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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 at Observatoire de Paris (France)
1997: Ph. D. in Science, Observatoire de Paris (France)
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 satellite geodesy methods and applications that can increase our knowledge in sea level changes and vertical land motion, such as GNSS (GPS) or satellite radar altimetry; 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
2004-2014: 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: Organizer 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 two professor positions in Earth Sciences at University of La Rochelle
2013-2018: Co-chair and chair (2015) of the Sea level rise session at the EGU General Assembly in Vienna, Austria.

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 programme (IOC/UNESCO)

Other external visibility indicators

Following my achievements in the area of GPS data analysis and its application to sea level science, I was solicited:

- to participate in the reanalysis campaign of the International GNSS Service in 2009 (repro1), then in 2012 (repro2).
- to participate in the meeting organized in 2010 at the university of Hawai'i by the IOC/UNESCO, which led to SONEL being recognized as the GNSS at tide gauges data assembly centre for the GLOSS programme.
- to apply for a professorship position at the University of Montpellier in 2011, which led the university of La Rochelle to open an equivalent position (which I got in 2012).
- to participate in dedicated workshops for reviews of my area of expertise (e.g., ISSI Workshop in Bern, 2018), but also in summer schools (e.g., GRGS), and in chairing and co-chairing the sea level session at EGU since 2015.
- to review manuscripts in the different areas of sea level science, including space geodesy, for peer-reviewed journals (36 over the past 5 years in journals such as Geophysical Research Letters, Journal of Geophysical Research, Journal of Geodesy, Marine Geodesy, Nature, Ocean Science, Remote Sensing of Environment).
- to participate in doctoral (8) and 'Habilitation à Diriger des Recherches' or HDR (4) defences since 2013.

In addition:

- a CNRS researcher from the IPGP moved to our lab in 2012, so that she could benefit from the development of the SONEL infrastructure and in turn expand our research activities.
- similarly, an associate professor (Physicien adjoint HDR du CNAP) from the University of Toulouse asked to be assigned to our labo in 2014, and succeeded since 2014
- Recipient of the 'Prime Excellence Scientifique' (2011-2015)
- Recipient of the 'Prime Encadrement Doctoral et Recherche' (2017-2021)

Other metrics of external visibility

- Scopus H-factor = 19 ; Web of Science H-factor = 19; ResearchGate score = 31.51
- 1302 citations according to Scopus; 1171 (Web of Science); 1565 (ResearchGate)
- Total of 54 articles in international peer-reviewed journals
 - 11 as lead-author
 - 7 with a PhD student under my supervision as lead-author
- 14 peer-reviewed proceedings from conferences (out of a total of 40 proceedings)
- 72 oral presentations at conferences
 - 19 invited at international conferences
 - 8 invited at national meetings
- 16 scientific seminars
- 7 contributions to chapters of books
- Supervision of 6 PhD students (incl. 1 in progress), and 18 trainees at Master level.

Funded projects

Past 5 years

- CECILE project (2010-2013) funded by the French Research Funding Agency (ANR). PI of the University La Rochelle partner with 156 k€ out of 850 k€.
- GPS4SeaLevelS project (2014-2017) funded by the European Research Agency (International Outgoing Fellowship). Supervisor and PI of the return lab with 277k€ including the salary of the postdoc for the 3 years.
- SONEL project funded by the INSU Ocean and Atmosphere Division. Co-I with 40k€/year.
- RENAG project funded by INSU Solid Earth Division. Co-I with 8k€/year.

Current

- CNES/TOSCA project (2016-2017) funded by the French Space Agency (CNES). PI with 18k€.
- STORISK project (2015-2020) funded by the French Research Agency (ANR). Co-I with 57k€.
- GEODESIE project (2017-2020) by the French Research Agency (ANR). Co-I with a shared postdoc (3-6 months).
- InSeaPTION project (2017-2020) by the European Research Agency (ERA4CS). Co-I with 25k€.
- SONEL project funded by INSU via ILICO Research Infrastructure. Co-I with 40k€/year.
- RENAG project funded by INSU via RESIF Research Infrastructure. Co-I with 8€/year.

