ODYSSEA

Creating products and knowledge for the Mediterranean

bluelobster
www.bluelobster.co.uk

Marinomica

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727277

Defining Marinomics

marinomics

/məˈriːnˈnɒmɪks/

1. The science of decision making in the marine environment.
2. The branch of knowledge concerned with the production, consumption, and transfer of wealth in the marine environment.

We see this as an opportunity to create and manage a Wikipedia definition and to take this definition forward and, hopefully, spread the definition.

By defining a new field appropriately, this will give us a superb marketing opportunity to talk about a the field, what it includes (data science, economics, intelligent product design etc) and how the platform fills this space.

We have therefore branded the application as ***Marinomica***

Marinomica

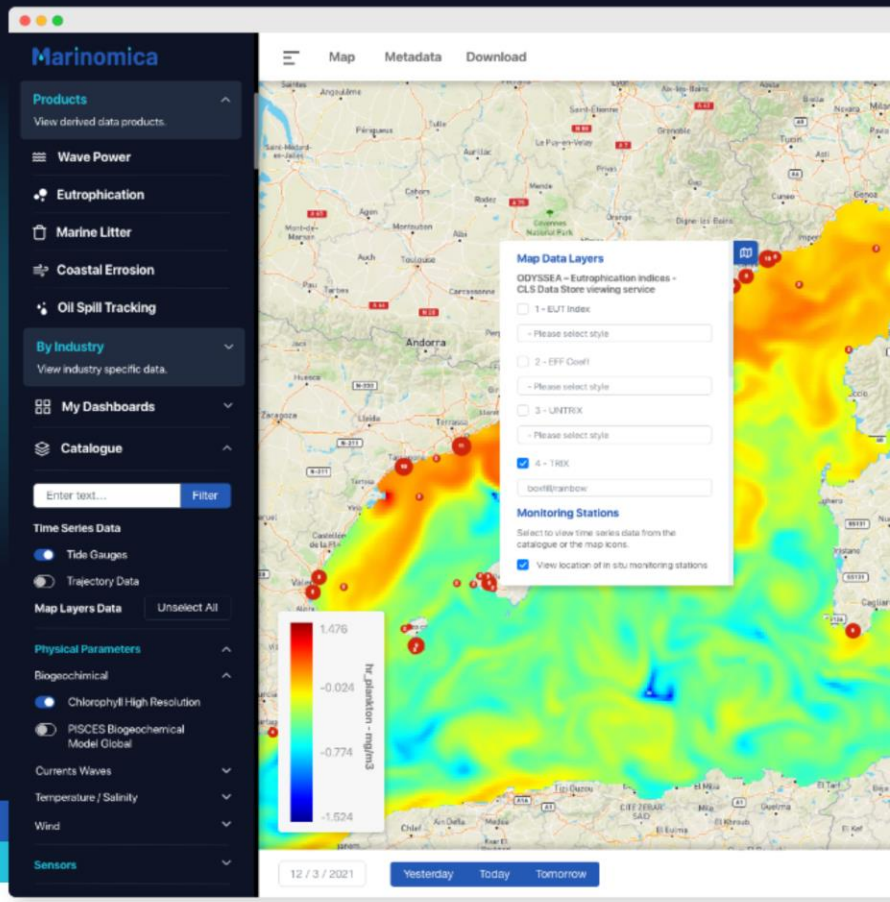
~~**The Mediterranean's**~~ ~~**Europe's**~~ **Digital Twin**

Forecasting and simulations to enable decision making and expand knowledge concerned with the production, consumption, and transfer of wealth in the marine environment.

Creating products and knowledge for the coastal and offshore seas

Marinomica transforms knowledge into valuable information that can be used to increase revenues, attract investment and manage ecological challenges.

Get Started



What is Marinomica?

The platform provides state of the art on-demand data services and forecasts to a wide range of users managing and mitigating challenges arising from changes in the water. Marinomica has brought data acquisition, usage of AI, modern modelling capabilities and visualisation to a next level.

For all interested parties in accessing knowledge concerned with the production, consumption, and transfer of wealth in the marine environment, the Marinomica Platform will provide a single portal by applying advanced

Jellyfish Swarm Forecast

Marinomica services include early warnings of jellyfish blooms and potential stranding locations. Historical data, real-time and forecasting data are presented in maps for each pixel point of coastline, near- and offshore areas.

Ocean Energy Potential

Wind and wave energy potential mapping and forecasts; forces exerted on piles and platforms; extreme events analysis; potential for H2 production from H2S.

Maritime Safety

Vessel routes optimisation; dispersion of both accidental and non-accidental oil spill releases; dispersion of accidental litter release. Definition of areas in which ballast water exchange and/or open loop scrubber effluent discharge is allowed and defining “same location” as defined by the BWMC.

Aquaculture & Algael

Analysis on probability of occurrence of storm events, extreme waves and surges; Recommendations on cage siting, configuration and anchoring. Analysis on probability of occurrence of eutrophication incidents; early-warnings on algal blooms and toxic blooms.

Fisheries Exploitation

Marine safety and security of fishers; dynamic estimation of the probability of occurrence of certain species; stock assessments and management recommendations; probability of occurrence of invasive species.

Plastic Pollution Monitoring

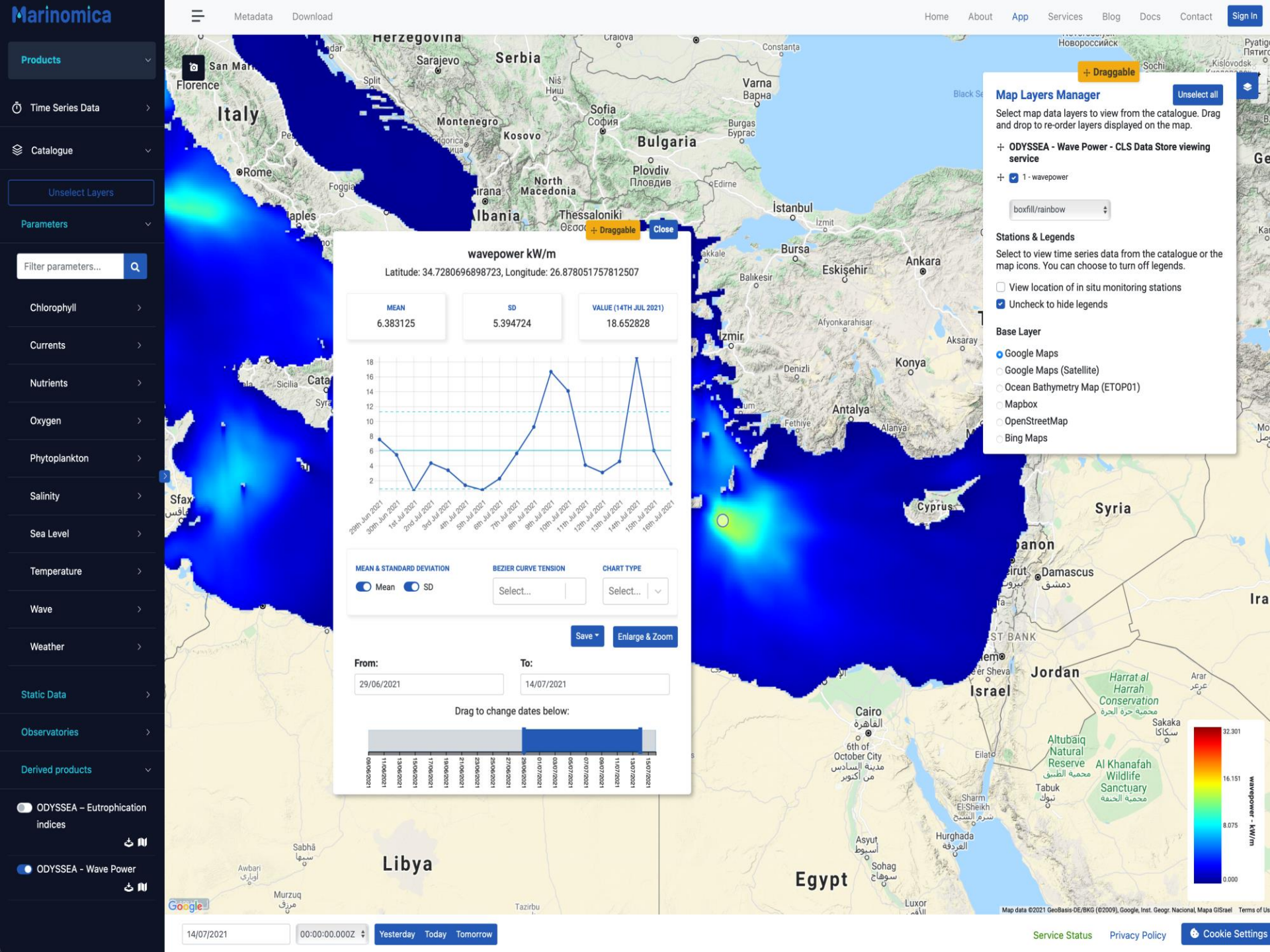
Potential to identify sources of rubbish and locate and map polluted stretches of the sea and coastline. Will provide permanent and real-time access to information and date from noval plastic monitoring sensors and (in the future) reported sightings and incidents.

