

January 2025

## ANNY CAZENAVE - CURRICULUM VITAE

### Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS)

#### Centre National d'Etudes Spatiales (CNES)

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[anny.cazenave@academie-sciences.fr](mailto:anny.cazenave@academie-sciences.fr)

<https://www.academie-sciences.fr/fr/Liste-des-membres-de-l-Academie-des-sciences/-/C/anny-cazenave.html>

### EDUCATION

Ph.D Thesis (Doctorat d'Etat, 1975) in Geophysics (Rotation of the Earth), University of Toulouse, France

### CURRENT POSITION

Emeritus scientist at LEGOS/CNES, Toulouse, France

### PROFESSIONAL EXPERIENCE

Director for Earth Sciences at the *International Space Science Institute* (ISSI), Bern, Switzerland (2013-2021).

Research scientist at LEGOS/CNES; Deputy Director of LEGOS between 1996 and 2007 and head of the group '*Géophysique, Océanographie et Hydrologie Spatiales*' at LEGOS until 2009.

Professor at the Collège de France, Annual Chair '*Développement Durable- Environnement, Energie et Société*' (2012-2013)

### RESEARCH INTERESTS

Applications of Earth observations from space to:

**Satellite geodesy and solid Earth geophysics:** Gravity field; Earth rotation and polar motion; tides; precise positioning by space geodesy techniques and applications to tectonic motions, vertical crustal motions, geocenter motions; marine geophysics, lithosphere & mantle properties.

**Climate research:** Sea level variations at global, regional and local scales (observations from satellite altimetry and tide gauges; study of climatic causes: ocean thermal expansion, land ice melt, land water storage change, projections); global water cycle and land hydrology from space.

### PUBLICATIONS (LISTED IN ANNEX)

265+ articles in peer-reviewed international journals (ISI Web of Sciences, January 2025: 18 900 citations,  $H_{index}$  69).

Editor of 12 books, including : (1) 'Global Change in Africa; role of space observations', Cazenave et al., Edts, Space science series of ISSI, Springer, 2023; (2) 'Probing the Earth's deep interior using in synergy observations of the Earth's gravity and magnetic fields, and of the Earth rotation', Dehant, Manda, Cazenave et al., eds, Space science series of ISSI, Springer, 2023; (3) 'Geohazards and Risks Studied from Earth Observations', Lopez, Cazenave et al., eds, Space science series of ISSI, Springer, 2021; (4) 'Coastal Sea Level and Open Ocean Processes', Cazenave et al. eds, Space science series of ISSI, Springer, 2020; (5) 'Measurement of Forest Properties for Carbon Cycle Research', Cazenave et al. eds, Space science series of ISSI, Springer, 2019; (6) 'Satellite altimetry over oceans and land surfaces', Stammer & Cazenave editors, Earth observation of global changes book series, CRC Press, 2018; (7) 'Integrative study of the global mean sea level and its components' Cazenave et al. editors, Space science series of ISSI, Springer, 2017; (8) 'Remote sensing and Water Resources', Cazenave et al. editors, Space science series of ISSI, Springer, 2016; (9) 'Satellite Altimetry and Earth Sciences. A

handbook of Techniques and Application, Fu & Cazenave editors, Academic Press, International Geophysics Series, Vol. 69, San Diego, USA, 2001’).

Author/co-author of popular books: ‘*Formes et Mouvements de la Terre*’, Belin Editions, Paris, 1994 (with Kurt Feigl); ‘*La Terre vue de l’espace*’, Belin Editions, Paris, 2004 (with D. Massonnet); ‘*La Terre et l’environnement observés depuis l’espace*’, Collège de France/Fayard, 2013.