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.
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.
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.
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. Dangendorf S., M. Marcos, **G. Wöppelmann**, C. Conrad, T. Frederikse, R. Riva, 2017. Reassessment of 20th century global mean sea-level rise. *Proc. Natl. Acad. Sci. USA*, 114, 5946-5951.
7. 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.
8. 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.
9. 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 Res.*, 65, 2137-2142.
10. 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.
11. 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.
12. 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.
13. Letetrel C., M. Karoytchev, M-N. Bouin, M. Marcos, A. Santamaría-Gómez, **G. Wöppelmann**, 2015. Estimation of vertical land movement rates along the coasts of the Gulf of Mexico over the past decades. *Continental Shelf Research*, 111, 42-51.
14. Llubes M., N. Florsch, J-P. Boy, M. Amalvic, P. Bonnefond, M.N. Bouin, S. Durand, M.F. Esnoult, 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. Martin Miguez B., L. Testut, **G. Wöppelmann**, 2008. The van de Casteele test revisited: an efficient approach to tide gauge error characterization. *Journal of Atmospheric and Oceanic Technologies*, 25(7), 1238-1244.
20. Martin Miguez B., L. Testut, **G. Wöppelmann**, 2012. Performance of modern tide gauges: towards mm-level accuracy. *Scientia Marina*, 76, 221-228.

21. 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.
22. 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.
23. Poirier C., B. Tessier, E. Chaumillon, X. Bertin, M. Fruergaard, D. Mouazé, S. Noël, P. Weill, **G Wöppelmann** (2017). Decadal changes in North Atlantic atmospheric circulation patterns recorded by sand spits since 1800 CE. *Geomorphology*, 281, 1-12.
24. 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.
25. 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.
26. Sakic P., V. Ballu, W.C. Crawford, **G. Wöppelmann**, 2018. Acoustic ray tracing comparisons in the context of geodetic precise off-shore positioning experiments. *Marine Geodesy*, 41, 315-330.
27. 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.
28. Santamaría-Gómez A., M. Gravelle, X. Collilieux, M. Guichard, B. Martín Miguez, 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.
29. 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.
30. 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.
31. Santamaría-Gómez A., M. Gravelle, S. Dangendorf, M. Marcos, G. Spada, **G. Wöppelmann**, 2017. Uncertainty of the 20th century sea-level rise due to vertical land motion errors. *Earth and Planetary Science Letters*, 473, 24-32.
32. Testut L., **G. Wöppelmann**, B. Simon, P. Téchiné, 2006. The sea level at Port-aux-Francais, Kerguelen Island, from 1949 to the present. *Ocean Dynamics*, 56, 464-472.
33. 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.
34. Timofeev V.Yu, M. van Ruymbeke, **G. Wöppelmann**, M. Everaerts, E.A. Zapreeva, P.Yu. Gornov, B. Ducarme, 2006. Tidal Gravity Observations in Eastern Siberia and along the Atlantic coast of France. *Journal of Geodynamics*, 41, 30-38.
35. 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.
36. Vey S., E. Calais, M. Llubes, N. Florsch, **G. Wöppelmann**, J. Hinderer, M. Amalvict, B. Simon, MF. Lalancette, F. Duquenne and J.S. Haase, 2002. GPS measurements of ocean loading and its impact on zenith tropospheric delay estimates: a case study in Brittany, France. *Journal of Geodesy*, 76, 419-427.
37. 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.
38. Walpersdorf, A., *et al.* in press. Does long-term GPS in the Western Alps finally confirm earthquake mechanisms? *Tectonics*, accepted August 31, 2018, doi:10.1029/2018TC005054.
39. WCRP Global Sea Level Budget Group, 2018. Global sea-level budget 1993-present. *Earth System Science Data*, 10, 1551-1590, doi:10.5194/essd-10-1551-2018.
40. 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.
41. 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.

42. 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.
43. Woodworth P.L., **G. Wöppelmann**, M. Marcos, M. Gravelle, R. M. Bingley, 2017. Why we must tie satellite positioning to tide gauge data. *Eos, Earth and Space News*, 98 (4), 13-15.
44. **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.
45. **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.
46. **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.
47. **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.
48. **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.
49. **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.
50. **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.
51. **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.
52. **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.
53. **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.
54. **Wöppelmann G.** & M. Marcos, 2016. Vertical land motion as a key to understanding sea level change and variability. *Reviews of Geophysics*, 54, 64-92.

