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CURRICULUM VITAE

Anny CAZENAVE

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

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Education:

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

Professional experience:

Director for Earth Sciences at the *International Space Science Institute* (ISSI), Bern, Switzerland (2013-) and emeritus scientist at LEGOS/CNES, Toulouse, France ;

Invited professor at the Collège de France, 2012-2013, Annual Chair 'Développement Durable- Environnement, Energie et Société' ;

Deputy Director of LEGOS between 1996 and 2007 and head of the group 'Géophysique, Océanographie et Hydrologie Spatiales' at LEGOS until 2009.

Research interests: Application of space techniques to geosciences

Applications of remote sensing to satellite geodesy: gravity field and marine geoid; Earth rotation and polar motion; tides; precise positioning by space geodesy techniques and applications to tectonic motions, vertical crustal motions, geocenter motions; temporal changes of the Earth gravity field and global mass redistributions among the surface fluid envelopes of Earth (oceans, atmosphere, land);

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

Publications:

>220 articles in peer-reviewed international journals; Several monograph chapters; Editor of 7 books (including: 'Satellite altimetry over oceans and land surfaces', Stammer & Cazenave editors, Earth observation of global changes book series, CRC Press, 2017; 'Integrative study of the global mean sea level and its components' Cazenave et al. editors, Space science series of ISSI, Springer, 2017; 'Remote sensing and Water Resources', Cazenave et al. editors, Space science series of ISSI, Springer, 2016; '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

Director for Earth Sciences' at the *International Space Science Institute*; Member of the Joint Scientific Committee (officer) of WCRP (*World Climate Research Programme*); Member of the committee on "Strategic NASA Science Missions" NRC (*National Research Council, The National Academies, USA*); Member of the scientific committee of the IPCC AR6 'Scholarship Programme'; Chair: 'C. Whitten Medal' committee (*American Geophysical Union*)

Recent Past (last decade only)

Member: IPCC (*Intergovernmental Panel on Climate Change*) Working Group I, lead author of the 5th Assessment Report (*Sea Level chapter*) (2007-2013) and of the 4th Assessment Report (*Ocean climate and sea level chapter*) (2004-2007); Panel 'Advanced Grant, Earth System Sciences' of ERC (*European Research Council*) (2008-2014); 'Nansen Medal' committee (*European Geosciences Union*) (2012-2014); Scientific Advisory Committee' of the 'Centre for Climate Dynamics', Bergen University, Norway (2010-2012); Steering committee of GCOS (*Global Climate Observing System*) (2008-2012); Panel 'NASA Earth Sciences Program' (*National Research Council, The National Academies, USA*) (2010-2012); 'Revelle Medal' committee (*American Geophysical Union*) (2010-2012); Editor of EOS (*Journal of the American Geophysical Union*) (2008-2011); Member of the assessment panel of the Hadley Center/MetOffice (UK) (2007-2010); Member of

the panel ‘*National Geodetic Infrastructures*’, NRC (*National Research Council, The National Academies, USA*) (2008-2010); Chair of the committee on ‘*International Award*’ (*American Geophysical Union*) (2006-2010); International Secretary of the AGU (*American Geophysical Union*) (2002-2006); Member of the scientific committee of GGOS (*Global Geodetic Observing System*) (2004-2010); Member of the panel ‘*Water Resources and the Global Hydrological Cycle of Earth Science and Applications from Space; Decadal Survey*’, NRC (*National Research Council, The National Academies, USA*) (2005-2006).

