Helvio Prevelato Gregório

Curriculum Vitæ

	Education
2010 - 2014	PhD. in Physical Oceanography, University of São Paulo, Oceanographic Institute.
2007 - 2009	MSc. in Physical Oceanography, University of São Paulo, Oceanographic Institute.
2002 - 2006	BSc. (W/Hons) in Oceanography, University of São Paulo, Oceanographic Institute.
	Relevant Professional Experience
2014 - actual	HP Gregorio Consultancy, Brazil/USA - remote, Environmental Consultant.
2011 - 2014	Mineral Engineering and Environmental, São Paulo, Brazil, Oceanographer.
2010 - 2010	Consortium GeoHidroEco, Bogotá, Colombia, Oceanographer.
2007 - 2011	Hidromares Environmental Assessment and Oceanography, Santos, Brazil, Oceanographer.
2007 - 2007	Applied Science Association South America, São Paulo, Brazil, Oceanographer.
	Relevant Research Experience
2004 - 2011	Laboratory of Coastal Hydrodynamic - University of São Paulo, Brazil:
	> Peregrino Environmental Monitoring and Calcareous Algae Project. Activities: Data Analysis. Fellowship: Statoil
	> Pro-Abrolhos Project. Activities: Data Analysis. Fellowship: Petrobras
	> Study of currents of Admiralty Bay, Antarctica, during the summer. Activities: Scientific Initiation. Fellowship: National Council for Research and Development - Brazil
	 Water Quality Modelling for Admiralty Bay Project, King George Island, Antarctica. Activities: 456 h scientific research in Brazilian Antarctic Estation Comandante Ferraz. Fellowship: National Council for Research and Development - Brazil
	 Water Quality Modelling for Admiralty Bay Project, South Sheetlands Islands, Antarctica. Activities: 275 h scientific research in Oceanographic Support Ship Ary Rongel/Brazil Navy. Fellowship: National Council for Research and Development - Brazil
	> Water Quality Modelling for Admiralty Bay Project, Antarctica. Activities: Scientific Initiation. Fellowship: National Council for Research and Development - Brazil
	> Deproas BR Project. Campos and Santos Basins, Brazi. Activities: 204 h in Oceano- graphic Ship W. Besnard. Fellowship: National Council for Research and Development - Brazil and Petrobras

	Skills
Languages	Portuguese (Native Speaker); English (advanced); Spanish (intermediate/advanced)
	Python, MatLab, Javascript, Google Apps Script, C/C++, Fortran, HTML, CSS, SQL
	Microsof Office, Google's Collaboration Suit, QuantumGIS, DEFT3D, SWAN, VisualPlumes, EcomSED
General	Designing and analyzing numerical models, covering hydrodynamics, water quality, oil, sediment, and waves. Specializing in environmental impact analysis and developing environmental programs with a focus on physical aspects. Proficient in metocean data analysis, visualization, and interpretation. Skilled in environmental risk analysis, emergency planning, and the preparation of technical reports about aquatic environments.
	Publication
PhD Diss.	Subinertial Oscillations in the South Brazil Bight: Numerical Studies (in portuguese)
MSc Thesis	Numerical Modeling of Sewage Plume Dispersion for the Santos Outfall (in portuguese)
UG Thesis	Study of Water Masses and Currents of Admiralty Bay, Antarctica, During the Summer (in portuguese)
Paper	Castro, B. M., Pereira, A. F. & Gregório, H. P. 2009. Virtual Oceans. Scientific American Brazil Special Edition, v. 3, p. 31-34. (in portuguese)
	Projects
Professional	With over 15 years of experience in the field, I have been involved in more than 100 projects throughout my career. My expertise spans a diverse range of projects, including scientific assessments, diagnoses, environmental modeling, licensing, and environmental monitoring. A comprehensive list of the projects that I have been involved in, responsibilities, and contractors can be viewed at https://en.hpgregorio.net/contributions.
Personal	> Guaecast: operational wave forecast system for Baixada Santista, São Sebastião and Ubatuba, SP, Brazil. Available at https://guaecast.hpgregorio.net.
	> When2board: Interactive historical analysis of wave, wind, and weather data to determine the best time of year for water sports around the world. Available at https://when2board.hpgregorio.net .
	Teaching and Lecture
2014	Lecture: Environmental Risk Management Related to Oil Spill - Oil Spill Brazil Conference & Exhibition - São Paulo, Brazil
2010	Short Course: Hydrodynamic and Dispersion Modelling Applied to Environmental Studies (12 h) - V Tematic Week of Oceanography - São Paulo, Brazil
2008	Short Course: Applied Physical Oceanography (12 h) - IV Brazilian Symposium of Oceanography - São Paulo, Brazil
2006	Short Course: Understanding Oceanography - Physical Oceanography (12 h) - I Tematic Week of Oceanography - São Paulo, Brazil
	Awards
2013	1st Place in MarinExplore Earth Day Data Challenge
2006	1st Place Undergraduate Thesis - Oceanographic Institute of University of São Paulo
ŝ	≫ +1 (504) 330 4564 • ⊠ helvio@hpgregorio.net • 🕆 hpgregorio.net