## INTERNATIONAL RESPONSIBILITIES

### *Current/recent*

- Vice chair, ERC (*European Research Council*) Synergy Grant evaluation panel (2023-2024 and 2021-2022)
- Member of the Earth sciences panel of the ESSC (*European Space Science Committee*) of the European Science Foundation (2020-2026)
- Member of the Scientific Advisory Panel for the National Sea Level Programme, Centre for Climate Research, Singapore (2019- )
- Member of the “Scientific Advisory Board” of the “Centre for Earth Evolution and Dynamics”, Oslo University (2018-2023)
- Member of the panel « Assessment of Partnership Options for a Small Satellite System for Collecting Scientific Quality Oceanic and Coastal Data », NRC (*National Research Council, The National Academies, USA*) (2021-2022)
- President, Geodesy Section, AGU (*American Geophysical Union*) (2021-2022)
- Director for Earth sciences at ISSI (*International Space Science Institute*), Bern, Switzerland (2013-2021)
- Member of the Advisory Committee of ‘*Future Earth*’ (2018-2020)
- Member of the evaluation panel ‘Research excellence of NERC’s Research Centres’, NERC (UK) (2020)
- Member of the panel “Geodetic Infrastructure”, NRC (*National Research Council, The National Academies, USA*) (2017-2020)

### *Previously*

- Member (‘Officer’) of the ‘Joint Scientific Committee’ of WCRP (*World Climate Research Programme*) (2013-2018)
- Member of the panel “Strategic NASA Science Missions”, NRC (*National Research Council, The National Academies, USA*) (2016-2017)
- Member of the ‘C. Whitten Medal Committee’, AGU (*American Geophysical Union*) (2014-2018)
- Member of the IPCC (*Intergovernmental Panel on Climate Change*): ‘Lead Author’, ‘Sea Level’ chapter, 5<sup>th</sup> Assessment Report, Working Group I (2010-2013)
- Member of the IPCC (*Intergovernmental Panel on Climate Change*): ‘Lead Author’, ‘Sea Level’ chapter, 4<sup>th</sup> Assessment Report, (2004-2007)
- Member of the ‘Earth System Sciences’ panel, (Advanced Grants), ERC (*European Research Council*) (2008-2015)
- Member of the ‘Scientific Advisory Committee’, ‘Centre for Climate Dynamics’, Bergen University, Norway (2011-2013)
- Member of the Scientific Council of ISSI (*International Space Science Institute*) (2010-2013)
- Member of the panel ‘NASA Earth sciences program assessment’, NRC (*National Research Council, The National Academies, USA*) (2011-2012)
- Member of the Steering Committee of GCOS (*Global Climate Observing System*) (2009-2012)
- Member of the ‘Revelle Medal Committee’, AGU (*American Geophysical Union*) (2011-2012)
- Member of the evaluation committee of the Hadley Center/MetOffice, UK (2007-2010)
- Member of the Scientific Council of GGOS (*Global Geodetic Observing System*), International Association of Geodesy (2006-2011)
- Member of the panel ‘Space Geodetic Infrastructures’, NRC (*National Research Council, The National Academies, USA*) (2008-2010)

- ‘Chair’ of the ‘Committee on International Award’, AGU (*American Geophysical Union*) (2007-2010)
- ‘International Secretary’ of the AGU (*American Geophysical Union*) (2002-2006)
- ‘Chair’ of the ‘Committee on International Participation’, AGU (*American Geophysical Union*) (2002-2006)
- Member of the panel ‘Water Resources and the Global Hydrological Cycle’; ‘Earth Science and Applications from Space’, ‘Decadal Survey’, NRC (*National Research Council, The National Academies, USA*) (2005-2007)
- Member of the Steering Committee ‘Understanding Sea Level Rise and Variability’, WCRP (World Climate Research Program) (2005-2006)
- Member of the ‘Climate Change’ panel, AGU (*American Geophysical Union*) (2003)
- Member of the ‘Solid Earth Committee’, NRC (*National Research Council, The National Academies, USA*) (2004-2005)
- ‘Chair’ of the ‘Geodesy Section’ of the EGS (*European Geophysical Society*) (2000-2004)
- Member of the ‘Whitten Medal Committee’, AGU (*American Geophysical Union*) (2000-2002)
- Member of the European Space Science Committee, ESF (*European Science Foundation*) (1997-2000)
- Member of the ‘Union Fellow Committee’, AGU (*American Geophysical Union*) (1997-1999)
- Chair of the ‘Earth gravity field’ Working Group, IAG (*International Association of Geodesy*) (1995-1999)
- Member of the ‘Macelwane Award Committee’, AGU (*American Geophysical Union*) (1992-1994 ; 1994-1996)
- Member of the European Space Science Committee, ESF (*European Science Foundation*) (1986-1989)
- Member of the SSWG (*Solar System Working Group*), European Space Agency (1979-1982)

