



INTERNATIONAL WCRP/IOC CONFERENCE 2017
**Regional Sea Level Changes
and Coastal Impacts**

Poster sessions

TUESDAY
July 11th, 2017

Note:

All posters may be left up for the entire day. Presenters are only required to stand by their poster during the official presentation time for their assigned session

Session 1: Paleo sea level data and GIA modelling

Presentation time: Tuesday, 11am-12.30pm

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Paper ID	Presenting Author	Submitting Author	Title	Session ID	Poster Board #
228	Bender, Maren	Bender, Maren	A Holocene Sea-Level Database For Southeast Asia	1	1
224	Berends, Tijn	Berends, Tijn	Modelling The Influence Of Lake Agassiz On Glacial Isostatic Adjustment And The Deglaciation Of The Laurentide Ice Sheet	1	3
112	Carraro, Filippo	Carraro, Filippo	The "Nora And The Sea" Project: The Sunken And The Flooding City	1	5
298	Dabhi, Madhavi	Dabhi, Madhavi	Holocene Climatic Reconstruction From Coastal Dunes Of The Western Kachchh, India	1	7
290	Dentzien Dias, Paula	Dentzien Dias, Paula	Trace fossils as an indicative of Paleo-coastlines faunal change during the Quaternary in southern Brazil	1	9
294	Dias Francischini, Paula Dentzien	Tâmega, Frederico	Paleo Sea-Level analysis based on vermetid-coralline outcrops from the Holocene of southeastern Brazil	1	11
233	Gehrels, Roland	Gehrels, Roland	Rapid Pre-Industrial Sea-Level Rise in the Northwest Atlantic Ocean	1	13
362	Grall, Céline	Grall, Céline	Balance Of Subsidence And Sediment For The Sustainability Of The Ganges-Meghna-Brahmaputra Delta Plain During Periods Of Sea-Level Rise	1	15
409	Khan, Nicole	Khan, Nicole	6000-year Records Of Relative Sea-level Change From South Florida	1	17
400	King, Matt	Whitehouse, Pippa	SERCE Scientific Research Programme: Solid Earth Response and influence on Cryosphere Evolution	1	19
240	Kirby, Jason	Hamilton, Christine	Reconstructing geomorphological response of barrier estuary to Holocene changes in relative sea level and sediment supply	1	21
288	Kirby, Jason	Kirby, Jason	Detecting sub-millennial relative sea-level changes from salt-marsh environments in the Mediterranean: new records from the Adriatic	1	23

227	Lorscheid, Thomas	Lorscheid, Thomas	Numerical Modelling Of The Indicative Meaning Of Sea-Level Indicators In Pleistocene Sea-Level Studies	1	25
116	Mann, Thomas	Mann, Thomas	Geophysical modeling results and mid-Holocene relative sea-level data from Northern Java, Indonesia	1	27
354	Müller-Navarra, Katharina	Müller-Navarra, Katharina	Sea-level And Storm-flood History Of The Last Century Documented In A Salt Marsh Succession From The Southern North Sea	1	29
457	Naish, Tim	Naish, Tim	Antarctic-Sourced, Orbitally-Paced Global Sea-Level Changes During the Pliocene	1	31
404	Peteet, Dorothy M	Peteet, Dorothy	Sea Level History and Paleoecology of Yellow Bar and JoCo Marshes, Jamaica Bay, New York City	1	33
192	Richards, Geoffrey	Richards, Geoffrey	Exploiting new Holocene sea-level archives to inform future sea-level predictions: an example from Wales	1	35
190	Rovere, Alessio	Rovere, Alessio	Superstorms at the end of the Last Interglacial (MIS 5e, ~128-116 ka)? Modeling paleo waves and the transport of giant boulders.	1	37
339	Rovere, Alessio	Vacchi, Matteo	Past sea-levels reconstruction as tool to quantify the post-industrial sea-level rise acceleration along the Mediterranean coastlines	1	39
193	Sasgen, Ingo	Sasgen, Ingo	A new glacial-isostatic adjustment for Greenland based on relative sea-level data and GPS uplift rates	1	41
309	Steffen, Holger	Steffen, Holger	The improved semi-empirical Fennoscandian postglacial land uplift model NKG2016LU	1	43
411	Steponaitis, Elena	Steponaitis, Elena	Global Perspectives on a New Early Holocene Relative Sea-Level Record from the Mississippi Delta	1	45
363	Strunk, Astrid	Strunk, Astrid	Using Relative Sea-Level Data to Constrain the Lateglacial and Holocene History in McCormick Fjord, NW Greenland	1	47
325	Toth, Lauren T.	Toth, Lauren	A Statistical Framework for Developing Coral-Based Reconstructions of Relative Sea Level	1	49
342	Walker, Jennifer	García-Artola, Ane	The Common Era Sea-Level History of Delaware Bay, U.S. mid-Atlantic coast	1	51
299	Walker, Jennifer	Shaw, Timothy	Relative Sea-Level Changes From The Chesapeake Bay Over The Past 4000 Years	1	53
205	Walker, Jennifer	Walker, Jennifer	Examining spatial variability in relative sea-level in the New York City/New Jersey region during the Common Era	1	55
394	Wilson, Terry	Wilson, Terry	GIA in West Antarctica: Improved constraints from crustal motion measurements from the POLENET Antarctic GPS Network	1	57
318	Xiong, Haixian	Xiong, Haixian	Early Holocene Sea Level Rise in the Pearl River Estuary, China	1	59

