

Monday, 5 Ma	arch 2018	
Time	Topic	Speaker
12:30-13:30	Registration in ISSI, Hallerstrasse 6, 1 <sup>st</sup> f	loor
13:30-13:45	Welcome and Introducing ISSI	Anny Cazenave (ISSI)
13:45-14:00	Objectives of the Workshop	Benoît Meyssignac (LEGOS)
Session 1: Intr	oductory session	Chairperson: Detlef Stammer
14:00-14:30	Sea level rise at global scale	Benoît Meyssignac (LEGOS)
14:30-15:00	Regional sea level change; contribution	Catia Domingues (Univ.
	from thermal expansion	Tasmania)
15:00-15.30	Sea level rise projections at global and regional scales	Mark Carson (UoH)
15:30-16:00	Interactions between large-scale ocean dynamics and sub-mesoscale processes; impacts on coastal sea level	Tal Ezer (Old Dominion Univ.)
16:00-16:30	Coffee Break	
16:30-17:00	Forcing factors causing sea level changes in the coastal zone	Phil Woodworth (NOC)
17:00-17:30	Observed changes of coastal sea level	Marta Marcos (IUB)
17:30-18:00	Knowns and unknowns about past and future influence of climate modes on coastal sea level	Weiqing Han (Univ, Colorado)
18:00	Welcome Re	ception



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small-scale (edon the coasta	nteractions between the large-scale and ddy, wave) circulations and their impacts al zone sea level at seasonal to multicales (observations and modelling)	Chairperson: Rui Ponte
9:00-9:30	Propagation of coastal trapped wave and impact on coastal sea level (e.g. west coast of Australia, east coast of India, western coast of Europe, eastern boundary regions including upwelling systems)	Keith Thompson (Dalhousie Univ.) Presentation made by Rui Ponte
9:30-10:00	Open ocean vs. coastal sea level in regions of strong western boundary currents and eddy fields (including relative effects of interior vs. along boundary effects)	Shoshiro Minobe (Hokaiddo Univ.)
10:00-10:30	High latitudes and influence of boundary-trapped waves	Ichiro Fukumori (JPL)
10:30-11:00	Coffee Bre	eak
11:00-11:30 11:30-12:30	Influence of the intrinsic ocean variability on the coastal sea level  General discussion	Thierry Penduff (Univ. Grenoble)
12:30-14:00	Lunch Bre	All participants  ak
	cing agents at work in the coastal zones ct on coastal sea level	Chairperson: Catia Domingues
14:00-14:30	Role of wind and atmospheric pressure on sea level variability on shelves	Christopher Piecuch (WHOI)
14:30-15:00	Role of river run-off on coastal sea level variability	Fabien Durand (LEGOS)
15:00-15:30	Coastal tides in a changing climate	Richard Ray (NASA/GSFC)
15:30-16:00	Effect of waves setup and runup on coastal sea level	Angélique Melet (MERCATOR)
16:00-16:30	Coffee Bre	eak
16:30-17:00	The GODAE OceanView COSS-TT: towards seamless transition from large-scale ocean forecasting to the coastal scales	Mauro Cirano (Univ. Rio de Janeiro)
17:00-18:00	General discussion	All participants



Wednesday, 7	' March 2018	
Time	Topic	Speaker
	cing agents at work in the coastal zones ct on coastal sea level (continued)	Chairperson: Lee-Lueng Fu
9:00-9:30	Distant source wind-waves and coastal sea level	Fabrice Ardhuin (IFREMER)
9:30-10:00	Impact of bathymetry on coastal circulation	Chris Hughes (Univ. Liverpool)
10:00-10:30	General discussion	All participants
10:30-11:30	Coffee B	reak
=	acts of internal climate variability (climate AMO, PDO, IPO, SAM, IOD, AMV, etc.) on el	Chairperson: Stephen Griffies
11:30-12:00	Quantification of open ocean vs. coastal sea level variance related to different climate modes, as function of region and timescale	Xuebin Zhang (CSIRO)
12:00-12:30	What are specific local and remote processes causing coastal sea level variability related to climate modes	Phil Thompson (Univ. Hawaii) (withdrawn)
12:30 -14:00	Lunch Break	
14:00-14:30	Possible future changes in climate mode behavior and impact on coastal sea level	Detlef Stammer (UoH)
14:30-15:00	General Discussion	All participants
	servations of coastal sea level; n, uncertainties, improvements	Chairperson Phil Woodworth
15:00-15:30	Vertical land movement from observations (GNSS, InSAR & altimetry minus tide gauges)	Guy Woppelmann (LIENSs)
15:30-16:00	Ocean bottom pressure, SST, SSS, & other ancillary data in the coastal zone	Rui Ponte (AER)
16:00-16:30	Coffee B	reak
16:30-17:00	General discussion or free time	All participants
19:00	Dinner hosted	d by ISSI



Time	Topic	Speaker
	servations of coastal sea level;	-
	on, uncertainties, improvement (continued)	Chairperson: Anny Cazenave
09:30-10:00	Sea level measurement in the coastal	Stefano Vignudelli (CNR)
	zone from satellite altimetry; current	
	problems and perspectives	
10:00-10:30	Coastal altimetry: impact of geophysical	Florence Birol (LEGOS)
	corrections near the coast	
10:30-11:00	Coffee Br	eak
11:00-11:30	Coastal altimetry: perspective from new	Jérôme Benveniste (ESA)
	altimetry missions (SAR altimetry on	,
	Cryosat-2 and Sentinel-3)	
11:30-12:00	Coastal altimetry: perspective from new	Lee-Lueng Fu (JPL)
	altimetry missions (SWOT)	
12:00-14:00	Lunch Bro	eak
Session 6: Co	astal (absolute and relative) sea level	Chairperson: Benoit
projections		Meyssignac
14:00-14:30	Future coastal dynamic sea level in	Stephen Griffies (GFDL)
	response to GHG emissions: Do high	
	resolution climate models show a different	
	response from open –ocean sea level	
	response	
14:30-15:00	Uncertainty in future coastal sea level	Laure Zanna (Oxford Univ.)
	due to climate model error associated	
	with the uncertainty in the parametrization	
	of mesoscale eddies	
15:00-15:30	Uncertainties on ice sheet dynamics	Roderik van de Wal (Utrecht Univ.)
	evolution and future global mean sea	
	level rise, impact on coastal sea level	
15:30-16:00	Future coastal sea level rise due to deep	Kristin Richter (Univ. Innsbruck)
	ocean expansion and shelf mass loading	
16:00-16:30	Coffee Br	eak
16:30-17:00	Probabilistic projections at the coast	Svetlana Jevrejeva (NOC)
17:00-17:30	Effect of internal climate variability on	Mélanie Becker (Univ. La
	coastal sea level projections	Rochelle)
17:30-18:00	Coastal sea levels altered by interactions	Deborah Idier (BRGM)
	processes between sea-level rise, tides,	
	processes between sea-levernse, tides,	



### ISSI Workshop Programme, 5-9 March 2018

Time	Topic	Speaker
Session 7: Ge	neral discussion; Recommendations for	
future improvemodeling	ements in terms of observations and	Chairperson: R. van de Wal
9:00-10:00	General discussion; Recommendations	All participants
10:00-10:30	Preparation of the Special Issue for the Survey in Geophysics journal: Definition of overview articles and authorship	All participants
10:30-11:00	Coffee Break	
11:00-12:00	Preparation of the Special Issue for the Survey in Geophysics journal: Definition of overview articles and authorship	All participants

### **End of meeting**