

Magdalena Carranza

Scripps Institution of Oceanography
maucarranza@ucsd.edu

EDUCATION

- 2009 – Present PhD Candidate in Physical Oceanography, Scripps Institution of Oceanography (SIO), University of California San Diego, US. GPA: 3.6 /4. Advisor: Sarah Gille.
- 2009 BS in Physical Oceanography, Faculty of Hard and Natural Sciences (FCEyN), University of Buenos Aires (UBA), Argentina. GPA: 9.1 /10. Advisor: Alberto Piola.

RESEARCH INTERESTS

Upper-ocean dynamics: the response to the atmospheric forcing, induced mixing and implications to biology and climate. Upwelling and circulation associated to frontal regions.

FELLOWSHIPS / GRANTS

- + NASA Earth and Space Science Fellowship (NESSF) awarded. *“Effect of high-frequency winds on the mixed layer depth of the Southern Ocean”*. PI: Sarah Gille. 2012-2013.
- + Travel Grant awarded by the SIO Graduate Office to assist to the 10th ICSHMO in Nouméa, New Caledonia.
- + Travel Grant awarded by PICES to attend the SOLAS Summer School 2011 in Cargèse, France.
- + Fellowship granted by the Inter-American Institute (IAI) for Global Change Research: Training Fellowship (CRN2076). *“The role of currents of the Patagonian shelf break front on nutrient enrichment and phytoplankton abundance processes”*. PI: Alberto Piola | Co-PI: Alejandro Bianchi. Jul 2008-Aug 2009.
- + Fellowship granted by the ‘Forum for the Conservation of the Patagonian Sea and Areas of Influence’. *“Indicators of the status of the marine environment in the Patagonian Sea”*. Advisor: Alberto Piola | Co - Advisor: Silvia Romero. Jul 2007-Jul 2008

PUBLICATIONS

- + Abbriano RM, Carranza MM, Hogle SL, Levin RA, Netburn AN, Seto KL, Snyder SM, SIO280, and Franks PJS. (2011). “Deepwater Horizon oil spill: A review of the planktonic response”. *Oceanography* 24(3):294–301, <http://dx.doi.org/10.5670/oceanog.2011.80>
- + Charo M, Romero SI, Piola AR, Carranza MM, Ferrari R, Garcia CE, Pollery R, Garcia VM, Mata M (2009). “Vertical fluxes at the Shelf-break Front off Patagonia inferred from satellite and in-situ hydrographic data”. *VII Jornadas Nacionales de Ciencias del Mar*, Puerto Madryn, Argentina.
- + Carranza, MM (2009). “Indicators of the state of the marine environment in frontal regions of the Patagonian Sea”. *BS Thesis*, <http://hdl.handle.net/1834/3857>
- + Carranza M, Romero SI and Piola AR (2008). “Indicators: Chlorophyll Concentration”. *Status of Conservation of the Patagonian Sea and Areas of Influence* – electronic version pp. 766-775, <http://www.marpatagonico.org/libro/articulo.php?id=indicadores&p=36>
- + Reiter ML, Sierra M, Carranza MM, Luz Clara M, Aubone N, Campos M, Martin P, Schmidt S, Dragani W (2006). “Design wave height estimation for the access channels to the Port of Buenos Aires”. *VI Jornadas Nacionales de Ciencias del Mar*, Puerto Madryn, Argentina.

C O N F E R E N C E S

- + *10th International Conference on Southern Ocean Meteorology and Oceanography (ICSHMO)*. Oral presentation. Nouméa, New Caledonia. Apr 23-27, 2012.
- + *Ocean Sciences Meeting 2012*. Oral presentation: "The influence of winds and SST on summer Chl-a through mixed layer depth dynamics in the Southern Ocean". Salt Lake City, Utah. Feb 2012.

S U M M E R S C H O O L S / W O R K S H O P S

- + *Surface Ocean and Lower Atmosphere Studies (SOLAS) Summer School 2011*. Cargèse, Corsica, France. Aug 29 – Sep 10, 2011.
- + *"Modeling and Synthesis of Southern Ocean Natural Iron Fertilization"* Workshop. Woods Hole Oceanographic Institution, Boston MA, USA. June 27-29, 2011.
- + Austral Summer Institute VIII: *"Oceanography and climate change: Past, present and future scenarios"*. University of Concepción, Chile. Jan 14-25, 2008
- + *"Acquisition and Processing of Oceanographic Data"* Grade: 10/10. Natl. Univ. of Mar del Plata and the Natl. Inst. for Research and Development of Fisheries (INIDEP), Argentina. Jun 2007
- + *"ICTP Workshop on the Interdisciplinary Science of Climate Changes: Basic Elements"*. UBA, Arg. Mar 2007
- + *"MATLAB & Practical Applications on Climate Variability Studies"*. CLARIS Project, UBA. Feb 20-24, 2006

S E A - G O I N G E X P E R I E N C E

- + *"Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean I"*. US/UK field program (45 days). Chief Scientist: Jim Ledwell, R/V Revelle. Jan 9-Feb 25, 2009
- + *"Oceano Sul II"* Training oceanographic cruise (22 days). PI: Edmo Campos. R/V Antares, Brazil. Mar 2003