

**June 2016**  
**CURRICULUM VITAE**

**Anny CAZENAVE**

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**Education:**

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

**Professional experience:**

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

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

Senior Scientist at the '*Laboratoire d'Etudes en Géophysique et Océanographie Spatiales*' (LEGOS), *Centre National d'Etudes Spatiales (CNES)*, Toulouse, France ;

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

**Research interest : Application of space techniques to geosciences**

Satellite geodesy and space research in Earth sciences : 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).

Sea level variations at regional and global scales (observation from satellite altimetry and tide gauges; study of climatic causes: ocean thermal expansion and salinity effects, mass balance of the ice sheets, land water storage change, projections.); Water cycle and land hydrology from space; Climate research.

**Publications:**

210+ articles in peer-reviewed international journals; Several monograph chapters; Editor of 7 books (including: 'Remote sensing and Water Resources', Cazenave et al. Editors, Space science series of ISSI, Springer, 2016; 'Satellite altimetry over oceans and land surfaces', Stammer & Cazenave Editors, Earth observation of global changes book series, CRC Press, to appear in 2017; 'Satellite Altimetry and Earth Sciences. A handbook of Techniques and Application, Fu & Cazenave Editors, Academic Press, International Geophysics Series, Vol. 69, San Diego, USA, 463 pages, 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 'Earth Sciences' at the *International Space Science Institute*; Member of the Joint Scientific Committee (JSC) of WCRP (*World Climate Research 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 5<sup>th</sup> Assessment Report (*Sea Level chapter*) (2007-2013) and of the 4<sup>th</sup> Assessment Report (*Ocean climate and sea level chapter*) (2004-2007); Panel 'Advanced Grant, Earth System Sciences' of ERC (*European Research Council*) (2008-2015); '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); President of the Geodesy Section of the EGU (*European Geosciences Union*) (1999-2004).

### **National Responsibilities:**

#### **Current**

Member : Conseil d'administration of MeteoFrance ; 'Conseil Supérieur des Programmes', French Ministry of Education; 'Comite d'Orientation Strategique' of IRD (*Institut de Recherche pour le Developpement*).

#### **Recent Past (last decade only)**

Chair : Scientific Council of MeteoFrance (2010-2015), and of the 'Agence de l'Eau du bassin Adour-Garonne' (2010-2013).

Member: Conseil d'administration of CNRS (*Centre National de la Recherche Scientifique*) (2009-2015); Scientific Council of the *Ecole Polytechnique* (2014-2016); Scientific Council of the *Institut Oceanographique de Monaco* (2009-2012) ; Committee of the 'Chaires Blaise Pascal' (Region Ile de France) (2004-2011); 'Comite Strategique et Technique de la Flotte francaise' (*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 Senat ' (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 'Senior' (*Institut Universitaire de France*) (2005-2006); CNER (*Comite National d'Evaluation de la Recherche*) (1999-2005).

### **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 (in progress).

### **Teaching:**

Space geodesy lessons at the University of Toulouse (1981-2000), University of Paris 6 (1983-1988), Ecole Nationale des Techniques Avancées (ENSTA) (1975-1983).

Teaching 'Observing the Earth and environment from space', annual chair 2012-2013 'Développement Durable-Environnement, Energie et Société', Collège de France (2012-2013).

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

#### **Current and recent past only**

Scientific coordinator of the 'sea level' project of ESA (*European Space Agency*) 'Climate Change Initiative' (9 partner teams) (2010-2016); 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, Envisat) for sea level studies.

### **Editorial responsibilities:**

Current: Invited 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*):**

2016: ESA Living Planet Symposium (Prague); CLIVAR open science conference (Qingdao); Academy of sciences, Morocco;

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 Belgium (Brussels), 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, China); Department of Geosciences at Princeton University (USA)

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

2010: 3<sup>rd</sup> bi-annual symposium on ‘*Future Ocean*’ of the Leibniz Institute of Marine Sciences (Kiel, Germany); ISSI workshop on ‘*the Earth’s cryosphere and sea level change*’ (Bern, CH); IPCC workshop on ‘*Sea level rise and ice sheet instabilities*’ (Kuala Lumpur, Malaysia); 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, DK); ‘*Sea level rise and coastal flooding - understanding the risk*’ workshop of the Royal Society (London, UK); ‘*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, USA); ERCA (*European Research Courses on Atmospheres*), Grenoble.

