



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Gianluca Volpe**  
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Nationality Italian  
Date of birth  
Gender Male

### Education and training

|                                                                |                                                                                                                              |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Dates                                                          | 2010                                                                                                                         |
| Title of qualification awarded                                 | PhD in Satellite Oceanography                                                                                                |
| Principal subjects/occupational skills covered                 | Thesis title: A satellite view of the space-time variability of phytoplankton biomass in the Mediterranean Sea               |
| Name and type of organisation providing education and training | University of Southampton – National Oceanography Centre, Southampton                                                        |
| Dates                                                          | 2002                                                                                                                         |
| Title of qualification awarded                                 | International Summer School on Atmospheric and Oceanic Sciences: Remote Sensing of the Earth's Environment from TERRA        |
| Principal subjects/occupational skills covered                 | Remote sensing of the earth's environment from MODIS-Terra                                                                   |
| Name and type of organisation providing education and training | University of l'Aquila, Italy                                                                                                |
| Dates                                                          | 2001                                                                                                                         |
| Title of qualification awarded                                 | University degree (5 years)                                                                                                  |
| Principal subjects/occupational skills covered                 | Thesis title: Remote sensing of the Saharan dust load over the Mediterranean Sea and its impact on the phytoplankton biomass |
| Name and type of organisation providing education and training | Università degli Studi di Napoli "Parthenope" – Napoli – Italy                                                               |

### Work experience

|                              |                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dates                        | 2023 to present                                                                                                                                                |
| Occupation or position held  | Senior Research scientist (permanent position)                                                                                                                 |
| Name and address of employer | Satellite Oceanography Group within the Institute of Marine Sciences – Italian National Research Council, Via del Fosso del Cavaliere, 100, 00133, Rome, Italy |
| Type of business or sector   | Oceanographic Research                                                                                                                                         |
| Dates                        | 2013 to 2022                                                                                                                                                   |
| Occupation or position held  | Research scientist (permanent position)                                                                                                                        |

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|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name and address of employer | Satellite Oceanography Group within the Institute of Marine Sciences – Italian National Research Council, Via del Fosso del Cavaliere, 100, 00133, Rome, Italy |
| Type of business or sector   | Oceanographic Research                                                                                                                                         |
| Dates                        | 2008 to 2013                                                                                                                                                   |
| Occupation or position held  | Research scientist                                                                                                                                             |
| Name and address of employer | Satellite Oceanography Group within the Institute of Marine Sciences – Italian National Research Council, Via del Fosso del Cavaliere, 100, 00133, Rome, Italy |
| Type of business or sector   | Oceanographic Research                                                                                                                                         |
| Dates                        | 2002 to 2008                                                                                                                                                   |
| Occupation or position held  | Research Fellowship                                                                                                                                            |
| Name and address of employer | Satellite Oceanography Group within the Institute of Marine Sciences – Italian National Research Council, Via del Fosso del Cavaliere, 100, 00133, Rome, Italy |
| Type of business or sector   | Oceanographic Research                                                                                                                                         |

#### **Scientific interests**

My scientific interests are in the field of biological oceanography, a discipline that interconnect ocean-atmosphere dynamics and chemistry with the ecology of phytoplankton. Since my laurea degree I have been collecting in situ data and using ocean colour observations to understand the processes that most contribute to phytoplankton variability at various space and time scales, from daily to interannual from local to global scale.

Large scale variability involves the ability to handle large volumes of data via parallel processing and advanced statistical tool for their analysis.

Quantification of data uncertainty and accuracy has been an essential and continuous element of my work through comparison between in situ and remote sensing observations.

Throughout my career I have been interested in the following topics most of which translated into operational ocean colour products distributed through Copernicus services:

- Automation of the underway measurements of inherent optical properties during field campaigns.
- Bio-optical characteristics of seawater in relation to ocean colour remote sensing and development of chlorophyll algorithms for various sensors.
- Ocean Colour single and multi-sensor data processing
- Ocean Colour data interpolation
- Phytoplankton Space-time variability in relation to different physical forcing (SST, sea level), using advanced statistical tools as principal component analysis, multivariate analysis and coupled analysis of satellite data, model outputs, in situ data.
- Quantification of the transport and deposition of Saharan dust over the Mediterranean Sea using remote sensing data, and their impact on the phytoplankton community of the basin.
- Contribution to the logistical and scientific organization of several oceanographic cruises during which standard (CTD, water sampling for Lab measurements) and optical (radiometry, inherent optical properties) measurements were planned, led and carried out either continuously or in cast mode.