Session 2: Millennial-scale ice sheet and sea level interactions

Presentation time: Tuesday, 11am-12.30pm

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Paper ID	Presenting Author	Submitting Author	Title	Session ID	Poster Board #
220	de Boer, Bas	de Boer, Bas	Orbitally driven Late Pliocene climate changes and their relation to ice volume and relative sea-level change	2	61
396	Lipovsky, Bradley Paul	Lipovsky, Brad	The Grounding Line Instability in a Full Stokes Ice Sheet Model with Frictional Sliding	2	63
437	Mengel, Matthias	Mengel, Matthias	Antarctica's Ice Under Future Warming: Between Instability And Linear Response	2	65
293	Sasgen, Ingo	Konrad, Hannes	Can a weak solid Earth structure preserve the West Antarctic Ice Sheet?	2	67

Session 3: Contemporary contributions from ice sheets and glaciers

Presentation time: Tuesday, 11am-12.30pm

Note: All posters may be left up for the entire day. Presenters are only required to stand by their poster during the official presentation time for their assigned session.

Paper ID	Presenting Author	Submitting Author	Title	Session ID	Poster Board #
347	Adhikari, Surendra	Adhikari, Surendra	Mass Transport Waves Derived from Geodetic Observation of Greenland Crustal Deformation During the Intense Melt Years	3	69
460	Alexander, Patrick M.	Alexander, Patrick	Impact of ice sheet surface processes on Greenland surface mass balance in the NASA GISS ModelE2 GCM	3	71
185	Bamber, Jonathan	Bamber, Jonathan	Land ice contribution to SLR during the satellite era	3	73
365	Cullather, Richard	Cullather, Richard	Ice Sheet Surface Mass Balance Contributions to Global Sea Level From Contemporary Atmospheric Reanalyses	3	75
378	Das, Indrani	Das, Indrani	Mass Balance and Structure of the Ross Ice Shelf, Antarctica	3	77
397	Hall, Dorothy K.	Hall, Dorothy	Analysis Of Surface Melt Of The Greenland Ice Sheet Using A New Multi-Layer MODIS Surface Temperature-Albedo Product	3	79
350	Hay, Carling	Hay, Carling	The Resolution Of Melt Contribution Sources In Sea-Level Fingerprint Studies	3	81
167	Horwath, Martin	Horwath, Martin	Ice sheet contributions to ocean mass change: consistent data products from GRACE	3	83
175	Kumar, Pavan	Kumar, Pavan	Impact of Retreating Glacier Dynamics over the Last Quarter of a Century on Sea Level using Optical Sensors Time Series and Satellite Altimetry Data	3	85
390	Madsen, Kristine	Mottram, Ruth	Sources Of Uncertainty In The Greenland Ice Sheet Contribution To Sea Level Rise	3	87
423	Pattyn, Frank	Pattyn, Frank	Impact of 1.5°C global warming on the Greenland and Antarctic ice sheets	3	89

