

CFOSAT Fifth International Science Team Meeting (Biarritz 18-20 March)

Day 1: 18 March 2025- Shuttle bus departure from Biarritz Centre: 08:15, Avenue Josph Peti

Zoom link: <https://zoom.us/j/95687833710?pwd=BdHCl74e0vBla5Ix9Ixo2S3qfXYkxc.1>

session	Chair	Starting Time (Paris time, UTC+1)	presentation length	questions	Presentation Title	Speaker
Opening session	Lotfi AOUF	9:00	0:20		Welcome Speech (CNES,CNSA)	Yannice FAUGERE/ LIU Yunfeng
		9:20	0:10		Science team welcome and introduction	XU Ying and Lotfi AOUF
		9:30	0:15		CFOSAT Orbit and Platform Health Status	YAN Cheng
		9:45	0:15		CFOSAT Chinese ground segment CHOGS status	SUN Congrong
		10:00	0:15		Summary on SCAT products	LANG Shuyan
		10:15	0:15		FROGS (FRench Ground Segment) Status)	Déborah HAZAN /Cyril GERMINAUD
		10:30	0:15		Status on SWIM instrument and SWIM products	Cedric TOURAIN
		10:45	0:15		Analysis on differences in CFOSAT SWIM products between Chinese and French sides	XU Ying
		11:00	00:20	COFFE BREAK		
SCAT product assessment, processing evolution, new analyses	XU Ying	11:20	0:17	0:03	Correlation Analysis and Consistency Calibration of Multi-Satellite Sea Surface Wind Speed in China's offshore waters	LI Yu
		11:40	0:17	0:03	Towards a long-term CFOSAT scatterometer climate data record	LIN Wenming
		12:00	0:17	0:03	Advancing CFOSAT Wind Retrieval: Calibration of SCAT Backscatter and Synergistic Use of SWIM Observations	Alexey MIRONOV
SWIM product assessment , processing evolution, new analyses	XU Ying	12:20	0:17	0:03	Performance Analysis of the Improved Second-Order Retracking Algorithm and Its Application for Significant Wave Height Estimation	TIAN Jiasheng
		12:40	0:17	0:03	Directional ocean wave spectra from SWIM versus SAR: triple-collocation based uncertainty characterizing and deeply-learned based spectral merging	WANG He
		13:00	01:30	LUNCH		
SWIM product assessment , processing evolution, new analyses	Cedric TOURAIN	14:30	0:17	0:03	Global observations of ocean wave directional spreading using CFOSAT/SWIM and in-situ buoys	Daniel PELAEZ-ZAPATA
		14:50	0:17	0:03	Developments to improve product quality and reduce the spectral noises impacting the SWIM processing chain.	Matthias AVERSENG
		15:10	0:17	0:03	Calibration of directional wave height spectra by SWIM through an AU-Net	CHEN Ping
		15:30	0:17	0:03	SWIM 2D Wave Spectra Retrieval using Machine Learning and Comparison with the New L2S v2	Manuel LOPEZ RADCENCO
		15:50	0:17	0:03	Suppression of Parasitic Peaks on CFOSAT SWIM Wave Spectra	GU Jingwei
		16:10	00:20	COFFE BREAK		
SWIM product assessment , processing evolution, new analyses	SUN Congrong				New statistically data driven MTF for SWIM L2S wave spectra and validation with independent wave drifters	Gilles GUITTON
		16:30	0:17	0:03	Wind speed and direction from wave spectra of SWIM instrument onboard CFOSAT	JIANG Haoyu
		16:50	0:17	0:03	Wind speed and direction from wave spectra of SWIM instrument onboard CFOSAT	JIANG Haoyu
		17:10	0:17	0:03	Cross-spectral analysis of CFOSAT SWIM acquisitions at repetitive incidence angle	LI Huimin
		17:30	00:15	DISCUSSION		
18:00 END OF DAY 1- Shuttle bus to Biarritz Centre: 18:15						

Day 2: 19 March 2025- Shuttle bus departure from Biarritz Centre: 08:15, Avenue Josphe Petit