National Responsibilities:

Current

Member : Conseil d’Administration of MétéoFrance; Comité d’Orientation Stratégique of IRD (*Institut de Recherche pour le Développement*)

Recent Past (last decade only)

Chair of the Scientific Council of MétéoFrance (2010-2015);

Member: ‘Conseil Supérieur des Programmes’, French Ministry of Education (2013-2016); Conseil d’Administration of CNRS (*Centre National de la Recherche Scientifique*) (2009-2015); Scientific Council of the *Ecole Polytechnique* (2014-2016); Scientific council (chair) of the ‘*Agence de l’Eau du bassin Adour-Garonne*’ (2010-2013) ; Scientific council of the *Institut Oceanographique de Monaco* (2009-2012) ; Evaluation committee of the ‘*Chaires Blaise Pascal*’ (Région Ile de France) (2004-2011); ‘Comité Stratégique et Technique de la Flotte Française’ (*Ministry of Research and High Level Education*) (2009-2010); Scientific council of the ‘*Office Parlementaire d’Evaluation des Choix Scientifiques et Techniques de l’Assemblée Nationale et du Sénat*’ (2002-2010); ‘Haut Conseil’ of the ‘*Observatoire de Paris*’ (2006-2010), Scientific council of the City of Paris (2003-2008); Scientific council of the Institut de Physique du Globe de Paris (2002-2009); Evaluation committee of the IUF (*Institut Universitaire de France*) ‘Senior chairs’ (2005-2006)

PhD thesis supervision:

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)

Teaching:

Teaching ‘Observing the Earth and environment from space’, annual chair 2012-2013 ‘Développement Durable-Environnement, Energie et Société’, Collège de France (2012-2013) ; Space geodesy lessons at the University of Toulouse (1981-2000), University of Paris 6 (1983-1988), Ecole Nationale des Techniques Avancées (ENSTA) (1975-1983)

Coordination of (or participation to) national and international projects:

Current and recent past only

Partner of the ESA (*European Space Agency*) project ‘Sea level budget closure’ (2017-); Science leader of the ‘sea level’ project of the ESA ‘Climate Change Initiative’ (15 partner teams) (2011-); Scientific coordinator of the ANR (*Agence Nationale de la Recherche*) project ‘CECILE’ on ‘*Coastal impacts of sea level rise*’ (7 partner teams) (2009-2013); Coordinator of the project ‘Teledetection et ressources en eau’ RTRA-STAE (Réseau Thématique de Recherche Avancée ‘Sciences et Techniques de l’Aéronautique et de l’Espace’) (2013-2014); Partner for ‘*Sea level change of the Arctic Ocean*’ of the European project (FP7) ‘MONARCH’ on *Arctic climate change*; Coordinator of the French project ‘CYMENT’ (*Water cycle and hydrology from space*) of the RTRA-STAE (Réseau Thématique de Recherche Avancée ‘Sciences et Techniques de l’Aéronautique et de l’Espace’) (8 partners) (2008-2011); Partner of the European project TOPOEUROPE-Eurocores of ESF (*European Science Foundation*) on the ‘*Mediterranean sea level*’ (2008-2010).

Co-investigator of several satellite altimetry missions (Topex/Poseidon, Jason-1, Jason-2, Jason-3, Envisat) for geodesy and sea level studies

Editorial responsibilities:

Current: Guest editor of PNAS (*Proceedings of the National Academy of Sciences, USA*). Member of the editorial board of « Scientific Data », Nature Publishing Group.

Previously: Editor of EOS (journal of the *American Geophysical Union*) (2008-2011); Editor-in-chief of the journal ‘*Earth and Planetary Science Letters*’, EPSL, (1997-2002); Member of the editorial board of *Surveys in Geophysics* (2010-2015). Associate Editor of ‘*Comptes Rendus Geosciences*’ (*French Academy of sciences*)

(2008-2010); Section Editor of the Encyclopedia of Solid Earth Geophysics (2010); co-editor of PAGEOPH (1989-1994) and of the *Journal of Geodynamics* (1994-1997)

International invited lectures (*last decade only*):

2017: Royal Academy of sciences (Belgium); Academy of sciences of Morocco; University of Zurich; University of Hamburg;

2016: ESA Living Planet Symposium (Prague); CLIVAR open science conference (Qingdao, China); International conference on 'Coastal dynamics and ecosystem change: Caribbean', Bonaire; Norwegian Environmental Research Center (Bergen);

