Georgy E Manucharyan

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EDUCATION	Ph.D., Atmosphere Ocean and Climate Dynamics,2014Department of Geology & Geophysics, Yale University, New Haven, CT, USA	
	B.S. with Honors in Applied Physics and Mathematics,2007Department of Aerophysics and Space Research,2007Moscow Institute of Physics and Technology, Dolgoprudny, Russia.2007	
RESEARCH EXPERIENCE	• Weston Howland Jr. Postdoctoral Scholar, WHOI 2014-present Research topics: "Arctic Ocean Halocline" and "Marginal-Ice-Zone Eddy Formation"	
	• Graduate Research Fellow, Yale University 2008–2014 PhD thesis: "The Role of Upper-Ocean Mixing in Large-Scale Ocean and Climate Dynamics". M. Phil thesis: "Ocean's Response to Tropical Cyclones".	
	• CLIVAR Carbon and Hydrographic Oceanography Cruise, R/V Melville (PO2) 2013 Research topic: "Oceanic Quasi-Geostrophic Currents and Mixed Layer Turbulence".	
	• Yale School of Engineering and Applied Science, Yale University 2012 Research Topic: "Markov Chain Representation of Chaotic Dynamical Systems".	
	• Geophysical Fluid Dynamics Independent Research Group 2010–2013 Depts of Applied Mathematics and Geology & Geophisics, Yale University. Research topic: "Steady rotating density currents on a slope".	
	• Geophysical Fluid Dynamics Summer School at WHOI – Fellow 2010 Research topic: "Dynamics of the Mixed Layers in Stratified Sheared Flows".	
	• Shirshov Institute of Oceanology, Moscow, Russia - Research Assistant 2005–2007 Research topic: "Ocean Data Assimilation Techniques".	
PUBLICATIONS • Manucharyan G.E. & A.V. Fedorov (2014), Robust ENSO across a wide range of <i>Journal of Climate</i> 27, 5836–5850.		
	• Manucharyan G.E., W. Moon, F. Sévellec, A.J. Wells, JQ. Zhong, & J.S. Wettlaufer (2014) Steady turbulent density currents on a slope in a rotating fluid, <i>Journal of Fluid Mechanics</i> , Vo 746, pp 405–436.	
	• Manucharyan G.E. & ML. Timmermans (2013), Generation and separation of mesoscale eddies from surface ocean fronts, <i>Journal of Physical Oceanography</i> , 43, 2545–2562.	
	• Manucharyan G.E., C.M. Brierley, & A.V. Fedorov (2011), Climate impacts of intermittent upper ocean mixing induced by tropical cyclones, <i>Journal of Geophysical Research</i> , 116, C11038.	
	• Manucharyan G.E. (2010), Dynamics of the Mixed Layers in Stratified Shear Flows, WHOI GFD Summer School, Ann. Proc. Vol. 2010, pp 240–259.	
	 Submitted (drafts available upon request) Manucharyan G.E. & C.P. Caulfield, Entrainment and mixed-layer dynamics of a surface-stress- driven stratified fluid, <i>Journal of Fluid Mechanics</i> (in review). 	
	 In preparation (drafts available upon request) Manucharyan G.E. & A.V. Fedorov, Impacts of tropical cyclones' vorticity forcing on large-scale oceanic circulation (in preparation) 	
	• Manucharyan G.E. & A.V. Fedorov, Walker circulation response to east-west SST gradients (in preparation).	

TEACHING EXPERIENCE	 Yale University Physical Oceanography – Teaching Assistant, Guest Lecturer Introduction to Concepts in Geology & Geophysics – Guest Lecturer Asymptotic Methods – Guest Lecturer Physics of Weather and Climate – Teaching Assistant. Atmosphere, Ocean, and Environmental Change – Laboratory Instructor. 	2010,11,13,14 2013 2012 2012 2012 2009
	 Physics & Technology Evening High School, Dolgoprudny, Russia Advanced Mathematics – Lecturer. Physics, Mathematics – Teaching Assistant. 	2007–2008 2004–2005
FELLOWSHIPS & AWARDS	Weston Howland Jr. Postdoctoral Scholar, Woods Hole Oceanographic Institution	2014
	Philip M. Orville Prize "For recognition of outstanding research and scholarship in the Earth Sciences", Yale University	2014
	Elias Loomis Prize for <i>"Excellence in Studies of Physics of the Earth"</i> , Department of Geology and Geophysics, Yale University.	2011
	Charlton Dows Cooksey Jr. Memorial Fellowship, Yale University.	2010 - 2012
	Geophysical Fluid Dynamics Fellowship, WHOI	Summer 2010
	Bateman Fellowship, Yale University.	2008
	Full Undergraduate Scholarship Moscow Institute of Physics and Technology, Dolgoprudny, Russia	2003-2007
CONFERENCES & WORKSHOPS	Geophysical Fluid Dynamics Summer School, WHOI, Woods Hole, MA.	2009-12,14
	Conference on Atmospheric and Oceanic Fluid Dynamics, Newport, RI Title: "Generation and Separation of Mesoscale Eddies from Surface Ocean Fronts"	2013
	65 th annual meeting of APS, Division of Fluid Dynamics, San Diego, CA Titles: "Entrainment and Mixing Dynamics of Surface-Stress-Driven Linearly Stratified Flow in a Cylinder"; "Steady Rotating Density Currents on a Slope".	2012
	American Geophysical Union Fall Meeting, San Francisco, CA Title: "Global Impacts of Intermittent Mixing Induced by Tropical Cyclones".	2011
	Ocean Science Meeting, Portland, OR.	2010
	Fundamental Problems in Climate Dynamics, PCTS, Princeton, NJ.	2009
SEMINARS	 "Generation and separation of mesoscale eddies from surface ocean fronts" University of Washington, Applied Physics Laboratory Woods Hole Oceanographic Institution, Physical Oceanography Department Courant Institute for Mathematical Sciences, CAOS University of Miami, Rosenstiel School of Marine and Atmospheric Science 	03/2014 10/2013 09/2013 11/2012
	• "Persistent ENSO in climates with reduced climatological SST gradients" Columbia University, Lamont-Doherty Earth Observatory	01/2014
	Princeton University, Program in Atmospheric and Oceanic Sciences	10/2013
	• "The influence of hurricanes on the large-scale oceanic circulation" MIT-WHOI Joint Program Student Seminar Yale University, Department of Geology & Geophysics	10/2014 10/2011
COLLABO- RATORS	Alexey Fedorov (Yale), Mary-Louise Timmermans (Yale), Andrew Wells (Oxford), laufer (Yale, Oxford), Colm-cille Caulfield (Cambridge), Jin-Qiang Zhong (Tongji Moon (Cambridge), Florian Sévellec (U. Southampton), Chris Brierley (U. Colle Michael Spall (WHOI).	U.), Woosok