Leisure & Tourism

Historic and forecast shoreline erosion/deposition changes; Coastal Vulnerability Indices; metocean conditions monitoring and forecasting for safe leisure activities; potential jellyfish outbreak forecasts and tracking.

Coastal Erosion

Identifies coastal erosion ‘hotspots’ in specific areas along the shoreline and obtain forecasts about potential coastal retreat and loss of land. Results are presented in maps. Historical data, real-time and forecasting data for each pixel point of coastline, near- and offshore areas.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ODYSSEA – Eutrophication indices
ODYSSEA - Wave Power
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wavepower kW/m
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ODYSSEA - Wave Power - CLS Data Store viewing service
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Stations & Legends
Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.
View location of in situ monitoring stations
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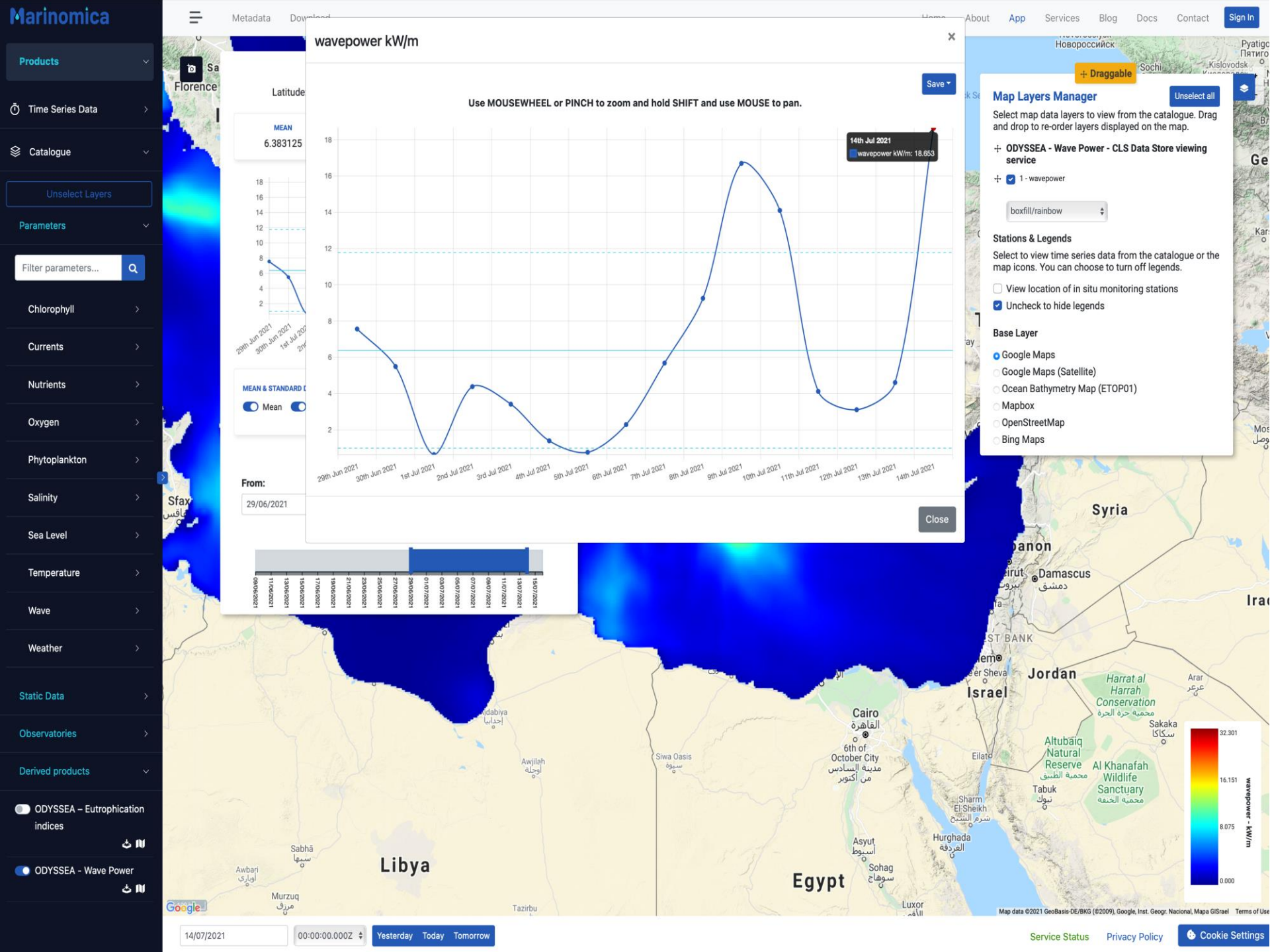
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ODYSSEA - Wave Power
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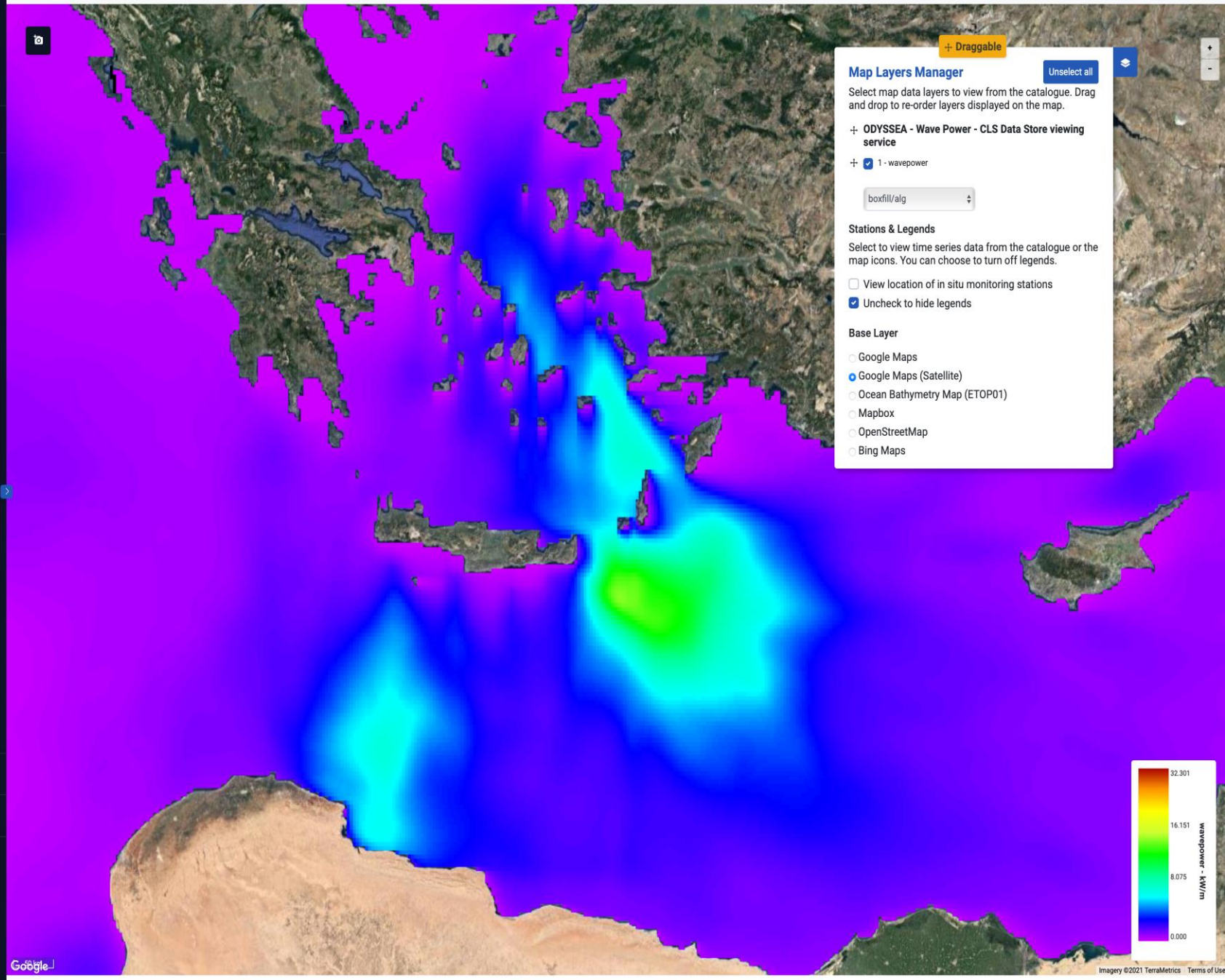
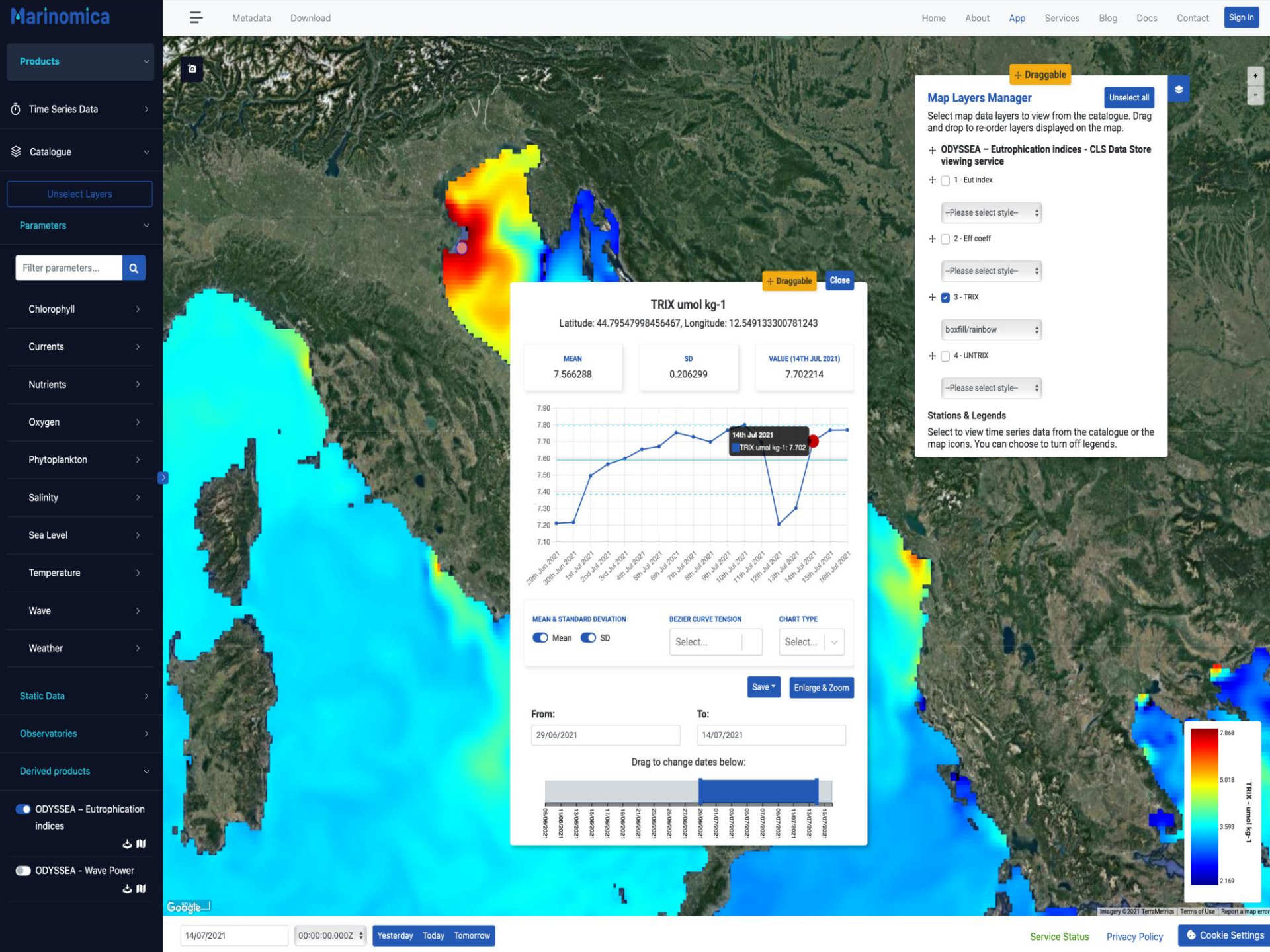
ODYSSEA – Eutrophication indices