335	Petersen, Mark	Petersen, Mark	Validation of Ocean-Ice Shelf Interactions in the Accelerated Climate Model for Energy (ACME)	3	91
336	Rhein, Monika	Rhein, Monika	Distribution of glacial melt near and off Greenland	3	93
247	Tedesco, Marco	Tedesco, Marco	The Greenland ice sheet: linking surface, atmospheric and ocean for improved sea level rise estimates	3	95
328	Wolfram, Phillip	Wolfram, Phillip	Quantifying mixing across the shelf break in an idealized Southern Ocean via effective diffusivity	3	97

Session 4a: Contemporary sea level change

Presentation time: Tuesday, 4pm-5.30pm

Note: All posters may be left up for the entire day. Presenters are only required to stand by their poster during the official presentation time for their assigned session.

Paper ID	Presenting Author	Submitting Author	Title	Session ID	Poster Board #
244	Akinyemi, Marvel	Akinyemi, Marvel	Comparative Analysis of Sea Level Changes in Seven Stations on the Upper Atlantic	4a	2
426	Alakkat, Unnikrishnan	Alakkat, Unnikrishnan	Characteristics of extreme sea level in the Bay of Bengal and changes in the recent past – An overview	4a	4
433	Albrecht, Frauke	Albrecht, Frauke	Anthropogenic Influence on Sea Level Change in the South Pacific and associated Changes in the Subtropical Gyre Circulation in the 20th Century	4a	6
225	Bamber, Jonathan	Schumacher, Maike	First results from an integrated approach for estimating GIA, land ice, hydrology and ocean mass trends within a complete coupled Earth system framework	4a	8

398	Baringer, Molly	Baringer, Molly	Slowdown of the Gulf Stream during 1993-2013	4a	10
448	Boeira Dias, Fabio	Boeira Dias, Fabio	Ocean Heat Uptake and Redistribution in Contemporary Simulations of the Australian ACCESS Ocean-Sea Ice Model Forced by CORE-II and JRA-55 Atmospheric Reanalyses	4a	12
303	Benveniste, Jérôme	Cipollini, Paolo	CryoSat-2 Fitness for Sea Level Studies: a Global Evaluation	4a	14
305	Benveniste, Jérôme	Cipollini, Paolo	The Importance of 35-Day-Repeat Envisat and AltiKa Data on Estimates of the Mean Sea Level Evolution	4a	16
127	Cazenave, Anny	Cazenave, Anny	Sea Level Budget of the Altimetry Era Revisited	4a	18
216	Cheng, Xuhua	Cheng, Xuhua	Interannual-to-decadal variability of sea level in the South China Sea	4a	20
366	Crout, Richard L	Crout, Richard	Broad, Shallow Shelf Sea Surface Height Variability	4a	22
200	Dangendorf, Sönke	Dangendorf, Sönke	A Reconciled Estimate Of Twentieth Century Global Mean Sea-level Rise	4a	24
243	Dangendorf, Sönke	Schmidt, Jessica	Temporal And Spatial Variability Of The Seasonal Cycle In The Baltic Sea	4a	26
320	Davis, James	Davis, James	Using the Tide-Gauge Record to Detect Sea-Level Fingerprints of Accelerated Ice Loss from Greenland and Antarctica	4a	28
447	Domingues, Catia	Pittman, Nicholas	Global and spatio-temporal changes in upper-ocean thermal expansion from the perspective of an ensemble of XBT bias-corrected estimates and contribution to multidecadal sea level rise	4a	30
211	Domingues, Ricardo	Domingues, Ricardo	Remote sources of Florida Current variability on seasonal time-scales: links with coastal sea-level variability along the east coast of United States	4a	32
146	Du, Ling	Du, Ling	Connection of regional sea level variations and costal vulnerability in the East China Sea with large-scale sea-air interaction in the Pacific Ocean	4a	34
326	Durack, Paul	Durack, Paul	Revisiting Multi-decadal Changes to Temperature and Salinity in the Ocean Interior: A CMIP Ocean Analysis in Density Coordinates	4a	36