#### **NATIONAL RESPONSABILITIES**

*Since 1990 only*

- Member of the ‘Haut Conseil des Tres Grandes Infrastructures de Recherche –HC TGIR- of the French Ministry of Research (2020-2022).
- Member of the ‘Comite d’Orientation Scientifique’ of the Toulouse 3 University (2020-2022)
- Expert, Institut des Hautes Etudes de Défense Nationale (2020)
- Member of the ‘Comité d’Orientation Stratégique’, IRD (*Institut de Recherche pour le Développement*) (2016-2020)
- Member of the Advisory Committee of Météo-France (2015-2019)
- Member of the ‘Conseil Supérieur des Programmes’ (Ministry of Education) (2013-2016)
- Chair of the scientific committee (COMSI) of Météo-France (2012-2015)
- Member of the Scientific Committee of the ‘Ecole Supérieure d’Agriculture de Purpan’ (2012-2016)
- Member of the Advisory Committee of CNRS (Centre National de la Recherche Scientifique) (2008-2015)
- Member of the Scientific Committee of the ‘Ecole Polytechnique’ (2014-2016)
- Chair of the Scientific Committee of the ‘Agence de l’Eau Adour-Garonne’ (2010-2013)
- Member of the Scientific Committee of the ‘Institut Océanographique de Monaco’ (2009-2012)
- Member of the Scientific Committee of the ‘Chaires Blaise Pascal’, Ile de France region (2006-2009)
- Member of the Strategic Committee of the French Fleet (Ministry of Research) (2009-2010)
- Member of the Scientific Committee of the ‘Office Parlementaire d’Evaluation des Choix Scientifiques et Technologiques (OPECST) de l’Assemblée Nationale et du Sénat’ (2002-2010)
- Member of the ‘High Council’, Observatoire de Paris (2006-2010)

- Chair of the search committee for the direction of the ‘Institut de Physique du Globe de Paris’ (2009)
- Member of the Scientific Committee of the ‘Institut de Physique du Globe de Paris’ (2004-2009)
- Member of the Scientific Committee of the City of Paris (2003-2008)
- Member of the committee on ‘Gouvernance’ of the French Academy of sciences (2008)
- Member of the ‘Visiting Committee’, ‘Institut de Physique du Globe de Paris’ (2008)
- Member of the evaluation committee (senior members) of the ‘Institut Universitaire de France’ (2005-2006)
- Member of the ‘Comité National d’Evaluation de la Recherche (CNER)’ (1999-2005)
- Member of the ‘Conseil National de la Science (CNS)’, Ministry of Research (1997-2002)
- Member « Comité de Coordination des Sciences de la Terre et de l’Environnement (CCSPE) », Ministry of Research (1997-2003)
- Chair of the « Action Concertée Incitative (ACI) Observation de la Terre », Ministry of Research (2001-2002)
- Member of the committee ‘Terre-Atmosphère-Océan-Biosphère’ of CNES (1993-2003)
- Member of the scientific committee of the Institut National des Sciences de l’Univers (INSU) (1996-2000)
- Member of the ‘Comité de Perfectionnement de l’Institut Océanographique de Monaco’ (1995-2001)
- Co-chair of the ‘Comité National Français de Géodésie et de Géophysique (CNFGG)’ (1994-1998)
- Member of the ‘Comité National du CNRS, section 21’ (1983-1987)
- Member of the ‘Comité National du CNRS, section 13’ (1992-1995)
- Member of the Earth Science Committee of the ‘Bureau de Recherches Géologiques et Minières (BRGM)’ (1994-1997)
- Member of the ‘Comité de Programme de l’INSU (Institut National des Sciences de l’Univers) : Imagerie et Structure de la Terre’ (1988-1992)
- Member of the ‘Tectoscope-Positionnement’ committee of INSU (Institut National des Sciences de l’Univers) (1991-1995)
- Member of the ‘Pôle Espace du Conseil Régional de Midi-Pyrénées’ (1988-1992)
- Chair of the Scientific Council of the ‘Groupe de Recherche de Geodesie Spatiale’ (GRGS) (1986-1992)

