Name	**Emanuele Organelli**	Company	
Position	Research Scientist	Reference	https://orcid.org/0000-0001-8191-8179
e-mail		Phone	

Qualifications and Affiliations

- 2019- Research Scientist at CNR-ISMAR, Rome, Italy
- 2018-2019 Research Scientist at CNRS - Laboratoire d'Océanographie de Villefranche (LOV), Villefranche sur Mer, France
- 2016-2018 H2020 Marie Curie Fellow at Plymouth Marine Laboratory (PML), Plymouth, UK
- 2014-2016 Research Scientist at CNRS - Laboratoire d'Océanographie de Villefranche (LOV), Villefranche sur Mer, France
- 2012-2014 Postdoc Researcher at Université Pierre et Marie Curie, Paris 6 - Laboratoire d'Océanographie de Villefranche (LOV), Villefranche sur Mer, France
- 2011-2012 Postdoc Researcher at University of Florence, Florence, Italy
- 2008-2011 PhD in Biosystematics and Plant Ecology, University of Florence, Florence, Italy
- 2004-2007 M.Sc in Environmental Biology (cum laude), University of Florence, Florence, Italy

Relevant Experience

- 15 years of experience in optical oceanography and earth observation of marine environments, remote sensing and algorithm development for OC retrieval of marine biological resources, ecology and diversity of marine phytoplankton
- 8 years of experience in Biogeochemical-Argo data management, development of quality control procedures for in situ sensors measuring optical variables (chlorophyll, dissolved organic matter, radiometry), scientific exploitation, synergies with remote sensing of OC
- Excellent organisational skills for in situ sampling (>130 days at sea). Deployment, and check of the technical status, of in situ sensors for measuring in water bio-optics, radiometry, and characteristics of marine particle communities.
- Large experience in using laboratory-based instrumentation for characterising marine phytoplankton communities, and scientific exploitation of the data (e.g., fluorometers, spectrophotometers, coulter counter, flow cytometry).
- Member of the International BGC-Argo planning group (since 2016)
- Member of the International Satellite Phytoplankton Functional Type Algorithm Intercomparison working group (2012-2017)
- Expert in radiometry for SCOR – WG 154: Integration of Plankton-Observing Sensor Systems to Existing Global Sampling Programs (P-OBS)
- Scientific coordinator of a H2020 Marie Skłodowska-Curie fellowship, and WP leader for projects funded by ESA and EUMETSAT for the application of OC products to the monitoring of the marine environment, for the validation of LIDAR products with BGC-Argo, and for the characterization of a Sentinel 3 OC-SVC candidate site
- Management support for the C3S-511 project (Copernicus, ECMWF)
- Rapporteur at the workshop for the Mediterranean Sea of the UN Decade of Ocean Science for Sustainable Development (2021-2030); Chair program in 5 international conferences
- Best Speaker Award at the 2018 International Ocean Optics XXIV Conference, Dubrovnik (Croatia)

Selected Publications

Organelli E., Leymarie E., Zielinski O., Uitz J., D'Ortenzio F., Claustre H. (2021). Hyperspectral radiometry on Biogeochemical-Argo floats: A bright perspective for phytoplankton diversity. pp. 90–91 in Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting

Hazards. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, A Supplement to Oceanography 34(4).

Jutard Q., **Organelli E.**, Briggs N., Xing X., Schmechtig C., et al. (2021). Correction of Biogeochemical-Argo radiometry for sensor temperature-dependence and drift: protocols for a Delayed-Mode Quality Control. Sensors 21(18): 6217.

Lazzari P., Salon S., Terzić E., Gregg W., D'Ortenzio F., Vellucci V., **Organelli E.**, et al. (2021). Assessment of the spectral downward irradiance at the surface of the Mediterranean Sea using the radiative Ocean-Atmosphere Spectral Irradiance Model (OASIM). Ocean Science, 17: 675-697.

Organelli E., Dall'Olmo G., Brewin R.J.W., Nencioli F., Tarran G.A. (2020). Drivers of spectral optical scattering by particles in the upper 500 m of the Atlantic Ocean. Optics Express 28(23): 34147-34166.

Bittig H.C., Maurer T.L., Plant J.N., Wong A.P.S., Schmechtig C., Claustre H., Trull T.W., Bhaskar T.V.S.U., Boss E., Dall'Olmo G., **Organelli E.**, et al. (2019). A BGC-Argo guide: Planning, deployment, data handling and usage. Frontiers in Marine Science 6: 502.

Organelli E., Dall'Olmo G., Brewin R.J.W., Tarran G.A., Boss E., et al. (2018). The open-ocean missing backscattering is in the structural complexity of particles. Nature Communications 9: 5439.

Organelli E., Barbieux M., Claustre H., Schmechtig C., Poteau A., et al. (2017). Two databases derived from BGC-Argo float measurements for marine biogeochemical and bio-optical applications. Earth System Science Data 9: 861-880.

Organelli E., Claustre H., Bricaud A., Barbieux M., Uitz J., et al. (2017). Bio-optical anomalies in the World's oceans: An investigation on the diffuse attenuation coefficients for downward irradiance derived from Biogeochemical Argo float measurements. Journal of Geophysical Research Oceans 122: 3543-3564.

Schmechtig C., **Organelli E.**, Poteau A., Claustre H., D'Ortenzio F. (2017). Processing BGC-Argo CDOM concentration at the DAC level. Argo Data Management: pp. 11, http://doi.org/10.13155/54541.

Roesler C., Uitz J., Claustre H., Boss E., Xing X., **Organelli E.**, et al. (2017). Recommendations for obtaining unbiased chlorophyll estimates from in situ chlorophyll fluorometers: A global analysis of WET Labs ECO sensors. Limnology and Oceanography Methods 15: 572-585.

Xing X., Claustre H., Boss E., Roesler C., **Organelli E.**, et al. (2017). Correction of profiles of in-situ chlorophyll fluorometry for the contribution of fluorescence originating from non-algal matter. Limnology and Oceanography Methods 15: 80-93.

Dall'Olmo G., Brewin R.J.W., Nencioli F., **Organelli E.**, et al. (2017). Determination of the absorption coefficient of chromophoric dissolved organic matter from underway spectrophotometry. Optics Express 25(24): A1079-A1095.

Biogeochemical-Argo Planning Group (2016). The scientific rationale, design and implementation plan for a Biogeochemical-Argo float array. K. Johnson and H. Claustre (eds). http://doi.org/10.13155/46601.

Organelli E., Bricaud A., Gentili B., Antoine D., Vellucci V. (2016). Retrieval of Colored Detrital Matter (CDM) light absorption coefficients in the Mediterranean Sea using field and satellite ocean color radiometry: Evaluation of bio-optical inversion models. Remote Sensing of Environment 186: 297-310.

Organelli E., Claustre H., Bricaud A., Schmechtig C., Poteau A., et al. (2016). A novel near-real-time quality-control procedure for radiometric profiles measured by Bio-Argo floats: Protocols and performances. Journal of Atmospheric and Oceanic Technology 33: 937-951.