

Curriculum Vitae

Ivana Cerovečki

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Scripps Institution of Oceanography
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EDUCATION:

2002-2006: Post-Doctoral Academic Training

Massachusetts Institute of Technology, Cambridge, Massachusetts
Eddy transport in the Ocean: Analysis and Parameterization
Advisors: R. Alan Plumb and John C. Marshall

1995-2002: Ph. D. in Oceanography

Oregon State University, Corvallis, Oregon
Long Planetary Waves in a Two-and-a-half Layer Model Ocean with a Wind-Driven Steady Circulation
Advisor: Roland A. de Szoeke

1988-1992: M. Sc. in Physical Oceanography

Faculty of Science, University of Zagreb, Croatia
Decay of Adriatic seiches
Advisor: Mirko Orlić

1983-1988: B.Sc. in Physics (Geophysics with Meteorology)

Faculty of Science, University of Zagreb, Croatia
A one-dimensional hydrodynamical numerical model of the Adriatic
Advisor: Mirko Orlić

PROFESSIONAL EXPERIENCE:

2007 - present: Post-Doctoral Scholar Employee,

Scripps Institution of Oceanography, University of California, San Diego, U.S.A.

2002 - 2006: Post-Doctoral Associate,

Massachusetts Institute of Technology, Boston, U.S.A.

1995 - 2002: Graduate Student

Oregon State University, Corvallis, U.S.A.

3/1995 - 8/1995: Staff Research Associate I, Santa Barbara Channel Project,

Principal Investigator: Clinton D. Winant

Center for Coastal Studies, Scripps Institution of Oceanography,

University of California, San Diego, U.S.A.

1993 - 1994: Visiting Researcher

Center for Coastal Studies, Scripps Institution of Oceanography, University of California, San Diego, U.S.A.

1990 - 1995: Graduate Research Assistant

Center for Marine Research, Rudjer Boskovic Institute, Zagreb, Croatia.

1989 - 1990: Engineer

Oil-company Ina-Naftaplin, Zagreb, Croatia.

FELLOWSHIPS:

1992 Summer School on Environmental Dynamics in Venice, Italy, July (a two-week course sponsored by Istituto Veneto)

1991 Course on oceanography of semi-enclosed seas, Trieste, Italy, April 15-26

(a two-week course sponsored by International Center for Theoretical Physics)

1990 Proudman Oceanic Laboratory, Bidston, Great Britain

(one week fellowship for young scientists granted by the British Council)

AWARDS:

2001 Outstanding Student Paper Award, AGU meeting San Francisco, Dec 2000

1999 Wayne V. Burt Award for Academic Excellence

College of Oceanic and Atmospheric Sciences, Oregon State University

RESEACH CRUISE EXPERIENCE:

Aug 1995 Santa Barbara Channel - Santa Maria Basin Circulation Study on R/V Sproul;

Mar 1995 Santa Barbara Channel on R/V Sproul;

Dec 1994 Santa Barbara Channel - Santa Maria Basin Circulation Study on R/V Sproul;

MAIN RESEARCH INTERESTS:

Southern Ocean climate and dynamics, intermediate water formation, eddy dynamics and parameterization for the ocean interior, Rossby waves dynamics and stability, buoyancy driven motions, seiches and long waves, tides.

PUBLICATIONS:

- I. Cerovečki, J. Marshall: Eddy modulation of air-sea interaction and convection (*J. Phys. Oceanogr.*, 2007, *in press*)
- I. Cerovečki, R. Alan Plumb and W. Heres: Eddy transport and mixing in a wind and bouyancy driven jet on the sphere (*J. Phys. Oceanogr.*, 2007, *in press*)
- C. J. Chan, R. A. Plumb and I. Cerovečki: Annular modes in a multiple migrating zonal jet regime. (*J. Atm. Sci.*, 2007, *in press*)
- I. Cerovečki, R. de Szoeki: Initially forced long planetary waves in the presence of nonzonal mean flow. *J. Phys. Oceanogr.*, 36, 2006, 507–525
- I. Cerovečki, R. de Szoeki: How Purely Wind-driven Long PG Waves may be Energized in the Western Part of Ocean Subtropical Gyres. *J. Phys. Oceanogr.*, 37, 2007, 60–70
- I. Cerovečki, R. de Szoeki: Spurious Instabilities of Long Planetary Waves in a Two-and-a-half Layer ModelSubtropical Gyre Ocean with a Wind-Driven Steady Circulation. *Ocean Modelling.*, 16, 2007, 95–105
- I. Cerovečki, M. Orlić and M. C. Hendershott: Adriatic seiche decay and energy loss to the Mediterranean. *Deep-Sea Res.* I 44, 1997, 2007–2029.
- I. Cerovečki, M. Orlić: Modelling residual sea-level of Bakar Bay (in Croatian). *Geofizika* 6, 1989, 37–57.

- I. Cerovečki, Z. Pasarić, M. Kuzmić, J. Brana and M. Orlić: Ten-day variability of the summer circulation in the North Adriatic. *Geofizika* 8, 1991, 67–81.

IN PREPARATION:

- I. Cerovečki, J. Marshall: Diagnostics of Eighteen degree mode water.
- I. Cerovečki, J. M. Campine: Parameterization of non-geostrophic eddy transport using Transformed Eulerian-mean approach in z -coordinates.
- I. Cerovečki, R.A. Plumb: Residual mean flow diagnostics for a wind and buoyancy driven flow on the sphere with interior diabatic source.

