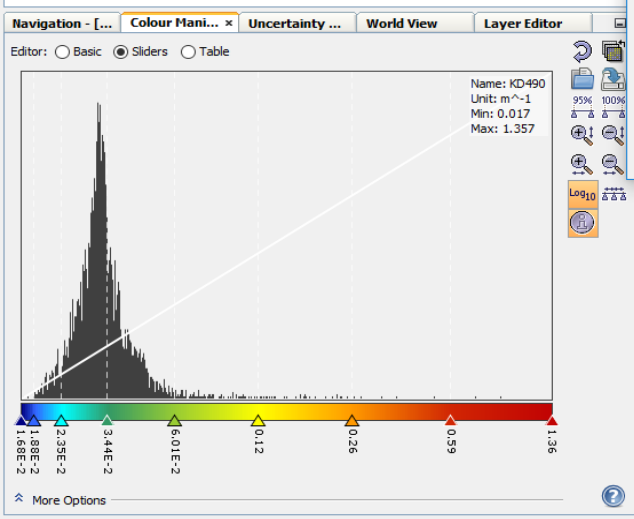
Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-I3-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490

[1] sea_surface_temperature_time1 x [2] CHL_time1 x [3] KD490 x

KD490 - Properties x

- Product Node Properties
 - Name: KD490
 - Description: Mediterranean Sea Di...
 - Modified:
- Raster Band Properties
 - Unit: m⁻¹
 - Data Type: float32
 - Raster size: 3308 x 1580
 - Valid-Pixel Expression
 - No-Data Value Used:
 - No-Data Value: -999.0
 - Spectral Wavelength: 0.0
 - Spectral Bandwidth: 0.0
 - Ancillary Variables
 - Ancillary Relations



Band Maths Expression Editor x

Data sources: KD490

Expression: $4 / (2 * KD490)$

Show bands
 Show masks
 Show tie-point grids
 Show single flags

Ok, no errors.

OK Cancel Help

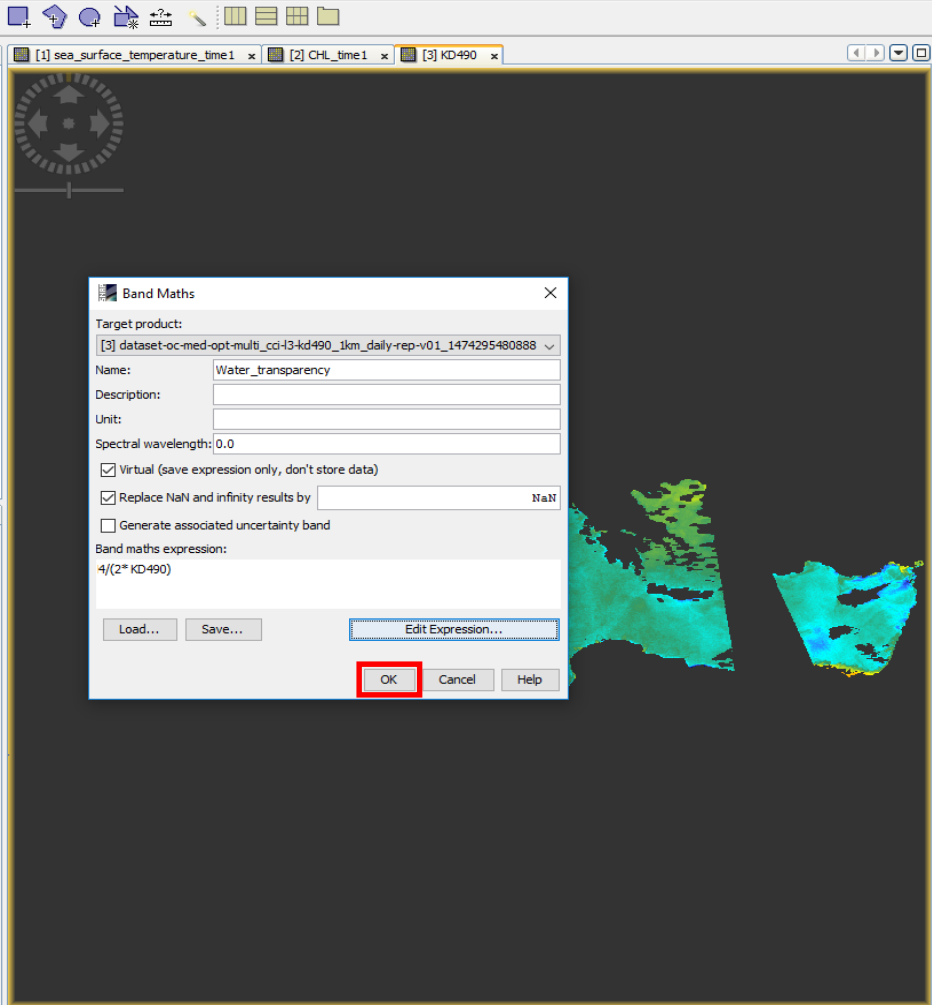
KD490

Mediterranean Sea Diffuse Attenuation Coefficient at 490nm (kd_490), 3308 x 1580 pixels, (m⁻¹)

X -- Y -- Lat -- Lon -- Zoom -- Level --

Product Explorer x **Pixel Info**

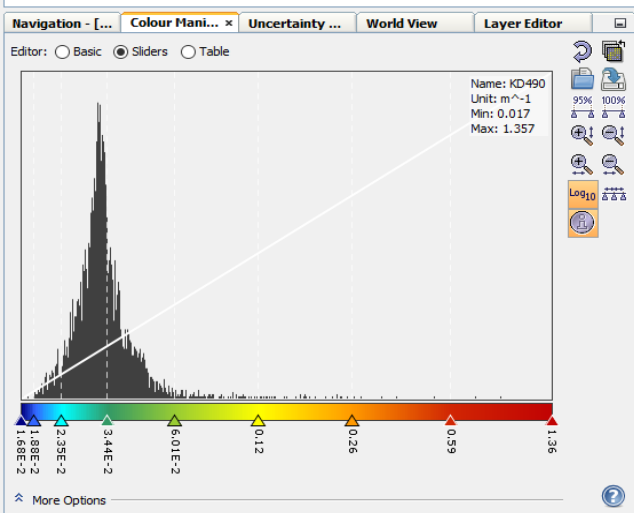
- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490



KD490 - Properties

- Product Node Properties
 - Name: KD490
 - Description: Mediterranean Sea Di...
 - Modified:
- Raster Band Properties
 - Unit: m⁻¹
 - Data Type: float32
 - Raster size: 3308 x 1580
 - Valid-Pixel Expression
 - No-Data Value Used:
 - No-Data Value: -999.0
 - Spectral Wavelength: 0.0
 - Spectral Bandwidth: 0.0
 - Ancillary Variables
 - Ancillary Relations

KD490
Mediterranean Sea Diffuse Attenuation Coefficient at 490nm (Kd_490), 3308 x 1580 pixels, (m⁻¹)



Band Maths

Target product:
[3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888

Name: Water_transparency

Description:

Unit:

Spectral wavelength: 0.0

Virtual (save expression only, don't store data)