## Main activities and responsibilities

Activities that I led or contributed to in the context of several national and international projects over the past 18 years.

- Automation of the underway measurements of inherent optical properties during field campaigns.
- Participation to over 15 field cruises for algorithm development and product validation of ocean colour observations through the acquisition of in situ bio-optical measurements: radiometry and IOPs
- Development and its operational implementation of the Mediterranean Sea algorithm for chlorophyll retrieval in case I water
- Development and its operational implementation of the multi-sensor merging algorithm, within CMEMS
- DINEOF-based algorithm development for the interpolation of ocean colour data over the Mediterranean and Black sea, and its operational implementation within CMEMS
- Setup, reporting and operational management of the ocean colour data processing chain within CMEMS; including periodic versioning and updates over the near-real time chain and the reprocessing of the full data time series, involving several sensors (SeaWiFS, MODIS-AQUA, MERIS, both VIIRS and both OLCI); a continuous effort is continuously made for keeping the satellite products as state-of-the-art within the operational chain.
- Product Quality Manager of the Ocean Colour Thematic Assembly Centre involving the development and operational implementation of ocean colour data quality indices, the annual data and method review against in situ observations
- Design, implementation and setup of the ship-based underway system for acquisition of high quality IOP measurements
- Design and implementation and set-up of the radiometry instrument package and radiometry data analysis at Lampedusa Buoy
- Investigation of the abiotic and biotic environmental controls of ocean colour variability from 1 km and daily scales to basin and interannual scales.
- Attendance of international congresses and project meetings

Projects in which I have or had a significant role:

| Acronym       | Period         | Project                                                                                                                               | Role                                                                                                                                                                                                        |
|---------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ESA-RACE-SOON | 2020 – ongoing | European Space Agency - Rapid Action Covid-19 EO - Satellite Observations for inland and coastal water quality during COVID lock-down | WP leader                                                                                                                                                                                                   |
| AtlantECO     | 2020 – ongoing | Atlantic Ecosystems Assessment, Forecasting & Sustainability                                                                          | Task leader                                                                                                                                                                                                 |
| C3S           | 2019 – ongoing | Copernicus Climate Change Service                                                                                                     | Task leader                                                                                                                                                                                                 |
| ESA-OC-CCI+   | 2019-2021      | European Space Agency Ocean Colour Climate Change Initiative Phase 2                                                                  | WP leader                                                                                                                                                                                                   |
| OCTAC         | 2015-2021      | CMEMS – Copernicus Marine Environment Monitoring Service – Ocean Colour Thematic Assembly Centre                                      | <ul style="list-style-type: none"> <li>○ WP leader</li> <li>○ Product Manager</li> <li>○ Product Quality Leader</li> <li>○ Scientific Expert</li> <li>○ Biogeochemical Data Assimilation experts</li> </ul> |
| MyOceanFO     | 2014-2015      | MyOcean Follow On - European Commission Horizon 2020 Framework Programme Grant Agreement- call EU H2020-                              | <ul style="list-style-type: none"> <li>○ WP leader</li> <li>○ Product Manager</li> <li>○ Product Quality Manager</li> <li>○ Scientific expert</li> </ul>                                                    |

|             |           |                                                                                                                                   |                                                                                                                                                          |
|-------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |           | Adhoc-2014-20. Grant agreement: 633085                                                                                            |                                                                                                                                                          |
| MyOcean2    | 2012-2014 | Prototype Operational Continuity for GMES Ocean Monitoring and Forecasting Service. Grant Agreement nr. 28336                     | <ul style="list-style-type: none"> <li>○ WP leader</li> <li>○ Product Manager</li> <li>○ Product Quality Manager</li> <li>○ Scientific expert</li> </ul> |
| MyOcean     | 2009-2012 | Development and pre-operational validation of GMES Marine Core Services. EU FP7-SPACE-2007-1. Grant Agreement nr. 218812.         | <ul style="list-style-type: none"> <li>○ WP leader</li> <li>○ Product Manager</li> <li>○ Product Quality Manager</li> <li>○ Scientific expert</li> </ul> |
| SeaDataNet  | 2006-2011 | Pan-European infrastructure for Ocean & Marine Data Management. EU FP6 Research infrastructure RII3. Grant Agreement nr. 026212   | Task leader                                                                                                                                              |
| SESAME      | 2006-2010 | Southern European Seas: Assessing and Modelling ecosystem changes. EU integrated project                                          | Task leader                                                                                                                                              |
| ECOOP       | 2007-2010 | European Coastal Operational Oceanography Project. EU FP6 Priority 1.1.6.3. Grant Agreement nr. 036355-2                          | Task leader                                                                                                                                              |
| ADRICOS-EXT | 2005-2006 | ADRIatic sea integrated COastal areaS and river basin Management system pilot project - EXTension UNESCO. Grant agreement: 303813 | Task leader                                                                                                                                              |
| MERSEA      | 2004-2007 | Marine EnviRonment and Security for the European Area. EU integrated project                                                      | WP leader                                                                                                                                                |
| PRIMI       | 2008-2010 | Progetto pilota Inquinamento Marino da Idrocarburi Agenzia Spaziale Italiana                                                      | Task leader                                                                                                                                              |
| ADIOS       | 2001-2003 | Atmospheric deposition and impact of pollutants, key elements and nutrients on the open Mediterranean Sea – EU FP7 fundings       | WP leader                                                                                                                                                |
| ADRICOSM    | 2001-2003 | ADRIatic sea integrated COastal areaS and river basin Management, Ministero dell'Ambiente                                         | Task leader                                                                                                                                              |