#### **SUPERVISOR OF 28 PHD THESES**

S. Daillet (1984), P. Pinet (1985), S. Calmant (1987), P. Gaudon (1988), J.C. Marty (1989), M. Monnereau (1990), J.J. Valette (1992), C. Thoraval (1994), P. Calcagno (1995), L. Soudarin (1995), P. Gegout (1995), R. Abarca del Rio (1997), P. Lecroart (1997), G. Ramillien (1998), F. Bouille (2000), F. Mercier (2001), S. Mangiarrotti (2003), C. Cabanes (2003), I. de Oliveira Campos (2004), T. Ngo-Duc (2005), A. Lombard (2005), F. Frappart (2006), V. Enjolras (2007), W. Llovel (2010), L. Xavier (2012), B. Meyssignac (2012), H. Palanisamy (2016), H.B. Dieng (2017).

#### **PRINCIPAL OR CO-INVESTIGATOR OF NATIONAL/INTERNATIONAL PROJECTS & SPACE MISSIONS**

##### ***Current***

- P.I. (with M. Manda and V. Dehant) of the GRACEFUL project selected by ERC (*European Research Council*) in the context of the ERC SYNERGY program (2020-2026)
- Science Leader of the ‘Sea Level’ project, ‘Climate Change Initiative’, European Space Agency (ESA); Phase 3 (CCI+) (2019-2026)
- Science lead of the International Team ‘Coastal sea level processes’ of ISSI (International Space Science Institute, Bern, Switzerland) (2024-2025)
- Co-investigator of the ESA CCI project “Regional sea level budget closure” (2023-2026)

### *Previously*

- Co-Investigator of the space mission ‘Jason-3’ for ‘Sea level and climate’ (2016-2020)
- Science Leader of the ‘Sea Level’ project, ‘Climate Change Initiative’, European Space Agency (ESA); Phase 1 &2 (2011-2019)
- Partner of the ESA project ‘Sea Level Budget Closure’ (2017-2019)
- Coordinator of the national project ‘Téledétection et ressources en eau’ du RTRA ‘STAE’ (Réseau Thématique de Recherches Avancées ‘Sciences et Technologies pour l’Aéronautique et de l’Espace’) (2013-2014)
- Scientific coordinator of the project ‘CECILE’ (Changements Environnementaux côtiers : Impacts de l’élévation du niveau de la mer), Agence Nationale de la Recherche (ANR) (6 partners) (2010-2013)
- Scientific partner of the European project ‘MONARCH’ (Arctic climate change), FP7 (2010-2013)
- Coordinator of the national project CYMENT (Cycle de l’eau et de la matière dans les bassins versants ; de l’observation spatiale à la modélisation en hydrologie), RTRA ‘STAE’ (Réseau Thématique de Recherches Avancées ‘Sciences et Technologies pour l’Aéronautique et de l’Espace’) (8 partners) (2008-2011)
- Co-Investigator of the space mission EUMETSAT/CNES/NASA ‘Jason-2/Ocean Surface Topography’ for ‘Sea level and climate’ (2008-2012)
- Co-Investigator of the European project EUROCORES/Topo-Europe, ESF (European Science Foundation) for ‘Sea level change in the Mediterranean Sea area’ (2008-2010)
- Principal Investigator of the space missions Topex-Poseidon and Jason-1 (CNES/NASA) for ‘Sea Level’ (1992-2008)
- Principal Investigator of the space missions ERS-1/2 et ENVISAT (ESA) for ‘Marine geoid, marine geophysics and hydrology from space’ (1991-2010)
- Co-investigator of the national project CASH (Contribution de l’Altimétrie Spatiale à l’Hydrologie) du ‘Réseau Terre Espace’, Ministry of Research (2001-2004)
- Co-Investigator of the European project ‘SELF’ for ‘Sea level in the Mediterranean Sea’ (1998-2000)
- Principal Investigator of the Lageos 2 mission for ‘Geodesy and crustal deformations’ (years 1990s)
- Principal Investigator of the French project DORIS for ‘Precise positioning’ (years 1990s)
- Principal Investigator of the NASA Solid Earth programme for ‘Global Earth deformations’ (years 1990s)
- Co-investigator of the space missions Geos-3 et Seasat for ‘Marine geoid and marine geophysics’ (1975-1978)
- Principal Investigator of the space mission STARLETTE (1975)

