

VINCENT COMBES

Francés, 30 de Junio 1982

Ph.D. Georgia Institute of Technology (USA) - Ingeniero ENSEEIHT (Fr.) - Ocean Modeler -

Direcciones	Información	Idiomas
✓ USA: ... CORVALLIS, OR 97333	✓ USA teléfono: +1 ...	✓ Francés (Idioma maternal)
✓ France: ... 06250 MOUGINS, FRANCE	✓ Email: ...@gmail.com	✓ Ingles (fluido)
	✓ Webpage: www.vincentcombes.com	✓ Español (fluido)
	✓ Work Skype: ...	✓ Alemán (nociones básicas)

EDUCACIÓN

- 08/2010 – Ahora **OREGON STATE UNIVERSITY** – College of Ocean and Atmospheric Sciences – Corvallis, OR USA,
Research Associate / Post-Doctorate – Oceanografía física
- 08/2004 – 08/2010 **GEORGIA INSTITUTE OF TECHNOLOGY** – Earth & Atmospheric Sciences - Atlanta, GA USA,
Ph.D. Degree – Oceanografía física
- 01/2009 – 12/2009 **UNIVERSIDAD DE CONCEPCION** – Concepción, CHILE
Colaboraciones de investigación
- 08/2004 – 08/2007 **GEORGIA INSTITUTE OF TECHNOLOGY** – Earth & Atmospheric Sciences - Atlanta, GA USA,
Master – *Dinámicas de la atmosfera y del océano*
- 08/2002 – 06/2005 **ENSEEIHT** – Ecole National Supérieure d'Electrotechnology, d'Electronique, d'Informatique, d'Hydraulique et
des Télécommunications - Toulouse, FRANCE
Diploma de ingeniero (Master) – *Especializado en Mecánica de Fluidos y de Hidráulica*

EXPERIENCIA LABORAL (USA - Chile - Argentina - Colombia)

- 08/2004 – Ahora **EXPERIENCIA EN INVESTIGACION - MODELISACION OCEANICA**
Especializado en el uso del Regional Ocean Modeling System (ROMS)
- Post Doctorate Advisors: Dr. Ricardo Matano and Dr. Ted Strub, Corvallis USA
PhD Advisor: Dr. Emanuele Di Lorenzo, Atlanta USA
Principal Colaboradores Chilenos: Dr. Samuel Hormazabal, Dr. Carolina Parada
Principal Colaboradores Argentinos: Dr. Elbio Palma, Dr. Alberto Piola
Principal US Colaboradores: Dr. Yvette Spitz, Dr. Dudley Chelton
- Intereses de Investigación:*
- Variabilidad oceanográfica de baja frecuencia
 - Variabilidad de la surgencia costera
 - Dinámica de remolinos
 - Transporte costa-océano
 - Interacción físico-biológica
 - Interacción atmosfera-Océano
 - Observaciones satelitales: Altimetry (AVISO), Salinidad de superficie (Aquarius)

Regiones estudiadas y modeladas:

- Pacífico Norte: Golfo de Alaska, Zona costera de Oregon, Sistema de California
- Pacífico Sur: Sistema de Corriente de Perú-Chile, Archipiélago Juan Fernandez
- Atlántico Sur: Patagonian shelf, Brazil Current, Malvinas Current, South Georgia Island, Antarctic Circumpolar Current, Meridional Overturning Circulation, Agulhas Current and Benguela Current

TEACHING EXPERIENCES

Medellin, COL.

2 semanas (2012): “The ROMS Ocean Model applied to the Colombian coast”, **Hecho en español**

Buenos Aires, ARG.

2 semanas (2011): “Ocean Circulation, Theory and Models”, **Hecho en español**

Atlanta, USA.

5 años Teaching Assistant (2004-2008): “Introduction to oceanography”

PROYECTOS

Agencia: NSF - Título de la Propuesta: Natural Iron Fertilization from the Patagonian and South Georgia Island Shelves to the Open Waters of the Southern Ocean (\$753,084)

Agencia: NASA - Título de la Propuesta: The Effects of Eddy-Induced Ekman Pumping on Mesoscale and Large-Scale Ocean Circulation (\$1,108,544)

Agencia: NASA - Título de la Propuesta: South Atlantic Sea Surface Salinity Variability (\$851,792)

Agencia: NASA - Título de la Propuesta: Processes Connecting Coastal to Basin-Scale Ocean Circulation (\$1,030,211)

PUBLICACIONES

Capítulos publicados

[1] Contributor to chapter 14 of: “Ocean Circulation and Climate – A 21st Century Perspective”, Edited by G. Siedler, S.M. Griffies, J. Gould and J.A. Church. Published December 2013.

