

## 1. CV IN ENGLISH

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FIRST NAME: Guy

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PLACE OF BIRTH: Paris, France  
DATE OF BIRTH: September 22, 1968

### **Present Position**

Since 2012: Professor at the University of La Rochelle, France

### **Past Positions**

1998-2000: Engineer at the French hydrographic agency (SHOM, Brest)  
2000-2002: Lecturer at the University of La Rochelle  
2002-2007: Assistant professor at the University of La Rochelle  
2007-2012: Associate professor (HDR) at the University of La Rochelle  
2009-2012: Research assignment by the CNRS (INSU)

### **Education**

1986-1991: Bachelor in Sciences, University Bordeaux I  
1991-1992: Graduation in Astronomy, Celestial Mechanics and Geodesy, Observatoire de Paris  
1997: Ph. D. in Science, Observatoire de Paris  
2007: Habilitation thesis (Geodesy and sea level science), University of La Rochelle

### **Research interests**

Geodetic study of sea level change; Earth's surface motion; high-precision GNSS methods and applications, and satellite methods that can increase our knowledge in sea level changes and vertical land motion, such as satellite radar altimetry or interferometry of satellite aperture radar (InSAR) data; tide gauges: modern technologies and historical data; history of sciences and techniques; terrestrial reference systems: realization and performances in terms of accuracy; metrology.

### **Scientific and administrative responsibilities**

#### ***Past assignments***

**1995-2000:** Member of the working group EUVN from the sub-commission EUREF of the International Association of Geodesy  
**2000-2011:** Chair of the SONEL project (2000-2011), acknowledged as a scientific service of the INSU since 2011  
**2001-2011:** Member of the steering committee of the TIGA pilot project of the International GPS Service for Geodynamics  
**2003-2007:** Member of the committee of experts in Earth Sciences at University of La Rochelle  
**2004-2015:** National contact for the GLOSS program of the Intergovernmental Oceanographic Commission of UNESCO  
**2004-2006:** Secretary of the Geodetic section of the French committee for Geodesy and Geophysics (CNFGG)  
**2004-2008:** Invited member to the working group of the Bureau des Longitudes (Outcome: book "Les Observatoires").  
**2006:** Scientific organization of the national Geodesy and Geophysics (G2) conference at La Rochelle, 22-24 November 2006.  
**2008-2011:** Member of the Advisory committee of the laboratory UMR 6250 LIENSs (CNRS and University La Rochelle)  
**2009-2011:** Member of the Working Group on 'Regional Dense Velocity Fields' of IAG sub-commission 1.3 'Regional Reference Frames' from the Commission 1 on 'Reference Frames'  
**2013-2014:** Member of the selection boards for the professor positions in Earth Sciences at University of La Rochelle

#### ***Current assignments***

**2007-** : Member of the IAPSO Commission on Mean sea level and tides  
(IAPSO: International Association for the Physical Sciences of the Oceans)  
**2011-** : Director of the GNSS at tide gauge data assembly center (SONEL) of the GLOSS program (IOC/UNESCO)  
**2011-** : Member of the IGS tide gauge (TIGA) working group  
(IGS: International GNSS Service; formerly the International GPS Service for Geodynamics)  
**2012-** : Director of the Geosciences speciality of the Master Sciences for the Environment (SPE) at University of La Rochelle  
**2012-** : Chair of the science steering group of the GLOSS program

**Some numbers to conclude**

- Recipient of the 'Prime Encadrement Doctoral et Recherche' (2007-2011) and the 'Prime Excellence Scientifique' (2011-2015)
- Total of 46 articles in international peer-reviewed journals
  - 10 as lead-author
  - 5 with a PhD student under my direction as lead-author
- 14 peer-reviewed proceedings from conferences (out of a total of 40 proceedings)
- H-factor of 14 (Scopus)
- 640 citations according to Scopus
- 61 oral presentations at conferences
  - 15 invited (first author) at international conferences
  - 8 invited (first author) at national meetings
- 14 scientific seminars
- 6 contributions to chapters of books
- Supervision of 6 PhD students (incl. 2 in progress), and 16 trainees at Master level.

