H2020-SPACE-2019
Research and Innovation Action

EO-derived HAB indicator for Melbourne Water's Western Treatment Plant using Sentinel 2

HAB_au-wwtp_EOMAP_yyyyMMdd_hhmmss_SENT2_m0030_32bit.tif

General

Description

The algorithm detects areas likely affected by harmful algae blooms formed by cyanobacteria containing phycocyanin pigments by analyzing spectral trends in the green-red wavelength bands as a proxy. HAB is a qualitative parameter ranging from 0 (no HAB) to 4 (HAB very likely)

Parameters

HAB indicator

Unit

Coordinate reference systems

UTM / WGS84

Data type

GeoTIFF

Keywords

Remote_Sensing, Sentinel 2

Public repository link

https://zenodo.org/record/6673474

Contact

EOMAP

Dataset coverage

Spatial coverage

Spatial resolution

10 m

Temporal coverage

10 days2015 - 2019

Temporal resolution

10 days

Usage

License conditions

CC-BY-NC-SA-4.0

Citations and Acknowledgements

contains Copernicus data (2020/2021)

Scientific Citations

Lineage statement

Original data source

ESA

Limitations on public access

Available and public data

PrimeWater

EMVIS S.A. | National Research Council of Italy | Swedish Meteorological and Hydrological Institute | EOMAP GmbH & Co.KG | International Water Association | Burgundy School of Business | Ente Acque della Sardegna | US Environmental Protection Agency | Commonwealth Scientific and Industrial Research Organization | Melbourne Water | SatDek

European Commission