333	Dutton, Andrea	Dutton, Andrea	Migration and timing of sea-level rise hot spots along the U.S. Atlantic coast	4a	38
369	Fenoglio, Luciana	Fenoglio, Luciana	Coastal sea level from Delay Doppler altimetry along the North-Eastern Atlantic Shelf	4a	40
124	Ferrero, Bruno	Ferrero, Bruno	Global and Regional Sea Level in CMIP5 Models: piControl and historical Scenario	4a	42
380	Forget, Gaël	Forget, Gaël	Tropical And Coastal Pacific Sea Level Variability: Adjoint Reconstruction, Mechanisms, And Uncertainties	4a	44
182	Frederikse, Thomas	Frederikse, Thomas	The sea level budget along the Northwest Atlantic coast: GIA, mass changes and large-scale ocean dynamics	4a	46
207	Frederikse, Thomas	Frederikse, Thomas	Observations of Sea Level Rise Versus the Sum of Contributors: a Comparison on Local, Basin, and Global Scales	4a	48
267	Fukumori, Ichiro	Fukumori, Ichiro	Sea level variations over 1992-2015 analyzed with the latest ECCO Ocean State Estimate	4a	50
265	Goni, Gustavo	Goni, Gustavo	A Proposed Initiative to Use Existing and New Ocean Observing Platforms to Assess Attributions of Sea Level Changes in Southeast Florida	4a	52
373	Hamlington, Benjamin	Hamlington, Benjamin	Separating Decadal Global Water Cycle Variability From Sea Level Rise	4a	54
270	Hausman, Jessica	Hausman, Jessica	Comparison of Altimetric Datasets Along the Greenland Coast	4a	56
358	Heimbach, Patrick	Heimbach, Patrick	The Next-generation ECCO Global Ocean State and Parameter Estimation Infrastructure: Products and Tools in Support of Sea Level Science	4a	58
408	Hong, Bo	Hong, Bo	Sea Level trend and its variability in the South China Sea	4a	60
239	Horwath, Martin	Horwath, Martin	Sea level budget closure: status and prospects from an integrative study within ESA's Climate Change Initiative	4a	62
291	Ionita-Scholz, Monica	Ionita-Scholz, Monica	Climate induced variability of the mean sea level in the German Bight	4a	64

292	Ionita-Scholz, Monica	Ionita-Scholz, Monica	Decadal trends of mean sea level variability in the German Bight, eastern North Sea	4a	66
304	Ishii, Masayoshi	Ishii, Masayoshi	Accuracy of Global Upper Ocean Heat Content Estimation	4a	68
279	Jeong, Kwang-Young	Jeong, Kwang-Young	Rising Sea Level Trends around the Korea Peninsula with Tide Gauge Records	4a	70
229	Jeong, Kwang-Young	Lim, Chaewook	A Study on the Sea Level Rise due to the Density Change of Jeju Island	4a	72
118	Kenigson, Jessica	Kenigson, Jessica	Decadal Change of NAO Influence on Interannual Sea Level Variability along the US Atlantic Coast	4a	74
138	Kleinherenbrink, Marcel	Kleinherenbrink, Marcel	Trends and interannual variability of mass and steric sea level in the Tropical Asian Seas	4a	76
154	Koehl, Armin	Koehl, Armin	On the Potential to Detect Climate Change Signals in Observed Regional Sea Level Trends	4a	78
102	Komis, Ioannis	van de Wal, Roderik	A Comparison Of Observed And Modelled Relative Sea-level Change Over The Satellite Observational Period 1993-2013	4a	80
	Kondrashov, Dmitri	Kondrashov, Dmitri	Data-adaptive harmonic analysis of North-Atlantic sea level variability	4a	82
197	Kumar, Vandhna	Kumar, Vandhna	Multi-linear Regression of Sea Level in the South West Pacific as a First Step Towards Local Sea Level Projections	4a	84