



Guy Wöppelmann

Nationality: German **Place of birth:** Paris, France

✉ **Email address:** guy.woppelmann@univ-lr.fr

🌐 **Website:** <https://lienss.univ-larochelle.fr/Woppelmann-Guy-1337>

📍 **Work:** 2 rue Olympe de Gouges, 17000 La Rochelle (France)

ABOUT ME

My research focuses on understanding how sea levels are changing along coastlines and how the land itself moves over time. To this end, I use a combination of satellite data, and tide gauges to gain a clearer picture of sea level rise and its causes. I am also involved in international scientific networks that monitor sea level and land motion around the world.

WORK EXPERIENCE

Professor

La Rochelle University [01/12/2012 – Current]

City: La Rochelle | Country: France

Associate Professor

La Rochelle University [01/12/2007 – 31/08/2012]

City: La Rochelle | Country: France

Assistant Professor

La Rochelle University [01/09/2002 – 30/11/2007]

City: La Rochelle | Country: France

ATER - Attaché Temporaire Enseignement & Recherche

La Rochelle University [01/10/2000 – 30/08/2002]

City: La Rochelle | Country: France

Engineer

Shom - Service Hydrographique et Océanographique de la Marine [01/01/1998 – 30/09/2000]

City: Brest | Country: France

HONOURS AND AWARDS

[12/07/2022]

Membre correspondant du Bureau des Longitudes

Link: <https://site.bdlg.fr/histoire>

[14/10/2019]

Académie de marine - Prix Navigation et sciences associées de l'océan (André Giret)

Link: <https://www.academiedemarine.fr/>

EDUCATION AND TRAINING

Master of Sciences in Astronomy, Celestial Mechanics, and Geodesy

Observatoire de Paris [01/09/1991 – 30/06/1992]

Country: France

PhD Thesis in Space Geodesy

Observatoire de Paris [01/10/1992 – 31/07/1997]

Country: France

Habilitation à diriger des recherches (HDR) in Geodesy & Sea Level

La Rochelle University [01/01/2007 – 31/12/2007]

Country: France

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

French

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Programming languages

Python / Experience in Matlab, and R / HTML / Markdown

Operating Systems

Linux / Windows

NETWORKS AND MEMBERSHIPS

[2025 – Current]

European Plate Observing System (EPOS) GNSS Thematic Core Service - Member of the Consortium Board

Link: <https://gnss-epos.eu/>

[2024 – Current]

International Federation of Surveyors (FIG) Commission 4 Hydrography - WG 4.5 "Towards more accurate measurement of sea level rise and vertical land motion for reliable prediction and adaptation in coastal regions"

Link: <https://www.fig.net/organisation/comm/4/index.asp>

[2024 – Current]

Copernicus Marine Service In Situ TAC (Multi-Year Sea Level Product)

[2022 – Current]

IOC/UNESCO Global Sea Level Observing System (GLOSS) program - Steering Committee

Link: <https://gloss-sealevel.org/>

[2021 – Current]

EuroGOOS Tide Gauge Task Team

Link: <https://eurogoos.eu/tide-gauge-task-team/>

[2011 – Current]

International GNSS Service (IGS) Working Group TIGA (Tide Gauge)

Link: <https://igs.org/wg/tiga/>

[2001 – Current]

IOC/UNESCO GLOSS program - Group of Experts

Link: <https://gloss-sealevel.org/>

[01/01/1996 – Current]

CNFGG - French counterpart of the IUGG (International Union of Geodesy and Geophysics)

Links: <https://site.cnfgg.fr/section-de-geodesie> | <https://iugg.org/>

PUBLICATIONS

[2024]

[Assessing Current Coastal Subsidence at Continental Scale: Insights From Europe Using the European Ground Motion Service](#)

Authors: Rémi Thiéblemont, Gonéri Le Cozannet, Robert J. Nicholls, Jérémy Rohmer, Guy Wöppelmann, et al. | Journal Name: Earth's Future

[2023]

[The ULR-repro3 GPS data reanalysis and its estimates of vertical land motion at tide gauges for sea level science](#)

Authors: Médéric Gravelle, Guy Wöppelmann, Kevin Gobron, et al. | Journal Name: Earth System Science Data

[2023]

[Extension of a high temporal resolution sea level time series at Socoa \(Saint-Jean-de-Luz, France\) back to 1875](#)

Authors: Md Jamal Uddin Khan, Inge Van Den Beld, Guy Wöppelmann, et al. | Journal Name: Earth System Science Data

[2021]

[Large-scale changes of the semidiurnal tide along North Atlantic coasts from 1846 to 2018](#)

Authors: Lucia Pineau-Guillou, Pascal Lazure, Guy Wöppelmann | Journal Name: Ocean Science

[2020]

[An experiment to test satellite radar interferometry-observed geodetic ties to remotely monitor vertical land motion at tide gauges](#)