Replace NaN and infinity results by: NaN

Generate associated uncertainty band

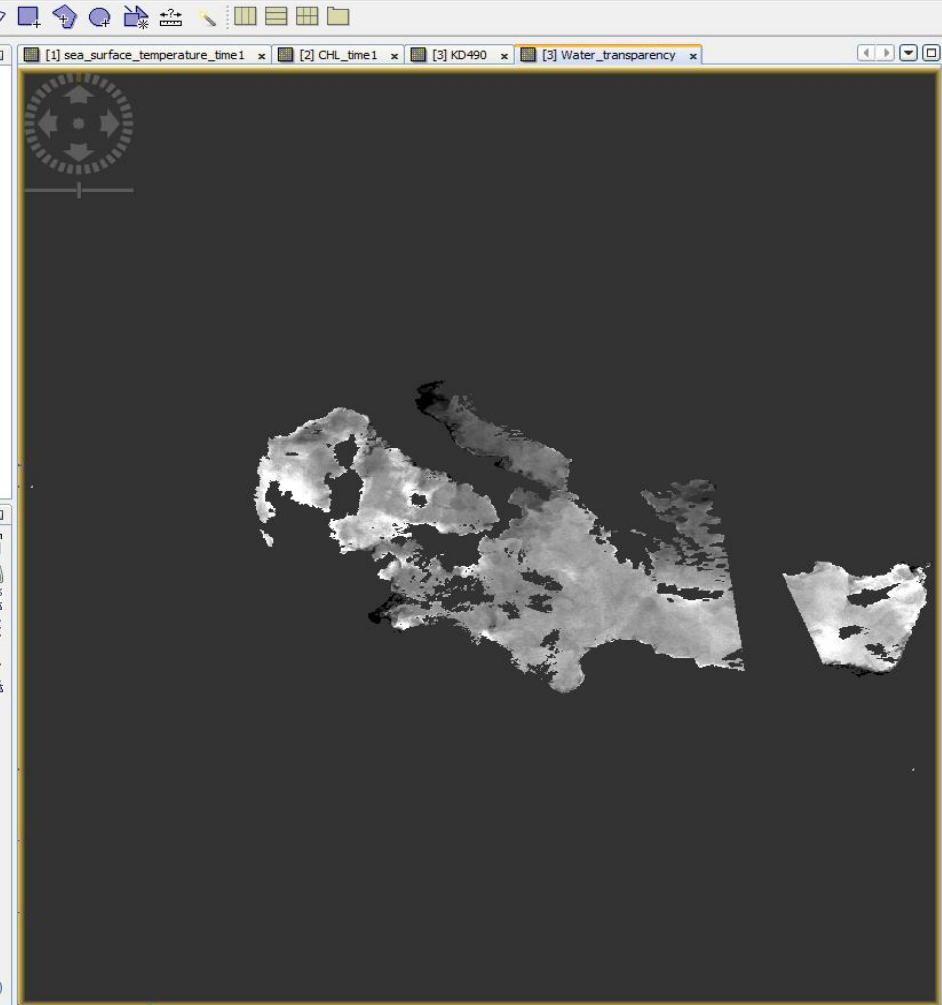
Band maths expression:
4/(2* KD490)

Load... Save... Edit Expression...

OK Cancel Help

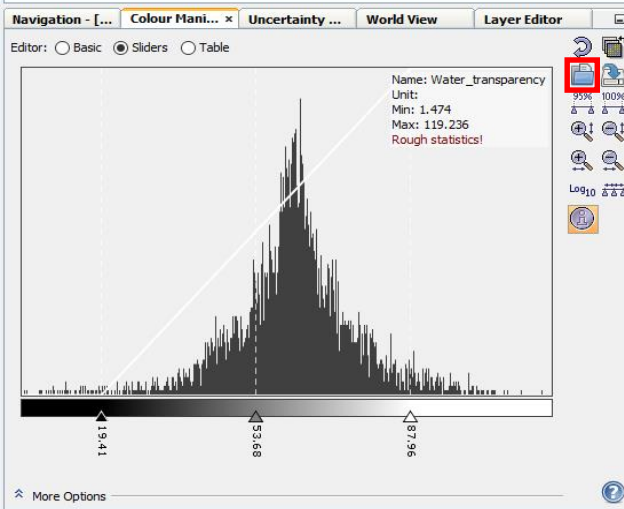
Product Explorer x **Pixel Info**

- [1] SST_MED_SST_1_3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-13-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency



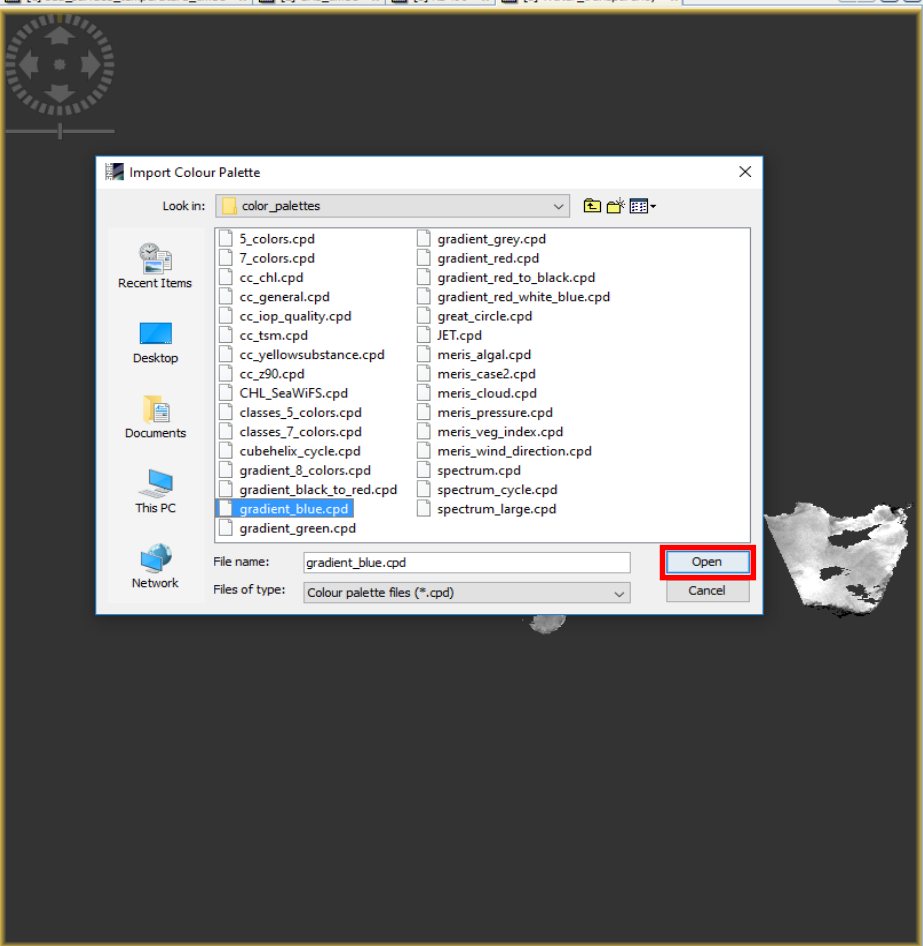
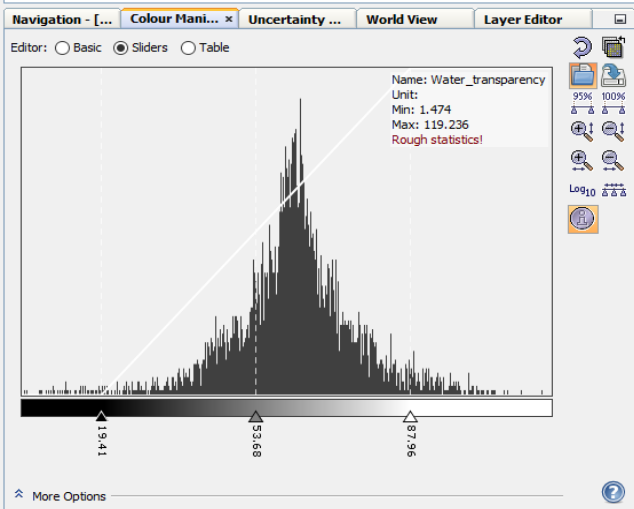
No Properties x

<No Properties>



Product Explorer x Pixel Info

- [1] SST_MED_SST_13S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency



Import Colour Palette

Look in: color_palettes

5_colors.cpd	gradient_grey.cpd
7_colors.cpd	gradient_red.cpd
cc_chl.cpd	gradient_red_to_black.cpd
cc_general.cpd	gradient_red_white_blue.cpd
cc_iop_quality.cpd	great_circle.cpd
cc_tsm.cpd	JET.cpd
cc_yellowsubstance.cpd	meris_algal.cpd
cc_z90.cpd	meris_case2.cpd
CHL_SeaWiFS.cpd	meris_cloud.cpd
classes_5_colors.cpd	meris_pressure.cpd
classes_7_colors.cpd	meris_veg_index.cpd
cubehelix_cycle.cpd	meris_wind_direction.cpd
gradient_8_colors.cpd	spectrum.cpd
gradient_black_to_red.cpd	spectrum_cycle.cpd
gradient_blue.cpd	spectrum_large.cpd
gradient_green.cpd	

File name: gradient_blue.cpd **Open** Cancel

Files of type: Colour palette files (*.cpd)

