

CFOSAT 2nd International Science Team Meeting Live sessions agenda							
Day 1 : 2021 March 15th							
session	Chair	time (UTC+1)	presentation	questions	Presentation title	Speaker	
Mission status	J.M. Lachiver	08:30	00:20		Science team welcome and introduction	Hauser Daniele Liu Jianqiang Cherchali Selma Zhao Caisheng Gan Yong	
		08:50	00:20		CFOSAT orbit state and platform in-orbit performance introduction	Yan Cheng	
		09:10	00:25		SCAT instrument status and performance CHOGS (CHinese Ground Segment) Status	Zhu Di, Sun Congrong	
		09:35	00:25		SWIM instrument status and performance FROGS (FRench Ground Segment) Status	Tourain Cédric Lachiver Jean-Michel	
		10:00	00:15		Break		
SCAT assessment and product characteristics	X. Dong	10:15	00:20	00:05	On the inversion characteristics of CFOSAT wind scatterometer	Wang Binghua	
		10:40	00:20	00:05	A comparison of quality indicators for Ku-Band wind scatterometry & for typhoons Lekima and Krosa in CSCAT	Xu Xingou	
		11:05	00:20	00:05	CFOSAT SCAT activities for NWP in Météo-France	Payan Christophe	
		11:30	00:20	00:05	Evaluation of CFOSAT scatterometer wind data in global oceans	Ye Haijun	
		11:55	00:20	00:05	Coastal wind retrieval from the China-France Oceanography Satellite scatterometer	Lin Wenming	
		12:20	00:10		Questions and conclusions		
		12:30	Meeting adjourned				
Day 2 : 2021 March 16th							
session	Chair	time (UTC+1)	presentation	questions	Presentation title	Speaker	
SWIM assessment and product characteristics	C. Tourain	08:30	00:20	00:05	Validation and Calibration of Nadir SWH Products from CFOSAT and HY-2B with Satellites and in-situ Observations	Li Xiuzhong	
		08:55	00:20	00:05	Analysis of Wind and Waves from SWIM on-board CFOSAT	Aichbhowmick Suchandra	
		09:20	00:20	00:05	Benefit of the 5Hz SWIM nadir data in regional wave model for the French coastal areas	Alice Dalphinnet	
		09:45	00:20	00:05	SWIM ocean waves spectra : illustration of performances	Peureux Charles	
		10:10	00:20	00:05	CFOSAT Wave Spectrum Observations Compared with Numerical Results and Chinese Gaofen-3 SAR	Shao Weizeng / Xu Ying	
		10:35	00:10		Questions and conclusions		
		10:45	00:20		Break		
Wind and Wave analysis Part 1	Y. Xu	11:05	00:20	00:05	Directional and frequency spread of surface ocean waves from CFOSAT/SWIM satellite measurements	Hauser Danièle	
		11:30	00:20	00:05	SWIM directional spread as compared to Sentinel-1 and wave buoys	Collard Fabrice	
		11:55	00:20	00:05	On the First Observed Wave-induced Stress over the Global Ocean	Chen Sheng	
		12:20	00:10		questions and conclusions		
		12:30	Meeting adjourned				
Day 3 : 2021 March 17th							
session	Chair	time (UTC+1)	presentation	questions	Presentation title	Speaker	
Wind and Wave analysis Part 2	D. Hauser	08:30	00:20	00:05	On the assimilation of SWIM directional wave observations in wave model : A success story from CalVal phase to operational use.	Aouf Lotfi	
		08:55	00:20	00:05	Wave spectra data assimilation based on spectral partitioning to cross assigned wave systems	Li Songlin	
		09:20	00:20	00:05	Tracing the decaying swell across Pacific with CFOSAT SWIM data	Xiaoyu Sun / Jian Sun	
		09:45	00:20	00:05	Wave-current interactions: a new view of how surface currents influence wave properties using CFOSAT-SWIM data	Marechal Gwendal / Arduin Fabrice	
		10:10	00:20	00:05	Effects of eddy frontal processes on surface wave propagation	Tan Keyi	
			10:35	00:20		Break	
	J. Liu	10:55	00:20	00:05	Analysis of Propagation of Typhoon Waves Based on CFOSAT Observation	Xu Ying	
		11:20	00:20	00:05	Asymmetric wave distributions of tropical cyclones based on CFOSAT observations	Shi Yanping	
11:45		00:20	00:05	Combined CFOSAT SWIM and SCAT measurements: a tropical cyclone case study	Yurovskaya Maria / Chapron Bertrand		