2015 : ETH (Zurich) ; European Climate Research Alliance (Brussels) ; UNESCO (Our common future under climate change, Paris); French Embassy (Miami); Royal Swedish Academy (Stockholm);

2014 : Institut Français de Tunis; Royal Swedish Academy of sciences (Stockholm); Royal Academy of sciences (Belgium), Shanghai Astronomical Observatory (Shanghai), ISC symposium (Geneva)

2013: Institut Français (Madrid), ETH (Zurich), COSPAR symposium (Bangkok)

2012: ERCA (*European Research Courses on Atmospheres*), Grenoble; IODP-France, Paris; Center for Ice and Climate (Copenhagen), Shanghai Astronomical Observatory (Shanghai); Department of Geosciences at Princeton University (Princeton)

2011: Union Lecturer UGGI (Melbourne); International workshop on *Adaptation to Climate Change* (Tahiti)

2010: 3rd bi-annual symposium on '*Future Ocean*' of the Leibniz Institute of Marine Sciences (Kiel); ISSI workshop on '*the Earth's cryosphere and sea level change*' (Bern); IPCC workshop on '*Sea level rise and ice sheet instabilities*' (Kuala Lumpur); ERCA (*European Research Courses on Atmospheres*), Grenoble.

2009: Side event '*Impact of ice sheet melting to sea level rise : Past, present and future*', COP15 (U.N. world climate summit; Copenhagen); '*Sea level rise and coastal flooding - understanding the risk*' workshop of the Royal Society (London); '*What is new since IPCC AR4?*' and '*Sea level observations and causes*' symposia of the Annual Meeting of the American Association for Advancement of Sciences, (Chicago); ERCA (*European Research Courses on Atmospheres*), Grenoble.

2008: *Golden Jubilee* of the Geological Society of India (Bangalore) ; ESF workshop on '*Water and Life*' (Taormina) ; ESF workshop on '*Improving estimates of the rate of sea level rise from the Greenland ice sheet*' (Majorca); James Baker Institute (Rice University, Houston); '*Ocean climate and Sea level*' workshop at CAOS (*Center for Atmosphere and Ocean Science*) (New-York University); ERCA (*European Research Courses on Atmospheres*), Grenoble.

2007: McGill University (Montreal, Canada); NASA/GSFC (Greenbelt); Annual Indian Science congress (Chidambaram University)

Honors and Awards:

Academies

Member of the *French Academy of Sciences* (2004); Foreign member of the *National Academy of Sciences* (NAS, USA) (2008); Foreign member of the *Indian National Science Academy (INSA)*, New Delhi (2012) and of the *Royal Academy of Belgium* (2014). Member of the *Academia Europaea* (1990); Member of the *European Academy for Aeronautics and Space* (1986)

Others

Fellow of the *American Geophysical Union* (1996)

Fellow of the *American Association for the Advancement of Science (AAAS)* (2012)

Member, *Bureau des Longitudes*, Paris (2014)

Scientific Awards

Nansen Polar Bear Award of the *Norwegian Nansen Center* (2016); Georges Lemaître Prize of the *University Catholique de Louvain* (2015); Bowie Medal of the *American Geophysical Union* (2012); Prize 'Emile Girardeau' of the '*Académie de Marine*' (2010); Prize Manley Bendall, Medal 'Albert 1^{er} de Monaco' of the *Institut Océanographique de Monaco* (2008); Arthur Holmes Medal of the *European Geosciences Union* (2006); Vening-Meinesz Medal of the *European Geophysical Society* (1999); Prize Kodak-Pathé-Landucci of the *French Academy of Sciences* (1996); Prize Doisteau-Blutet of the *French Academy of Sciences* (1979; 1990); Bronze Medal of CNRS (1980).

