

Sub group	S3VT-OC
Validation Project Title	Ocean colour validation on subtropical North East Atlantic
Link to full Proposal	http://co.fc.ul.pt/pt/investigacao/projectos
Team Leader name, address and email	Prof. Vanda Brotas Centre of Oceanography, Faculty of Sciences of the University of Lisbon , 1749-016 Lisbon, Portugal vbrotas@fc.ul.pt
Support team-members names and emails	Prof. Ana Martins - anamartins@uac.pt Dr. Igor Bashmachnikov- igorb@fc.ul.pt Dr. Ana Brito - acbrito@fc.ul.pt Dr Carolina Sá - cgsa@fc.ul.pt Dr. Filipe Neves - fneves@fc.ul.pt Dimitri Boutov - dboutov@fc.ul.pt
Summary of activity	<ul style="list-style-type: none"> • Sampling and analysis of in situ data for validation purposes (in-situ data will include CTD with fluorescence measurements, phytoplankton pigments through HPLC, microscope identification of phytoplankton species, in-vivo particulate absorption coefficient, analysis of suspended matter, coloured dissolved matter absorption, diffuse attenuation coefficient and photosynthetic active radiation) • Matchup analysis with Level 2 data. • Use of Level 1 to test different atmospheric correction procedures. • Participation in workshops and round robins for methodology inter-comparisons. • Reporting on protocols, technical notes, results, and data, following data policy • Provide and share future data with S3VT according to data policy to be established. • Coordinate efforts with the other Portuguese teams, joint efforts to get national funding. Set up an Iberian network of Laboratories with expertise in Ocean Colour Remote Sensing and in situ data in order to apply for international funding.
Expected results for S3	<p>1 – Validation of Ocean Colour products with in situ data in our Region of Interest (ROI)</p> <p>2 - Development and implementation of bio-optical algorithms to obtain phytoplankton community composition and phytoplankton abundances for our ROI.</p> <p>3 - Inter-comparison of Sentinel-3 products with RS products from other sources</p> <p>4 – Establishment of common protocols for in situ parameters with the other teams.</p> <p>5 - Development of tools to evaluate the environmental quality of case I and II waters in North East Atlantic under the <u>Marine Strategy Framework Directive</u>, and to help monitoring HABs events.</p>

Reference to S3 Cal/Val plan tasks	<ul style="list-style-type: none"> Cal/Val activities will be conducted in several areas: upwelling, oligotrophic, mesotrophic and estuarine. 		
Data requirements, data coverage and timeline	Sentinel-3 Product Names 1 - Water-leaving Reflectances 2 - Chlorophyll a 3 - Total Suspended Matter 4 - Diffuse Attenuation Coefficient 5 - Coloured Dissolved Matter Absorption 6 - Photosynthetically Active Radiation 7 -Additional parameters: Sea Surface Temperature (SST), Sea Level Anomalies (SLA)	Data Coverage 30 to 46° N; 5 to 32° W	Specific Timeline of Validations Since the start of the mission, including E1 phase.
In situ validation data to be collected	Data collected along the Portuguese Iberian Coast and off Azores, sampling program and effort dependent on future funding Data collected monthly inside the Tagus estuary (already funded)		
Special data needs	Need for special satellite acquisitions: No		Requested data timeliness: No special request, except during future organized campaigns

Status assessment						
	Pre-launch	Commissioning Phase	Year 1	Year 2	Year 3 to year 7.5	Beyond nominal life
Schedule of proposed activities						
Availability of funding						
Availability of infrastructure						
Availability of people						

Colours represent the level of the status assessment:

LOW RISK
MED RISK
HIGH RISK
CRIT RISK