		12:10	00:20		Questions and conclusions		
		12:30	meeting adjourned				
Day 4 : 2021 March 18th							
session	Chair	time (UTC+1)	presentation	questions	Presentation title	Speaker	
Sea Ice and continent	J. Tournadre	08:30	00:20	00:05	Backscattering signatures at Ku Band ovre Africa from Jason-3 and SWIM	Frappart Frédéric	
		08:55	00:20	00:05	Using CFOSAT scatterometer for sea ice application : preliminary results from Ifremer/LOPS	Girard-Arduin Fanny	
		09:20	00:20	00:05	Sea Ice Extent Retrieval with Ku-Band Rotating Fan Beam Scatterometer Data	Liu Liling	
		09:45	00:20	00:05	Sea ice signature in SWIM off-nadir echoes	Peureux Charles	
		10:10	00:20		Break		
Perspective for signal processing improvmnt and/or new products	L. Aouf	10:30	00:20	00:05	An empirical model of SWIM speckle noise spectrum	Wang Xu / Chen Ping	
		10:55	00:20	00:05	A study on effect of range bunching on modulation spectrum measured by a wave scatterometer	Si Jianyang / Chen Ping	
		11:20	00:20	00:05	Up-to-downwave asymmetry of CFOSAT SWIM fluctuation spectrum for the direction ambiguity removal	Li Huimin	
		11:45	00:20	00:05	A New Smart Weighted Fitting Algorithm of Retrieving SWH in China's Offshore Waters Based on Data from the SWIM Radar on Board the CFOSAT	Tian Jiasheng	
		12:10	00:20	00:05	The Wide Swath Significant Wave Height: An Innovative Reconstruction of Significant Wave Heights from CFOSAT's SWIM and Scatterometer Using Deep Learning	Wang Jiuke	
		12:35	00:25		Science Team closing		
		13:00	End of meeting				

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CFOSAT mission status	
presentation title	authors
Oral presentation and forum	
Science team welcome and introduction	Hauser Daniele, Liu Jianqiang, Cherchali Selma, Zhao Caisheng, Gan Yong
CFOSAT orbit state and platform in-orbit performance	Cheng Yan
SCAT instrument status and performance	Congrong Sun, Liu Jinpu, Lang Shuyan, Xu Yin, Ma Xiaofeng, Mu Bo, Liu Jianqiang, Lin Wenming, Xie Xuetong
CHOGS (Chinese Ground Segment) Status	
SWIM instrument status and performance	
FROGS (French Ground Segment) Status	Tourain Cédric, Lachiver Jean-Michel
Forum only	
The mission, technical performance, status and application demonstration of China France ocean satellite	J. Liu, Daniele Hauser, X. Jiang, X. Dong, W. Lin, L. Wang, C. Sun, Y. Xu, S. Lang
SCAT assessment and product characteristics	
presentation title	authors
Oral presentation and forum	
On the inversion characteristics of CFOSAT wind scatterometer	Wang Binghua, Xiaolong Dong, Wenming Lin
A comparison of quality indicators for Ku-Band wind scatterometry & for typhoons Lekima and Krosca in CSCAT	Xingou Xu, Ad Stoffelen, Marcos Portabella, Wenming Lin, Xiaolong Dong
CFOSAT SCAT activities for NWP in Météo-France	Christophe Payan, Anne-Lise Dhomp, Jean-François Mahfouf
Evaluation of CFOSAT scatterometer wind data in global oceans	Haijun Ye, Bo Li, WuYang Chen, Fenghua Zhou, Hongqiang Yang, Danling Tang, Shilin Tang, Junming Li
Coastal wind retrieval from the China-France Oceanography Satellite scatterometer	Wenming Lin, Shuyan Lang, Jianqiang Liu, Xiaokang Zhao
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Estimation and Correction of Geolocation Errors of the CFOSAT Scatterometer Using Coastline Backscatter Coefficients	Kuo Zhang, Xiaolong Dong, Di Zhu, Risheng Yun
Ocean Calibration and Backscatter Measurement Error Analysis of CFOSAT Scatterometer	Miaomiao Yu
SWIM assessment and product characteristics	
presentation title	authors
Oral presentation and forum	
Validation and Calibration of Nadir SWH Products from CFOSAT and HY-2B with Satellites and in-situ Observations	Xiuzhong Li, Xu Ying, Wenming Lin, Yijun He, Jianqiang Liu
Analysis of Wind and Waves from SWIM on-board CFOSAT	Suchandra aichbhowmick, Seemanth M.
