

# Chlorophyll-a in the Chesapeake Bay Estimated by Extra-Trees Machine Learning Modeling

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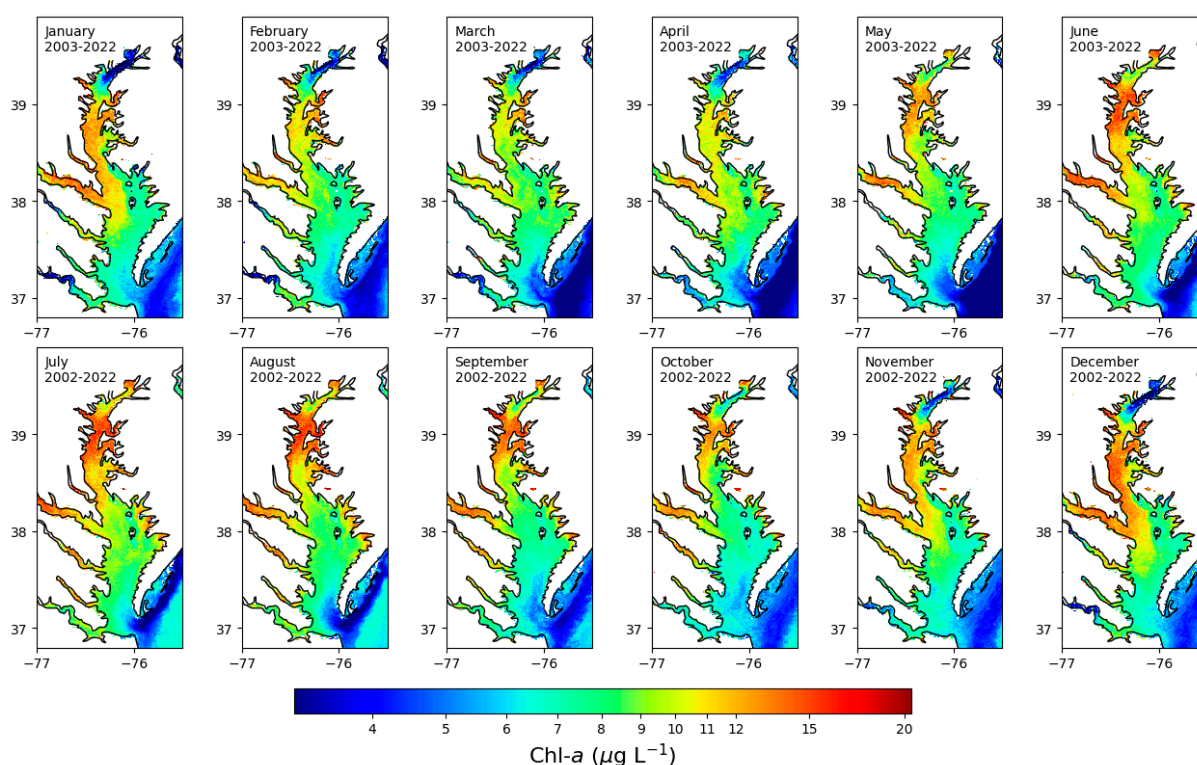
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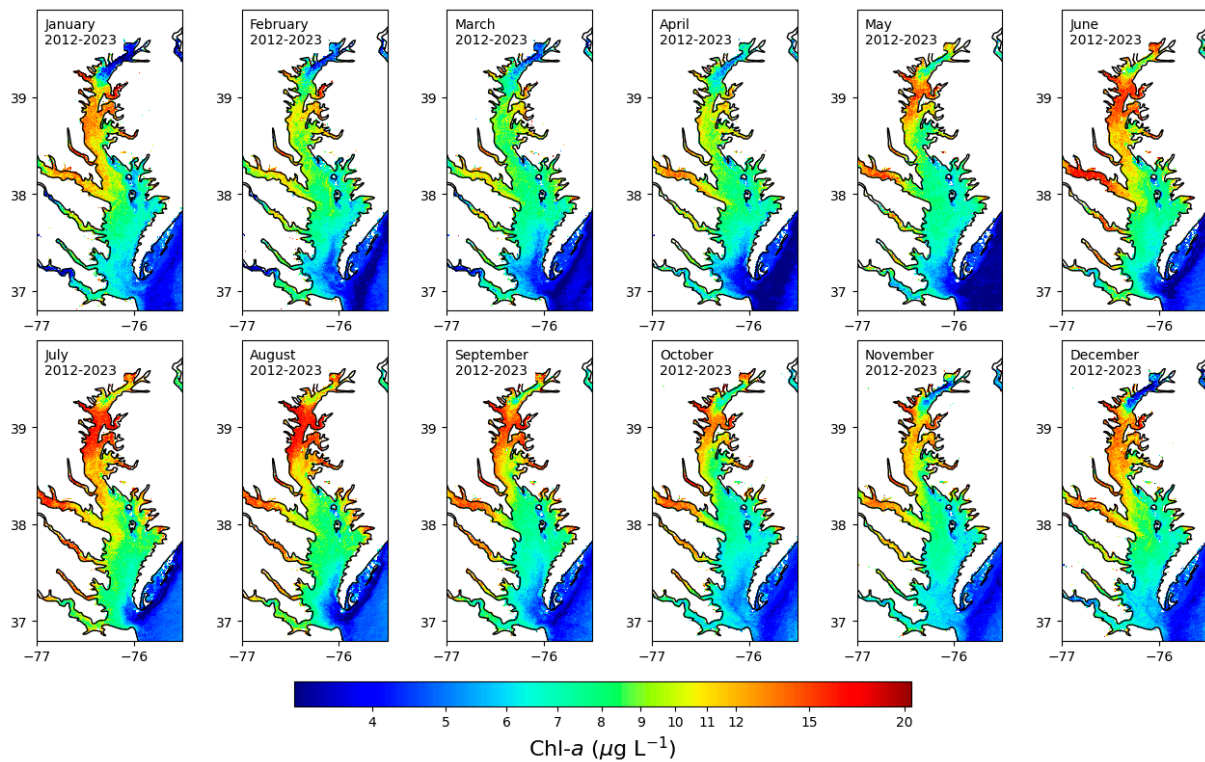
## Supplemental materials

### Supplemental figure S1



**Figure S1.** Monthly climatologies of Chl-a concentrations that show the spatial distributions of Chl-a typical for each month averaged over the entire period of satellite observations in the Chesapeake Bay predicted using Extra-Trees machine learning model from remote sensing reflectances ( $R_{rs}$ ) measured by MODIS-Aqua satellite.

## Supplemental figure S2



**Figure S2.** Monthly climatologies of *Chl-a* concentrations in the Chesapeake Bay predicted using Extra-Trees machine learning model from remote sensing reflectances ( $R_{rs}$ ) measured by VIIRS-SNPP satellite.