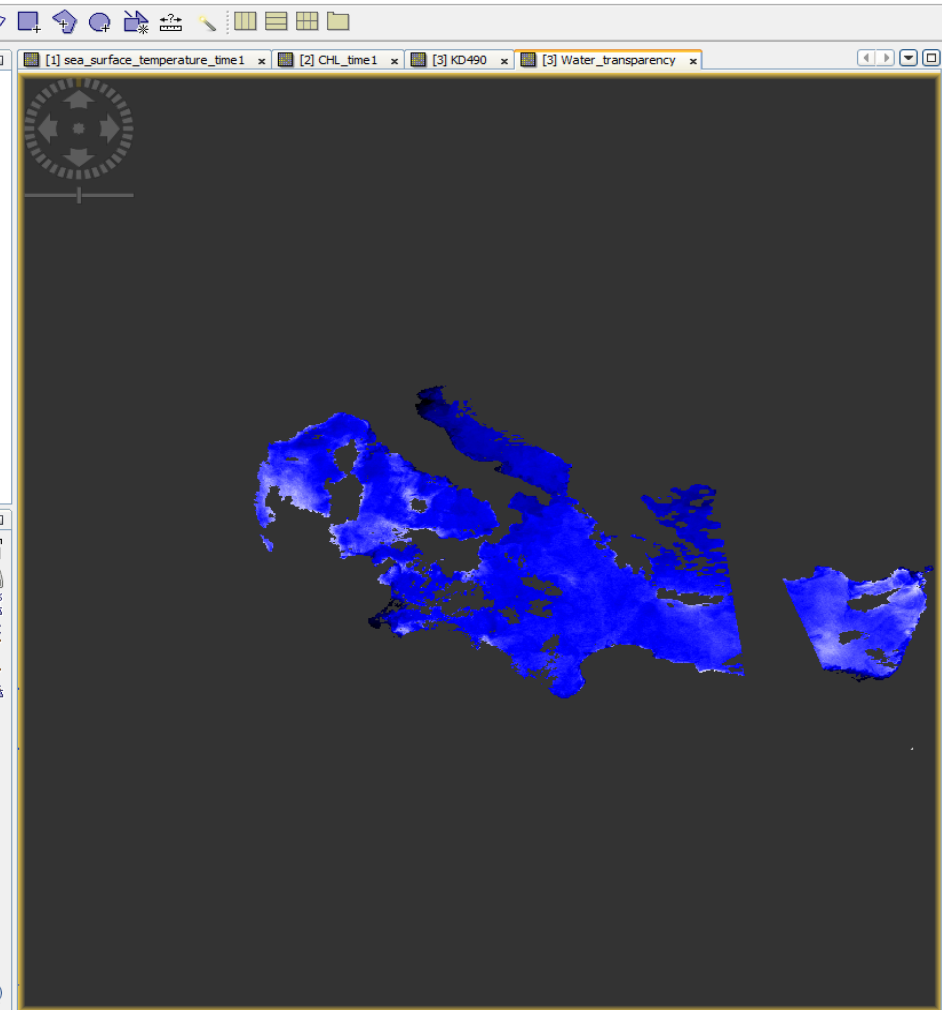
No Properties x

<No Properties>

Product Library
Layer Manager
Mask Manager

Product Explorer x Pixel Info

- [1] SST_MED_SST_1_3S_NRT_OBSERVATIONS_010_012_a_1474292621626
- [2] dataset-oc-eur-chl-multi-13-chl_1km_daily-rt-v01_1474299081247
- [3] dataset-oc-med-opt-multi_cci-13-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency



No Properties x

<No Properties>

Navigation - [Colour Mani... x] **Uncertainty** ... **World View** **Layer Editor**

Editor: Basic Sliders Table

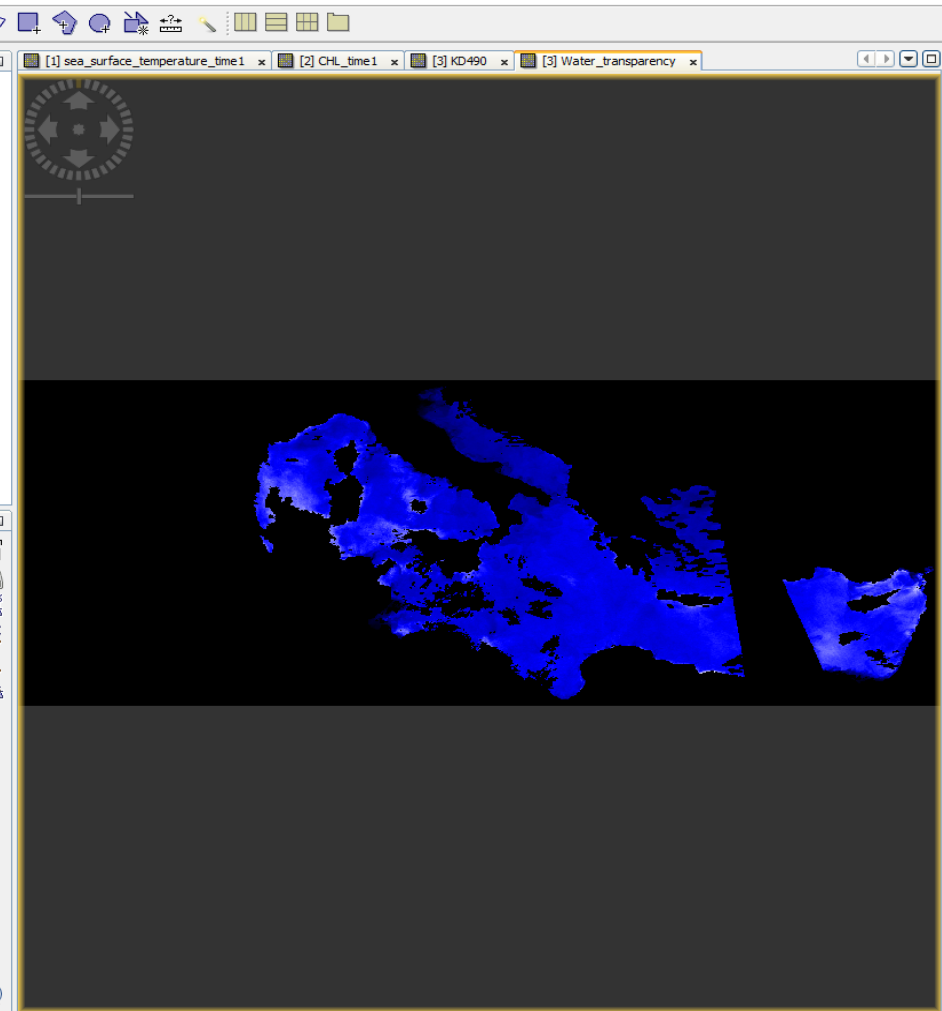
Name: Water_transparency
Unit:
Min: 1.474
Max: 119.236
Rough statistics!

1.47 50.35 119.24

More Options

Product Explorer x Pixel Info

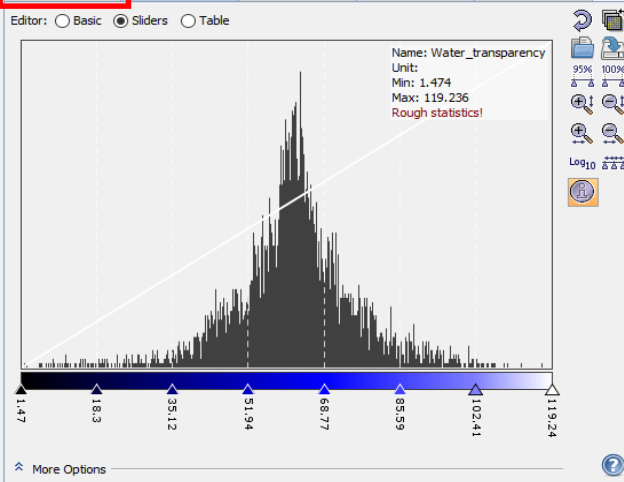
- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi_cci-I3-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency



No Properties x

<No Properties>

Navigation - [...] Colour Mani... x Uncertainty ... World View Layer Editor

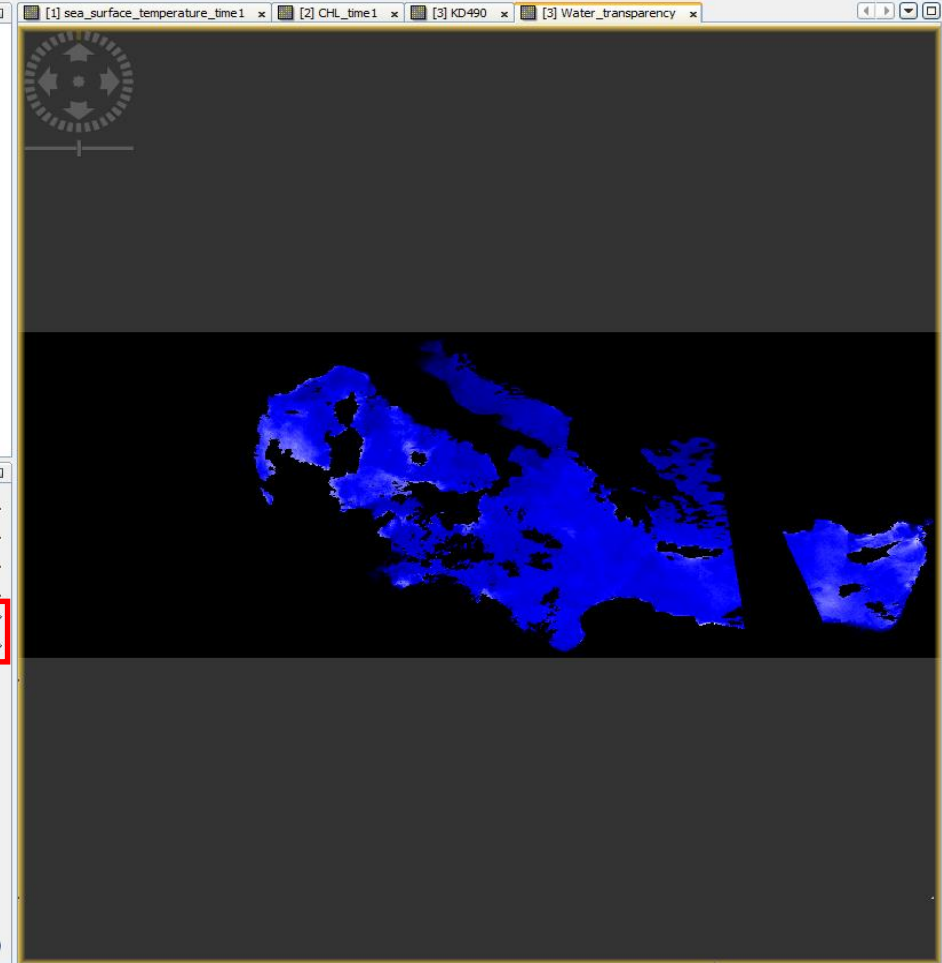


Product Library
Layer Manager
Mask Manager



Product Explorer x Pixel Info

- [1] SST_MED_SST_13S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi_cci-43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency



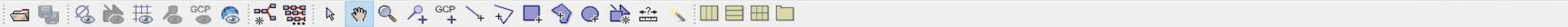
No Properties x

<No Properties>

Navigation -... x Colour Manip... Uncertainty ... World View Layer Editor

18.96 : 1 0°

Product Library
Layer Manager
Mask Manager



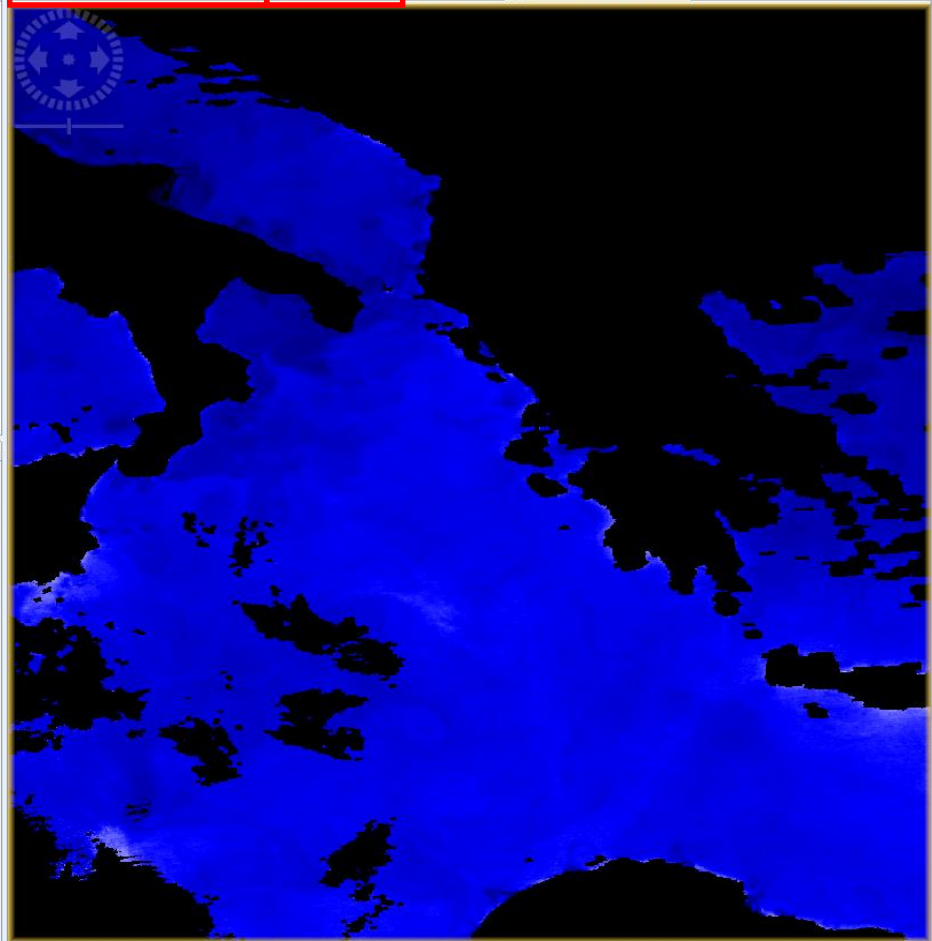
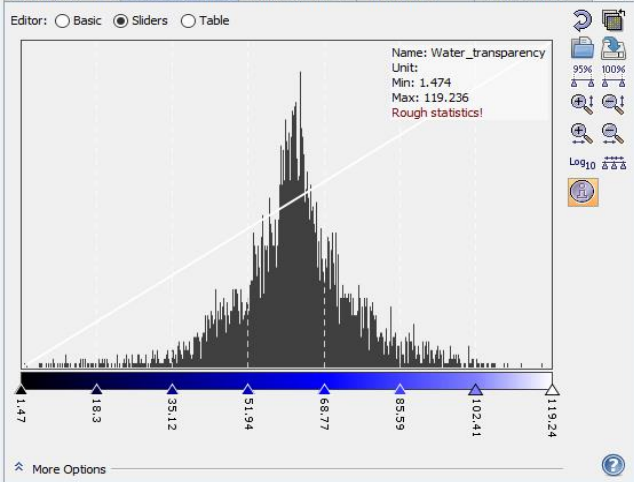
Product Explorer x Pixel Info

- [1] SST_MED_SST_13S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi_cci-43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency

[1] sea_surface_temperature_time1 x [2] CHL_time1 x [3] KD490 x [3] Water_transparency x