ODYSSEA - Wave Power

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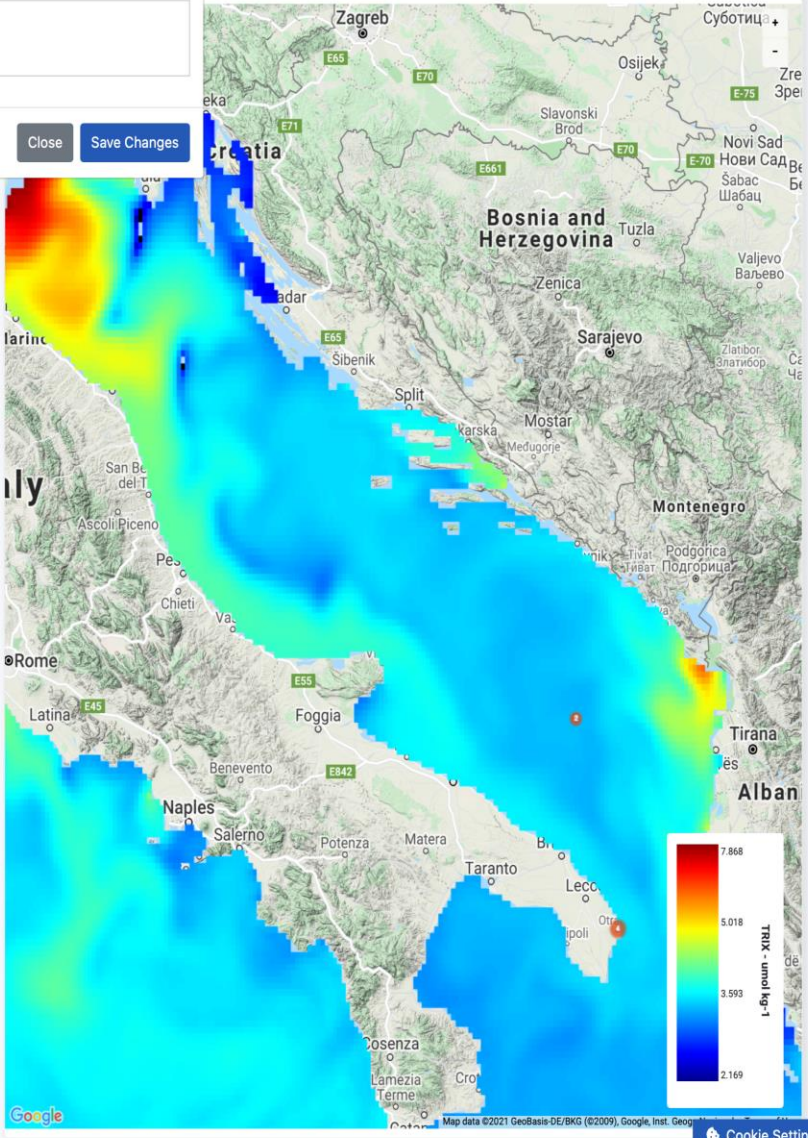
2021-07-13T23:00:00.000Z - Expand To Interact



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Eutrophication

Dashboard Actions

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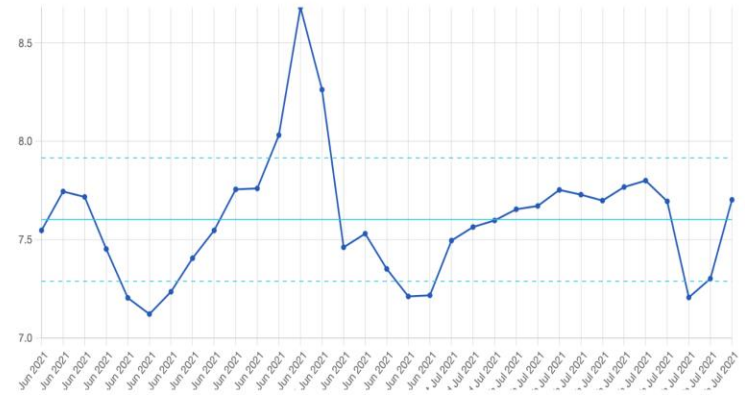

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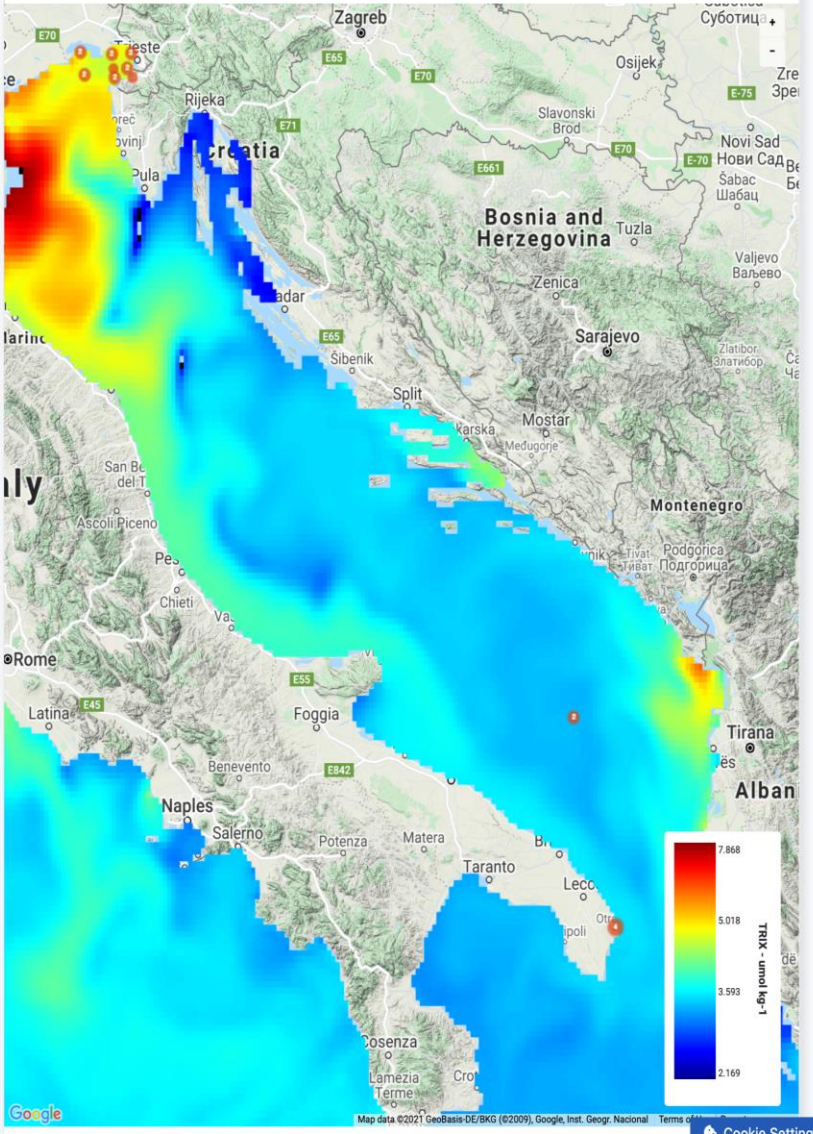