Artículos publicados

[19] Chenilla, F., P.J.S. Franks, X. Capet, P. Rivière, N. Grima, B. Blanke and **V. Combes** (2018): Eddy properties in the Southern California Current System. *Ocean Dynamics*, doi.org/10.1007/s1023

[18] Parada, C., A. Gretchina, S. Vásquez, A. Belmadani, **V. Combes**, B. Ernst, E. Di Lorenzo, J. Porobic, A. Sepúlveda (2017): Expanding the conceptual framework of the spatial population structure and life history of jack mackerel in the eastern South Pacific: an oceanic seamount region as potential spawning/nursery habitat. *ICES Journal of Marine Science*, doi:10.1093/icesjms/fsx065

[17] Franco, B.C., E.D. Palma, **V. Combes**, M.L. Lasta (2017): Physical processes controlling passive larval transport at the Patagonian Shelf Break Front. *Journal of Sea Research*, 124, 17-25

[16] Chenillat, F., P.J.S. Franks, **V. Combes** (2016): Biogeochemical Properties of Eddies in the California Current System. *Geophys. Res. Letters*, doi:10.1002/2016GL068945.

[15] Strub, P. T., C. James, **V. Combes**, R. P. Matano, A. R. Piola, E. D. Palma, M. Saraceno, R. A. Guerrero, H. Fenco, and L. A. R.-Etcheverry (2015), Altimeter-derived seasonal circulation on the southwest Atlantic shelf: 278–438S, *J. Geophys. Res. Oceans*, 120.

[14] **Combes, V.**, S. Hormazabal, and E. Di Lorenzo (2015), Interannual variability of the subsurface eddy field in the Southeast Pacific, *J. Geophys. Res. Oceans*, 120.

[13] Guerrero, R. A., A. R. Piola, H. Fenco, R. P. Matano, **V. Combes**, Y. Chao, C. James, E. D. Palma, M. Saraceno, P. Ted Strub (2014): The salinity signature of the cross-shelf exchanges in the Southwestern Atlantic Ocean: Satellite observations, *Journal of Geophysical Research: Oceans*, 119.

[12] Matano, R. P., **V. Combes**, A. R. Piola, R. Guerrero, E. D. Palma, P. Ted Strub, C. James, H. Fenco, Y. Chao, M. Saraceno (2014): The salinity signature of the cross-shelf exchanges in the Southwestern Atlantic Ocean: Numerical simulations. *Journal of Geophysical Research: Oceans*, 119.

[11] **Combes, V.** and R.P. Matano (2014): Trends in the Brazil/Malvinas Confluence region. *Geophysical Research Letters*, 41.

[10] **Combes, V.** and R.P. Matano (2014): A two-way nested simulation of the oceanic circulation in the Southwestern Atlantic. *Journal of Geophysical Research: Oceans*. 119.

[9] Andrade, I., S. Hormazabal, **V. Combes** (2014): Intrathermocline eddies at the Juan Fernández Archipelago, southeastern Pacific

Ocean. *Lat. Am. J. Aquat. Res.*, 42(4): 888-906.

[8] Di Lorenzo, E., **V. Combes**, J.E. Keister, T.P. Strub, A.C. Thomas, P.J.S. Franks, M.D. Ohman, J. Furtado, A. Bracco, S.J. Bograd, W.T. Peterson, F.B. Schwing, S. Chiba, B. Taguchi, S. Hormazabal, C. Parada (2013): Synthesis of Pacific Ocean climate and ecosystem dynamics. *Oceanography*, 26(4), 68-81.

[7] Hormazabal, S., **V. Combes**, C.E. Morales, M.A. Correa-Ramirez, E. Di Lorenzo, S. Nuñez (2013): Intrathermocline eddies in the Coastal Transition Zone off central Chile (31-41°S). *Journal of Geophysical Research: Oceans*, 118, 1–11.

[6] **Combes, V.**, F. Chenillat, E. Di Lorenzo, P. Rivière, M. D. Ohman and S. J. Bograd, (2013): Cross-shore transport variability in the California Current: Ekman upwelling vs. eddy dynamics. *Progress in Oceanography*, 109, 78-89.

[5] Porobić, J., C. Parada, B. Ernst, S. Hormazabal, **V. Combes** (2012): Modeling the connectivity of Juan Fernández rock lobster (*Jasus frontalis*), subpopulations through a biophysical model. *Lat. Am. J. Aquat. Res.*, 40(3), 613-632.

[4] Keister, J.E., E. Di Lorenzo, C. Morgan, **V. Combes**, W. Peterson, (2011): Zooplankton species composition is linked to ocean transport in the Northern California Current. *Global Change Biology*, 17.

[3] **Combes, V.**, E. Di Lorenzo and Curchitser, E, (2009): Interannual and Decadal Variations in Cross-Shelf Transport in the Gulf of Alaska. *Journal of Physical Oceanography* 39(4), 1050-1059.