No Properties x

Navigation - [...] Colour Mani... x Uncertainty ... World View Layer Editor



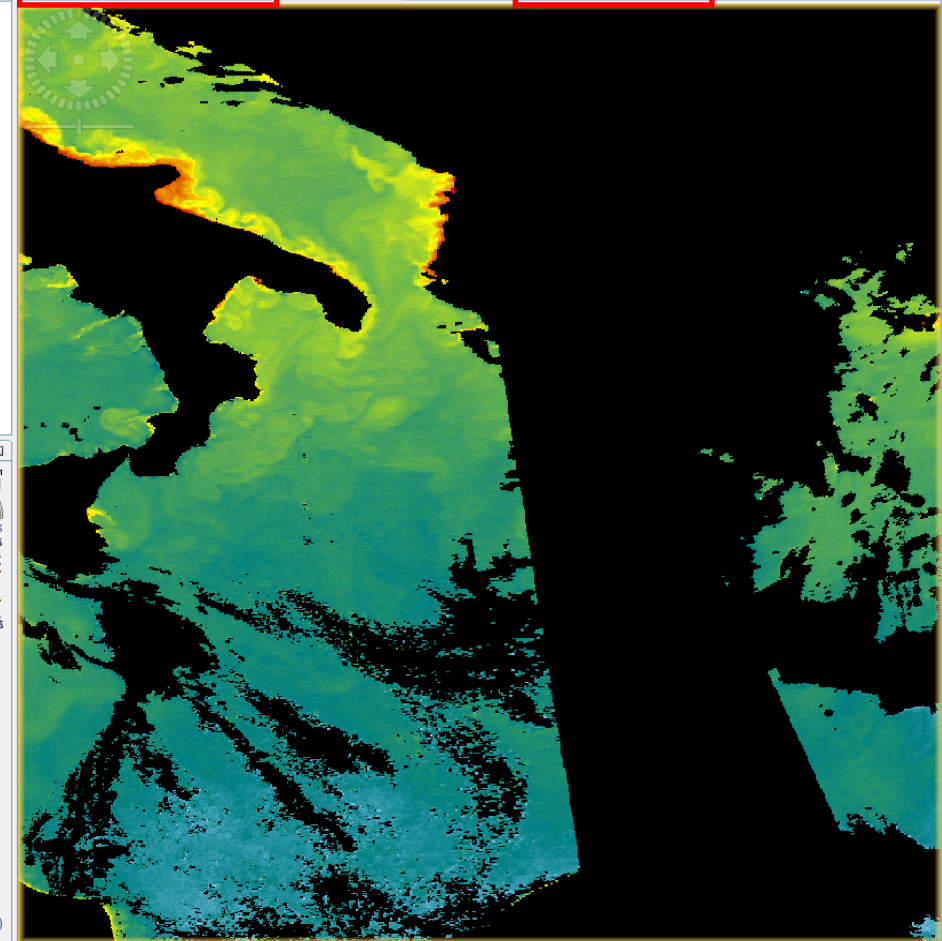
<No Properties>

Next

Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi_cci-43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency

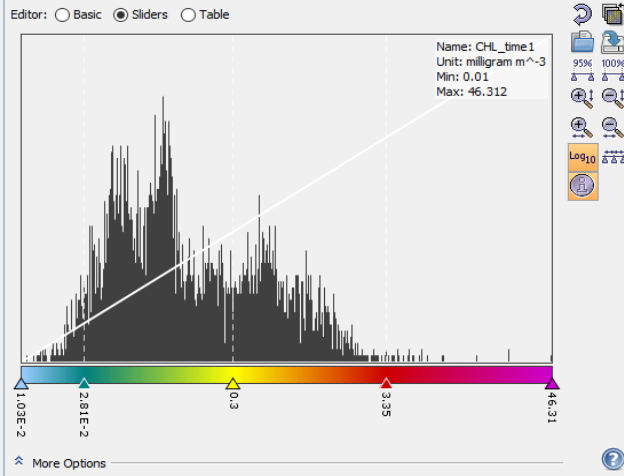
[1] sea_surface_temperature_time1 x [2] CHL_time1 x [3] KD490 x [3] Water_transparency x



No Properties x

<No Properties>

Navigation - [...] Colour Mani... x Uncertainty ... World View Layer Editor



Next



Product Explorer x Pixel Info

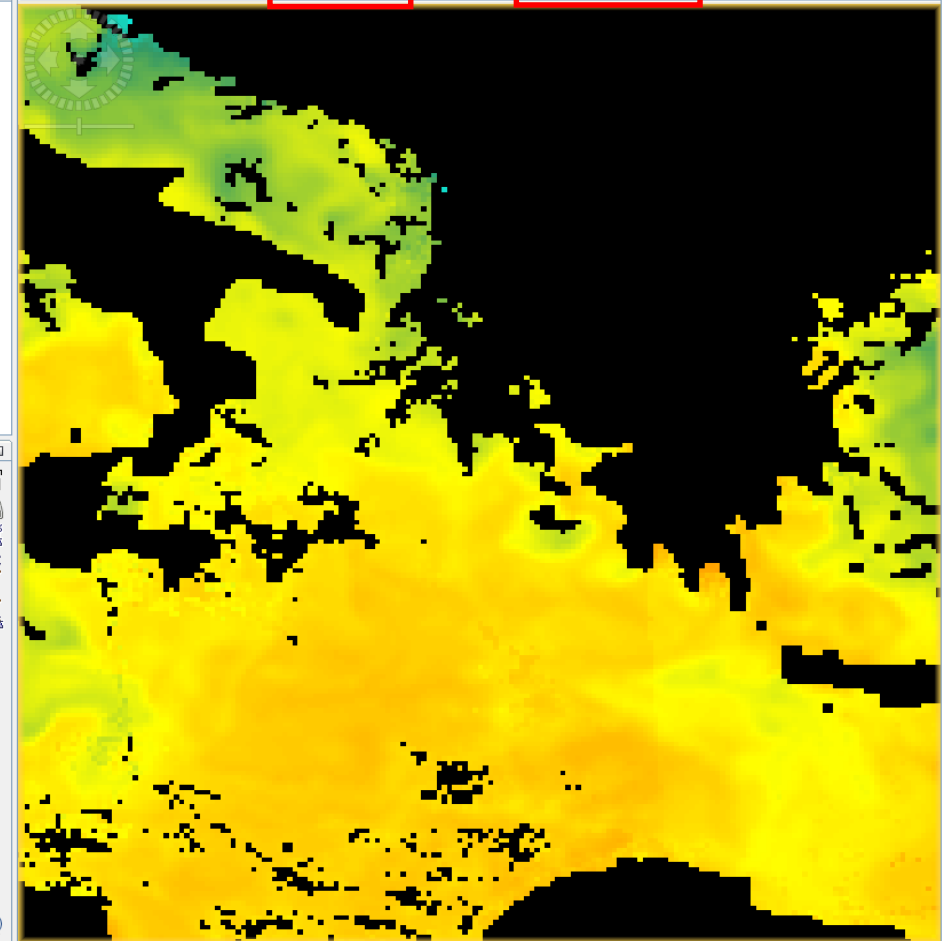
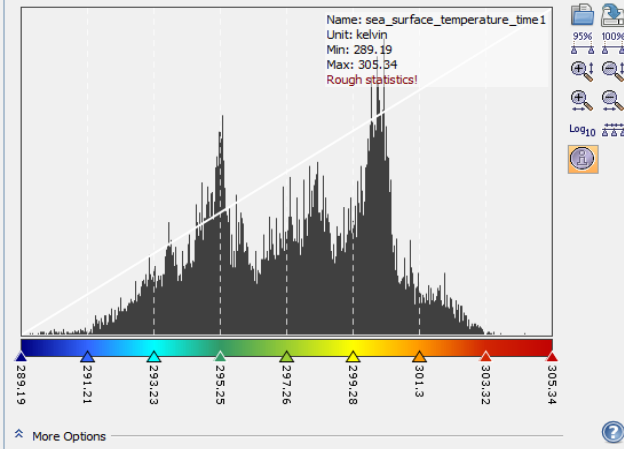
- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi_cci-43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency

[1] sea_surface_temperature_time1 x [2] CHL_time1 x [3] KD490 x [3] Water_transparency x