OTHER PUBLICATION:

Ivana Cerovečki. The Analysis of Tides and Tidal Currents in the Santa Barbara Channel. Semi-annual Progress Report No. 3, 1 January -30 June 1995, Analysis and Acquisition of Observations of the Circulation on the California Continental Shelf, Cooperative Agreement No. 14-35-0001-35071, University of California, San Diego, CA, pp. 41-75

CONFERENCE PRESENTATIONS:

- 2005** I. Cerovečki, A. Plumb: *Estimates of effective eddy diffusivity for a wind- and buoyancy-driven flow on the sphere with strong eddies and implications in parameterized ocean models.* Ocean Sciences, Hawaii (talk).
- 2005** I. Cerovečki, J. Marshall and A. Plumb: *Eddy modulation of air-sea interaction and convection.* European Geophysical Society, Vienna, Austria (poster).
- 2004** I. Cerovečki, J. Marshall, R. A. Plumb: *Residual mean flow diagnostics for a wind and buoyancy driven jet on the sphere with strong eddies.* European Geophysical Society, Nice, France (talk).
- 2002** I. Cerovečki, R. de Szoeke: *Asymptotic Solutions for Groups of Long Planetary Waves in a Two-and-a-half Layer Model with Nonzonal Mean Flow.* Ocean Sciences, Hawaii (talk).
- 2001** I. Cerovečki, R. de Szoeke: *Long Planetary Waves in a Three Layer Ocean with a Wind-driven Steady Circulation.* 13th Conference on Atmospheric and Oceanic Fluid Dynamics, Breckenridge, Colorado (talk).
- 2001** I. Cerovečki, R. de Szoeke: *Long Planetary Wave Perturbations of a Subtropical Gyre.* European Geophysical Society, Nice, France (talk).

- 2000** I. Cerovečki, R. de Szoeke: *Long Planetary Waves in a Three Layer Ocean with Subtropical Gyre and Sloping Bottom*. American Geophysical Union, San Francisco (poster).
- 2000** I. Cerovečki, R. de Szoeke: *Baroclinic Instability in a Three Layer Model Ocean of a Subtropical Gyre over a Sloping Bottom*. European Geophysical Society, Nice, France (talk).
- 2000** I. Cerovečki, R. de Szoeke: *Long Planetary Waves in a Two-and-a-half Layer Ocean with a Wind-driven Steady Circulation*. Ocean Sciences, San Antonio (talk).
- 1998** I. Cerovečki, R. de Szoeke: *Long Planetary Waves in a Two-and-a-half Layer Ocean with a Constant Potential Vorticity Pool*. Ocean Sciences, San Diego (talk).
- 1995** I. Cerovečki, M. Orlić and M. C. Hendershott: *Adriatic seiche decay and energy loss through Otranto Strait*. Rapports et proces-verbaux des reunions CIESMM 34, 1995, 172. (poster)
- 1992** I. Cerovečki, M. Orlić: *Decay of the Adriatic seiches*. European Geophysical Society, Edinburgh, Great Britain (talk).
- 1992** I. Cerovečki, M. Orlić: *Transmission of the seiche energy through the Otranto Strait*. Rapports et proces-verbaux des reunions CIESMM 33, 1992, 333. (poster)
- 1990** I. Cerovečki, Z. Pasarić, M. Kuzimić and M. Orlić: *Observations of currents and temperature on the Adriatic shelf in summer*. Rapports et proces-verbaux des reunions CIESMM 32/1, 1990, 163. (poster)

INVITED TALKS:

- 2007** I. Cerovečki, A. Plumb: *Eddy transport and mixing in a wind and buoyancy driven flow on the sphere*, Columbia University, IGERT Joint Program.
- 2006** I. Cerovečki, A. Plumb: *Eddy transport and mixing in a wind and buoyancy driven jet on the sphere*, Scripps Institution of Oceanography.
- 2005** I. Cerovečki, R. de Szoeke: *Long PG waves in a two-and-a-half layer model subtropical gyre: properties and stability*, Woods Hole Oceanographic Institution.
- 2002** I. Cerovečki, R. de Szoeke: *Long baroclinic planetary waves in a two-and-a-half layer model in a nonzonal vertically sheared mean flow*, Massachusetts Institute of Technology, Cambridge.
- 2002** I. Cerovečki, R. de Szoeke: *Long baroclinic planetary waves in a nonzonal vertically sheared mean flow: An initial value problem*, Geophysical Fluids Dynamics Laboratory, Princeton.

2002 I. Cerovečki, R. de Szoeko: *The initial value problem for long planetary waves in a two-and-a-half layer model in the presence of nonzonal mean flow*, Scripps Institution of Oceanography, University of California, San Diego.

2000 I. Cerovečki, R. de Szoeko: *Long Rossby Wave Perturbations of a Subtropical Gyre Ocean Circulation*, Hatfield Marine Science Center, Newport, Oregon.

1994 I. Cerovečki, M. Orlić: *Adriatic seiche decay and energy loss to the Mediterranean*, Center for Coastal Studies, Scripps Institution of Oceanography, University of California, San Diego.

REVIEWS:

Manuscript reviewer for Journal of Physical Oceanography and Ocean Modelling; proposal reviewer for National Science Foundation.