

Cosimo SOLIDORO

education

PhD in Chemistry (1993), Degree in Industrial Chemistry (1990).

Current position and activities

Research director and currently head of the Oceanography Section of the National Institute for Oceanography and Applied Geophysics OGS .
Associated to the International Centre for Theoretical Physics, Earth system Program
Associated to the University of Trieste, course on 'Ecosystem dynamic, ecological models, and sustainability ' and to the University of Trieste Life Science doctorate school.
president of the International Society of Ecological Modelling - European Chapter,
Italian National Representative of IGBP program Integrating Marine Biogeochemistry and Ecological Research, IMBER ,
member of the executive board of the European consortium EUROCEANS
Scientific Coordinator of Sharemd, a EU project on pollution and environmental threats and of ICCC, a PRIN project on pollutants and biogeochemical cycles in a changing climate.

Research interests

Integrated assessment and on modelling studies of coastal and marine ecosystems, with reference to Biogeochemistry, Biodiversity and Ecosystem Functioning, Climate Change, Fishery and Aquaculture, Ecosystem Services and Sustainability.
Research activities include developments, analysis and use of a variety of numerical methodologies, ecological models and coupled transport-ecological models of different complexity. Recent research activities expand further over the human dimensions and the integration among different components of marine systems, up to including integration among physical, biogeochemical, ecological and socio-economical aspects, assessment of the impact of global changes, including ocean acidification, on ecosystems and socio-environmental systems; analysis of socio environmental systems, ecosystem governance, science policy interface, research in support of the implementation of ecosystem approach to fishery and aquaculture and historical ecology.

Publication and bibliometric indicators

more than 120 peer-reviewed articles and more than 30 other publications, book chapters and reports, including papers classified by ISI as 'highly cited papers and papers highlighted by F-1000. Current H-index 44 about 5000 citations (scholar.google.it)
Full list of publications at <https://scholar.google.it/citations?user=rEb1asQAAAAJ&hl=it>

Awards and honors

2006 junior Prigogine Medal
2018 co-recipient Denny medal "to most worthy paper published in Journal of Operational Oceanography "
2012 habilitation as full professor in "ecology" by Italian ministry of education
2012 habilitation as full professor in "oceanography" by Italian ministry of education
2010-2021 president of the International Society of Ecological Modelling - European Chapter
2015 -2018 president scientific committee of HPC-TRES program, devoted to promote the use of high performance computing in earth and life science
2016-2021 president of the scientific board for open source BFM (Biogeochemical Flux Model)
2008-present Italian National Representative of IGBP program Integrating Marine Biogeochemistry and Ecological Research, IMBER
2004-2008 Leads author in IPBES Europe and Central Asia assessment
Invited speakers at about 15 international workshops of conferences

Other research experience

short term visitor at Plymouth Marine Laboratory, PML, UK ,
short term visitor at Danish Technical University
Guest Visiting Scholar at IASA, International Institute for Applied System Analysis, Laxemburg (Wien)
Fellow Researcher at University of California at Berkeley, dept. Environmental Engineering
Summer course at the Oregon State University
Postdoc at the Technical University of Milano (Politecnico di Milano)
Postdoc at Venice University physical chemistry section
Consultant for University of Venice (1993 and 1996), Venice Water Authority Consorzio Venezia Nuova (several times between 1993 and 2008)

Scientific coordination:

SHAREMED (EU project on environmental threats),
ICCC, (PRIN on impact of climate change on pollution in marine systems)
Acidit.it (project funded by Italian ministry for research on impact of marine acidification in Italian seas)
Lagumex (large program of strategic relevance funded by Italian ministry of foreign affairs and Mexican research ministry on lagoon ecosystems)
SOSTEMITS (research program funded by FVG regional authority under Innovation theme on 'Economic value and environmental sustainability of mussel farm in the Northern Adriatic Sea: an ecosystem approach')
ECOMADR, (EU interreg project on 'integration ecological knowledge on Adriatic Sea')
Co.Ri.La. 3.1.3 ' (international project funded by Italian governmental agency Co.Ri.La. on climatology of the coastal area in front of the Venice lagoon')
Climave: (national project funded by Magistrato alle Acque Venezia on 'evaluation of effects of global changes on the lagoon of Venice ecosystem')

Participation to other projects:

Coordinator of workpackages or tasks in a number of EU projects on impact of acidification (medsea), or multiple stressors (sesame, perseus, vectors) on marine ecosystems, and on operational oceanography aspects (pec, myocean, Copernicus), and on ecosystem approach to fishery (coconet, mantis, reefish, units) as well as in important Italian projects (ritmare, vector)

Boards and committee and supervisions

Member of the European Marine Board, Euromarine

member of the evaluation panel for Norwegian Research Council research projects on marine science (many times), for eu marie curie proposals, and others

Associate editor of *Frontiers of Marine Science – marine ecosystem*, member of the editorial board of *Ecological Modelling*, guest editor of several special issues on Continental shelf research, *Ecological Modelling*, *Journal of marine systems*, *Fmars*

Tutor or supervisor of about 20 phd or postdoc students