## 2. PERSONAL BIBLIOGRAPHY

### a) Articles in international peer-reviewed journals

1. Amalvict M., P. Willis, **G. Wöppelmann**, E. Ivins, M-N. Bouin, L. Testut, J. Hinderer, 2009. Stability of the East Antarctic station Dumont d'Urville from long-term time series of geodetic and geophysical observations. *Polar Research*, 28, 193-202, doi:10.1111/j.1751-8369.2008.00091.x.
2. André G., B. Martin Miguez, V. Ballu, L. Testut, **G. Wöppelmann**, 2013. Measuring sea level with GPS-equipped buoys: a multi-instruments experiment at Aix Island. *International Hydrographic Review*, 10, 27-38.
3. Bouin M-N. & **G. Wöppelmann**, 2010. Land motion estimates from GPS at tide gauges: a geophysical evaluation. *Geophysical Journal International*, 180, 193-209, 10.1111/j.1365-246X.2009.04411.x.
4. Collilieux X. & **G. Wöppelmann**, 2011. Global sea level rise and its relation to the terrestrial reference frame definition. *Journal of Geodesy*, 85, 9-22, doi:10.1007/s00190-010-0412-4.
5. Chaumillon E., X. Bertin, H. Falchetto, J. Allard, N. Weber, P. Walker, N. Pouvreau, **G. Wöppelmann**, 2008. Multi-time scale evolution of a wide estuary linear sandbank, the Longe de Boyard, Atlantic coast of France. *Marine Geology*, 251, 209-223.
6. Florsch N., M. Llubes, **G. Wöppelmann**, L. Longuevergne, J-P. Boy, 2009. Oceanic loading monitored by ground-based tiltmeters at Cherbourg (France). *Journal of Geodynamics*, 48, 211-218, doi:10.1016/j.jog.2009.09.017.
7. Gouriou T., B. Martin Miguez, **G. Wöppelmann**, 2013. Reconstruction of a two-century long sea level record for the Pertuis d'Antioche (France). *Continental Shelf Research*, 61-62, 31-40, doi:10.1016/j.csr.2013.04.028.
8. Le Cozannet G., M. Garcin, L. Petitjean, A. Cazenave, M. Becker, B. Meyssignac, P. Walker, C. Devilliers, O. Le Brun, S. Lecacheux, A. Baills, T. Bulteau, M. Yates, **G. Wöppelmann**, 2013. Exploring the relation between sea level rise and shoreline erosion using sea level reconstructions: an example in French Polynesia. *Journal of Coastal Research*, SI 65, 2137-2142, doi:10.2112/SI65-361.
9. Le Cozannet G., D. Raucoules, **G. Wöppelmann**, M. Garcin, S. Da Sylva, B. Meyssignac, M. Gravelle, F. Lavigne, 2015. Vertical ground motion and historical sea-level records in Dakar (Senegal). *Environmental Research Letters*, 10, doi:10.1088/1748-9326/10/8/084016.
10. Legrand J., N. Bergeot, C. Bruyninx, **G. Wöppelmann**, M-N. Bouin, Z. Altamimi, 2010. Impact of Regional Reference Frame Definition on Geodynamic Interpretations. *Journal of Geodynamics*, 49, 116-122, doi:10.1016/j.jog.2009.10.002.
11. Letetrel C., M. Marcos, B. Martin Miguez, **G. Wöppelmann**, 2010. Sea level variations in Marseille (NW Mediterranean) in 1885-2007: long term changes and extremes. *Continental Shelf Research*, 30, 1267-1274, doi:10.1016/j.csr.2010.04.003.
12. Letetrel C., M. Karoytchev, M-N. Bouin, M. Marcos, A. Santamaría-Gómez, **G. Wöppelmann**, *in press*. Estimation of vertical land movement rates along the coasts of the Gulf of Mexico over the past decades. *Continental Shelf Research*, doi:10.1016/j.csr.2015.10.018.
13. Llubes M., N. Florsch, J-P. Boy, M. Amalvic, P. Bonnefond, M.N. Bouin, S. Durand, M.F. Esnault, P. Exertier, J. Hinderer, M.F. Lalancette, F. Masson, L. Morel, J. Nicolas, **G. Wöppelmann**, 2008. Multi-technique monitoring of ocean tide loading in North of France. *C. R. Geoscience*, 340, 379-389, doi:10.1016/j.crte.2008.03.005.
14. Marcos M., **G. Wöppelmann**, W. Bosch, R. Savcenko, 2007. Decadal sea level trends in the Bay of Biscay from tide gauges, GPS and TOPEX. *Journal of Marine Systems*, 68, 529-536.
15. Marcos M., B. Puyol, **G. Wöppelmann**, C. Herrero i Navarro, M-J. García-Fernández, 2011. The long sea level record at Cadiz (Southern Spain) from 1880 to 2009. *Journal of Geophysical Research*, 116, C12003, doi:10.1029/2011JC007558.
16. Marcos M., B. Puyol, F.M. Calafat, **G. Wöppelmann**, 2013. Sea level changes at Tenerife Island (NE Tropical Atlantic) since 1927. *Journal of Geophysical Research*, 118, 4899-4910, doi:10.1029/2011JC007558.
17. Martin Miguez B., R. Le Roy, **G. Wöppelmann**, 2008. Coastal sea level observation with radar tide gauges: recent experiences so far in France. *Journal of Coastal Research*, 24, 61-68, doi:10.2112/06-0787.
18. Martin Miguez B., L. Testut, **G. Wöppelmann**, 2008. The van de Castele test revisited: an efficient approach to tide gauge error characterization. *Journal of Atmospheric and Oceanic Technologies*, 25(7), 1238-1244, doi:10.1175/2007JTECHO554.1.