Eutrophication

The standard Lorem Ipsum passage, used since the 1500s

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Section 1.10.32 of "de Finibus Bonorum et Malorum", written by Cicero in 45 BC

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?"

1914 translation by H. Rackham

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Eutrophication

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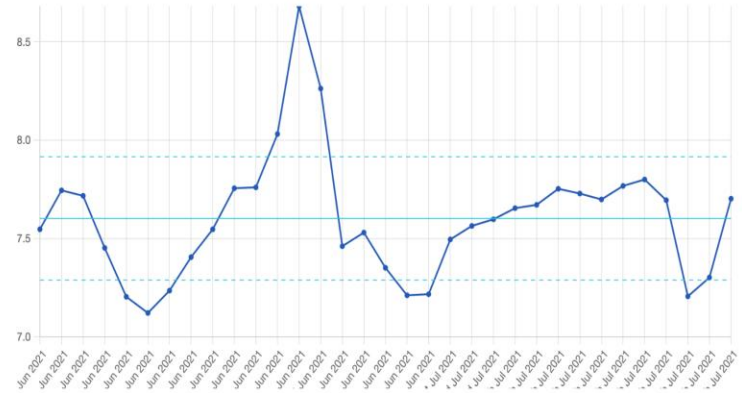

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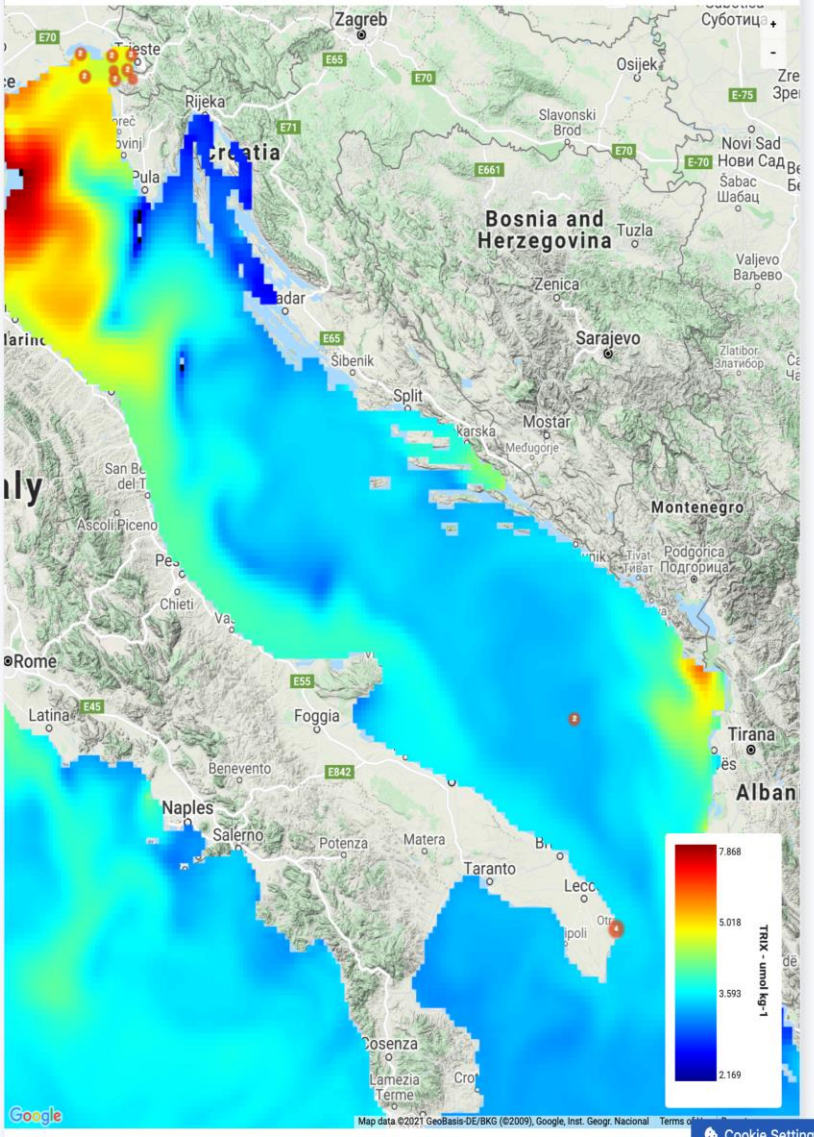

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Section 1.10.32 of "de Finibus Bonorum et Malorum", written by Cicero in 45 BC

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?"

1914 translation by H. Rackham

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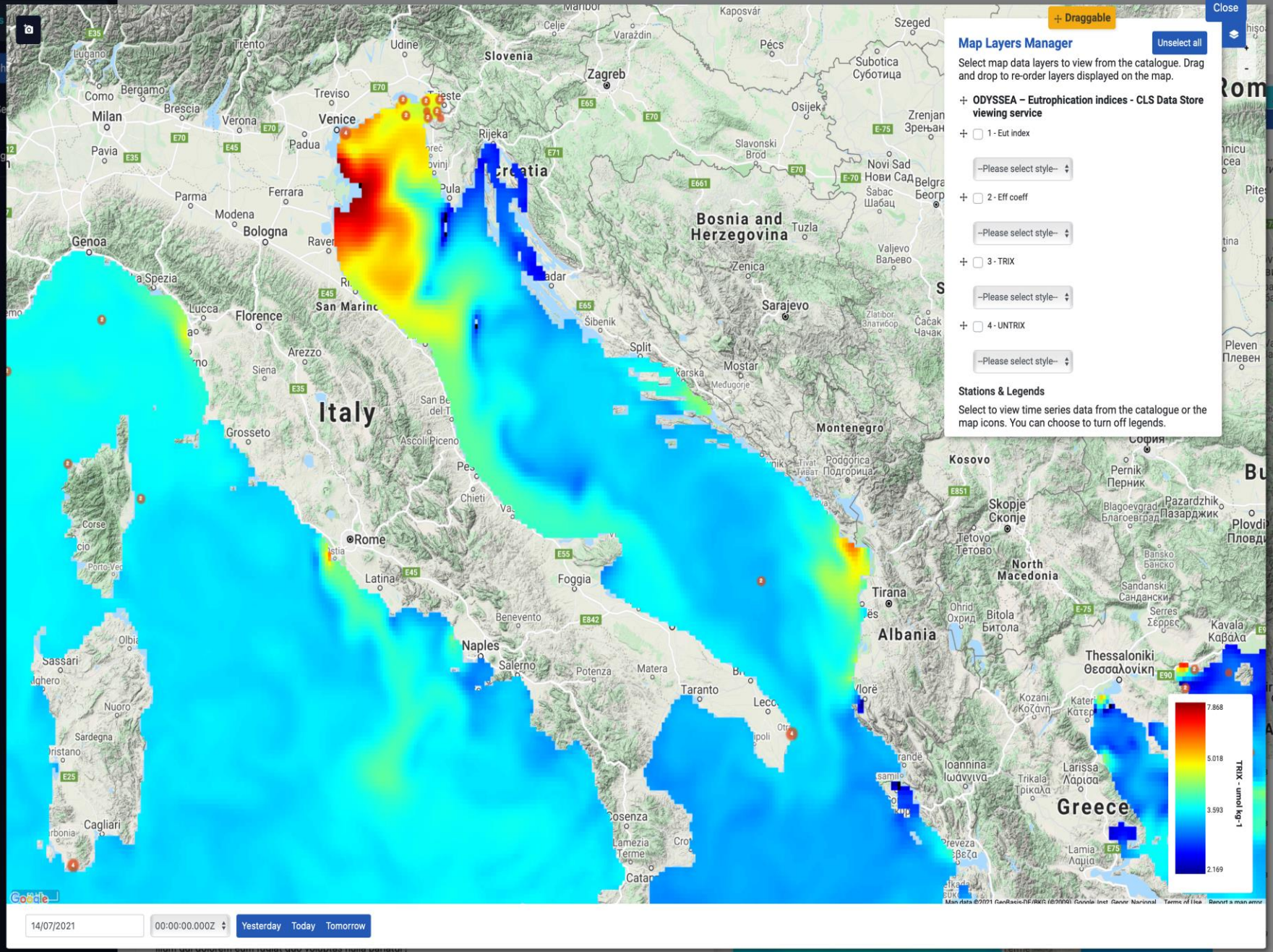

