

# Agenda of the ESA A-TSCV workshop

13 June 2023

Hosted by Mercator Ocean International,  
2 avenue de l'Aérodrome de Montaudran, 31400 Toulouse, France

More information on the workshop can be found here: [A-TSCV Workshop - Ocean Predict](#)

Time (Paris time, UTC + 2)	Présenter and affiliation	Title of talk (20 min presentation + 10 min Q&A)
9:00 – 9 :15	Elisabeth Rémy (Mercator Ocean Int.)	Welcome and practical information
9:15 – 9 :30	Craig Donlon (ESA)	Workshop introduction
		<i>Chair and moderator: Jenny Waters and Clément Ubelman</i>
9:30 – 9 :45	Matt Martin (Met Office)	The ESA A-TSCV project
9:45 – 10:10	Lucile Gaultier (OceanDataLab)	Satellite observation simulator
10:10 – 10:35	Jennifer Waters (Met Office)	Assimilation of total surface current velocities in the Met Office ocean forecasting system for the ESA A-TSCV project
10:35 – 11:05	<b>Coffee break</b>	
11:05 – 11:30	Isabelle Mirouze (freelance consultant, MOI)	The impact of assimilating simulated satellite surface velocities in the Mercator analysis and forecasting global system
11:30 – 11 :45	Robert King (Met Office)	S3NG constellation OSSEs
11:45 – 12:10	Solène Jousset (CLS)	ODYSEA mission project: study of NIO signals in drifter databases and evaluation of multi-temporal mapping of the total current (including NIOs) through OSSE.
12:10 – 14:00	<b>Lunch break</b>	Lunch at the pizzeria DiCaprio
		<i>Chair and moderator: Isabelle Mirouze and Lucile Gaultier</i>
14:00 – 14:25	Jaime Hernandez Lasheras (SOCIB)	Comparing High Frequency Radar radial and total derived observations capability to correct surface currents using Data Assimilation
14:25 – 14:50	Sourav Sil (Indian Institute of Technology Bhubaneswar)	High Resolution of Circulation Features along Indian Coast using HF Radar Derive Surface Currents
14:50 - 15:10	Laura Risley (University of Reading)	On the choice of velocity control variables for variational ocean data assimilation.
15:10 – 15:35	Martina Idžanović (MET Norway)	Forecast uncertainty and ensemble spread in surface currents from a regional ocean model
15:35 – 16:00	Odysea Science Team	A satellite mission concept to unravel small-scale ocean dynamics and air-sea interactions: ODYSEA (Ocean Dynamics and Surface Exchange with the Atmosphere)
16:00 – 16:15	Fabrice Collard (OceanDataLab)	TSCV future mission concepts at European Space Agency: a focus on SeaStar and Harmony
16:15 – 16:45	<b>Coffee break</b>	
16:45 – 17:15	<b>Discussion: part 1</b> <i>Moderator: Elisabeth Rémy</i>	DA of surface velocities: observation operator, observation error, model covariance, DA approach (ensemble, 4d/3dVar, "image", ...), lessons learnt from HF radar and surface drifters, challenges...
17:15 – 17h45	<b>Discussion: part 2</b> <i>Moderator: Matt Martin</i>	Expected benefits and requirements for velocity observations from space, for operational oceanography.