Rome, February 21, 2025

Volpe Gianluca

## List of peer reviewed publications

Teruzzi, A; Aydogdu, A; Amadio, C; Clementi, E; Colella, S; Di Biagio, V; Drudi, M; Fanelli, C; Feudale, L; Grandi, A; Miraglio, P; Pisano, A; Pistoia, J; Reale, M; Salon, S; Volpe, G; Cossarini G. Anomalous 2022 deep-water formation and intense phytoplankton bloom in the Cretan area. State of the Planet. 2024

Marchese, C; Colella, S; Brando, VE; Zoffoli, ML; Volpe, G. Towards accurate L4 ocean colour products: Interpolating remote sensing reflectance via DINEOF. International Journal of Applied Earth Observation and Geoinformation, 135, 104270. 2024. Elsevier

Brando, VE; Santoleri, R; Colella, S; Volpe, G; Di Cicco, A; Sammartino, M; González Vilas, L; Lapucci, C; Böhm, E; Zoffoli, ML. Overview of Operational Global and Regional Ocean Colour Essential Ocean Variables Within the Copernicus Marine Service. Remote Sensing, 16, 23, 4588, 2024. MDPI

Torri M, Russo S, Falcini F, De Luca B, Colella S, Volpe G, Corrado R, Placenti F, Giaramita L, Musco M, Masullo T, Bennici C, Di Natale M V, Patti B, Lacorata G, Arculeo M, Cuttitta A. 2023. Coupling Lagrangian simulation models and remote sensing to explore the environmental effect on larval growth rate: The Mediterranean case study of round sardinella (*Sardinella aurita*) early life stages. Frontiers in Marine Science, 9. DOI=10.3389/fmars.2022.1065514

Braga, F., Ciani, D., Colella, S., Organelli, E., Pitarch, J., Brando, V.E., Bresciani, M., Concha, J.A., Giardino, C., Scarpa, G., Volpe, G. Rio M.-H., Falcini, F. COVID-19 lockdown effects on a coastal marine environment: Disentangling perception versus reality. Science of The Total Environment, 817. 153002. 2022. Elsevier

Yang C., Cagnazzo C., Artale V., Buongiorno B., Buontempo C., Busatto J., Caporaso L., Cesarini C., Cionni I., Coll J., Crezee B., Cristofanelli P., de V., Hesham Y., Eyring V., Fierli F., Grant L., Hassler B., Hirschi M., Huybrechts P., Le E., Elisa F., Lin X., Madonna F., Mason E., Massonnet F., Marcos M., Marullo S., Müller B., Obregon A., Organelli E., Palacz A., Pascual A., Pisano A., Putero D., Rana A., Sánchez-Román A., Seneviratne I.S., Serva F., Storto A., Thiery W., Throne P., Van L., Verhaegen Y., Volpe G., Santoleri R. Independent Quality Assessment of Essential Climate Variables: Lessons learnt from the Copernicus Climate Change Service. Bulletin of the American Meteorological Society. 2022

Rio, M-H; Lorenzoni, L; Murakami, H; Falcini, F; Colella, S; Volpe, G; Brando, V; Braga, F; Concha, J; Scarpa, G. Trilateral Water Quality Monitoring from Space during Covid-19. 2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS, 1563-1566, 2021. IEEE

Volpe, G; Dionisi, D; Brando, VE; Colella, S; Pitarch, Jaime; Ciampichetti, S; Ferrara, N; Liberti, GL; Single dual mode (continuous and cast) instrumentation package for inherent optical property measurements: Characterization of the bucket for backscattering observation. Limnology and Oceanography: Methods, 19, 8, 510-522, 2021, John Wiley & Sons, Inc. Hoboken, USA

