

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			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	Tracing the decaying swell across Pacific with CFOSAT SWIM data	Xiaoyu Sun / Jian Sun	
		09:20	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	
		09:45	00:20	00:05	Effects of eddy frontal processes on surface wave propagation	Tan Keyi	
		10:10	00:20	00:05	NWP Ocean Calibration for the CFOSAT wind scatterometer and wind retrieval evaluation	Li Zhen	
	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 over 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 improvement 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	Analysis of speckle manifestation on rotating near-nadir radar measurements. The SWIM case	Nouguier Frederic	
		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							

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

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 Arduin, 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, Shuyang 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 improvement and/or new products	
presentation title	authors
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>
Analysis of speckle manifestation on rotating near-nadir radar measurements. The SWIM case	<i>Frederic Nouguier, Gilles Guitton, Louis Marié, Bertrand Chapron</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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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>
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	
presentation title	authors
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The Sea surface Kinematics Multiscale monitoring (SKIM) proposal: a feasible concept for future sea state and current mission	<i>Fabrice Arduin, Frederic Nouguier, Bertrand Chapron</i>