28 February ore 14:00, presso Scienze Ambientali sede ITAS, Via Dell'Agricoltura 5, Ravenna

Lecture - MODELLI BIOGEOCHIMICI DELL'OCEANO GLOBALE PER SIMULAZIONI CLIMATICHE -

Dr. Marcello Vichi,

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Abstract

Marcello Vichi will review current efforts in modelling global ocean biogeochemistry as one of the components of the Earth System. The relationships between climate, atmospheric CO2 and the global carbon cycle are analysed and investigated by means of Earth System Models, which simulate climate variability under various scenarios. Results will be presented from ongoing research on the impacts of anticipated climate change on the lower trophic levels. A part of the lecture will be devoted to the validation issues of current biogeochemistry models of the global ocean and to a critical assessment of predictive capabilities.

CV

Marcello Vichi holds a PhD in Marine Biogeochemistry and has more than 10 years experience in marine ecosystem modelling in several regional seas (Adriatic, Baltic, North Sea), in the Mediterranean and in the global ocean. He is a researcher at the Istituto Nazionale di Geofisca e Vulcanologia, working at the Euro-Mediterranean Center for Climate Changes (CMCC). He is one of the developers of the Biogeochemical Flux Model (htpp://bfm.cmcc.it), which is an improved direct descendant of the ERSEM model. His research interests embrace numerical modelling of coupled physical/biogeochemical processes in the global ocean, climate change impacts on marine ecosystems and process studies of biogeochemical interactions in coastal and shelf seas.