

## **SATELLITE ESTIMATES OF MARINE NET COMMUNITY PRODUCTION IN THE SOUTH ATLANTIC OLIGOTROPHIC GYRE FROM SENTINEL-3**

The project has the following objectives: 1. The purpose of this work will be firstly to evaluate the accuracy of Level 2 Reflectance & Chlorophyll-a (Chla) Products from S-3 Ocean and Land Colour Instrument using in situ data collected in the South Atlantic Ocean on the Atlantic Meridional Transect and along the Brazilian coast by National Institute for Space Research, Brazil (INPE), University of Sao Paulo (USP) and State University of Sao Paulo (UNESP). 2. Using the most accurate S-3 Chla product to derive primary production (PP), a preliminary assessment of algorithms to predict Net Community Production (NCP) along the Brazilian coast and in the South Atlantic Gyre will then be conducted. INPE/USP/UNESP have tested different ocean colour PP model which we will be compared those developed at PML. 3. The NCP algorithm will be applied to S-3 data to make a preliminary assessment of the role of the South Atlantic Gyre as a CO<sub>2</sub> sink or source, to or from the atmosphere.

### PRINCIPAL INVESTIGATORS

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### ABOUT THE PROJECT

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