19. Martin Miguez B., L. Testut, **G. Wöppelmann**, 2012. Performance of modern tide gauges: towards mm-level accuracy. *Scientia Marina*, 76, 221-228, doi: 10.3989/scimar.03618.18A.
20. Nahmani S., O. Bock, M-N. Bouin, A. Santamaría-Gómez, J-P. Boy, X. Collilieux, L. Métivier, I. Panet, P. Genthon, C. de Linage, **G. Wöppelmann**, 2012. Hydrological deformation induced by the West African Monsoon: a comparison of GPS, GRACE and loading models. *Journal of Geophysical Research*, 117, B05409, doi:10.1029/2011JB009102.
21. Palanisamy H., A. Cazenave, B. Meyssignac, L. Soudarin, **G. Wöppelmann**, M. Becker, 2014. Regional sea level variability, total relative sea level rise and its impacts on islands and coastal zones of Indian Ocean over the last sixty years. *Global and Planetary Change*, 116, 54-67, doi:10.1016/j.gloplacha.2014.02.001.
22. Pouvreau N., B. Martin Miguez, B. Simon, **G. Wöppelmann**, 2006. Evolution of the tidal semi-diurnal constituent M2 at Brest from 1846 to 2005. *C. R. Geoscience*, 338, 802-808, doi:10.1016/j.crte.2006.07.003.
23. Raucoules D., G. Le Cozannet, **G. Wöppelmann**, M. de Michele, A. Daag, M. Marcos, 2013. High nonlinear urban ground motion in Manila (Philippines) from 1993 to 2010 observed by DInSAR: implications for sea-level measurement. *Remote Sensing of Environment*, 139, 386–397.
24. Santamaría-Gómez A., M-N. Bouin, X. Collilieux, **G. Wöppelmann**, 2011. Correlated Errors in GPS Position Time Series: Implications for Velocity Estimates. *Journal of Geophysical Research*, 116, B01405, doi:10.1029/2010JB007701.
25. Santamaría-Gómez A., M. Gravelle, X. Collilieux, M. Guichard, B. Martín Míguez, P. Tiphaneau, **G. Wöppelmann**, 2012. Mitigating the effects of vertical land motion in tide gauge records using a state-of-the-art GPS velocity field. *Global and Planetary Change*, 98-99, 6-17, doi:10.1016/j.gloplacha.2012.07.007.
26. Santamaría-Gómez A., M. Gravelle, **G. Wöppelmann**, 2015. Long-term vertical land motion from double-differenced tide gauge and satellite altimetry data. *Journal of Geodesy*, 88, 207-222, doi:10.1007/s00190-013-0677-5.
27. Santamaría-Gómez A., C. Watson, M. Gravelle, M. King, **G. Wöppelmann**, 2014. Levelling co-located GNSS and tide gauge stations using GNSS reflectometry. *Journal of Geodesy*, 89, 241-258, doi: 10.1007/s00190-014-0784-y.
28. Testut L., **G. Wöppelmann**, B. Simon, P. Téchiné, 2006. The sea level at Port-aux-Français, Kerguelen Island, from 1949 to the present. *Ocean Dynamics*, 56, 464-472, doi:10.1007/s10236-005-0056-8.
29. Testut L., B. Martin Miguez, **G. Wöppelmann**, P. Tiphaneau, N. Pouvreau, M. Karpytchev, 2010. The sea level at Saint-Paul, Southern Indian Ocean, from 1874 to the present. *Journal of Geophysical Research*, 115, C12028, doi:10.1029/2010JC006404.
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31. Timofeev V.Yu, B. Ducarme, M. van Ruymbeke, P.Yu. Gornov, M. Everaerts, E.I. Gribanova, V.A. Parovyshnii, V.M. Semibalamut, **G. Wöppelmann**, D.G. Ardyukov, 2008. Transcontinental tidal transect: European Atlantic coast-Southern Siberia-Russian Pacific coast. *Izvestiya, Physics of the Solid Earth*, 44 (5), 388-400.
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33. Wahl, T., I. Haigh, P.L. Woodworth, F. Albrecht, D. Dillingh, J. Jensen, R.J. Nicholls, R. Weisse, **G. Wöppelmann**, 2013. Observed mean sea level changes around the North Sea coastline from 1800 to present. *Earth-Science Reviews*, 24, 51-67.
34. Woodworth P.L., T.F. Baker, G. Blewitt, C. Boucher, **G. Wöppelmann**, 1997. A European Network for Sea Level and Coastal Land Level Monitoring. *Journal of Marine Systems*, 13, 163-171.
35. Woodworth P.L., N. Pouvreau, **G. Wöppelmann**, 2010. The Gyre-Scale Circulation of the North Atlantic and Sea Level at Brest. *Ocean Science*, 6, 185-190.
36. Woodworth P.L., M. Gravelle, M. Marcos, **G. Wöppelmann**, C.W. Hughes, 2015. The status of measurement of the Mediterranean mean dynamic topography by geodetic techniques. *Journal of Geodesy*, 89, 811-827.
37. **Wöppelmann G.**, N. Pouvreau, B. Simon, 2006. Brest sea level record: a time series construction back to the early eighteenth century. *Ocean Dynamics*, 56, 487-497, doi 10.1007/s10236-005-0044-z.
38. **Wöppelmann G.**, S. Zerbini, M. Marcos, 2006. Tide gauges and Geodesy: a secular synergy illustrated by three present-day case studies. *C. R. Geoscience*, 338, 980-991, doi:10.1016/j.crte.2006.07.006.
39. **Wöppelmann G.**, B. Martin Miguez, M-N. Bouin, Z. Altamimi, 2007. Geocentric sea-level trend estimates from GPS analyses at relevant tide gauges world-wide. *Global and Planetary Change*, 57 (3-4), 396-406, doi 10.1016/j.gloplacha.2007.02.002.

