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# Médéric Gravelle

**Work** : Institut du Littoral et de l'Environnement, 2, rue Olympe de Gouges, 17000, La Rochelle, France

**Email:** mederic.gravelle@univ-lr.fr

**Date of birth:** 03/08/1987 **Place of birth:** La Roche sur Yon, France **Nationality:** French

## ABOUT ME

I am a CNRS research engineer at the LIENSs laboratory (LIttoral ENvironnement et Sociétés, UMR 7266) in La Rochelle, France. My work focuses on geodesy, particularly the analysis of GPS data, tide gauge records, vertical land motion, and sea-level variations. I contribute to the SONEL infrastructure, which collects and distributes coastal sea-level observations, integrating continuous GNSS measurements to correct for vertical land movements and improve the accuracy of sea-level trend estimates.

## WORK EXPERIENCE

[ 01/10/2010 – Current ]

### Research engineer

***CNRS***

**City:** La Rochelle | **Country:** France

- Product manager of the SONEL Observing System
- Head of ULR GNSS analysis center: development of GNSS velocity fields from coastal stations

## EDUCATION AND TRAINING

[ 01/09/2007 – 30/09/2010 ]

### Engineer in Geodesy

***National School in Geographical Sciences (ENSG)*** https://ensg.eu

**City:** Champs sur Marne | **Country:** France | | **Level in EQF:** EQF level 7

## SKILLS

Python (computer programming) | GIT version control, Linux Command | geodesy | GNSS, Terrestial Surveying | DATA ANALYST

## LANGUAGE SKILLS

**Mother tongue(s):** French

**Other language(s):**

### English

**LISTENING** B2 **READING** C1 **WRITING** B2

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

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

## NETWORKS AND MEMBERSHIPS

[ 10/10/2023 – Current ] **GNSS-IR Working Group of the IAG Inter-Commission Committee on Geodesy for Climate Research**

[ 01/10/2010 – Current ] **International GNSS Service (IGS) Associate Member**

[ 01/10/2010 – Current ] **IGS TIGA Working Group Member**

[ 01/10/2010 – Current ] **RENAG Observing System**

[ 01/10/2010 – Current ] **SONEL Observing System**

## CONFERENCES AND SEMINARS

[ 11/12/2023 – 15/12/2023 ] **American Geophysical Union (AGU)** San Francisco (USA)

Chair of the Geodesy session: "Integration of GNSS into Water Level Observation Networks: Priorities, Technologies, and Benefits"

[ 12/01/2021 – 14/01/2021 ] **EuroSea Tide Gauge Network workshop** Remote

Keynote speaker

[ 07/12/2019 – 11/12/2019 ] **American Geophysical Union (AGU)** Washington DC (USA)

Co-chair of the Geodesy session: "Integration of GNSS into Water Level Observation Networks: Priorities, Technologies, and Benefits"

[ 15/04/2019 – 17/04/2019 ] **IGS Analysis Center Workshop** Potsdam (Germany)

[ 10/12/2018 – 14/12/2018 ] **American Geophysical Union (AGU)** San Francisco (USA)

Co-chair of the Geodesy session: "Integration of GNSS into Water Level Observation Networks: Priorities, Technologies, and Benefits"

[ 29/10/2018 – 02/11/2018 ] **IGS Workshop** Wuhan (China)

[ 03/07/2017 – 07/07/2017 ] **IGS Workshop** Paris (France)

[ 21/10/2015 – 23/10/2015 ] **GLOSS Group of Experts Meeting** Goa (India)

[ 19/10/2015 – 21/10/2015 ] **Indian Ocean Sea Level Science Workshop** Goa (India)

Keynote speaker

[ 28/10/2013 – 01/11/2013 ] **GLOSS Group of Experts Meeting** Liverpool (UK)

[ 23/07/2012 – 27/07/2012 ] **IGS Workshop** Olztyn (Poland)

[ 05/12/2011 – 09/12/2011 ] **American Geophysical Union (AGU)** San Francisco (USA)

Invited talk

[ 09/11/2011 – 11/11/2011 ] **GLOSS Group of Experts Meeting** Paris (France)

## PUBLICATIONS

[ 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, Zuheir Altamimi, Mikaël Guichard, Thomas Herring, and Paul Rebischung | **Journal Name**: Earth System Science Data | **Volume, Issue and Pages**: 15, 497-509 | **Publisher**: Copernicus

[ 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, Olivier de Viron, Paul Rebischung, Mélanie Becker, Pierre Sakic | **Journal Name**: Geophysical Journal International | **Volume, Issue and Pages**: 218, 3, 1537–1551 | **Publisher**: Oxford Academic

[ 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 | **Volume, Issue and Pages**: 473, 24-32 | **Publisher**: Elsevier

[ 2015 ] **Levelling co-located GNSS and tide gauge stations using GNSS reflectometry**

**Authors**: Alvaro Santamaría-Gómez, Christopher Watson, Médéric Gravelle, Matt King, Guy Wöppelmann | **Volume, Issue and Pages**: 89, 241–258 | **Publisher**: Springer Nature

[ 2012 ] **Mitigating the effects of vertical land motion in tide gauge records using a state-of-the-art GPS velocity field**

**Authors**: A. Santamaría-Gómez, M. Gravelle, X. Collilieux, M. Guichard, B. Martín Míguez, P. Tiphaneau, G. Wöppelmann | **Journal Name**: Global and Planetary Change | **Volume, Issue and Pages**: 98-99, 6-17 | **Publisher**: Elsevier