No Properties x

Navigation - ... Colour Mani... x Uncertainty ... World View Layer Editor

Editor: Basic Sliders Table



<No Properties>

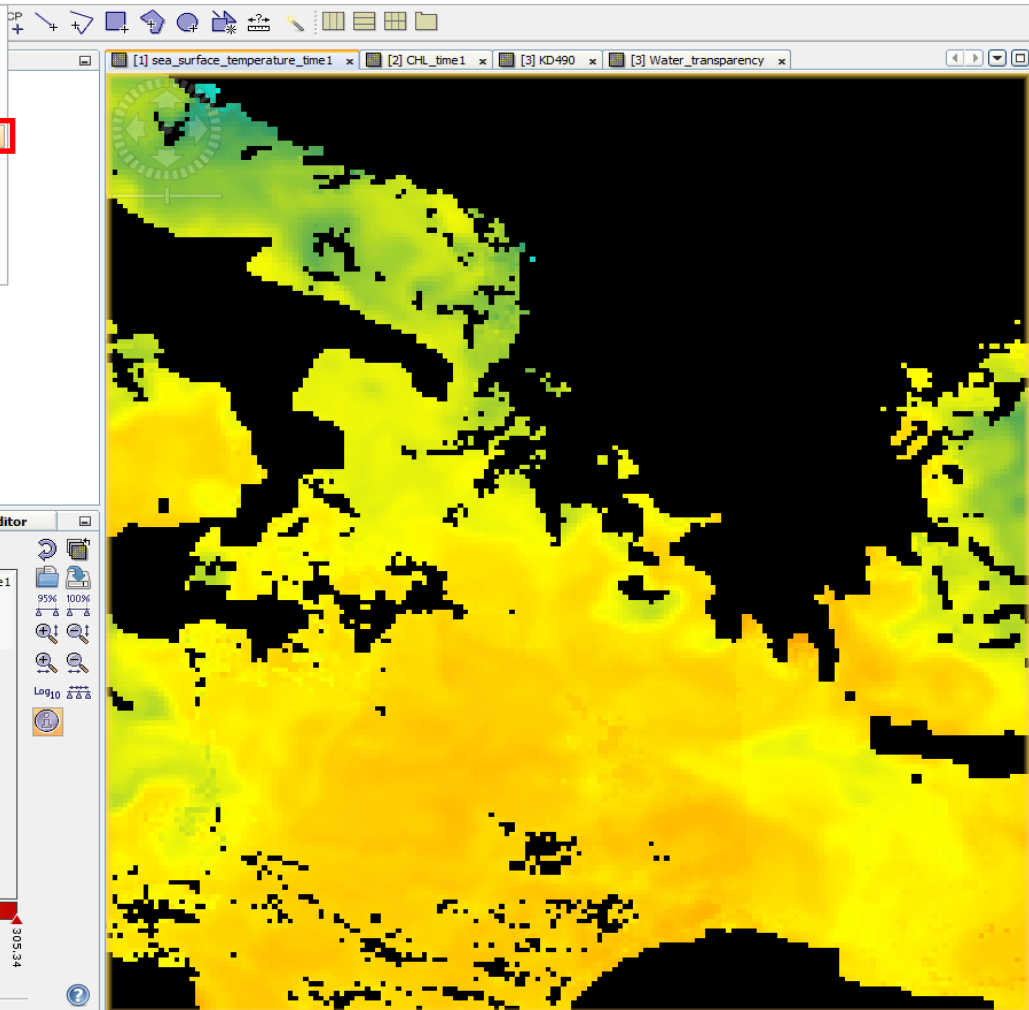
Next



Product Explorer x **Pixel Info**

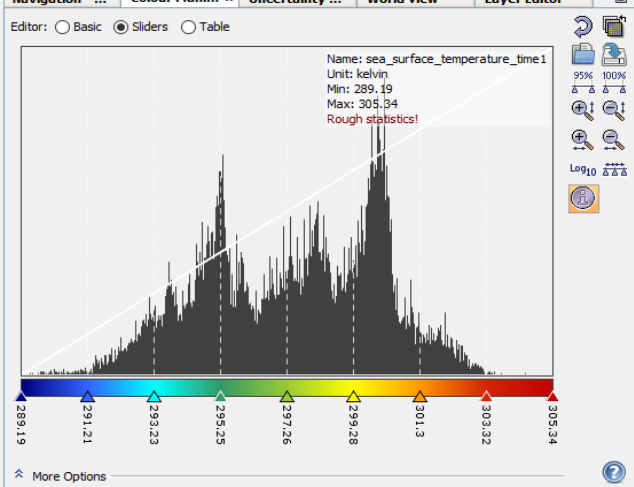
- [1] SST_MED_SST_L3S_NRT_OBSER
- [2] dataset-oc-eur-chl-multi-l3-1km_daily-rt-v01_1474299081247.nc
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi-cci-43-1km_daily-rt-v01_1474299081247.nc
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency

- Band Maths...
- Filtered Band...
- Convert Band
- Propagate Uncertainty...
- Geo-Coding Displacement Bands...
- Subset...**
- Geometric Operations >
- DEM Tools >
- Masks >
- Data Conversion >
- Image Analysis >
- Export >



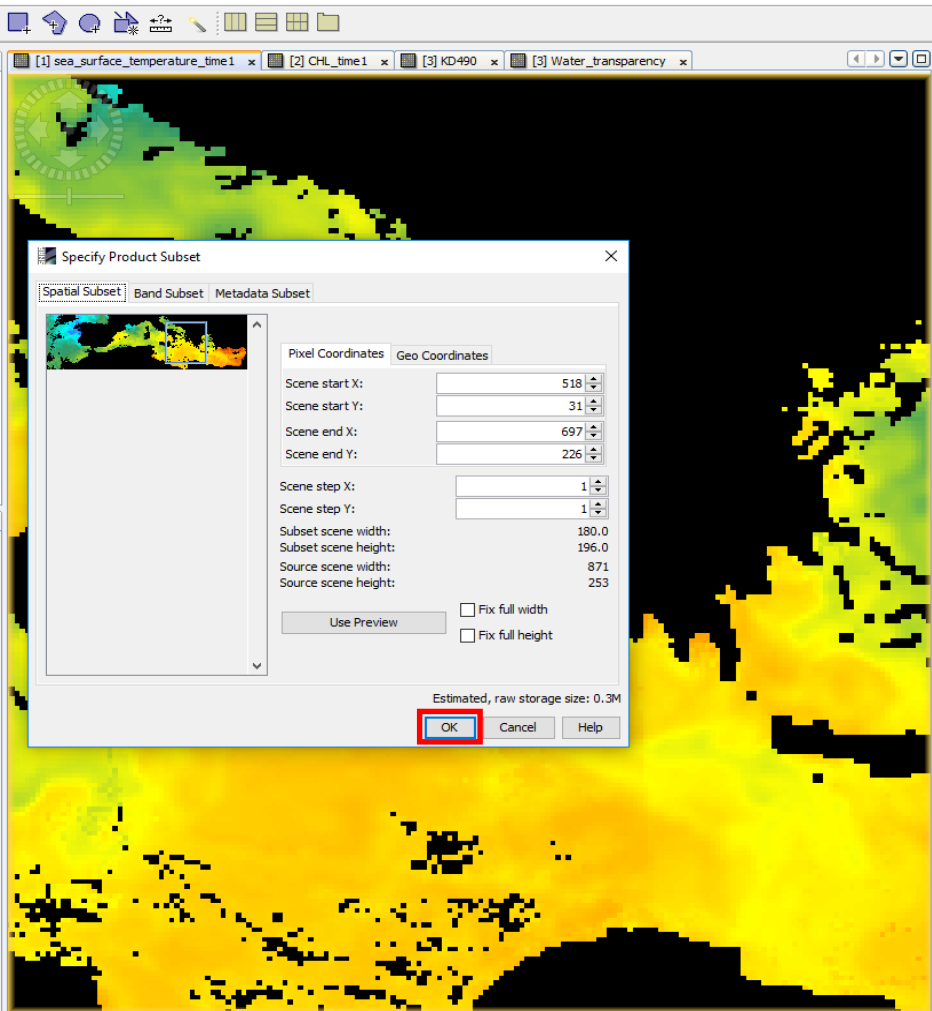
No Properties x

<No Properties>



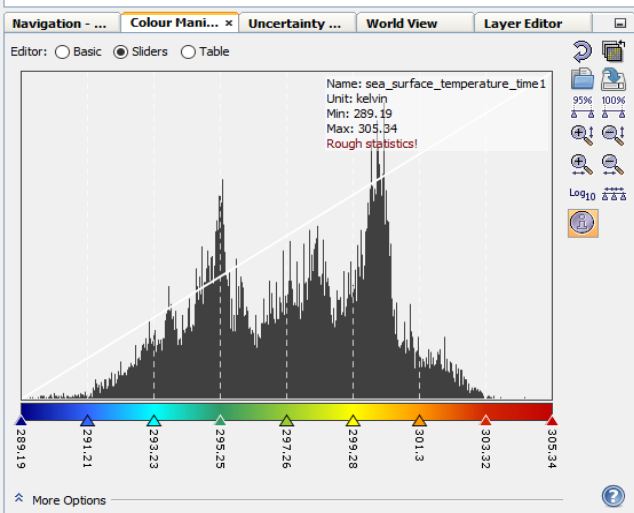
Product Explorer x **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-l3-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi_cci-43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency



No Properties x

<No Properties>



Specify Product Subset

Spatial Subset Band Subset Metadata Subset

Pixel Coordinates Geo Coordinates

Scene start X: 518
 Scene start Y: 31
 Scene end X: 697
 Scene end Y: 226

Scene step X: 1
 Scene step Y: 1

Subset scene width: 180.0
 Subset scene height: 196.0
 Source scene width: 871
 Source scene height: 253