Civil Awards

Ordre National du Mérite (Grand Officier: 2015, Commandeur: 2007, Officier: 1997, Chevalier: 1981) ; Légion d'Honneur (Officier: 2010, Chevalier: 2000)

**Publications –December 2017-
>8000 citations; H_{index}=49**

1. International peer-reviewed journals

1. Cazenave A., Sea level change, invited review, *Advances in Space Research*, 2018.
2. Legeais J.F., Ablain M., Zawadzki L., Zuo H., Johannessen J.A., Scharffenberg M.G., Fenoglio-Marc L., Fernandes J., Andersen O.B., Rudenko S., Cipollini P., Quartly G.D., Passaro M., Cazenave A., Benveniste J., An Accurate and Homogeneous Altimeter Sea Level Record from the ESA Climate Change Initiative, in revision, *Earth Syst. Sci. Data*, 2017.
3. Blazquez A., Meyssignac B., Lemoine J.M., Berthier E., Ribes A. and Cazenave A., Exploring the uncertainty in GRACE estimates of the mass redistributions at the Earth's surface. Implications for the global water and sea level budgets., submitted, *Geophysical Journal International*, 2017.
4. Quartly G.D., Legeais J.F., Ablain M., Zawadzki L., Fernandes J., Rudenko S., Carrère L., García P.N., Cipollini P., Andersen O.B., Poisson J.C., Sabrina Mbajon Njiche S.M., Cazenave A. and Benveniste J., A new phase in the production of quality-controlled sea level data, *Earth Syst. Sci. Data*, 9, 557–572, doi.org/10.5194/essd-9-557-2017, 2017.
5. Xu X.Y., Birol F. and Cazenave A., Evaluation of Coastal Sea Level of Jason-2 Altimetry Offshore Hong Kong, in revision, *Remote Sensing*, 2017.
6. Cazenave A. and Palanisamy H., Sea level and Future Earth, to appear in “Global Change and Future Earth”, Cambridge University Press, in press, 2017.
7. Cazenave A., Le Cozannet G., Benveniste J., Woodworth P. and Champollion N., Monitoring the change of coastal zones from space, *EOS*, 98, <https://doi.org/10.1029/2017EO085581>. Published on 02 November 2017.
8. Nerem R., Cazenave A., Church J., No chaos in the satellite-data record, *Nature*, 549, 7672, 334, 2017.
9. Dieng H., Cazenave A., Meyssignac B. and Ablain M., New estimate of the current rate of sea level rise from a sea level budget approach, *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL073308, 2017.
10. Dieng H., Cazenave A., Meyssignac B., von Schuckmann K. and Palanisamy H., Sea and land surface temperatures, ocean heat content Earth's energy imbalance and net radiative forcing, *International Journal of Climatology*, DOI: 10.1002/joc.4996, 2017.
