

Timestamp: 44819.6683347106

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Program Office/Division: NESDIS/STAR/SOCD/NOAA CoastWatch

Position Title: research scientist (contractor)

Title of use case: GEO BluePlanet - NOAA CoastWatch - ESRI Coastal Eutrophication Index in support of Sustainable Development Goal 14.1.1

Authors or Creators: Neely, M and Lance, V

Affiliations of Authors or Creators: GST, Inc. (Neely) and NOAA Federal (Lance)

Contributors: Smail, E. and Ramachandran, S

Affiliation of Contributors: GEO BluePlanet (Smail) and RIVA (Ramachandran)

Description: UN Environment requested assistance developing two satellite-based ocean color indicators of coastal eutrophication. This global product covers the EEZs for all coastal nations, enabling reporting toward meeting national benchmarks for SDG 14.1.1.

Keywords: coastal eutrophication, satellite, ocean color, SDG

Start date of use case: 44348

End date of this use case:

Is this use case ongoing? : Yes

Use case URL : <https://chlorophyll-esriocceans.hub.arcgis.com/apps/EsriOceans::sdg-14-1-1a-coastal-eutrophication-reporting/explore>

Data source URL: <https://chlorophyll-esriocceans.hub.arcgis.com/apps/EsriOceans::sdg-14-1-1a-coastal-eutrophication-reporting/explore>

Image: [https://drive.google.com/open?id=1PTFNVg0ZgKEyQ-qY7KcoV40cO0\\_4B3\\_8](https://drive.google.com/open?id=1PTFNVg0ZgKEyQ-qY7KcoV40cO0_4B3_8)

Ocean Region: Global Oceans

Sea:

Large Marine Ecosystem Area:

Country:

Other Geography: Used by any country with a coastline.

Format Type: Narrative description, Report, publications are pending

Data Type: Data Service, GIS Raster, GIS Vector, REST API, Web Service

Primary Use: Research, Education, Resource Management, Weather/Climate, Environmental Management

User Type: Private Individual, Government Professional, Industry Professional, NGO/Non-Profit Professional, Academic

Data Type: Biological, Geospatial

Ocean Observing System (OOS) Variable: Phytoplankton biomass and diversity, Ocean color

Information Type: Remote sense data

Other Format Data:

Published Date:

Publisher Name:

Publisher City:

Publisher State :

Publisher Country:

Publisher/Distributor URL:

Publication URL:

DOI:

Industries which benefit: Aquaculture, Marine Research and Education, Marine Related Professional and Technical Services, National Defense and Public Safety, Living resources (not specified) - check this box and elaborate in "Other" box below, SAV, Coral,

Benefits to ecosystems: Ecosystem Health, Biodiversity

Ecosystem Services: Fisheries (commercial or recreational, Aquaculture

Ecosystem Regulation and Maintenance Services:

Cultural Ecosystem Services: Direct, in-situ and outdoor interactions with living systems that depend on presence in the environmental setting, Spiritual, symbolic and other interactions with natural environment, Other biotic characteristics that have a non-use value

Are benefits documented?: Unknown/Don't Know

Are the benefits documented by:

Are the benefits quantified?: Unknown/Don't Know

Are the quantified benefits reported as monetary values?: Unknown/Don't Know

Other Benefits: Data Service, GIS Raster, GIS Vector, REST API, Web Service