



## Meeting CARBOOCEAN WP9 CSIC Instituto de Ciencias del Mar Barcelona 2-3 March 2006



**Participants of the WP9 Barcelona Meeting:  
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Understanding the distribution of anthropogenic carbon in the ocean and quantifying the anthropogenic carbon inventories are important issues to reduce the uncertainties attached to the present global carbon budget, analysing the coupling of the carbon cycle and climate as well as to identify the changes in ocean biogeochemical cycles including present and future ocean acidification. All these questions are central in CARBOOCEAN. Since about a decade, thanks to marvellous WOCE/JOGFS data set, many data-based approaches have been developed and applied at regional or global scales. However, different methods may lead to different results and it is thus highly relevant to analyze where in the ocean and why the results are different. For this one need to apply these methods to the same data set. This is what was proposed last June in the frame of CARBOOCEAN WP9. The calculations were performed for two sections, one zonal in the North Atlantic, one long meridional section from the Arctic to the Antarctic continent. Data were selected from comprehensive WOCE/JGOFS data-based and included recent cruises conducted in the Arctic basin.

During March 2-3, 2006, a WP9 meeting was held in Barcelona with the aim to discuss the results recently produced by different groups (6 different approaches). The results were synthesized at Instituto de Investigaciones Marinas, CSIC, prior to this meeting. Fruitful discussions on both calculations and tapas intercomparisons were carried out among the participants during these two days. A paper was outlined to be submitted to Global Biogeochemical Cycles (tentative title: Anthropogenic Carbon in the Atlantic Ocean: a comparison between six data-based methods, Authors: Vazquez-Rodriguez, Lo Monaco, Touratier, Waugh, Bellerby, Goyet, Metzl, Pérez and Ríos).