Curriculum Vitae

Ivana Cerovečki

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EDUCATION:

B. S. in Physics, Faculty of Science, University of Zagreb, Croatia, 1989

M. Sc. in Physical Oceanography, Faculty of Science, University of Zagreb, Croatia, 1992

Ph. D. in Physical Oceanography, Oregon State University, 2002

Short term visiting student: Proudman Oceanic Laboratory, Bidston, Great Britain, 1990

Short course: Oceanography of semi-enclosed seas, ICTP, Trieste,Italy, 1991

Summer School on Environmental Dynamics, UNESCO/EC, Venice, Italy, 1992

POSITIONS:

1989 - 1990: Engineer

Oil-company Ina-Naftaplin, Zagreb, Croatia

1989 - 1992: Graduate Student

Geophysical Department, Faculty of Science, University of Zagreb, Croatia

1990 - 1995: Graduate Research Assistant

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

1993 - 1994: Visiting Researcher

Center for Coastal Studies, Scripps Institution of Oceanography, University of California, San Diego

1995: Staff Research Associate I

Center for Coastal Studies, Scripps Institution of Oceanography, University of California, San Diego

1995 - 2002: Graduate Student

Oregon State University

2002 - present: Post-Doctoral Associate,

Massachusetts Institute of Technology

AWARDS:

1999 Wayne V. Burt Award for Academic Excellence

College of Oceanic and Atmospheric Sciences, Oregon State University

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

MAIN RESEARCH TOPICS:

Seiches and long waves, tides, buoyancy driven motions, Rossby waves dynamics and stability, eddy dynamics and parameterization for the ocean interior, mode water formation, eddy modulation of convection and air-sea fluxes.

PUBLICATIONS:

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.

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, R. de Szoeke 2006: Initially forced long planetary waves in the presence of nonzonal mean flow. *J. Phys. Oceanogr.*, **36**, 507–525.

I. Cerovečki, R. de Szoeke 2006: How Purely Wind-driven Long PG Waves may be Energized in the Western Part of Ocean Subtropical Gyres. *J. Phys. Oceanogr., accepted*

I. Cerovečki, R. de Szoeke 2006: Spurious Instabilities of Long Planetary Waves in a Two-and-a-half Layer Model Subtropical Gyre Ocean with a Wind-Driven Steady Circulation. *(Ocean Modelling, accepted subject to revision)*

I. Cerovečki, R. Alan Plumb and William Heres 2006: Eddy transport and mixing in a wind and buoyancy driven jet on the sphere. *(J. Phys. Oceanogr., sub judice)*

I. Cerovečki, J. Marshall 2006: Eddy modulation of air-sea interaction and convection. *(J. Phys. Oceanogr., sub judice)*

C. J. Chan, I. Cerovečki, R. Alan Plumb 2006: Annular modes in a multiple migrating zonal jet regime. *(J. Atm. Sci., sub judice)*

IN PREPARATION:

I. Cerovečki, J. Marshall: Diagnostics of Eighteen degree mode water.

I. Cerovečki, R.A. Plumb: 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.

CONFERENCE COMMUNICATIONS:

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.

1992 I. Cerovečki, M. Orlić: *Transmission of the seiche energy through the Otranto Strait*. Rapports et proces-verbaux des reunions CIESMM 33, 1992, 333.

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.

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

Reviewed five papers for JPO.