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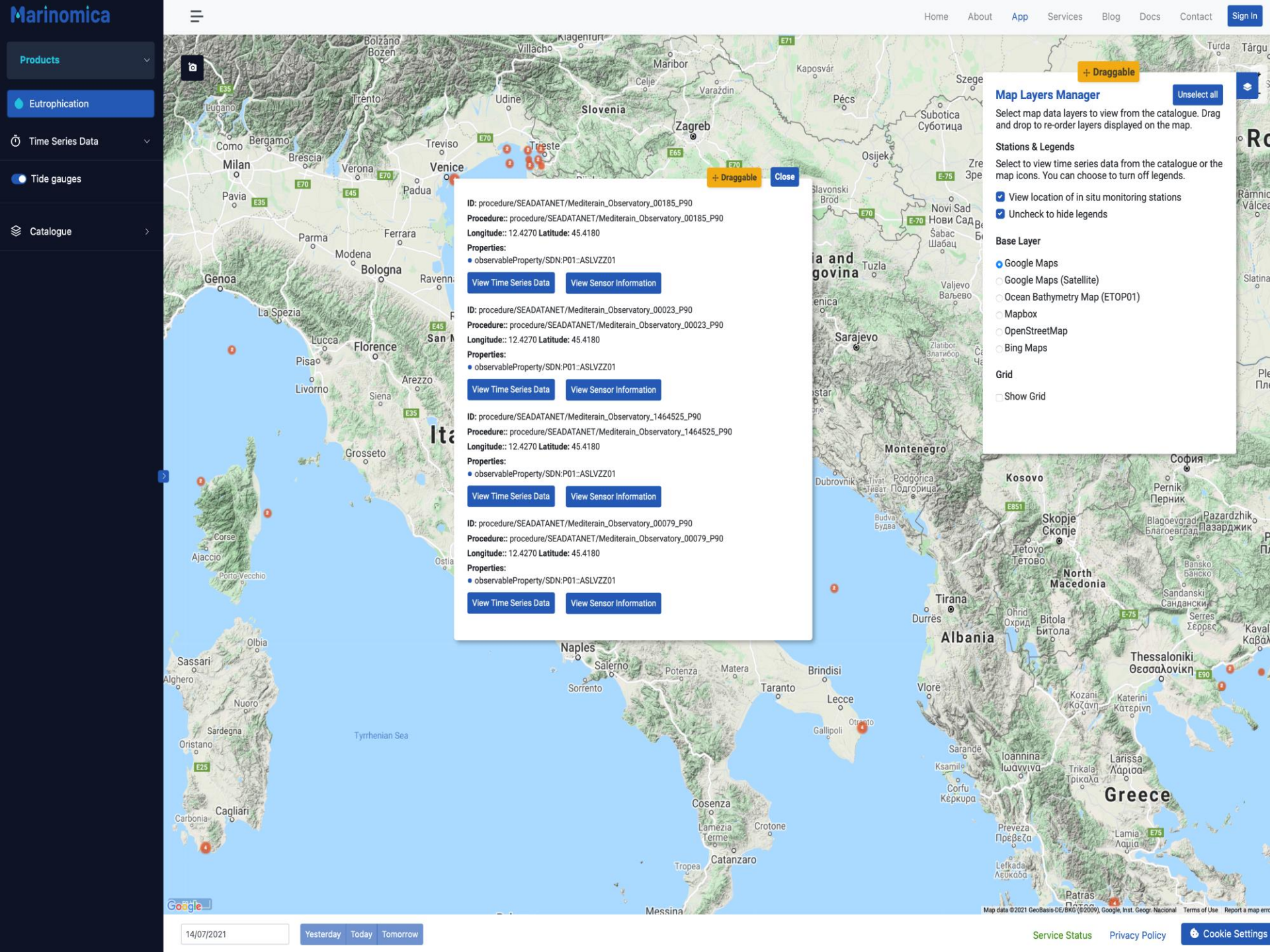
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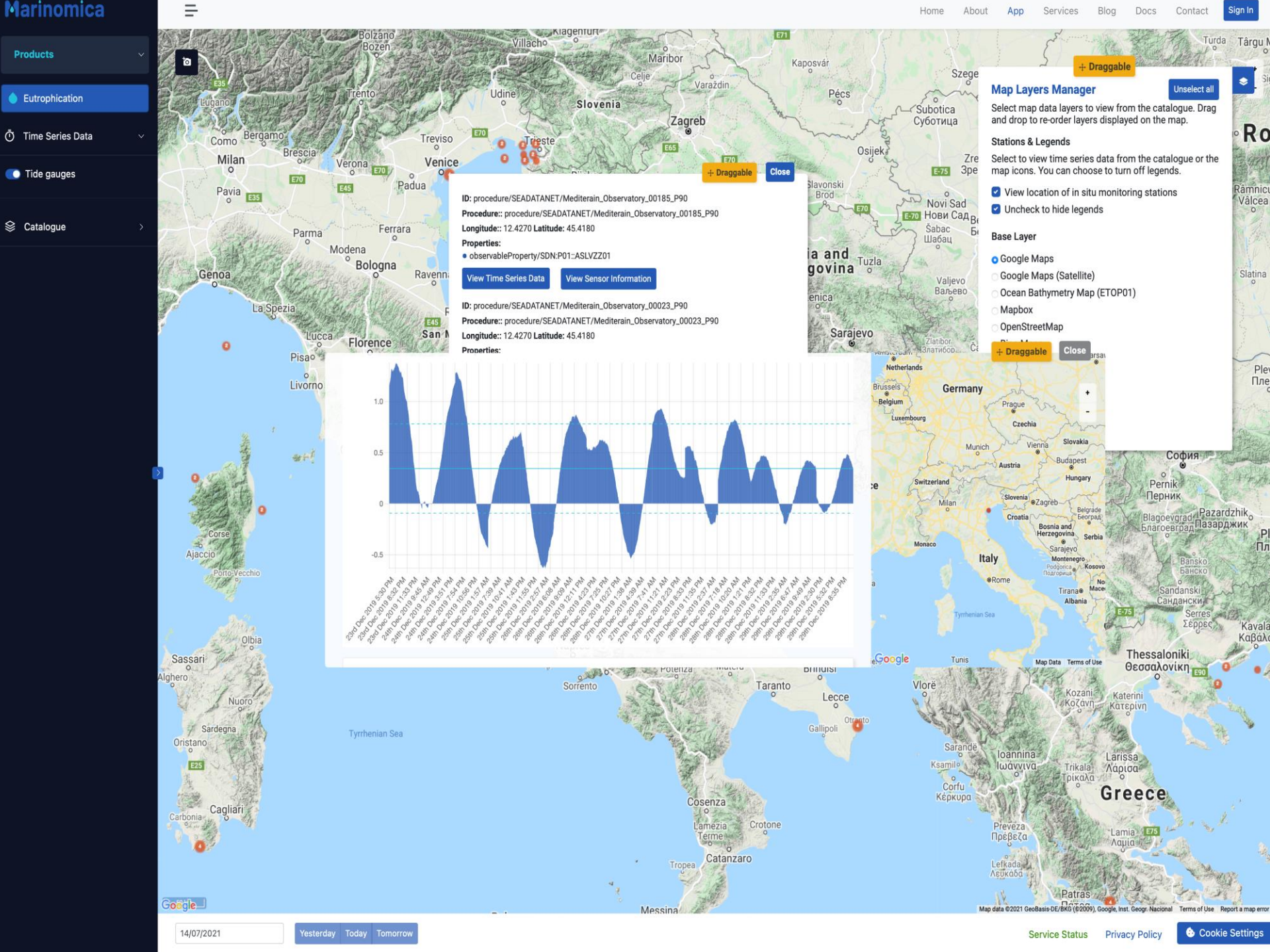
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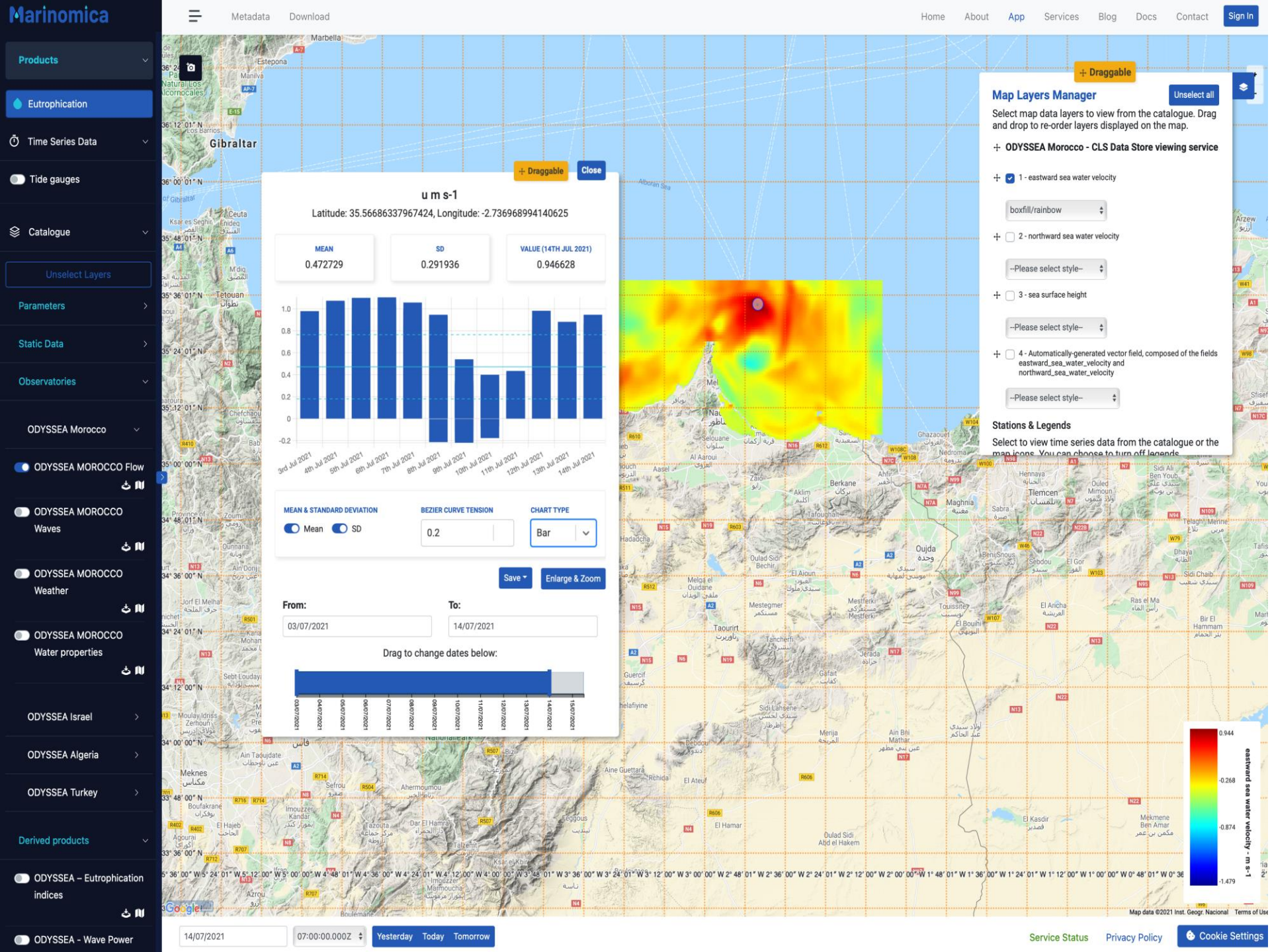
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ODYSSEA Morocco - CLS Data Store viewing service
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2 - northward sea water velocity
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ODYSSEA - Wave Power