### **EDITORIAL RESPONSABILITIES**

- Member Editor of PNAS (Proceedings of the National Academy of Sciences, USA) (on going)
- Member of the Editorial Board of « Scientific Data », Nature Publishing Group (on going)
- Guest editor of Surveys of Geophysics (on going)
- Editor of EOS (AGU) (2008-2012)
- Guest Editor of the Encyclopedia of Solid Earth Geophysics (Springer) (2010, 2020)
- Guest Editor of “Comptes Rendus Géosciences” (2008- 2010)
- Editor-in-Chief of Earth and Planetary Science Letters (1997- 2003)
- Member of the editorial board of Journal of Geodynamics (1994-1997)
- Member of the editorial board of PAGEOPH (1989-1994)

## ORGANIZATION OF INTERNATIONAL WORKSHOPS (SELECTION; LAST TWO DECADES)

- International workshop ‘Global Change in Africa: role of space observations’, ISSI (Bern, Switzerland, January 2021)
- International workshop ‘Probing the Earth’s deep interior using in synergy observations of the Earth’s gravity and magnetic fields, and of the Earth’s rotation’, ISSI (Bern, Switzerland, September 2020)
- International workshop ‘Natural and man-made hazards monitoring by Earth Observation missions: current status and scientific gaps’, ISSI (Bern, Switzerland, April 2019)
- International workshop ‘Understanding the relationship between coastal sea level and large-scale ocean circulation’, ISSI (Bern, Switzerland, March 2018)
- International Forum ‘Monitoring of coastal zones from space’, ISSI (Bern, Switzerland, October 2016)
- International workshop ‘Integrative study of sea level and components’, ISSI (Bern, Switzerland, February 2015)
- International workshop ‘Remote sensing and water resources’, ISSI (Bern, Switzerland, October 2014)
- International workshop ‘Coastal impacts of climate change and sea level rise’, Collège de France (Paris, June, 2013)
- Co-convenor of the session ‘Ocean dynamics and sea level’ du WCRP workshop ‘Climate Research in Service to Society’ (Denver, October 2011)
- Member of the Steering Committee of the IPCC workshop ‘Sea level rise and ice sheet instabilities’ (Kuala-Lumpur, June 2010)
- Convenor of several sessions at the AGU Fall Meetings and EGU General Assemblies
- First international workshop on ‘Hydrology from Space’ (Toulouse, 2003)

## PRIZES AND AWARDS

- Honorary Fellow of the Geological Society of India (2024)
- Leonardo Da Vinci Prize, European Academy of Sciences (EURASC) (2022)
- WIA (Women In Aerospace)-Europe Outstanding Achievement Award (2022)
- Vetlesen Prize, Columbia University (2020)
- BBVA Foundation, Frontiers of Knowledge Award (Climate Change Category) (2019)
- Fellow, IUGG (*International Union of Geophysics and Geodesy*) (2019)
- Grand Prix des Amis de la Cité de l’Espace (2018)
- Nansen Polar Bear Award of the *Norwegian Nansen Center* (2016)
- Georges Lemaître Prize, Université Catholique de Louvain (2015)
- Fellow, American Association for the Advancement of Science’ (AAAS) (2012)
- ‘Bowie Medal’, American Geophysical Union (AGU) (2012)
- Prize ‘Emile Girardeau’, Académie de Marine (2010)
- Prize ‘Manley Bendall, Medal Albert 1<sup>er</sup> de Monaco’, Institut Océanographique (2008)
- ‘Arthur Holmes’ Medal, European Geosciences Union (2006)
- ‘Vening Meinesz’ Medal, European Geophysical Society (1999)
- ‘Fellow’, American Geophysical Union (AGU) (1996)
- Prize Kodak-Pathé-Landucci, French Academy of sciences (1996)
- Prize Doisteau-Blutet, French Academy of sciences (1990)
- Bronze Medal, CNRS (1980)
- Prize Doisteau-Blutet, French Academy of sciences (1979)

**CIVIL AWARDS**

- Commandeur, Légion d'Honneur (2018)
- Chevalier, Palmes Académiques (2028)
- Grand Officier, Ordre National du Mérite (2015)
- Commandeur, Ordre National du Mérite (2007)
- Officier, Légion d'Honneur (2010)
- Chevalier, Légion d'Honneur (2000)
- Officier, Ordre National du Mérite (1997)
- Chevalier, Ordre National du Mérite (1981)