Authors: M.S. Filmer, S.D.P. Williams, C.W. Hughes, G. Wöppelmann, et al. | Journal Name: Global and Planetary Change

[2019]

[Vertical land motion in the Southwest and Central Pacific from available GNSS solutions and implications for relative sea levels](#)

Authors: Valérie Ballu, Médéric Gravelle, Guy Wöppelmann, et al. | Journal Name: Geophysical Journal International

[2019]

[Assessment of Tide Gauge Biases and Precision by the Combination of Multiple Collocated Time Series](#)

Authors: Kevin Gobron, Olivier de Viron, Guy Wöppelmann, et al. | Journal Name: Journal of Atmospheric and Oceanic Technology

[2019]

[Vertical land motion and relative sea level changes along the coastline of Brest \(France\) from combined space-borne geodetic methods](#)

Authors: Cyril Poitevin, Guy Wöppelmann, Daniel Raucoules, et al. | Journal Name: Remote Sensing of Environment

[2017]

[Reassessment of 20th century global mean sea level rise](#)

Authors: Sönke Dangendorf, Marta Marcos, Guy Wöppelmann, et al. | Journal Name: Proceedings of the National Academy of Sciences of the United States of America.

[2017]

[Uncertainty of the 20th century sea-level rise due to vertical land motion errors](#)

Authors: Alvaro Santamaría-Gómez, Médéric Gravelle, Sönke Dangendorf, Marta Marcos, Giorgio Spada, Guy Wöppelmann | Journal Name: Earth and Planetary Science Letters

[2017]

[Why We Must Tie Satellite Positioning to Tide Gauge Data](#)

Authors: Philip Woodworth, Guy Wöppelmann, Marta Marcos, et al. | Journal Name: Eos science news magazine published by the American Geophysical Union

[2016]

[Vertical land motion as a key to understanding sea level change and variability](#)

Authors: Guy Wöppelmann, Marta Marcos | Journal Name: Reviews of Geophysics

[2015]

[Levelling co-located GNSS and tide gauge stations using GNSS reflectometry](#)

Authors: Alvaro Santamaría-Gómez, Christopher Watson, Médéric Gravelle, Matt King, Guy Wöppelmann | Journal Name: Journal of Geodesy

[2014]

[Rescue of the historical sea level record of Marseille \(France\) from 1885 to 1988 and its extension back to 1849–1851](#)

Authors: Guy Wöppelmann, Marta Marcos, A. Coulomb, et al. | Journal Name: Journal of Geodesy

[2013]

[Is land subsidence increasing the exposure to sea level rise in Alexandria, Egypt?](#)

Authors: Guy Wöppelmann, Gonéri Le Cozannet, Marcello de Michele, et al. | Journal Name: Geophysical Research Letters

[2012]

[Coastal sea level rise in southern Europe and the nonclimate contribution of vertical land motion](#)

Authors: Guy Wöppelmann, Marta Marcos | Journal Name: Journal of Geophysical Research

[2011]

[Global sea-level rise and its relation to the terrestrial reference frame](#)

Authors: Xavier Collilieux, Guy Wöppelmann | Journal Name: Journal of Geodesy

[2010]

[Land motion estimates from GPS at tide gauges: a geophysical evaluation](#)

Authors: Marie-Noëlle Boui, Guy Wöppelmann | Journal Name: Geophysical Journal International

[2009]

Isostatic stability of the East Antarctic station Dumont d'Urville from long-term geodetic observations and geophysical models

Authors: Martine Amalvict, Pascal Willis, Guy Wöppelmann, et al. | Journal Name: Polar Research

[2008]

The Van de Casteele Test Revisited: An Efficient Approach to Tide Gauge Error Characterization

Authors: Belén Martín Míguez, Laurent Testut, Guy Wöppelmann | Journal Name: Journal of Atmospheric and Oceanic Technology

[2008]

Tide gauge datum continuity at Brest since 1711: France's longest sea-level record

Authors: Guy Wöppelmann, Nicolas Pouvreau, Alain Coulomb, Bernard Simon, Philip L. Woodworth | Journal Name: Geophysical Research Letters

[2008]

The Use of Radar Tide Gauges to Measure Variations in Sea Level along the French Coast

Authors: Belén Martín Míguez, Ronan Le Roy, Guy Wöppelmann

[2007]

Geocentric sea-level trend estimates from GPS analyses at relevant tide gauges world-wide

Authors: Guy Wöppelmann, Belén Martín Míguez, Marie-Noëlle Bouin, Zuheir Altamimi | Journal Name: Global and Planetary Change

[2006]

The sea level at Port-aux-Français, Kerguelen Island, from 1949 to the present

Authors: Laurent Testut, Guy Wöppelmann, Bernard Simon et al. | Journal Name: Ocean Dynamics

[2006]

Brest sea level record: a time series construction back to the early eighteenth century

Authors: Guy Wöppelmann, Nicolas Pouvreau, Bernard Simon | Journal Name: Ocean Dynamics