

Wednesday 10 October @ Quartz conference center

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08:00 - 09:00	Registration		
09:00	Welcome (C. Donlon) and practical aspects (C. Peureux)		
09:10	Session 1: Measuring currents from space: principles, achievements and projects – Chair: C. Donlon		
09:10	B. Chapron	Remote sensing of surface currents	
09:30	R. Romeiser	Lessons learned from current measurements with TerraSAR-X and TanDEM- X, 2018 edition	
09:50	F. Ardhuin et al.	The Sea surface Kinematics Multiscale (SKIM) mission: objectives, status, and ongoing developments.	
10:10	Coffee break		
10:30	Session 1 (continued) – Chair: B. Chapron		
10:30	E. Rodriguez et al.	DopplerScatt Results: what we have learned and implications for a winds and currents Mission	
10:50	C. Gommenginger et al.	SEASTAR: a new mission for high-resolution imaging of ocean surface current and wind vectors from space	
11:10	P. Loppez-Dekker et al.	Multistatic observations of surface wind and current vectors with the STEREOID mission	
11:30	Session 2: Oceanographic applications 1 – Chair: C. Maes		
11:30	S. Cravatte	Needs in near-surface currents observations in the equatorial and tropical oceans	
11:50	F. Collard et al.	Routine Doppler analysis from Envisat and Sentinel 1 and first oceanographic applications	
12:10	A. Rubio	Combining land-based HF radar data with in-situ and satellite data for studying coastal mesoscale processes in the south-eastern bay of Biscay	
12:30	Lunch break		
13:45	Discussion – Moderator: C. Donlon How can the different Doppler mission concepts address the needs of the oceanographic community, alone or in synergy with other satellite and in situ sensors and/or numerical models ?		
14:20	Session 3: Oceanographic applications 2 – Chair: J. Gula		
14:20	R. Morrow	Observing 2D fine-resolution sea surface height : links to surface currents	
14:40	J. Molemaker	High resolution ocean surface processes	
15:00	J. C. B. da Silva et al.	SAR mode altimetry observations of internal solitary waves in the tropical ocean	

15:20	J. Johannessen & H. Johnsen	Ice and near-ice applications
15:40	Session 4: Wind, waves, currents: drift and air-sea fluxes – Chair: B. Chapron	
15:40	P. Delandmetter & E. Van Sebille	Which processes control the pathways of floating plastic from Northwestern Europe to the Arctic ?
16:00	Coffee break	
16:20	M. Bourassa et al.	Three-way coupling of surface currents, waves, and wind stress over the Gulf Stream
16:40	F. J. Ocampo-Torres et al.	Direct observations of ocean surface waves and currents within the context of air-sea interaction and momentum transfer
17:00	L. Aouf et al.	Surface currents, key parameter for ocean/waves coupled system of CMEMS
17:20	Discussion – Moderators: M. Bourassa & C. Gommenginger Reviewing science requirements and applications for Doppler satellite missions	
18:00	Adjourn	
19:00	Gala dinner at Oceanopolis 19:00 Bus departure from Quartz 19:30 Oceanopolis – guided tour of aquar 22:30 End and bus return	iums and dinner in Bretagne pavilion

Thursday 11 October @ Pôle Numérique (Plouzané)

08:30	Shuttle departure from train station		
09:00	Welcome coffee		
09:20	Session 5: processing techniques, wave bias and simulations of Doppler signals – Chair: E. de Witte		
09:20	P. Lopez-Dekker	On the retrieval of total surface current using dual-polarized along-track interferometry	
09:40	M. van den Oever et al.	StereoSAR total surface current velocity vectors retrieval performance analysis	
10:00	P. Hoogeboom, A. Stoffelen & P. Lopez-Dekker	Simulation results on an EPS-SG SCA Doppler mode for ocean current estimation	
10:20	Coffee break and poster session		
11:20	Session 6: Doppler from radar back-scatter: simulations and observations – Chair: F. Soulat		
11:20	F. Nouguier & P. Dubois	The SKIM "Deep Simulator" and its contribution to the SKIM End to End Performance Simulator (SEEPS)	
11:40	Short presentations		
	B. Chapron	Delta-K processing on SKIM: the HF-radar in space	
	F. Boy	Analysis of Doppler signals from nadir altimeters	
	Discussion		
12:20	Lunch break		
13:20	Coffee and posters		
13:50	Session 7: Calibration and validation of Doppler measurements – Chair: E. Rodriguez		
13:50	A. Martin et al.	SEASTAR : a numerical inversion study of ocean surface wind and current vectors simultaneous retrieval	

14:05	N. Gebert et al.	Ocean surface current airborne radar (OSCAR) demonstrator
14:20	J. Horstmann et al.	Observations of Doppler dependencies at X-band
14:40	Y. Yurovsky et al.	Validation of Doppler scatterometer concepts using measurements from the Black Sea Research Platform
15:00	L. Marié	Planning for the November 2018 DRIFT4SKIM experiment
15:20	Coffee break	
15:50	Discussion – Moderators: A. Rubio, E. Rodriguez, L. Marié & S. Cravatte - What are we measuring exactly ? The different flavors of "surface currents" - From dedicated experiments to global observing systems: cal-val plans	
17:00	Adjourn and shuttle to city center	r
19:00	Dinner (Aux tours du château, Brest)	

Friday 12 October @ Pôle Numérique (Plouzané)

08:15	Shuttle departure from train station			
08:45	Welcome coffee			
09:00	Session 8: Synergy of sensors and current estimates – Chair: L. Gaultier			
09:00	B. Chapron	Lessons from Globcurrent		
09:20	J. Isern-Fontanet et al.	High-resolution surface currents from satellite observations in the North-Western Mediterranean Sea: eddies along the Iberian coast		
09:40	Coffee break			
10:10	Session 9: Surface current properties and consequences for inversions from Doppler data – Chair: R. Fablet			
10:10	J. Richman et al.	Comparing High- and low-frequency velocities from state-of-the-art high-resolution global models with moored current meter observations		
10:30	D. Menemenlis	Towards improved estimates of upper ocean energetics: Science motivation for the simultaneous measurement of ocean surface vector winds and currents		
10:50	C. Ubelmann et al.	Surface current reconstruction combining SKIM and an altimeter constellation		
11:10	L. Gaultier	A fast observing system simulator as a tool for discussion between instrument experts and oceanographers: the SKIMulator		
11:25	Discussion – Moderators: E. Cosme, C. Ubelmann & R. Fablet Inversion, mapping, assimilation			
12:10	Lunch break			
13:10	Adjourn			
13:30- 16:30	Optional : SKIMulator "hands on" training and feedback from users – L. Gaultier (please contact us if interested – limited seats)			
Contact : <u>dofs@sciencesconf.org</u> – last update : 05.10.2018				