Bellacicco, Marco; Pitarch, Jaime; Organelli, Emanuele; Martinez-Vicente, Victor; Volpe, Gianluca; Marullo, Salvatore; Improving the retrieval of carbon-based phytoplankton biomass from Satellite Ocean Colour Observations. Remote Sensing 12, 21, 3640, 2020, MDPI

Bracaglia, M., Santoleri, R., Volpe, G., Colella, S., Benincasa, M., Brando, V.E. A virtual geostationary ocean color sensor to analyze the coastal optical variability. Remote Sensing, 2020, 12, 10.

Liberti, G.L., D'Alimonte, D., di Sarra, A., Mazeran, C., Voss, K., Yarbrough, M., Bozzano, R., Cavaleri, L., Colella, S., Cesarini, C., Kajiyama, T., Meloni, D., Pomaro, A., Volpe, G., Yang, C., Zagolski, F., Santoleri, R. European radiometry buoy and infrastructure (EURYBIA): A contribution to the design of the European copernicus infrastructure for ocean colour system vicarious calibration. Remote Sensing, 2020, 12, 7.

Pitarch, J., Bellacicco, M., Organelli, E., Volpe, G., Colella, S., Vellucci, V., Marullo, S. Retrieval of particulate backscattering using field and satellite radiometry: Assessment of the QAA algorithm. Remote Sensing, 2020, 12, 1.

Dionisi, D., Brando, V.E., Volpe, G., Colella, S., Santoleri, R. Seasonal distributions of ocean particulate optical properties from spaceborne lidar measurements in Mediterranean and Black sea. Remote Sensing of Environment, 2020, 247.

IOCCG (2019). Uncertainties in Ocean Colour Remote Sensing. Mélin F. (ed.), IOCCG Report Series, No. 18, International Ocean Colour Coordinating Group, Dartmouth, Canada.

Le Traon, P.Y., Reppucci, A., Fanjul, E.A., Aouf, L., Behrens, A., Belmonte, M., Bentamy, A., Bertino, L., Brando, V.E., Kreiner, M.B., Benkiran, M., Carval, T., Ciliberti, S.A., Claustre, H., Clementi, E., Coppini, G., Cossarini, G., De Alfonso Alonso-Muñoyerro, M., Delamarche, A., Dibarboure, G., Dinessen, F., Drevillon, M., Drillet, Y., Faugere, Y., Fernandez, V., Fleming, A., Garcia-Hermosa, M.I., Sotillo, M.G., Garric, G., Gasparin, F., Giordan, C., Gehlen, M., Gregoire, M.L., Guinehut, S., Hamon, M., Harris, C., Hernandez, F., Hinkler, J.B., Hoyer, J., Karvonen, J., Kay, S., King, R., Laverigne, T., Lemieux-Dudon, B., Lima, L., Mao, C., Martin, M.J., Masina, S., Melet, A., Nardelli, B.B., Nolan, G., Pascual, A., Pistoia, J., Palazov, A., Piolle, J.F., Pujol, M.I., Pequignot, A.C., Peneva, E., Gomez, B.P., de la Villeon, L.P., Pinardi, N., Pisano, A., Pouliquen, S., Reid, R., Remy, E., Santoleri, R., Siddorn, J., She, J., Staneva, J., Stoffelen,

A., Tonani, M., Vandenbulcke, L., von Schuckmann, K., Volpe, G., Wettre, C., Zacharioudaki, A. From observation to information and users: The Copernicus Marine Service Perspective. *Frontiers in Marine Science*, 2019, 6, May.

Bellacicco, M., Cornec, M., Organelli, E., Brewin, R.J.W., Neukermans, G., Volpe, G., Barbieux, M., Poteau, A., Schmechtig, C., D'Ortenzio, F., Marullo, S., Claustre, H., Pitarch, J. Global Variability of Optical Backscattering by Non-algal particles From a Biogeochemical-Argo Data Set. *Geophysical Research Letters*, 2019, 46, 16, 9767-9776.

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Bracaglia, M., Volpe, G., Colella, S., Santoleri, R., Braga, F., Brando, V.E. Using overlapping VIIRS scenes to observe short term variations in particulate matter in the coastal environment. *Remote Sensing of Environment*, 2019, 233.

