CURRICULUM VITAE

PERSONAL DATA

Name:	Kay Sušelj
Place and date of birth:	Ljubljana, December 30, 1977
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EDUCATION

2006-2009	Ph.D. in Physics, Carl von Ossietzky University Oldenburg
2002-2006	M.Sc. in Meteorology, University of Ljubljana
1996-2001	B.Sc. in Meteorology, University in Ljubljana

WORKING EXPERIENCE

2012-present	Assistant researcher at University of California, Los Angeles (UCLA)
2009-2012	Post-doctoral scholar at NASA Jet Propulsion Laboratory (JPL)/California Institute of Technology
2006-2009	Ph.D. student at Carl von Ossietzky University Oldenburg
2001-2006	Researcher at Environmental Agency of the Republic of Slovenia (EARS)
1999	Intern at the German Weather Service (Deutcher Wetterdienst) in Braunschweig

PEER-REVIEWED PUBLICATIONS

- **K. Sušelj**, J. Teixeira and D. Chung, 2013: Unified model for moist convective boundary layers based on stochastic Eddy-Diffusivity/Mass-Flux parameterization. *Journal of Atmospheric Sciences* (doi:10.1175/JAS-D-12-0106.1, in press.)
- **K. Sušelj**, J. Teixeira and G. Matheou, 2012: Eddy Diffusivity/Mass Flux and Shallow Cumulus Boundary Layer: An Updraft PDF Multiple Mass Flux Scheme. *Journal of Atmospheric Sciences*, Vol. 69, pp. 1513-1533
- A. Semedo, **K. Sušelj**, A. Rutgerson and A. Sterl, 2011: A global view on the wind sea and swell climate and variability from ERA-40 data. *Journal of Climate*, Vol. 24, pp. 1461-14709
- **K. Sušelj** and A. Sood, 2010: Improving Mellor-Yamada-Janjić parameterization for lower Marine Planetary Boundary Layer. *Boundary Layer Meteorology*, Vol. 136 (2), pp. 301-324
- **K. Sušelj**, A. Sood and D. Heinemann, 2010: North Sea near-surface wind climate and its relation to the large scale circulation patterns. *Theoretical and Applied Climatology*, Vol. 99 (3-4), pp. 403-419

- **K. Sušelj**, M. Tsimplis and K. Bergant, 2008: Is the Mediterranean Sea Level Variability Predictable? *Physics and Chemistry of the Earth*, Vol. 33, pp. 225-238
- M. Kobold and **K. Sušelj**, 2005: Precipitation Forecasts and Their Uncertainties as Input into Hydrological models. *Hydrology and Earth System Science*, Vol. 9, pp. 322-332

THESES

- **K. Sušelj**, 2009: Modelling of the near-surface wind speed: Boundary Layer and Climate aspects. PhD thesis. University of Oldenburg. (*http://oops.uni-oldenburg.de/volltexte/2009/912/*)
- **K. Sušelj**, 2006: Meteorological Influences on Sea Surface Height in the Mediterranean Sea at Subinertial Frequencies. MSc thesis. University of Ljubljana
- **K. Sušelj**, 2001: Numerical investigation of sea-breeze phenomena: Influence of atmospheic stability stability and gradient wind on development of sea breeze. (in Slovene). Diploma thesis. University of Ljubljana

CONFERENCE TALKS, POSTERS, PROCEEDINGS, ETC. (selected 10)

- **K. Sušelj** and J. Teixeira, 2012: A unified turbulence and convection parameterization: The eddy-diffusivity/mass-flux approach. Invited speaker at Korea Institute of Atmospheric Prediction Systems Symposium 2012.
- **K. Sušelj** and J. Teixeira, 2012: Stochastic eddy-diffusivity/mass-flux parameterization for moist convective boundary layers. European Geophysical Union Annual Assembly 2012.
- **K. Sušelj** and J. Teixeira, 2012: Eddy-diffusivity/Mass-flux parameterization for boundary layer and shallow convection in the global NASA GEOS5 model. European Geophysical Union Annual Assembly 2012.
- **K. Sušelj**, B. Kahn, J. Teixeira, J. Karlsson, and M. Schreier, 2011: The transition of stratocumulus to shallow cumulus from satellite observations and numerical model simulations. European Geophysical Union Annual Assembly 2011.
- **K. Sušelj**, J. Teixeira and G. Matheou, 2010: Development of Boundary Layer Parameterization for Simulating Moist Convective Boundary Layers. American Geophysical Union Meeting 2010
- **K. Sušelj**, A. Sood and D. Heinemann, 2008: North Sea surface winds in the past and future climates. European Geophysical Union Annual Assembly 2008
- **K. Sušelj**, A. Sood and B. Canadillas, 2007: The planetary boundary layer over North Sea: measurements and mesoscale simulations. European Geophysical Union Annual Assembly 2007
- **K. Sušelj**, V. Layec, A. Sood and L. von Bremen, 2006: Past climate and extreme events over North Sea. German Wind Energy Conference (DEWEK) 2006
- **K. Sušelj** and K. Bergant, 2006: Mediterranean oscillation index and its influence on the climate in Slovenia (in Slovene). Research from geodesy and geophysics in Slovenia 2006
- **K. Sušelj**, M.-N. Tsimplis and K. Bergant, 2005: Atmospheric forcing on Sea Surface Height variability in the Mediterranean Sea. Workshop on Sea Level Variations 2005