11. Nerem S., Ablain M., Cazenave A., Church J. and Leuliette E., A 25-year long satellite altimetry-based global mean sea level record: Closure of the sea level budget & missing components, CRC book on “Applications of satellite altimetry over oceans and land surfaces”, Stammer & Cazenave eds., CRC Press, Taylor & Francis, ISBN 978-1-4987-4345-7, 2017.
12. Chambers D., Cazenave A., Champollion N., H. Dieng, W. Llovel, R. Forsberg, K. von Schuckmann and Y. Wada, Evaluation of the global mean sea level budget between 1993 and 2015, *Surveys in Geophysics*, 38, 309-327, DOI 10.1007/s10712-016-9381-3, 2017.
13. Carret A., Johannessen J., Andersen O., Ablain M., Prandi P., Blazquez A. and Cazenave A., Arctic sea level during the altimetry era, *Surveys in Geophysics*, 38, 251-277, DOI 10.1007/s10712-016-9390-2, 2017.
14. Ablain M., Legeais J.F., Prandi P., Fenoglio-Marc L., Marcos M., Benveniste J. and Cazenave A., Altimetry-based sea level at global and regional scales, *Surveys in Geophysics*, 38, 7-31, DOI 10.1007/s10712-016-9389-8, 2017.
15. von Schuckmann K., Palmer M.D., Trenberth K.E., Cazenave A., D. Chambers, Champollion N. et al., Earth's energy imbalance: an imperative for monitoring, *Nature Climate Change*, 26, 138-144, 2016.
16. Lopez T., Antoine R., Kerr Y., Darrozes J., Rabinowicz M., Ramillien G., Cazenave A., Genthon P., Subsurface hydrology in the Lake Chad basin from space-based and hydrogeological data, *Surveys in Geophysics*, doi:10.1007/s10712-016-9363-5, 2016.
17. Famiglietti J., Cazenave A., A. Eicker, J. T. Reager, M. Rodell and I. Velicogna, Satellites Provide the ‘Big Picture’ for Global Hydrology, *Science*, vol 349, issue 6249, 684-685, 2015.
18. Dieng H., Champollion N., Cazenave A., Wada Y., Schrama E. and Meyssignac B., Total land water storage change over 2003-2013 estimated from a global mass budget approach, *Environmental Research Letters*, 10, 124010, doi:10.1088/1748-9326/10/12/124010, 2015.
19. Le Cozannet G., Rohmer J., Cazenave A., et al., Evaluating uncertainties of future marine flooding occurrence as sea level rises, *Environmental Modelling*, 73, 44-56, 2015.
20. Dieng H., Cazenave A., von Schuckmann K., Ablain M. and Meyssignac B., 2015b Sea level budget over 2005-2013: missing contributions and data errors, *Ocean Science*, 11, 1-14, doi:10.5194/osd-11-1-2015.
21. Palanisamy H., Meyssignac B., Cazenave A., Delcroix T., Is the anthropogenic sea level fingerprint already detectable in the Pacific Ocean? *Environmental Research Letters*, 10, 124010, doi:10.1088/1748-9326/10/12/124010, 2015.