40. **Wöppelmann G.**, M-N. Bouin, Z. Altamimi, 2008. Terrestrial reference frame implementation in global GPS analysis at TIGA ULR consortium. *Physics and Chemistry of the Earth*, 33, 217-224, doi 10.1016/j.pce.2006.11.001.
41. **Wöppelmann G.**, N. Pouvreau, A. Coulomb, B. Simon, P.L. Woodworth, 2008. Tide gauge datum continuity at Brest since 1711: France's longest sea-level record. *Geophysical Research Letters*, 35, L22605, doi:10.1029/2008GL035783.
42. **Wöppelmann G.**, C. Letetrel, A. Santamaría, M-N. Bouin, X. Collilieux, Z. Altamimi, S.D.P. Williams, B. Martin Miguez, 2009. Rates of sea-level change over the past century in a geocentric reference frame. *Geophysical Research Letters*, 36, L12607, doi:10.1029/2008GL038720.
43. **Wöppelmann G.** & M. Marcos, 2012. Coastal sea level rise in southern Europe and the non-climate contribution of vertical land motion. *Journal of Geophysical Research*, 117, C01007, doi:10.1029/2011JC007469.
44. **Wöppelmann G.**, G. Le Cozannet, M. de Michele, D. Raucoules, A. Cazenave, M. Garcin, S. Hanson, M. Marcos, A. Santamaría-Gómez, 2013. Is land subsidence increasing the exposure to sea level rise in Alexandria, Egypt? *Geophysical Research Letters*, 40, 2953–2957, doi:10.1002/grl.50568.
45. **Wöppelmann G.**, M. Marcos, A. Santamaría-Gómez, B. Martin Miguez, M-N. Bouin, M. Gravelle, 2014. Evidence for a differential sea level rise between hemispheres over the 20th century. *Geophysical Research Letters*, 41, 1639-1643.
46. **Wöppelmann G.**, M. Marcos, A. Coulomb, B. Martin Miguez, P. Bonnetain, C. Boucher, M. Gravelle, B. Simon, P. Tiphaneau, 2014. Rescue of the historical sea level record of Marseille (France) from 1885 to 1988, and its extension back to 1849-1851. *Journal of Geodesy*, 88, 869-885, doi:10.1007/s00190-014-0728-6.