[2] Capotondi, A., **Combes, V.**, Alexander, M. A., Di Lorenzo, E. and Miller, A. J., (2009): Low-frequency variability in the Gulf of Alaska from coarse and eddy-permitting ocean models. *Journal of Geophysical Research: Oceans*, 114

[1] **Combes, V.**, E. Di Lorenzo, (2007): Intrinsic and forced interannual variability of the Gulf of Alaska mesoscale circulation. *Progress In Oceanography*, 75, 266-286

CONFERENCIAS & TALLERES

Dec 2014 - Workshop on South Atlantic circulation variability and change: integrating models and observations, Buenos Aires, Argentina. Oral Presentation. "Trends in the Brazil/Malvinas Confluence region"

Feb 2014 - Ocean Science Meeting, Honolulu. Poster.

"A Two-Way Nested Simulation Of The Oceanic Circulation In The Southwestern Atlantic"

Nov 2013 - Universidad Catolica de Valparaiso, Valparaiso, Chile. Oral Presentation in Spanish.

"Interannual Variability of the Subsurface Eddy Field in the SouthEast Pacific"

Oct 2013 - 3rd Congreso de Meteorología, Oceanografía y Clima del Pacifico Sur Oriental, Santiago, Chile. Oral Presentation in Spanish.

"Intrathermocline Eddies in the Coastal Transition Zone off central Chile (31°S-41°S)"

Dec 2012 - American Geophysical Union, San Francisco. Poster.

"Modeling the Patagonian ShelfBreak Upwelling"

Apr 2012 - Invited at the Universidad Nacional de Medellin, Colombia. Oral Presentation in Spanish.

"The ROMS 2 ways nesting capability applied in real cases ocean circulation"

Feb 2012 - Ocean Science Meeting, Salt Lake City. Poster.

"Mean and seasonal transport variability in the Southwest Atlantic"

Dec 2011 - Invited at the Universidad de Buenos Aires, Argentina. Oral Presentation in Spanish.

"Mean and Seasonal Transport Variability in the Southwest Atlantic, derived from a two-way nesting Experiment"

Oct 2010 - Altimetry for oceans and hydrology and 4th Coastal Altimetry Workshop - Lisbon and Porto, Portugal. Poster.

"Upwelling and cross-shelf transport dynamics along the Pacific Eastern boundary"

Oct 2010 - Physical Oceanography Dissertations Symposium - PODS VI, Hawaii. Oral Presentation.

"Upwelling and cross-shelf transport dynamics along the Pacific Eastern boundary"

Nov 2009 - Taller de analisis del estado del conocimiento y perspectivas de investigación del sistema de la surgencia costera de la Guajira, Cartagena Colombia. Oral Presentation in Spanish. "Variabilidad del sistema de surgencia de La Guajira, estimado por un trazador pasivo"

Oct 2009 - PICES Annual Meeting, Jeju, South Korea. Oral Presentation.

"Interannual and Decadal Variations in Cross-Shelf Transport in the Gulf of Alaska"

Sep 2009 - Primer Congreso de Oceanografía Física Meteorología y Clima: Concepcion Chile. Oral Presentation in Spanish.

"Variabilidad interanual y decadal de surgencia en el Sistema de Corriente de Humboldt, estimado por un trazador pasivo"

Nov 2006 - ROMS workshop, Madrid. Oral Presentation.

"Forced and Intrinsic Interannual Variability in the surface ocean circulation of the Gulf of Alaska"

Oct 2006 - Conference EPOC, Oregon. Poster.

"Forced and Intrinsic Interannual Variability in the Gulf of Alaska"

Feb 2006 - Ocean Sciences Meeting, Hawaii. Poster.

"Role of Eddies in the Upper Ocean"

AMS (American Meteorological Society): San Diego (2005), Atlanta (2006)

RECONOCIMIENTOS

Research Excellence Award for the School of Earth and Atmospheric, Georgia Institute of Technology, year 2009

Best Poster Award for the 2008 Graduate Students Symposium for the School of Earth and Atmospheric, Georgia Institute of Technology

Best Poster Award for the College of Sciences for the Georgia Institute of Technology, Graduate Students Symposium year 2008

OTROS/HABILIDADES

Reviewer for Ocean Modelling, Journal of Geophysical Research: Ocean, Fisheries Oceanography

Informatics skills: Matlab, Fortran, Unix, Adobe illustrator, Adobe Photoshop, Corel Draw, Office, use of super computers

Spare time: Skiing, Rock climbing, Volleyball, Tennis, Salsa dancing and Traveling

Languages: Fluent in French, English and Spanish

Personal webpage: www.vincentcombes.com

REFERENCIAS

Ricardo Matano	CEOAS, Oregonstate University, USA	rmatano@coas.oregonstate.edu
Ted Strub	CEOAS, Oregonstate University, USA	strub@coas.oregonstate.edu
Emanuele Di Lorenzo	EAS, Georgia Institute of Technology, USA	edl@eas.gatech.edu
Samuel Hormazabal	Pont. Univ. Católica de Valparaíso, CHILE	sam.hormazabal@gmail.com
Yuley Cardona	Univ. Nacional de Colombia, COLOMBIA	ymcardon@unal.edu.co