Fix full width
 Fix full height

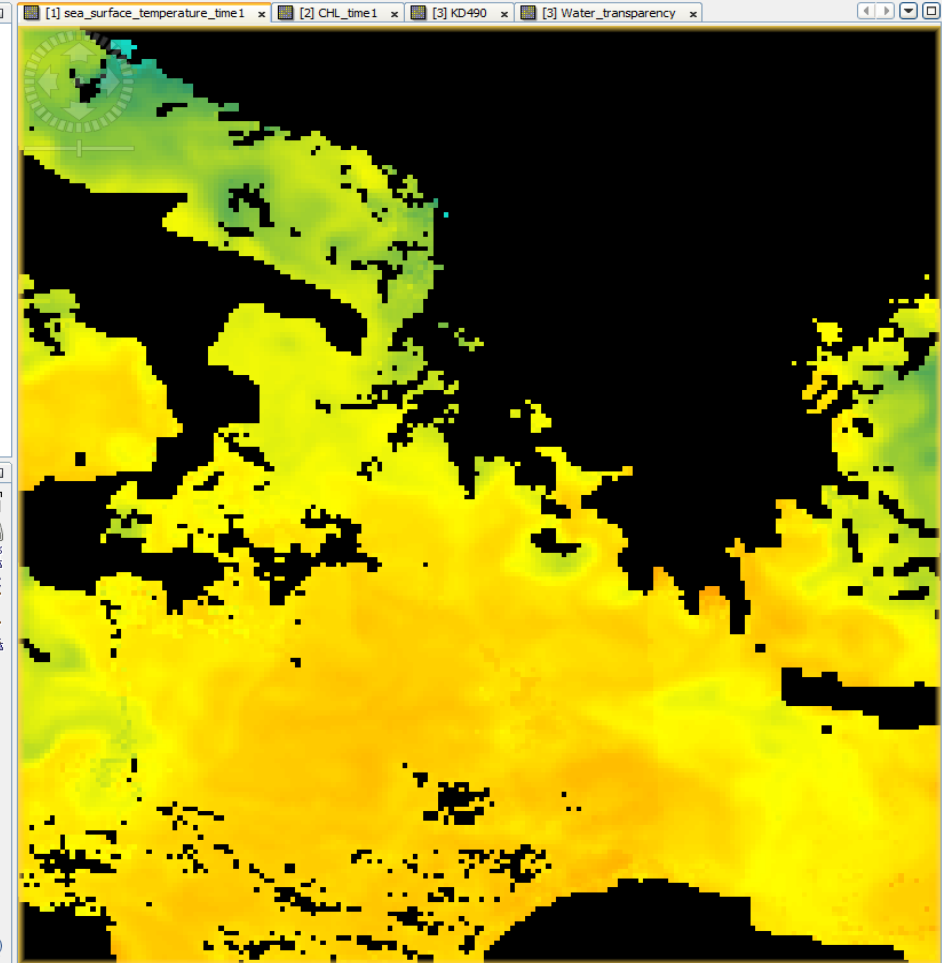
Use Preview

Estimated, raw storage size: 0.3M

OK Cancel Help

Product Explorer x Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi43-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi_cci43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency
- [4] subset_0_of_SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands**



[4] subset_0_of_SST_MED_SST_L3S...

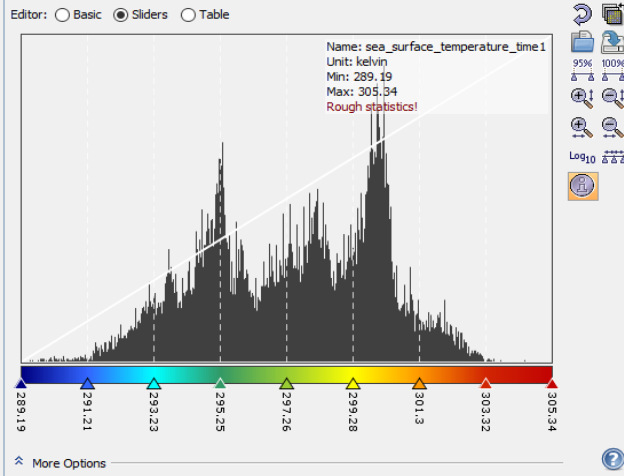
Product Node Properties

Name	subset_0_of_SST_ME...
Description	Mediterranean SST, L...
Modified	<input checked="" type="checkbox"/>

Product Properties

File	
Product Type	CF-1.0
Sensing Start Time	
Sensing Stop Time	
Band Grouping	sea_surface_tempera...

Navigation - ... Colour Mani... x Uncertainty ... World View Layer Editor

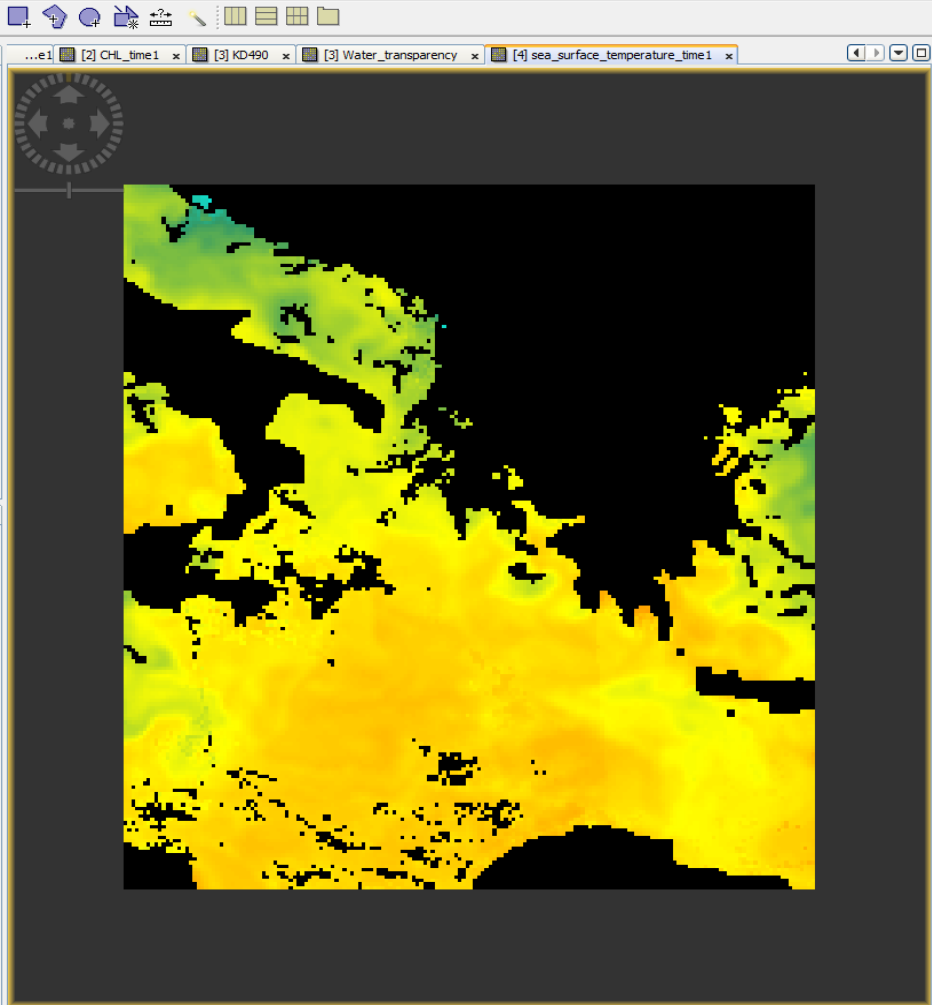


[4] subset_0_of_SST_MED_SST_L3S_NRT_O...

Mediterranean SST, L3S, 1/16deg daily
(SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a)

Product Explorer | **Pixel Info**

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi-cci-43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency
- [4] subset_0_of_SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6



No Properties

<No Properties>

Navigation | **Colour Mani...** | **Uncertainty** | **World View** | **Layer Editor**

Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
Unit: kelvin
Min: 293.72
Max: 301.07

289.19 291.21 293.23 295.25 297.26 299.28 301.3 303.32 305.34

More Options

Next

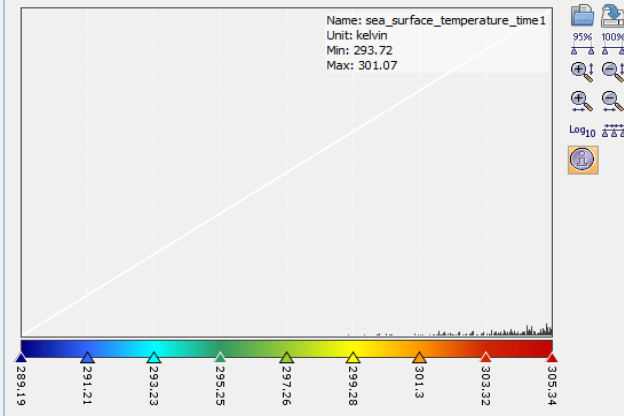
- Open Product...
- Reopen Product
- Product Library
- Close Product
- Close All Products
- Close Other Products
- Save Product
- Save Product As...
- Session
- Import
- Export
- Exit
- Metadata
- Vector Data
- Bands
 - sea_surface_tempera
 - sea_surface_tem
 - sea_surface_tem
 - sea_surface_tem
 - sea_surface_tem
 - sea_surface_tem
 - sea_surface_tem

- Other
- SAR Formats
- CSV
- GeoTIFF / BigTIFF
- BEAM-DIMAP
- ENVI
- GeoTIFF
- HDF5
- NetCDF4-BEAM
- NetCDF4-CF
- NetCDF-BEAM
- NetCDF-CF

Navigation - ... Colour Mani...

