

SHORT CV-MICHALIS I. VOUSDOKAS

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Short Intro:

Dr Michalis I. Vousdoukas is a coastal oceanographer, currently employed as a consultant in the Joint Researcher of the European Commission. He graduated at the Chemical Engineering Department of Aristotle University of Thessaloniki, Greece (2002). After being awarded his PhD on coastal morphodynamics (2006) he has worked at the NATO Underwater Research Center (Italy), IFREMER (France), University of Algarve (Portugal), University of Hannover (Germany), and the European Commission's Joint Research Centre (JRC). since 2015 he is appointed Associate Professor at the Department of Marine Sciences of the University of the Aegean. He has been involved in several European and national research projects, dealing with monitoring and modelling of nearshore morphodynamic processes. Since 2013 he is developing tools and methodologies allowing to assess climate change impacts along the European and global coastlines. These efforts cover the whole spectrum from hazard, to impact and adaptation; including large-scale ocean modelling, exposure datasets and risk assessment. He is author of more than 80 scientific journal papers, 2 book chapters and several international policy and technical reports. He regularly acts as invited expert for the United Nations Conference on Trade and Development (UNCTAD) in activities supporting climate change adaptation and sustainability. He also acted as Contributing Author to the IPCC Working Group I Sixth Assessment Report: Chapter 12 (Climate change information for regional impact and for risk assessment), and as lead author to the 1st MedECC Assessment Report (MAR1).

EDUCATION

11/2002-12/2006: PhD- Department of Marine Sciences, University of the Aegean (UoA), Mitilene, Greece.

10/2001-11/2002: MSc in Environmental Policy and Management, School of Environment, University of the Aegean, Mitilene, Greece.

10/1993-11/2001: BSc/MEng in Chemical Engineering, School of Engineering, Aristotle University of Thessaloniki, Greece.

PROFESSIONAL EXPERIENCE

12/2013-present Scientific Officer, JRC, European Commission

04/2015-12/2023 Associate Professor, University of the Aegean

04/2011-12/2013 Senior scientist, University of Hannover, Germany

11/2008-04/2011 Postdoctoral Researcher, University of Algarve, Portugal

12/2007-11/2008	Postdoctoral Researcher, IFREMER, France
06/2007- 10/2007	NURC Research Assistant, NATO Undersea Research Centre, Italy
12/2006- 5/2007:	Postdoctoral Research Assistant, University of the Aegean
1/2003- 11/2006:	Research/Teaching Assistant, University of the Aegean

SELECTED PUBLICATIONS

1. **Vousdoukas, M.I.**, Clarke, J., Ranasinghe, R., Reimann, L., Khalaf, N., Duong, T.M., Ouweeneel, B., Sabour, S., Iles, C., Trisos, C., Feyen, L., Mentaschi, L., Simpson, N.P., 2022. African heritage sites threatened as sea-level rise accelerates. *Nature Climate Change*, doi:10.1038/s41558-022-01280-1.
2. Tebaldi, C., Ranasinghe, R., **Vousdoukas, M.**, Rasmussen, D.J., Vega-Westhoff, B., Kirezci, E., Kopp, R.E., Sriver, R., Mentaschi, L. 2021. Extreme Sea Levels at Different Global Warming Levels. *Nature Climate Change*, 11, 746–751.
3. Almar, R., Ranasinghe, R., Bergsma, E.W. J., Diaz, H., Melet, A., Papa, F., **Vousdoukas, M.**, Athanasiou, P., Dada, O., Almeida, L.P., Kestenare, E., 2021. A global analysis of extreme coastal water levels with implications for potential coastal overtopping. *Nature Communications*, 12, 3775.
4. **Vousdoukas, M.I.**, Ranasinghe, R., Mentaschi, L., Plomaritis, T.A., Athanasiou, P., Luijendijk, A., Feyen, L., 2020. Sandy coastlines under threat of erosion. *Nature Climate Change* 10, 260-263.
5. **Vousdoukas, M.I.**, Mentaschi, L., Hinkel, J., Ward, P.J., Mongelli, I., Ciscar, J.-C., Feyen, L., 2020. Economic motivation for raising coastal flood defenses in Europe. *Nature Communications* 11, 2119.
6. Koks, E.E., Rozenberg, J., Zorn, C., Tariverdi, M., **Vousdoukas, M.**, Fraser, S.A., Hall, J.W., Hallegatte, S., 2019. A global multi-hazard risk analysis of road and railway infrastructure assets. *Nature Communications* 10, 2677.
7. Bevacqua, E., Maraun, D., **Vousdoukas, M.I.**, Voukouvalas, E., Vrac, M., Mentaschi, L., and Widmann, M., Higher potential compound flood risk in Northern Europe under anthropogenic climate change. *Science Advances* 5, eaaw5531.
8. **Vousdoukas, M.I.**, Mentaschi, L., Voukouvalas, E., Bianchi, A., Dottori, F., Feyen, L., 2018. Climatic and socioeconomic controls of future coastal flood risk in Europe. *Nature Climate Change* 8, 776–780.
9. **Vousdoukas, M.I.**, Mentaschi, L., Voukouvalas, E., Verlaan, M., Jevrejeva, S., Jackson, L.P., Feyen, L., 2018. Global probabilistic projections of extreme sea levels show intensification of coastal flood hazard. *Nature Communications* 9, 2360.