Benefit of the 5Hz SWIM nadir data in regional wave model for the French coastal areas	Alice Dalphinnet, Adrien Nigou, Lotfi Aouf
SWIM ocean waves spectra : illustration of performances	Charles Peureux, Annabelle OLLIVIER, Sebastien Guillot, Cédric TOURAIN
CFOSAT Wave Spectrum Observations Compared with Numerical Results and Chinese Gaofen-3 SAR	Weizeng Shao, Ying Xu
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CFOSAT data and their synergy with in-situ measurements and model simulations at regional and coastal scales	Joanna Staneva, Gerhard Gayer, Anne Wiese, Lotfi Aouf, Danièle Hauser
CFOSAT mission: Progress report on testing site in NW Russia	Sergei Badulin, Andrey Kostianoy, Sergey Lebedev, Vika Grigorieva, Alexei Kouraev, Valerii Tcepelev
Status of CFOSAT product and services from the Ifremer Wind and Wave Operation Center (IWWOC)	Jean-François Piolle, Gilles Guitton, Alexey Mironov, Yves Quilfen, Abderrahim Bentamy, Fanny Girard
SUMOS : A field campaign in support of the validation of CFOSAT observations	Daniele HAUSER, Peter Sutherland, Louis Marie, Raquel Rodriguez Suquet, Patricia Schippers, Gilles Guitton, Frederic Nougier, Marie-Noëlle Bouin
The MAEVA project	Ludvine Oruba, Emmanuel Dormy
Demo Products promoting SWIM Calval Team upstream work	Annabelle OLLIVIER, Romain Husson, Sebastien Guillot, Charles Peureux, Baptiste Gombert, Mathilde Simeon, Fanny PIRAS, Gael Goimard, Gerald Dibarboure, Lotfi Aouf, Daniele HAUSER, Cédric TOURAIN, Jean-Michel LACHIVER
Wind and Wave analysis	
presentation title	authors
Oral presentation and forum	
Directional and frequency spread of surface ocean waves from CFOSAT/SWIM satellite measurements	Eva Le Merle, Daniele HAUSER, Lotfi Aouf, Charles Peureux, Patricia Schippers, Christophe Dufour
SWIM directional spread as compared to Sentinel-1 and wave buoys	Fabrice Collard, Gilles Guitton
On the First Observed Wave-induced Stress over the Global Ocean	Sheng Chen, Anna Rutgersson, Xunqiang Yin, Ying Xu, Fangli Qiao
On the assimilation of SWIM directional wave observations in wave model : A success story from CalVal phase to operational use.	Lotfi Aouf, Alice Dalphinnet, Danièle Hauser, Jiuke Wang, Bertrand chapron, Cédric TOURAIN
Wave spectra data assimilation based on spectral partitioning to cross assigned wave systems	Huaming Yu, Songlin Li
Tracing the decaying swell across Pacific with CFOSAT SWIM data	Sun Xiaoyu, Sun Jian
Wave-current interactions: a new view of how surface currents influence wave properties using CFOSAT-SWIM data	Gwendal Marechal, Fabrice Ardhuin, Jean-Marc Delouis, Sophia Brumer, Antoine Grouazel
Effects of eddy frontal processes on surface wave propagation	Keyi Tan, Lingling Xie, Quanan Zheng, Junyi Li, Ying Xu
Analysis of Propagation of Typhoon Waves Based on CFOSAT Observation	Ying Xu
Asymmetric wave distributions of tropical cyclones based on CFOSAT observations	Yanping Shi, Yan Du, Xiaoping Chu, Shilin Tang, Ping Shi, Xingwei Jiang
Combined CFOSAT SWIM and SCAT measurements: a tropical cyclone case study	Maria Yurovskaya, Vladimir Kudryavstev, Alexey Mironov, Alexis Mouche, Bertrand Chapron
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Extreme sea states: CFOSAT data in the context of other satellite data and numerical hindcasts	Fabrice Ardhuin, Guillaume Dodet
CFOSAT and Sentinel-1 comparisons for Significant Wave Height measurements	Antoine Grouazel, Alexis Mouche
Scaling Analysis of the China France Oceanography Satellite Along-Track Wave and Wind Data	YANG GAO, Francois G Schmitt, Jianyu Hu, Huang Yongxiang
Comparison of wave spectra in the Agulhas current system using spectral wave models and SAR.	Sonia Ponce de Leon