**SCIENCE ACADEMIES**

- Member, French Academy of Sciences, since 2004
- Member of the European Academy of Sciences (EURASC), since 2022
- Foreign member, Royal Society, UK, since 2021
- Foreign member, National Academy of Sciences (NAS), USA, since 2008
- Foreign member, Royal Academy of Belgium, since 2014
- Member, Bureau des Longitudes, since 2014
- Foreign member, Indian National Sciences Academy (INSA), New Delhi, since 2012
- Foreign member, National Academy of Sciences of India, Allahabad, since 2008
- Member, Academia Europaea, since 1990
- Member, Académie Européenne de l'Air et de l'Espace, since 1986.

**INTERNATIONAL INVITED LECTURES (LAST DECADE)**

2025: Fakir Mohan University, India;

2024: University of Gliwice, Poland; ESA symposium, Reykjavik, Iceland; Annual Congress of the Geological Society of India, Dharward, India; National Geophysical Research Institute, Hyderabad, India;

2023: Accademia dei Lincei, Roma, Italy; Cayenne university, French Guiana; Lamont & Columbia university, New York; COSPAR symposium, Singapore; IUGG Symposium, Berlin;

2022: Africa workshop, Bern; International Astronautical Congress, Paris; European Academy of Sciences, Brussels;

2021: Shanghai summer school, China; Aligarh Muslim University, India;

2020: Dutch Earth Sciences Congress, Utrecht, NL; Bern University, Switzerland; CSIR-NGRI Diamond Jubilee, NGRO, Hyderabad, India; European Space Week, European Commission;

2019: University College, London, UK; ESA Atlantic Workshop, Southampton, UK; Asian School of Environment, University of Singapore; University of Toronto, Canada; University of Bristol, UK; Delft University, NL; UGGI, Montreal, Canada; University of Bern, Switzerland;

2018: University of Oslo, Norway; University of Liege, Belgium; Shanghai Astronomical Observatory, China; ESA Summer School, Frascati, Italy;

2017: Royal Academy of sciences, Brussels, Belgium; Academy of sciences, Rabat, Morocco; University of Zurich, Switzerland; University of Hamburg, Germany;

2016: ESA Living Planet Symposium, Prague, Czechia; CLIVAR open science conference, Qingdao, China; International Conference, Bonaire Island; Academy of sciences, Rabat, Morocco; Environmental Research Center, Bergen, Norway;

2015: ETH, Zurich, Switzerland; European Climate Research Alliance, Brussels, Belgium; UNESCO, Paris; French Embassy, Miami, USA; Royal Academy of sciences, Stockholm, Sweden;

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## ANNY CAZENAVE - PUBLICATIONS (January 2025)

265+ 'peer-reviewed' articles; 18 900 citations;  $H_{\text{index}} = 69$  (ISI Web of Sciences)