22. Dieng H., Palanisamy H., Cazenave A., Meyssignac B. and von Schuckmann K., The sea level budget since 2003: inference on the deep ocean heat content, *Surveys in Geophysics*, 36, 1, doi:10.1007/s10712-015-9314-6, 2015.
23. Ablain M., Cazenave A., et al., Improved sea level record over the satellite altimetry era (1993-2010) from the Climate Change Initiative Project, *Ocean Sciences*, 11, 2029-2071, doi:10.5194/osd-11-2029-2014, 2015.
24. Cazenave A., Sea level rise, *Oxford Bibliographies*, 2015.
25. Palanisamy, H. Cazenave A., Delcroix T. and Meyssignac B., Spatial trend patterns in Pacific Ocean sea level during the altimetry era : the contribution of thermocline depth change and internal climate variability, *Ocean Dynamics*, Doi:10.1007/s10236-014-0805-7, 2015.
26. Palanisamy H., Cazenave A., Henry O., Prandi P., and Meyssignac B., Sea level variations measured by the new altimetry mission SARAL-AIka and its validation based on spatial patterns and temporal curves using Jason-2, steric sea level, ocean mass and tide gauge data, *Marine Geodesy*, 238, 339-353, doi:10.1080/01490419.2014.1000469, 2015.
27. Cazenave A., Dieng H., Meyssignac B., von Schuckmann K., Decharme B. and Berthier E., The rate of sea level rise, *Nature Climate Change*, vol 4, 358-361, doi:10.1038/NCLIMATE2159, 2014.
28. Cazenave A. Anthropogenic global warming threatens world cultural heritage, *Environ. Res. Lett.*, 9, doi:10.1088/1748-9326/9/5/051001, 2014.
29. Cazenave A. and Le Cozannet G., Sea level rise and coastal impacts, *Earth's Future*, vol2, issue2, 15-34, doi :10.1002/2013EF000188, 2014.
30. Chevalier L. , B. Laignel, N. Massei, S. Munier, M. Becker, I. Turki, A. Coynel and A., Cazenave, Hydrological variability of major French rivers over recent decades, assessed from gauging station and GRACE observations, *Hydrological Sciences Journal*, 59:10, 1844-1855, DOI: 10.1080/02626667.2013.866708, 2014.
31. Church, J. A., P. U. Clark, A. Cazenave, J. M. Gregory, S. Jevrejeva, A. Levermann, M. A. Merrifield, G. A. Milne, R. S. Nerem, P. D. Nunn, A. J. Payne, W. T. Pfeffer, D. Stammer and A. S. Unnikrishnan, 2013: Sea Level Change. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T. F., D. Qin, G.-K. Plattner, M. Tignor, S. K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P. M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 2014.
32. Palanisamy H., Cazenave A., Meyssignac B., Woppelmann G. and Soudarin L., 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 Planetary Change*, 116, 54-67, 2014.
33. Dieng H.B., Cazenave A, Messignac B., Henry O., von Schuckmann K. and Lemoine J.M., Effect of La Niña on the global mean sea level and north Pacific ocean mass over 2005-2011, *J. Geodetic Sciences*, 4, 19-27, 2014.
34. Henry O., Ablain M., Meyssignac B., Cazenave A., Masters D., Nerem S., Leuliette E. and Garric G., Investigating and reducing differences between the satellite altimetry-based global mean sea level time series provided by different processing groups, *J. of Geodesy*, 88:351-361, doi: 10.1007/s00190-013-0687-3, 2014.
35. Stammer D., Cazenave A., Ponte R. and Tamisiea M., Contemporary regional sea level changes, *Annual Review Marine Sciences*, 5, 21-46, 2013.
36. Church J. Clark P., Cazenave A. et al, Sea level rise by 2100, *Science*, Vol. 342 Issue 6165, p1445-1445, 2013.
37. Le Cozannet G., Garcin M., Petitjean L., Cazenave A., Becker M., Meyssignac B., Walker P., Devilliers C., Lebrun O., Lecacheux S., Baills A., Bulteau T., Yates M., Wöppelmann G., Exploring the relation between sea level rise and shoreline erosion using reconstructions: an example in French Polynesia, *J. Coastal Research*, 65,doi: 10.2112/SI65-361.1 2013.
38. Woppelmann G., Le Cozannet G., de Michele M., Raucoules D., Cazenave A., Garcin M, Hanson S, Marcos M. and Santamaría-Gómez A. Is land subsidence increasing the exposure to sea level rise in Alexandria, Egypt? *Geophys. Res. Lett.*, vol 40, 1-5, doi:10.1002/grl.50568, 2013.
39. Meyssignac B., Lemoine J.M., Cheng M., Cazenave A., Gegout P. and Maisongrande P., Interannual variations in degree-two Earth's gravity coefficients C2,0, C2,2 and S2,2 reveal large-scale mass transfers of climatic origin, *Geophys. Res. Lett.*, 40, 1-6, doi:10.1002/grl.50772, 2013.
40. Peng D., Palanisamy H., Cazenave A. and Meyssignac B., Sea level change and variability in the South China Sea over 1950-2009, *Marine Geodesy*, 36:2,164-182, doi: 10.1080/01490419.2013.771595, 2013.
41. Hollmann R. et al. (including Cazenave), The ESA Climate Change Initiative: satellite data records for essential climate variables *Bull. American Meteor. Soc.*, doi: 10.1175/BAMS-D-11-00254., online publication March 2013.
42. Cazenave A., O. Henry, S. Munier, B. Meyssignac, T. Delcroix, W. Llovel, H. Palanisamy and M. Becker, ENSO influence on the global mean sea level over 1993-2010, *Marine Geodesy*, 35(S1), 82-97, 2012.

