

**Francesco Raffa**, Head Technologist at the Institute of Geoscience and Earth Resources, National Research Council (CNR) of Italy.

*Research interests:* Data acquisition and processing. Management and maintenance of hardware and software of scientific instrumentation. Acquisition, management, processing and report of environmental monitoring data using automatic and laboratory instrumentation. In particular, since 2002, he obtained a CNR research grant and has been working on established monitoring techniques for the systematic observation of marine environmental parameters, combining experimentation with real-time observation and information acquisition techniques with the analysis of acquired data and their use in simulation and numerical prediction models. Since 2008, having become a CNR Tecnologist, he has undertaken the activity of developing innovative techniques for the estimation of parameters that characterize the surface state of the sea, from the estimation of currents to the reconstruction of wave motion and bathymetry, carried out through the analysis of sequences of images acquired by an X-band nautical radar, in collaboration with the Institute for Electromagnetic Sensing of the Environment.

Head of the Coastal Monitoring Laboratory by remote sensing measurements using X-band radar network.

Author of scientific publications and technical reports on the issues of Earth Observations in coastal areas. Since 2010, National Research Council (CNR) referent for the implementation of the Coastal Radar Network as a monitoring system for critical marine areas within the following projects: "SSD - fishing in southern Italian regions," RItMare Flag Project for X-band wave radar and CALYPSO FO Project for HF radar.

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Pisa, May 10, 2024