*Italics: PhD students and post-docs under A. Cazenave supervision*

## 1. PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Cazenave A., Pfeffer J., Manda M., Dehant V. and Gillet N., Why is the Earth system oscillating at a 6-year period? *Surveys in Geophysics*, in press, <https://doi.org/10.1007/s10712-024-09874-4>, 2025.
2. Cazenave A., Present-day sea level rise and causes; the role of space observations, submitted, *J-GSI*, 2025.
3. Leclercq L., Cazenave A. et al., Coastal sea level rise at altimetry-based virtual stations in the Gulf of Mexico, *Advances in Space Research*, 75, 1636-1652, <https://doi.org/10.1016/j.asr.2024.11.069>, 2025.
4. Bouih M., Barnoud A., Yang C., Storto A., Blazquez A., Lowell W., Fraudeau R., and Cazenave A., Regional sea level budget over 2004-2022, submitted, *Ocean Sciences*, 2025.
5. Pfeffer J., Cazenave A. et al., A 6-year cycle in the atmosphere, submitted, *Geophysical Research Letters*, 2025.
6. Peng D., Ng G., Feng L., Cazenave A., and Hill E., Coastal vertical land motion in Southeast Asia derived from combining tide gauge and satellite altimetry observations, *Science of Remote Sensing*, 10, 100176, <https://doi.org/10.1016/j.srs.2024.100176>, 2024.
7. Ghoms F. et al., including Cazenave A., Sea level variability in Gulf of Guinea from satellite altimetry, *Scientific Reports*, 14, 1, <https://doi.org/10.1038/s41598-024-55170-x>, 2024.
8. Le Cozannet G. and Cazenave A., Adaptation to sea level rise in France, *Rendiconti Lincei. Scienze Fisiche e Naturali*, published online 18 March 2024, <https://doi.org/10.1007/s12210-024-01225-0>, 2024.
9. Cazenave A., Pfeffer J., Manda M. and Dehant V., ESD Ideas: A 6-year oscillation in the whole Earth system? *Earth System Dynamics*, 14, 733–735, <https://doi.org/10.5194/esd-14-733-2023>, 2023.
10. Pfeffer, J., Cazenave, A., Rosat, S., Moreira, L., Manda, M. and Dehant, V., A 6-Year Cycle in the Earth System, *Global and Planetary Change*, 229, 104245, <http://doi.org/10.1016/j.gloplacha.2023.104245>, 2023.
11. Meyssignac B. et al., including Cazenave A., How accurate is accurate enough for measuring sea level rise and variability, *Nature Climate Change*, 13, 796–803, <https://doi.org/10.1038/s41558-023-01735-z>, 2023.
12. Pfeffer J., Cazenave A., Blazquez A., Decharme B., Munier S. and Barnoud A. Assessment of pluri-annual and decadal changes in terrestrial water storage predicted by global hydrological models in comparison with the GRACE satellite gravity mission, *Hydrology and Earth System Sciences*, 27, 3743–3768, <https://doi.org/10.5194/hess-27-3743-2023>, 2023.
13. Barnoud, A., Pfeffer, J., Cazenave, A., Fraudeau, R., Rousseau, V., & Ablain, M., Revisiting the global mean ocean mass budget over 2005–2020. *Ocean Science*, 19, 321–334, <https://doi.org/10.5194/os-19-321-2023>, 2023.
14. Chen J., Wilson C., Seo K.W., Cazenave A., Wang S. and Li J., Caspian Sea level change from satellite altimetry and GRACE and GRACE Follow-On gravity measurements, *Remote Sensing*, 15, 3, 703, <https://doi.org/10.3390/rs15030703>, 2023.



15. Cazenave A. and *Moreira L.*, Contemporary sea level changes from global to local scales: a review, *Proc. Royal Society*, 478, 20220049, <https://doi.org/10.1098/rspa.2022.0049>, 2022.
16. Cazenave A. and the Climate Change Initiative Coastal Sea Level Team, Sea level along the world's coastlines can be measured by a network of virtual altimetry stations, *Nature Communications, Earth & Environment*, 3, 117, <https://doi.org/10.1038/s43247-022-00448-z2022>, 2022.
17. Chen J., Cazenave A., Dahle C., Llovel W., Panet I., *Pfeffer J. and Moreira L.*, Applications and Challenges of GRACE and GRACE Follow-On Satellite Gravimetry, *Surveys in Geophysics*, <https://doi.org/10.1007/s10712-021-09685-x>, 2022.
18. Han W. et al., including A. Cazenave, Sea level extremes and compounding marine heatwaves in coastal Indonesia, *Nature Communications*, 6410, <https://doi.org/10.1038/s41467-022-34003-3>, 2022.
19. Hegglin M. I. et al., including Cazenave A., Space-based Earth observations in support of the UNFCCC Paris Agreement, *Frontiers in Environmental Science*, 10, <https://doi.org/10.3389/fenvs.2022.941490>, 2022.
20. Horwath M., Gutknecht B., Cazenave A., et al., Global sea level budget and ocean mass budget, with focus on advanced data products and uncertainty characterization. *Earth System Science Data*, 14, 411–447, 2022 <https://doi.org/10.5194/essd-14-411-2022>, 2022.
21. *Barnoud A.* et al., including Cazenave A., Contributions of altimetry and Argo to non-closure of the global mean sea level budget since 2016, published online 26 June 2021, *Geophys. Res. Lett.*, <https://doi.org/10.1029/2021GL092824>, 2021.
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