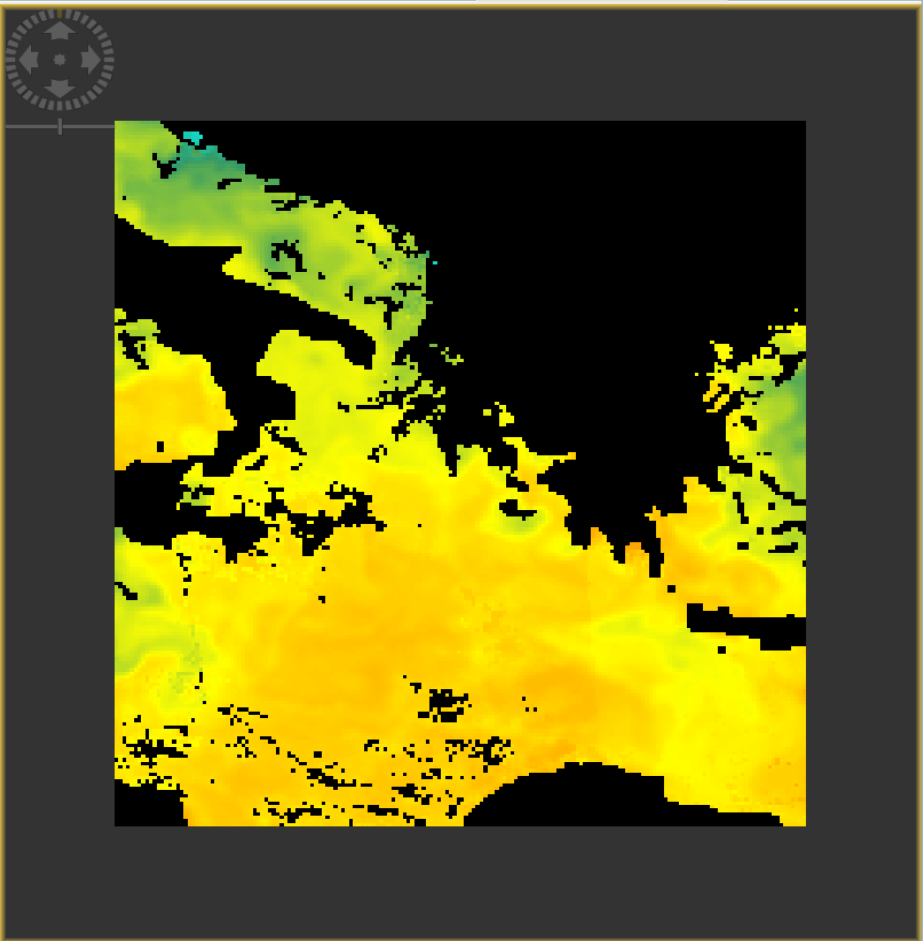
Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
Unit: kelvin
Min: 293.72
Max: 301.07



- Refresh
- Save
- Print
- 95%
- 100%
- Zoom In
- Zoom Out
- Log10
- Info

...e1 [2] CHL_time1 x [3] KD490 x [3] Water_transparency x [4] sea_surface_temperature_time1 x



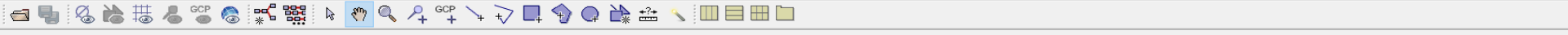
No Properties x

<No Properties>

Product Library

Layer Manager

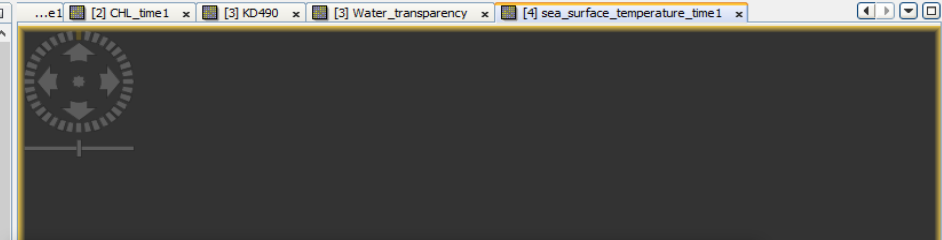
Mask Manager



Product Explorer

Pixel Info

- [1] SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
- [2] dataset-oc-eur-chl-multi-43-chl_1km_daily-rt-v01_1474299081247
 - Metadata
 - Vector Data
 - Bands
- [3] dataset-oc-med-opt-multi-cci-43-kd490_1km_daily-rep-v01_1474295480888
 - Metadata
 - Vector Data
 - Bands
 - KD490
 - Water_transparency
- [4] subset_0_of_SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626
 - Metadata
 - Vector Data
 - Bands
 - sea_surface_temperature
 - sea_surface_temperature_time1
 - sea_surface_temperature_time2
 - sea_surface_temperature_time3
 - sea_surface_temperature_time4
 - sea_surface_temperature_time5
 - sea_surface_temperature_time6



No Properties

<No Properties>

SNAP - Export Product

Save in: SUB_MARINE

- SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626.tif
- subset_0_of_SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626.tif

File size: 6 M

File name: SST_MED_SST_L3S_NRT_OBSERVATIONS_010_012_a_1474292621626.tif

Files of type: GeoTIFF / BigTIFF data product (*.tif,*.tiff)

Export Product

Navigation

Editor: Basic Sliders Table

Name: sea_surface_temperature_time1
Unit: kelvin
Min: 293.72
Max: 301.07

289.19 291.21 293.23 295.25 297.26 299.28 301.3 303.32 305.34

More Options



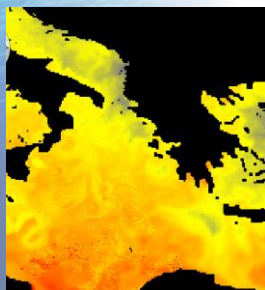
Product Library

Layer Manager

Mask Manager

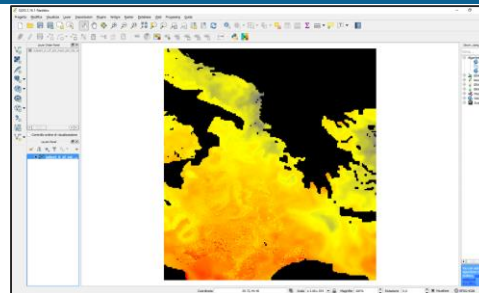


Use of generated maps

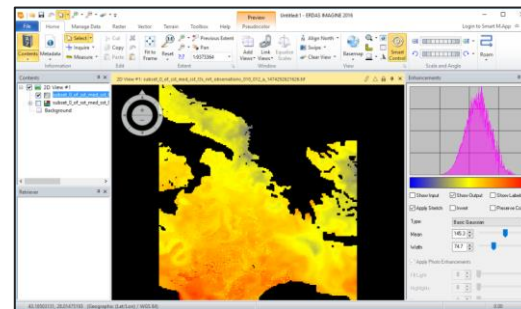


.TIF image*

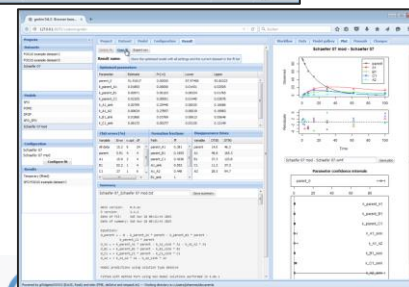
GIS tools



Remote sensing tools



Analysis tools



* Colour palette applied



Thank you