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ODYSSEA Morocco

CLS Data Store download serviceDownload with temporal and geospatial extraction (OGC WCS)

Download

Period

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Region

Minimum longitude: -4.962222384723 Maximum longitude: 0.7506682402763

Minimum latitude: 34.118179980834 Maximum latitude: 36.590840764207

Clear Map

Variable

Download	Name	Description	Standard Name	Long Name	Units

Draggable

Map Layers Manager

Unselect all

Select map data layers to view from the catalogue. Drag and drop to re-order layers displayed on the map.

ODYSSEA Morocco - CLS Data Store viewing service

1 - eastward sea water velocity

boxfill/rainbow

2 - northward sea water velocity

--Please select style--

3 - sea surface height

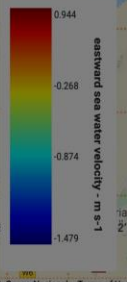
--Please select style--

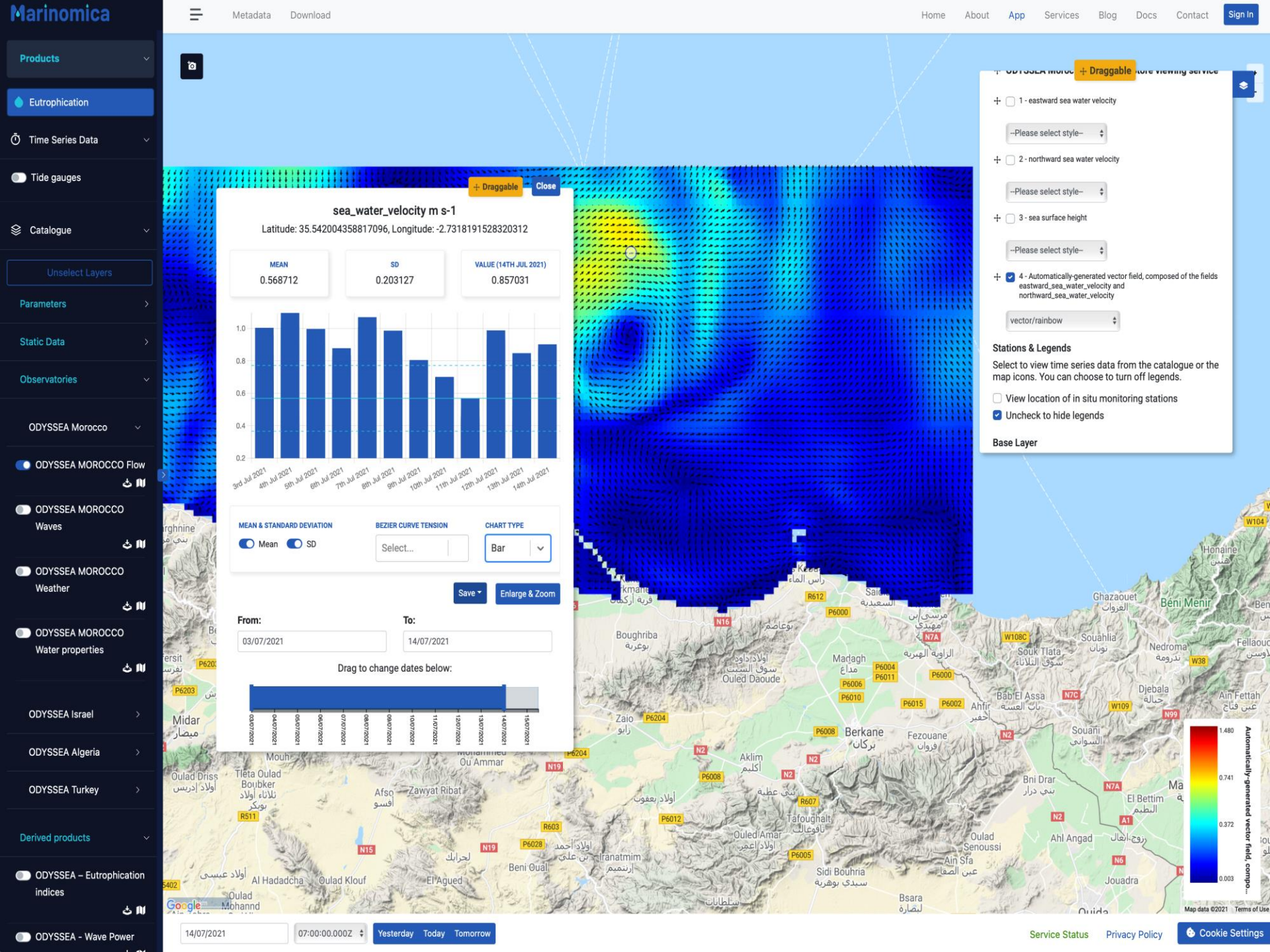
4 - Automatically-generated vector field, composed of the fields eastward_sea_water_velocity and northward_sea_water_velocity