**b) Proceedings with peer-review**

1. Adam J., W. Augath, F. Brouwer, G. Engelhardt, W. Gurtner, B.-G. Harsson, J. Ihde, D. Ineichen, H. Lang, J. Luthardt, M. Sacher, W. Schlüter, T Springer, G. Wöppelmann, 2000. Status and development of the European height systems. In *Geodesy beyond 2000. The challenges of the first decade*. Springer, Schwartz (Ed.), 121, 55-60.
2. Ballay A., B. Simon, **G. Wöppelmann**, 2002. Towards a globally consistent nautical chart datum definition in France. In *Vertical Reference Systems*, Springer, Drewes et al (Ed.), 124, 270-275.
3. Bertin X., E. Chaumillon, N. Pouvreau, G. Wöppelmann, 2006. Modélisations hydrodynamiques sur bathymétries anciennes : une alternative possible aux modélisations morphodynamiques à long terme ? IXièmes Journées Génie Côtier – Génie Civil, Brest, 12-14 septembre 2006, Tome 2, 349-356.
4. Bruyninx C., Z. Altamimi, M. Becker, M. Craymer, L. Combrinck, A. Combrink, J. Dawson, R. Dietrich, R. Fernandes, R. Govind, T. Herring, A. Kenyeres, R. King, C. Kreemer, D. Lavallée, J. Legrand, L. Sánchez, G. Sella, Z. Shen, A. Santamaria-Gomez, G. Wöppelmann, 2012. A Dense Global Velocity based on GNSS Observations: Preliminary Results. *International Association of Geodesy Symposia 136*, 19-26, doi:10.1007/978-3-642-20338-1\_3.
5. Bruyninx C., J. Legrand, Z. Altamimi, M. Becker, M. Craymer, L. Combrinck, A. Combrinck, J. Dawson, R. Dietrich, R. Fernandes, R. Govind, T. Herring, A. Kenyeres, R. King, C. Kreemer, D. Davallée, L. Sánchez, G. Sella, Z. Shen, A. Santamaria-Gomez, **G. Wöppelmann**, 2013. IAG SC1.3 Working Group on Regional dense velocity fields: First results and steps ahead. *International Association of Geodesy Symposia*, 138, 137-145, doi:10.1007/978-3-642-32998-2\_22.
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8. Ihde J., J. Adam, W. Gurtner, B.-G. Harsson, W. Schlüter, **G. Wöppelmann**, 1998. The European Vertical GPS Reference Network Campaign 1997 – Concept and Status. In *Advances in Positioning and reference frames*, Springer, Brunner (Ed.), 118, 27-34.
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**c) Proceedings without peer-review**

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6. Ihde J., J. Adam, W. Gurtner, B.-G. Harsson, W. Schlüter, **G. Wöppelmann**, 2002. The concept of European Vertical GPS Reference Network (EUVN). In *EUREF Symposium*, 25, 11-22.
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