43. Rahmstorf S., Foster G. and Cazenave A., Comparing climate projections to observations : an update; *Environmental Res. Lett.*, 7, 044035, doi:10.1088/1748-9326/7/4/044035, 2012.
44. Prandi P., Ablain M. Cazenave A. and Picot N., Sea level variability in the Arctic Ocean observed by satellite altimetry, *Ocean Science Discussions*, 9 (4), 2375–2401, doi:10.5194/osd-9-2375-2012. *Ocean Sciences*, 2012.
45. Munier S., Palanisamy H., Maisongrande P., Cazenave A. and Wood E., Global runoff over 1993-2009 estimated from coupled Land-Ocean-Atmosphere water budgets and its relation with climate, *Hydrol. Earth Sys. Sci.*, 16, 3647-3658, doi:10.5194/hess-16-3647-2012, 2012.
46. Henry O., P. Prandi, W. Llovel, A. Cazenave, S. Jevrejeva, D. Stammer , B. Meyssignac, N. Koldunov, Sea level variations since 1950 along the coasts of the Arctic Ocean, 117, C06023, doi:10.1029/2011JC007706, *J. Geophys. Res.*, 2012.
47. Meyssignac B. and Cazenave A., Sea level : a review of present-day and recent-past sea level change and variability, *J. Geodyn.*, 58, 96-109, 2012.
48. Meyssignac B., Salas-Melia D, Becker M, Llovel W. and Cazenave A., Spatial trend patterns in observed sea level: internal variability and/or anthropogenic signature ? *Climate of the Past*, 8, 787-802, doi:10.5194/cp-8-787-2012, 2012.
49. Meyssignac B., Becker M., Llovel W., Cazenave A. An assessment of two-dimensional past sea level reconstructions over 1950 -2009 based on tide gauge data and different input sea level grids, *Surveys in Geophysics*, doi:10.1007/s10712-011-9171-x, 2012.
50. Prandi P. Ablain M., Cazenave A. and Picot N., A new estimation of mean sea level in the Arctic Ocean from satellite altimetry, 35(S1), 61-81, *Marine Geodesy*, 2012.
51. Becker M., Meyssignac B., Llovel W., Cazenave A. and Delcroix T. Sea level variations at Tropical Pacific Islands during 1950-2009. *Global and Planetary Change*, 80/81, 85-98, 2012.
52. Palanisamy H., Becker M., Meyssignac B. and Cazenave A., Regional Sea Level Change and Variability in the Caribbean Sea since 1950, *Int. J. Geosci.*, 2(2), 125-133, doi:10.2478/v10156-011-0029-4, 2012.
53. Cazenave A. and Remy F., Sea level and Climate: observation and causes of changes, *Wiley Interdisciplinary Reviews : Climate Change*, vol.2, 647-662, 2011.
54. Llovel W., Meyssignac B. and Cazenave A., Steric sea level variations over 2004-2010 as a function of region and depth; Inference on the ocean mass component in the North Atlantic, *Geophys. Res. Lett.*, 38, L15608, doi:10.1029/2011GL047411, 2011.
55. Biancamaria S., Cazenave A., Mognard N., Llovel W. and Frappart F., Satellite-based high latitudes snow volume trend, variability and contribution to sea level over 1989/2006 , *Global and Planet. Change*, 75, 99-107, doi:10.1016/j.gloplacha2010.10.011, 2011.
56. Becker M. , Meyssignac B., Xavier L., Cazenave A., Alkama R. and Decharme B. , Past terrestrial water storage (1980-2008) in the Amazon Basin reconstructed from GRACE and in situ river gauging data, *Hydrol. Earth Syst. Sci*, 15, 533-546, doi:10.5194/hess-15-533, 2011.
57. Llovel W., Becker M., Cazenave A., Jevrejeva S., Alkama R., Decharme B., Douville H., Ablain M. and Beckley B., Terrestrial waters and sea level variations on interannual time scale, *Global Planet. Change*, 75, 76-82, doi.10.1016/j.gloplacha2010.10.008, 2011.
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