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.

6. Chaumillon E., **G. Wöppelmann**, M. Karpytchev, X. Bertin, 2011. Mesures et modélisations des évolutions du niveau marin, des vagues, des tempêtes et des évolutions des littoraux pour une gestion durable des littoraux. *Vertigo, Hors-série 9*, Juillet 2011, <http://vertigo.revues.org/10947> (Revue électronique en sciences de l'environnement).
7. Gaufrès P., F. Sabatier, G. Wöppelmann, 2008. Extreme storm surge distributions and practical applications at Marseilles (France). *Oceanis*, 34 (1/2), 47-57.
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.
9. Le Cozannet G., D. Raucoules, **G. Wöppelmann**, M. De Michele, A. Poupardin, 2014. InSAR monitoring of ground motions impacts for in-situ sea level measurement: The example of Dakar (Senegal). IEEE International Geoscience and Remote Sensing Symposium, 970-973, doi:10.1109/IGARSS.2014.6946588.
10. Legrand J., N. Bergeot, C. Bruyninx, **G. Wöppelmann**, A. Santamaría-Gómez, M-N. Bouin, Z. Altamimi, 2012. Comparison of regional and global GNSS positions, velocities and residual time series. *International Association of Geodesy Symposia*, 136, 95-104, doi:10.1007/978-3-642-20338-1_12.
11. Poitevin C., **G. Wöppelmann**, D. Raucoules, G. Le Cozannet, L. Testut, 2018. Evaluation des mouvements verticaux du sol et des tendances relatives du niveau de la mer le long du littoral de Brest (France): apport de la télédétection. Actes des XV^e Journées Nationales Génie Côtier– Génie Civil, La Rochelle, 29-31 mai 2018, pp. 381-390, doi:10.5150/jngcgc.2018.043.
12. Santamaría-Gómez A., M-N. Bouin, **G. Wöppelmann**, 2012. Improved GPS data analysis strategy for tide gauge benchmark monitoring. *International Association of Geodesy Symposia*, 136, 11-18, doi:10.1007/978-3-642-20338-1_2.
13. Santamaria-Gomez A., M-N. Bouin, X. Collilieux, **G. Wöppelmann**, 2013. Time-correlated GPS noisy dependency on data time period. *International Association of Geodesy Symposia*, 138, 119-124, doi:10.1007/978-3-642-32998-2_19.
14. **Wöppelmann G.**, M-N. Bouin, Z. Altamimi, L. Daniel, S. McLellan, 2004. Current GPS data analysis at CLDG for the IGS TIGA Pilot Project. In *Cahiers du Centre Européen de Géodynamique et de Séismologie*, 23, 149-154.
15. **Wöppelmann G.**, 2014. Evolution récente du niveau de la mer et le Service d'observation SONEL. In *Les littoraux à l'heure du changement climatique*, Eds. E. Chaumillon, E. Garnier, T. Sauzeau, Les indes savantes, 75-90.

c) Proceedings without peer-review

1. Adam J., W. Gurtner, B. Harsson, J. Ihde, W. Schlüter, **G. Wöppelmann**, 1997. European vertical GPS reference network EUVN. Concept, status and plans. In IGS Proceedings Workshop on methods for monitoring sea level, 165-168.
2. Amalvict M., R. Bayer, S. Bonvalot, N. Debeglia, M. Diament, F. Duquenne, H. Duquenne, G. Gabalda, J. Hinderer, M.F. Lalancette, N. Lemoigne, B. Luck, G. Martelet, D. Remy, M. Sarrailh, **G. Wöppelmann**, 2007. French activities in ground gravimetry during the period 2003-2006. In CNFGG report to the IUGG XXIVth General Assembly, Peruggia, Italy, 2-13 July 2007, 65-96.
3. Donato V., N. Pouvreau, L. Testut, T. Donal, A. Coulomb, J-P. Barriot, **G. Wöppelmann**, 2015. National report of France. XVth GLOSS Group of Experts Meeting, Goa (India), 19-23 October 2015, 14 pp.
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