--Please select style--

Stations & Legends

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends

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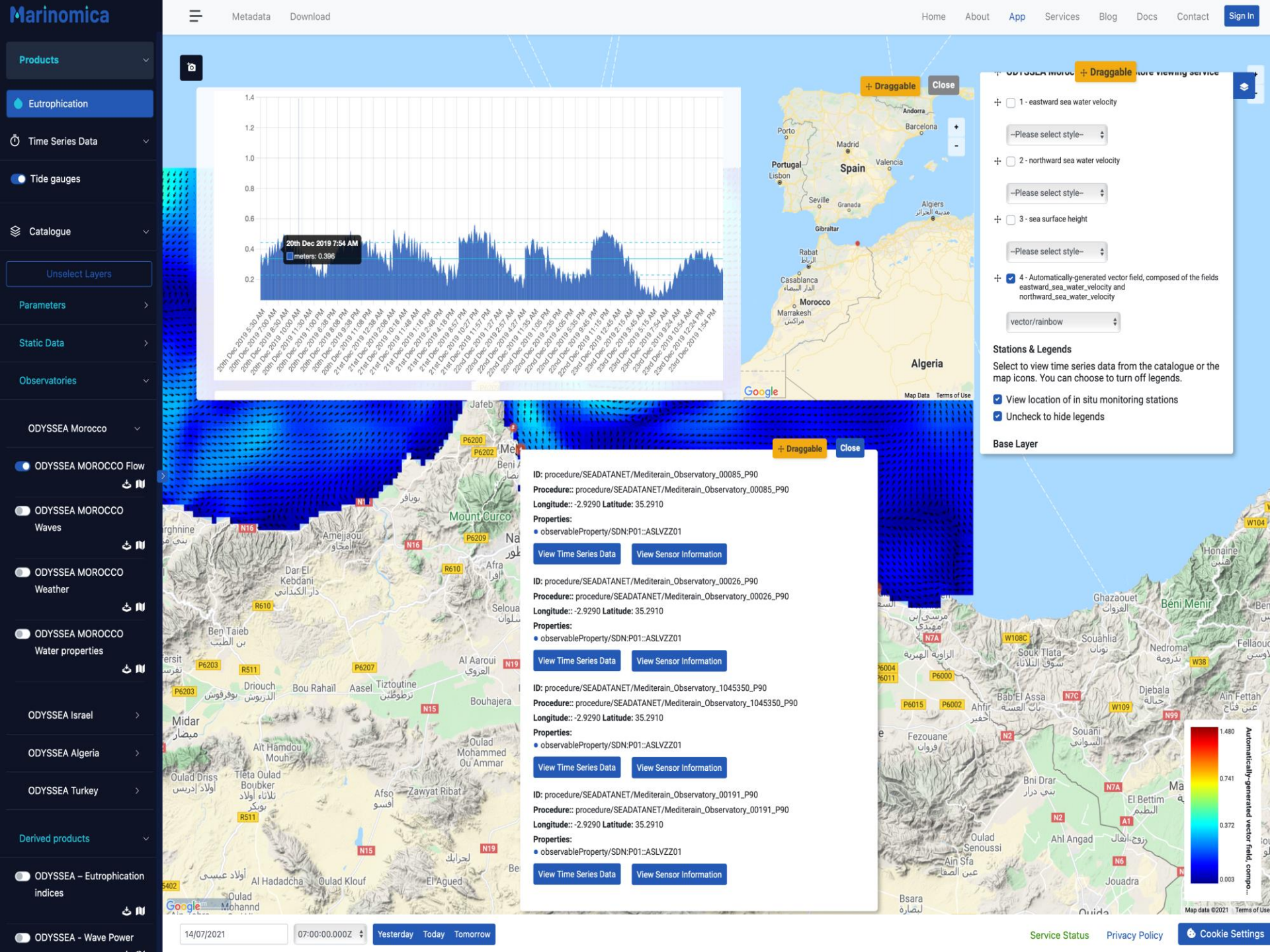
ODYSSEA MOROCCO Flow
ODYSSEA MOROCCO Waves
ODYSSEA MOROCCO Weather
ODYSSEA MOROCCO Water properties
ODYSSEA Israel
ODYSSEA Algeria
ODYSSEA Turkey
Derived products
ODYSSEA – Eutrophication indices
ODYSSEA - Wave Power
Draggable
Close
sea_water_velocity m s-1
Latitude: 35.542004358817096, Longitude: -2.7318191528320312
MEAN
0.568712
SD
0.203127
VALUE (14TH JUL 2021)
0.857031
1.0
0.8
0.6
0.4
0.2
3rd Jul 2021
4th Jul 2021
5th Jul 2021
6th Jul 2021
7th Jul 2021
8th Jul 2021
9th Jul 2021
10th Jul 2021
11th Jul 2021
12th Jul 2021
13th Jul 2021
14th Jul 2021
MEAN & STANDARD DEVIATION
Mean
SD
BEZIER CURVE TENSION
Select...
CHART TYPE
Bar
Save
Enlarge & Zoom
From:
03/07/2021
To:
14/07/2021
Drag to change dates below:
1 - eastward sea water velocity
--Please select style--
2 - northward sea water velocity
--Please select style--
3 - sea surface height
--Please select style--
4 - Automatically-generated vector field, composed of the fields eastward_sea_water_velocity and northward_sea_water_velocity
vector/rainbow
Stations & Legends
Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.
View location of in situ monitoring stations
Uncheck to hide legends
Base Layer
1.480
0.741
0.372
0.003
Automatically-generated vector field, compo...
Map data ©2021
Terms of Use
14/07/2021
07:00:00.000Z
Yesterday
Today
Tomorrow
Service Status
Privacy Policy
Cookie Settings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ODYSSEA MOROCCO Water properties
ODYSSEA Israel
ODYSSEA Algeria
ODYSSEA Turkey
Derived products
ODYSSEA – Eutrophication indices
ODYSSEA - Wave Power
20th Dec 2019 7:54 AM
meters: 0.396
Draggable
Close
1 - eastward sea water velocity
2 - northward sea water velocity
3 - sea surface height
4 - Automatically-generated vector field, composed of the fields eastward_sea_water_velocity and northward_sea_water_velocity
--Please select style--
vector/rainbow
Stations & Legends
Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.
View location of in situ monitoring stations
Uncheck to hide legends
Base Layer
ID: procedure/SEADATANET/Mediterain_Observatory_00085_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00085_P90
Longitude:: -2.9290 Latitude: 35.2910
Properties:
observableProperty/SDN:P01::ASLVZZ01
View Time Series Data
View Sensor Information
ID: procedure/SEADATANET/Mediterain_Observatory_00026_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00026_P90
Longitude:: -2.9290 Latitude: 35.2910
Properties:
observableProperty/SDN:P01::ASLVZZ01
View Time Series Data
View Sensor Information
ID: procedure/SEADATANET/Mediterain_Observatory_1045350_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_1045350_P90
Longitude:: -2.9290 Latitude: 35.2910
Properties:
observableProperty/SDN:P01::ASLVZZ01
View Time Series Data
View Sensor Information
ID: procedure/SEADATANET/Mediterain_Observatory_00191_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00191_P90
Longitude:: -2.9290 Latitude: 35.2910
Properties:
observableProperty/SDN:P01::ASLVZZ01
View Time Series Data
View Sensor Information
Automatically-generated vector field, compo...
1.480
0.741
0.372
0.003
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Tomorrow
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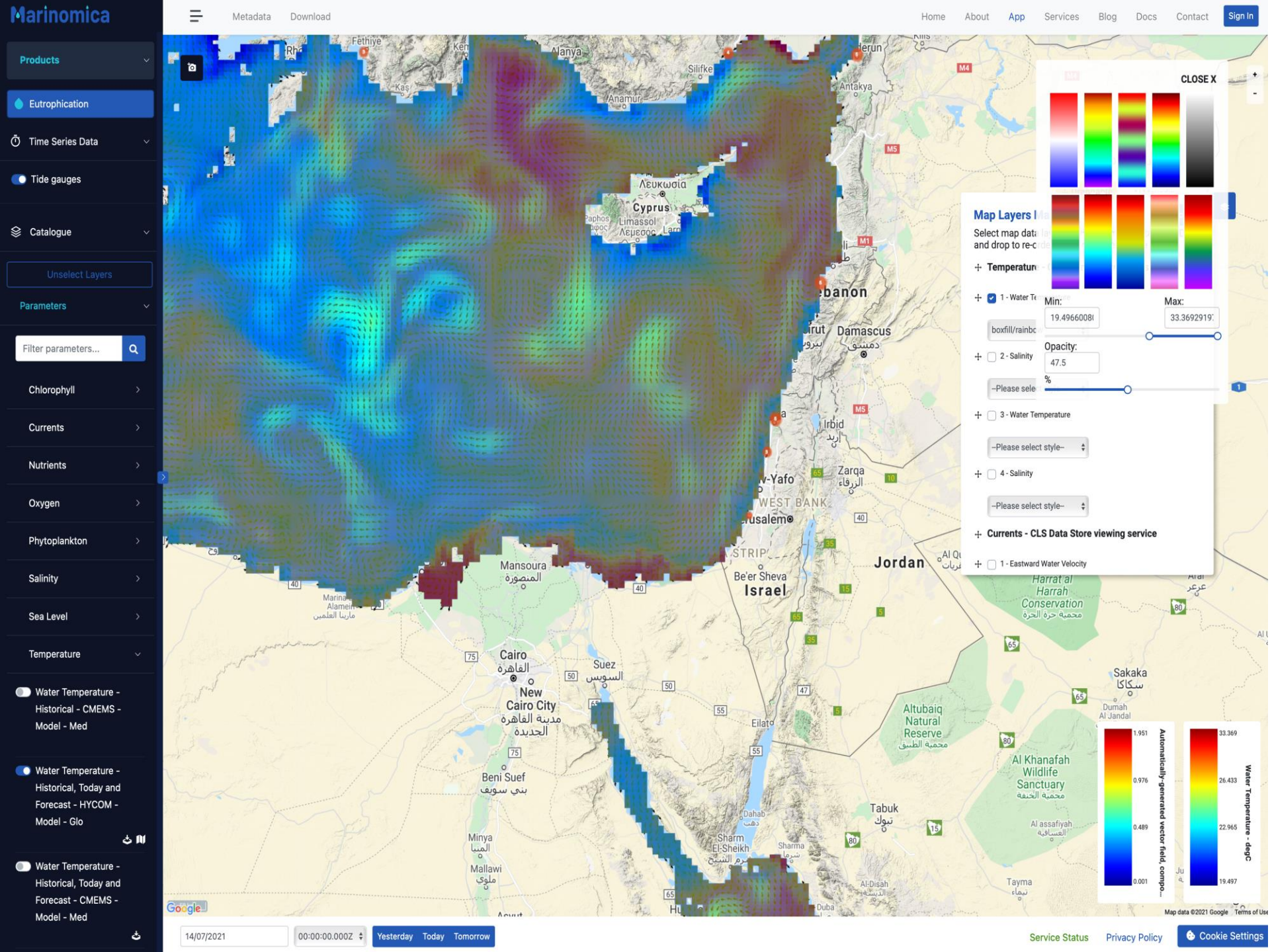
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Chlorophyll
Currents
Nutrients
Oxygen
Phytoplankton
Salinity
Sea Level
Temperature
Water Temperature - Historical - CMEMS - Model - Med
Water Temperature - Historical, Today and Forecast - HYCOM - Model - Glo
Water Temperature - Historical, Today and Forecast - CMEMS - Model - Med
CLOSE X
Map Layers
Select map data
and drop to re-c
Temperature
1 - Water Te
boxfill/rainbc
Min:
19.4966008
Max:
33.3692919
Opacity:
47.5
%
2 - Salinity
--Please sele
3 - Water Temperature
--Please select style--
4 - Salinity
--Please select style--
Currents - CLS Data Store viewing service
1 - Eastward Water Velocity
Cyprus
Λευκωσία
Limassol
Λεμεσός
Paphos
Damascus
دمشق
Irbid
إربد
Zarqa
الزرقاء
WEST BANK
Jordan
Israel
Be'er Sheva
Mansoura
المنصورة
Cairo
القاهرة
New Cairo City
مدينة القاهرة الجديدة
Suez
السويس
Eilat
Sharm El-Sheikh
Tabuk
تبوك
Sakaka
سكاكا
Altubaiq Natural Reserve
محمية الطبيق
Al Khanafah Wildlife Sanctuary
محمية الخنفة
Harrat al Harrah Conservation
محمية حرة الحرة
Beni Suef
بني سويف
Minya
المنيا
Mallawi
ملوي
Tayma
تيماء
Automatically-generated vector field, compo...
1.951
0.976
0.489
0.001
Water Temperature - degC
33.369
26.433
22.965
19.497
Google
Map data ©2021 Google
Terms of Use
14/07/2021
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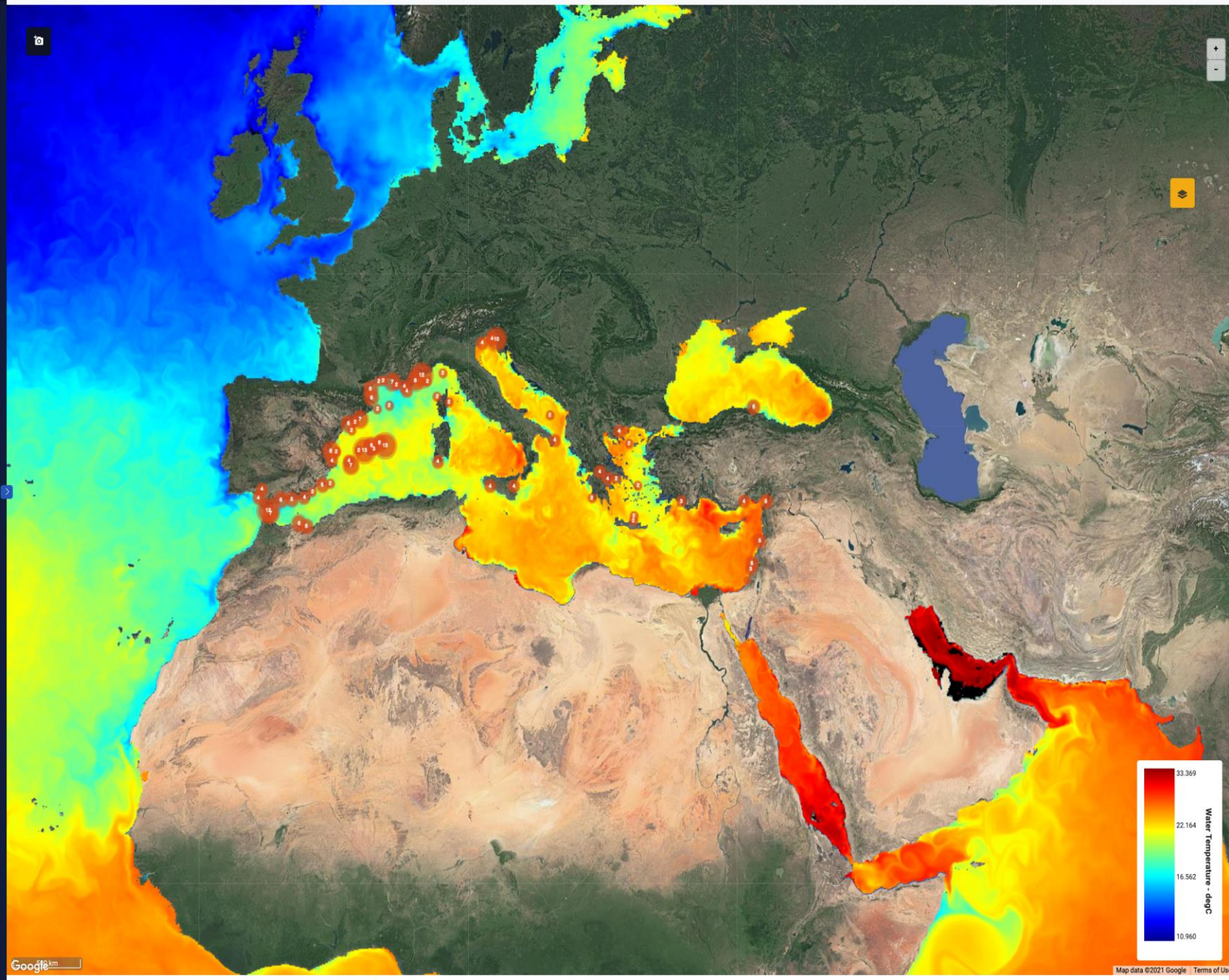