Zoom link: <https://zoom.us/j/98051380462?pwd=xDCJYKwZafG4rBaBGbf61gJefwyCOE.1>

session	Chair	Starting Time (paris time, UTC+1)	presentation length	questions	Presentation Title	Speaker
SWIM product assessment , processing evolution, new analyses	Fabrice ARDHUIN	9:00	0:17	0:03	Multiplatform calibration and validation of CFOSat ocean surface waves	Salman Saeed KHAN
		9:20	0:17	0:03	Effects of rain on the CFOSAT SWIM Observations for low to high winds conditions	ZHAO Xiaolu
Wind and waves	Fabrice ARDHUIN	09:40	0:17	0:03	Enhancing Ocean Wave Simulation with CFOSAT Data Assimilation and LSTM-based Deep Learning Model	YU Huaming
		10:00	0:17	0:03	Impact of SWIM assimilation on the Iberian-Biscay-Ireland Wave Reanalysis from the Copernicus Marine Service	Breogan GOMEZ
		10:20	0:17	0:03	Assimilation of satellite based 2D wave spectra into a wave model for the improved wave prediction in the Indian Ocean	SEEMANTH M
		10:40	0:17	0:03	Long term assessment of the impact of SWIM data assimilation on ocean/wave coupling : analysis on key ocean parameters	Emma BEDOSSA
		11:00	00:20		COFFFE BREAK	
Wind and waves	Daniele HAUSER	11:20	0:17	0:03	Application of SWIM Wave Spectrum in Cyclonic Wind Speed and Typhoon Wave Models	SHAO Weizeng/XU Ying
		11:40	0:17	0:03	Sea surface wave response to tropical cyclones with different tracks in the northeastern Beibu Gulf	XIE Lingling
		12:00	0:17	0:03	Tropical cyclone wave field characterization: Towards a multi-platform approach to improve parametric wave modeling	Clément POUPLIN
		12:20	0:17	0:03	Separating and forecasting wind-waves and swell via a generalized power-law wind-wave model	HUANG Yuzhong/François SCHMIDT
		12:40	0:17	0:03	Swell Propagation and short term forecast across the world ocean using CFOSAT SWIM Observations.	Fabrice COLLARD
		13:00	01:30		LUNCH	
Wind and waves	LIN Wenming	14:30	0:17	0:03	Using off-nadir data to interpret nadir altimetry: phenomenal seas from storms Danièle and Eddie	Fabrice ARDHUIN
		14:50	0:17	0:03	Rogue waves in crossing seas using CFOSAT spectra	Malek ABID
		15:10	0:17	0:03	How to use the spatial envelope of a surface waves system in multi-modal sea states using CFOSAT's spectra ?	Marc FRANCIUS
		15:30	0:17	0:03	Analysis on wave-ice interactions during SvalbardMIZ 2024 field campaign : thanks to CFOSAT data	Lotfi AOUF
		15:50	0:17	0:03	Direct and indirect feedbacks from mesoscale eddies to the atmosphere and sea surface waves	Marco LARRANAGA
		16:10	00:20		COFFFE BREAK	
Wind and waves	Fabrice COLLARD	16:30	0:17	0:03	On the wave feedback to marine atmospheric boundary layer : thanks to directional wave observations from CFOSAT	Lotfi AOUF
Ice, land	Fabrice COLLARD	10:40	0:17	0:03	Image reconstruction for sea ice classification using SWIM data at small incidence angles	LIU Meijie
		11:00	0:17	0:03	Sea ice detection using the data of SWIM radar onboard CFOSAT satellite with a thresholding method	Maria PANFILOVA
		11:20	0:17	0:03	Monitoring the Marginal Ice Zone using OpenMetBuoys: recent deployments, open datasets, and perspectives	Jean RABAULT
		11:40	0:17	0:03	Global Soil Moisture Product by CFOSAT SCAT	DUAN Pan
		12:00	00:10		DISCUSSION	

18:20 END OF DAY 2- Departure of the bus: 18:45 . Destination: Biarritz aquarium for the social event (19h-23h)

Day 3: 20 March 2025- Shuttle bus departure from Biarritz Centre: 08:15, Avenue Joseph Petit

Zoom link: <https://zoom.us/j/97342310169?pwd=rHacexV0dcr4q6bowBv9kNdFaF9jVX.1>

session	Chair	Starting Time (paris time, UTC+1)	presentation length	questions	Presentation Title	Speaker
Synergy with other spaceborne observations, spinoff for future missions	DONG Xiaolong	09:00	0:17	0:03	Assessing the Impact of CFOSAT Data on Copernicus Marine Level 4 Significant Wave Height (SWH) Products	Cécile BECHONNET
		09:20	0:17	0:03	Sizing the largest ocean waves using SWOT and SWIM	Fabrice ARDHUIN
		09:40	0:17	0:03	SWIM and SWOT Synergy: Observing Wind-Wave-Current Interactions	Gwendal MARECHAL
		10:00	0:17	0:03	Complementarity of CFOSAT-SWIM, SAR wave mode and spectral ocean wave model for sea-state characterization from space	Charles PEUREUX
		10:20	0:17	0:03	A Raw Data Simulator for Ocean Wave Radar Spectrometer	LI Xiuzhong
		10:40	0:17	0:03	First wave energy assessment using SWIM radar and high-resolution altimeter data - Preliminary results	Maria PANFILOVA
		11:00	0:17	0:03	Ocean Surface Current Multiscale Observation Mission	DJ Yan/DONG Xiaolong
		11:20	0:17	0:03	Analysis of Doppler spectrum of a spaceborne Doppler scatterometer using an echoed signal simulation model	ZHANG Jingyu
		11:40	00:20		DISCUSSION, CONCLUDING REMARKS	
12:00 END OF SCIENCE TEAM MEETING						
12:00 LUNCH						

POSTERS

Posters	Assessing the Impact of Climate Change Scenarios on Wave Energy Potential in South America	Valeria MUNTACA/Lotfi AOUF
	Sea ice and icebergs characterization using CFOSAT data over polar areas	Fanny GIRARD-ARDHUIN
	Air-sea exchanges under tropical cyclones: contributions of coupled modeling & satellite observations	Lisa MAILLARD
	Observing directional wave spectrum from satellite optical sensors	Nicolas RASCLE
	Further Validation of the Combined Spectrum Derived with SWIM Product and Discussions on Improvements for a Directional Description	XU Xingou
	Interannual Variability of the East African Coastal Current Associated with El Nino in th Southern	ZHENG Chenyu
	Interannual variability of the South Equatorial Current in the southeast Indian Ocean associated	ZHANG Shaojun