Sea-ice, and continent	
presentation title	authors
Oral presentation and forum	
BACKSCATTERING SIGNATURES AT KU BAND OVER AFRICA FROM JASON-3 AND SWIM	<i>Frédéric Frappart, Fabien Blarel, Zacharie Aoulad, Catherine Prigent, Eric Mougin, Fabrice Papa, Philippe Paillou, Mehrez Zribi, Cassandra Normandin, Pierre Zeiger, José DARROZES, Luc Bouurel, Christophe Moisy, Jean-Pierre Wigneron</i>
Sea ice signature in SWIM off-nadir echoes	<i>Charles Peureux, Nicolas Longépé, Alexis Mouche, Celine Tison, Cédric TOURAIN, Jean-Michel LACHIVER</i>
Using CFOSAT scatterometer for sea ice application : preliminary results from Ifremer/LOPS	<i>Fanny Ardhuin, Jean-Francois Piollé</i>
Sea Ice Extent Retrieval with Ku-Band Rotating Fan Beam Scatterometer Data	<i>Liling Liu, Jianqiang Liu, Wenming Lin, Xiaolong Dong, Congrong Sun, Shuyan Lang</i>
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Research on Arctic Sea-ice Type and Freeboard Detection Based on the Surface Waves Investigation and Monitoring Instrument of the China-French Ocean Satellite	<i>Meijie Liu, Xi Zhang, Ping Chen, Genwang Liu, Jin Wang, Shilei Zhong, Yahui Li</i>
perspective for signal processing improvment and/or new products	
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Oral presentation and forum	
An empirical model of SWIM speckle noise spectrum	<i>Xu Wang, Ping Chen, Hauser Daniele, Patricia Schippers</i>
A study on effect of range bunching on modulation spectrum measured by a wave scatterometer	<i>Jiayang Si, Ping Chen</i>
Up-to-downwave asymmetry of CFOSAT SWIM fluctuation spectrum for the direction ambiguity removal	<i>Huimin Li, Daniele HAUSER, Bertrand Chapron, Frederic Nouguier, Patricia Schippers, Biao Zhang, Yijun He</i>
A New Smart Weighted Fitting Algorithm of Retrieving SWH in China's Offshore Waters Based on Data from the SWIM Radar on Board the CFOSAT	<i>Jiasheng Tian, Zhiya Yao, Jian Shi</i>
The Wide Swath Significant Wave Height: An Innovative Reconstruction of Significant Wave Heights from CFOSAT's SWIM and Scatterometer Using Deep Learning	<i>Jiuke WANG, Lotfi Aouf, Alice Dalphinnet, Youguang Zhang, Ying Xu, Danièle Hauser, Jianqiang Liu</i>
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Analysis of speckle manifestation on rotating near-nadir radar measurements. The SWIM case	<i>Frederic Nouguier, Gilles Guitton, Louis Marié, Bertrand Chapron</i>
Up-to-date performances of the SWIM nadir Adaptive retracker on heterogeneous surfaces	<i>Fanny PIRAS, Cédric TOURAIN, Annabelle Ollivier</i>
Inversion and correction of wind speed at high sea state based on nadir data of SWIM on CFOSAT	<i>Jiasheng Tian, Xianhao Dou, Jian Shi</i>
An empirical antenna gain estimation method for SWIM sigma0 correction	<i>Laura Hermozo</i>
Estimation of Speckle noise spectrum around along-track direction by a theoretical model for SWIM configuration	<i>Yuhang Huang, Ping Chen, Daniele Hauser, Patricia Schippers</i>
Ku-band Polarization Difference Model From SCAT Measurements	<i>Alexey Mironov, Bertrand Chapron, Yves Quilfen, Vladimir N. Kudryavtsev</i>
Speckle noise estimation from SWIM measurements	<i>Patricia Schippers, Daniele HAUSER, Christophe Dufour, Alice Dalphinnet</i>
Mitigation of parasitic peaks appearing on SWIM wave height spectra	<i>dunya alraddawi, Daniele HAUSER, Cédric TOURAIN, Patricia Schippers, Christophe Dufour</i>
Heritage for future missions	
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The Sea surface Kinematics Multiscale monitoring (SKIM) proposal: a feasible concept for future sea state and current mission	<i>Fabrice Ardhuin, Frederic Nouguier, Bertrand Chapron</i>