Volpe, G., Nardelli, B. B., Colella, S., Pisano, A., Santoleri, R. (2018). Operational Interpolated Ocean Colour Product in the Mediterranean Sea. In *New Frontiers in Operational Oceanography*, E. Chassignet, A. Pascual, J. Tintoré, and J. Verron, Eds., GODAE OceanView, 227-244.

Bellacicco, M., Volpe, G., Briggs, N., Brando, V., Pitarch, J., Landolfi, A., Colella, S., Marullo, S., Santoleri, R. Global Distribution of Non-algal Particles From Ocean Color Data and Implications for Phytoplankton Biomass Detection. *Geophysical Research Letters*, 2018, 45, 15, 7672-7682.

Le Traon, P.Y., A. Ali, E. Alvarez Fanjul, L. Aouf, L. Axell, R. Aznar, M. Ballarotta, A. Behrens, M. Benkiran, A. Bentamy, L. Bertino, P. Bowyer, V. Brando, L. A. Breivik, B. Buongiorno Nardelli, S. Cailleau, S. A. Ciliberti, E. Clementi, S. Colella, N. Mc Connell, G. Coppini, G. Cossarini, T. Dabrowski, M. de Alfonso Alonso- Muñozerro, E. O'Dea, C. Desportes, F. Dinessen, M. Drevillon, Y. Drillet, M. Drudi, R. Dussurget, Y. Faugère, V. Forneris, C. Fratianni, O. Le Galloudec, I. Garcia Hermosa, M. García Sotillo, P. Garnesson, G. Garric, I. Golbeck, J. Gouillon, M. L. Grégoire, S. Guinehut, E. Gutknecht, C. Harris, F. Hernandez, V. Huess, J.A. Johannessen, S. Kay, R. Killick, R. King, J. de Kloe, G. Korres, P. Lagema, R. Lecci, J.F. Legeais, J. M. Lellouche, B. Levier, P. Lorente, A. Mangin, M. Martin, A. Melet, J. Murawski, E. Özsoy, A. Palazov, S. Pardo, L. Parent, A. Pascual, J. Paul, E. Peneva, C. Perruche, D. Peterson, L. Petit de la Villeon, N. Pinardi, S. Pouliquen, M. I. Pujol, R. Rainaud, P. Rampal, G. Refray, C. Regnier, A. Reppucci, A. Ryan, S. Salon, A. Samuelsen, R. Santoleri, A. Saulter, J. She, C. Solidoro, E. Stanev, J. Staneva, A. Stoffelen, A. Storto, P. Sykes, T. Szekely, G. Taburet, B. Taylor, J. Tintore, C. Toledano, M. Tonani, L. Tuomi, G. Volpe, H. Wedhe, T. Williams, L. Vandendbulcke, D. van Zanten, K. von Schuckmann, J. Xie, A. Zacharioudaki, H. Zuo. The Copernicus Marine Environmental Monitoring Service: Main Scientific Achievements and Future Prospects. *Mercator Ocean Journal*, 2017. 56

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Pitarch, J., Bellacicco, M., Volpe, G., Colella, S., Santoleri, R. Use of the quasi-analytical algorithm to retrieve backscattering from in-situ data in the Mediterranean Sea. *Remote Sensing Letters*, 2016, 7, 6, 591-600.

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Volpe, G., Colella, S., Forneris, V., Tronconi, C., Santoleri, R. The Mediterranean Ocean Colour Observing System: System development and product validation. *Ocean Science*, 2012, 8, 5, 869-883.

Nirchio, F., Pandiscia, G., Ruggieri, G., Santoleri, R., Pinardi, N., Trivero, P., Castellani, C., Tataranni, F., Masini, A., Adamo, M., Archetti, R., Biamino, W., Bignami, F., Böhm, E., Borasi, M., Buongiorno Nardelli, B., Cavagnero, M., Colao, F., Colella, S., Coppini, G., Debetto, V., De Carolis, G., De Dominicis, M., Forneris, V., Fontebasso, F., Griffa, A., Iacono, R., Lombardi, E., Marullo, S., Manzella, G., Mercatini, A., Napolitano, E., Pisano, A., Reseghetti, F., Sorgente, R., Sprovieri, M., Terranova, G., Volpe, G., Zambianchi, E. Contribution of COSMO/SKYMED data into PRIMI: A Pilot Project on marine oil pollution. Results after one year of operations. *International Geoscience and Remote Sensing Symposium (IGARSS)*, 2010, 4799-4802.

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Santoleri, R., Volpe, G., Marullo, S., Nardelli, B.B. Open waters optical remote sensing of the Mediterranean Sea. *Remote Sensing of the European Seas*, 2008, 103-116.

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