Products

Eutrophication

Time Series Data

Tide gauges

Catalogue

Unselect Layers

Parameters

Filter parameters...

Chlorophyll

Currents

Nutrients

Oxygen

Phytoplankton

Salinity

Sea Level

Temperature

Water Temperature - Historical - CMEMS - Model - Med

Water Temperature - Historical, Today and Forecast - HYCOM - Model - Glo

Water Temperature - Historical, Today and Forecast - CMEMS - Model - Med

14/07/2021

00:00:00.000Z

Yesterday Today Tomorrow

Service Status Privacy Policy Cookie Settings

Where are we now

ODYSSEA

- Beta version live at **marinomica.com**
- Receiving feedback
- Embarking on next evolution of development
- Mobile app in development, combining citizen science data
- Launching early 2021 <- Launched!
- Business establishing to take forward

New features in next evolution (in addition to fixes!)

ODYSSEA

Enhanced dashboard functionality

- New visualisations
- Improved performance and user experience
- Simplified visualisations for specific user types
- Pre-configured dashboards for specific fields of interest (Eutrofication, Wave Power, Jellyfish, Marine litter, Climate etc.)
- Sharing dashboards (inside and outside of the application)

ODYSSEA

New user signup and controls

- Enhanced user signup: Google, Twitter, Facebook
- Profile configuration: Location, areas of interest. Dashboards automatically customised.

ODYSSEA

Alerts

- Set alert conditions: “Wave height > x” for example
- Customisable – WHERE x > y AND a < b
- Alerts sent to multiple users
- Via website, email, SMS, mobile app

ODYSSEA

Advanced processing: The Product Factory

- Choose processing and algorithms to run
- Processes triggered by alerts

New projects

ODYSSEA

EcoScope

The EcoScope project will develop an interoperable platform and a robust decision-making toolbox, available through a single public portal, to promote an efficient, ecosystem-based approach to the management of fisheries.

Digital Twin(s)

To be announced…

Commercialisation

In discussions…

ODYSSEA

Creating products and knowledge for the Mediterranean

bluelobster
www.bluelobster.co.uk

THANK-YOU

Simon Keeble

Blue Lobster IT Limited

simon@bluelobster.co.uk

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