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

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

2006: *Holmes Lecture* of the European Geosciences Union (Vienna, Austria); UNESCO workshop on ‘*Understanding sea level rise and variability*’ (Paris); Indian Science Institute (Bangalore, India); NGRI (Hyderabad, India)

#### **Honors and Awards:**

##### **Academies**

Member of the *French Academy of Sciences* (2004); Foreign member of the *National Academy of Sciences* (NAS, USA) (2008); Foreign fellow of the *Indian National Science Academy (INSA)*, New Delhi (2012); Foreign member 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**

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<sup>er</sup> 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 -June 2016-

### 1. International peer-reviewed journals

1. 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, in revision, *Environmental Research Letters*, 2016.
2. 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.
3. Carret A., Johannessen J., Andersen O., Ablain M., Prandi P., Blazquez A. and Cazenave A., Arctic sea level during the altimetry era, in review, *Surveys in Geophysics*, 2016.
4. 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, in review, *Surveys in Geophysics*, 2016.
5. Ablain M., Legeais J.F., Prandi P., Fenoglio-Marc L., Marcos M., Benveniste J. and Cazenave A., Altimetry-based sea level, global and regional, in review, *Surveys in Geophysics*, 2016.
6. 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.
7. 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.
8. 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. 2015.
9. 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.
10. 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.
11. 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.
12. 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.
13. Cazenave A., Sea level rise, *Oxford Bibliographies*, 2015.
14. 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.
15. 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.
16. 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.
17. Cazenave A. Anthropogenic global warming threatens world cultural heritage, *Environ. Res. Lett.*, 9, doi:10.1088/1748-9326/9/5/051001, 2014.
18. Cazenave A. and Le Cozannet G., Sea level rise and coastal impacts, *Earth's Future*, vol2, issue2, 15-34, doi :10.1002/2013EF000188, 2014.
19. 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.
20. 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.

21. 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.
22. 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.
23. 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.
24. Stammer D., Cazenave A., Ponte R. and Tamisiea M., Contemporary regional sea level changes, *Annual Review Marine Sciences*, 5, 21–46, 2013.
25. Church J. Clark P., Cazenave A. et al, Sea level rise by 2100, *Science*, Vol. 342 Issue 6165, p1445-1445, 2013.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. Cazenave A. and Remy F., Sea level and Climate: observation and causes of changes, *Wiley Interdisciplinary Reviews : Climate Change*, vol.2, 647-662, 2011.

43. 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.
44. 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.
  45. 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.
46. 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.
  47. Meyssignac B., Calafat F., Somot S., Rupolo V., Stocchi P., Llovel W. and Cazenave A., Two-dimensional reconstruction of the Mediterranean sea level over 1970 - 2006 from tide gauge data and regional ocean circulation model outputs, *Global Planet. Change*, doi:10.1016/j.gloplacha.2011.03.002, Published on line, 2011.
  48. Nicholls R. and Cazenave A., Sea level change and the impacts in coastal zones, *Science*, 328, 1517-1520, 2010.
  49. Cazenave A. and Chen J., Time-variable gravity from space and present-day mass redistribution in the Earth system, *Earth Planet. Sci. Lett.*, 298, 263-274, 2010.
50. Cazenave A. and W. Llovel, Contemporary sea level rise, *Annual Rev. of Marine Sciences*, 2, 145-173, 2010.
  51. Llovel W., Guinehut S. and Cazenave A., Regional variability in sea level over 2002 – 2009 based on satellite altimetry, Argo float data and GRACE ocean mass, *Ocean Dynamics*, 60, 1193-1204, doi:10.1007/s10236-010-0324-0, 2010.
  52. Milly P.C.D., Cazenave A., Famiglietti J., Gornitz V., Laval K., Lettenmaier D., Sahagian D., Wahr J. and Wilson C. Terrestrial water storage contributions to sea level rise and variability, Proceedings of the WCRP workshop ‘Understanding sea level rise and variability’, eds. J. Church, P. Woodworth, T. Aarup and S. Wilson et al., Blackwell Publishing, Inc., 2010.
  53. Roemmich D., J. Willis, J. Gilson, D. Stammer, A. Koehl, T. Yemenis, D. P. Chambers, F. Landerer, J. Marotzke, T. Suzuki, J. Church, A. Cazenave and P. Y Letraon, Global Ocean Warming and Sea Level Rise Proceedings of the WCRP workshop ‘Understanding sea level rise and variability’, eds. J. Church, P. Woodworth, T. Aarup and S. Wilson et al., Blackwell Publishing, Inc., in press, 2010.
  54. Alkama R., Decharme B., Douville H., Becker M., Cazenave A., Sheffield J., Voltaire A., Tyteca S., Le Moigne P., Global evaluation of the ISBA-TRIP continental hydrologic system; Part 1 : a two-fold constraint using GRACE terrestrial water storage estimates and in situ river discharges *J. Hydrometeorology*, 11, 583-600, 2010.
  55. Decharme B., Alkama R., Douville H., Becker M., Cazenave A., Sheffield J., Voltaire A., Tyteca S., Le Moigne P., Global evaluation of the ISBA-TRIP continental hydrologic system using GRACE; Part 2 : results, *J. Hydrometeorology*, 11, 601- 617, 2010.
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