

**ESA - MOST Dragon Cooperation
2018 DRAGON 4 MID-TERM RESULTS SYMPOSIUM**

19–22 June 2018 | Xi'an, P.R. China

Poster Session, Best Poster Awards

WS#1 Atmosphere, Climate & Carbon Cycle			<u>ADJUDICATORS:</u>		
1.1 - Aerosols / Clouds Properties and Retrievals			Claus Zehner		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
104	1	Climatological Variations In Aerosol Properties And Discrimination Of Aerosol Types With Their Frequency Distributions Based On Satellite Remote Sensing Data In The Yangtze River Delta, China	Raghavendra Kumar KANIKE Na KANG Yan YIN Tianliang ZHAO	Nanjing University of Information Science and Technology, Nanjing,	China, People's Republic of
Motivation:					
<ul style="list-style-type: none"> - Multi- satellite sensor approach to retrieve AOD (including OMI aerosol index for type discrimination). - Good validation against ground-based measurements is provided (Aeronet). - Nice and well organised visual poster presentation. 					

WS#1 Atmosphere, Climate & Carbon Cycle			<u>ADJUDICATORS:</u>		
1.2 Air Quality Monitoring and Dynamics			Ronald Van der A, Bai Jianhui		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
115	8	Trends in NOx emissions over China derived from the 2004-2017 OMI QA4ECV and DOMINO v2 data records	Marina ZARA Ronald Johannes VAN DER A Jieying DING	KNMI	Netherlands, The
Motivation:					
She analysed new OMI NOx emission data with a complete focus on China. The poster was presented and further explained in a very clear way.					

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WS#1 Atmosphere, Climate & Carbon Cycle 1.3 Atmospheric Retrieval			<u>ADJUDICATORS:</u> Hartmut Boesch, Wang Ting		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
141	16	Global XCO2 anomalies as seen by Orbiting Carbon Observatory-2	Janne HAKKARAINEN	Finnish Meteorological Institute	Finland
<u>Motivation:</u> The poster shows a very impressive analysis of satellite data which is very clearly and well presented.					

WS#2 Oceans & Coastal Zones 2.1 Optical & Thermal Mapping, Models & Methods			<u>ADJUDICATORS:</u> Stefan Simis, Cui Tingwei		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
198	25	Preliminary Experimental Study on the Detection of Internal Solitary Wave by Optical Remote Sensing	Yuan MEI Jing WANG	Ocean University of China	China, People's Republic of
<u>Motivation:</u> The research is ambitious, taking an experimental lab based approach to study internal waves with a dedicated setup that allows fine signal variations to be explored. The use of optical signals is highly challenging but shows promising results. The results were clearly presented both on the poster and by the attending author.					

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WS#2 Oceans & Coastal Zones			<u>ADJUDICATORS:</u>		
2.2 SAR, POLSAR & RA Methods & Retrievals			Andrea Buono, Zhang Xi		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
153	28	A Spectral Based Method To Retrieve Extreme Winds From SAR Imagery	Valeria CORCIONE Ferdinando NUNZIATA Marcos PORTABELLA Giuseppe GRIECO Maurizio MIGLIACCIO	University Parthenope	Italy
<p><u>Motivation Andrea Buono:</u></p> <p>This poster, among all the others, presented the highest degree of novelty in terms of methodology and provided the most promising results from an operational viewpoint.</p> <p><u>Motivation Zhang Xi:</u></p> <p>Compared with others, this poster has innovation idea, and presents new results for extreme winds retrieval. So I recommend “A spectral based method to retrieve extreme winds from SAR imagery” (abstract ID: 153) as the best poster.</p>					

WS#2 Oceans & Coastal Zones			<u>ADJUDICATORS:</u>		
2.3 Mapping & Retrievals Using Data Synergy			Alexis Mouche, Chuqun CHEN		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
237	40	Statistical characteristics and composed three dimensional structures of mesoscale eddies in the Bay of Bengal from Satellite Altimetry and Argo float data	Wei CUI Jie ZHANG Jungang YANG	The First Institute of Oceanography, SOA	China, People's Republic of
<p><u>Motivation Alexis Mouche:</u></p> <ul style="list-style-type: none"> - Poster well presented. - Combine use of both remote sensing data and in-situ data. - Interesting link made between observations of the sea surface level and eddies with the oceanic water column properties including parameters such as salinity and temperature. <p><u>Motivation Chuqun Chen:</u></p> <p>Mesoscale eddies are important for understanding the oceanic system. Based on large dataset of Argo and satellite retrieved SLA data, this paper detects the statistic characters and 3D structure of mesoscale eddies in the Bengal Bay, It is helpful for promotion of application of satellite SLA data for Oceanography.</p>					

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WS#3 Hydrology & Cryosphere			<u>ADJUDICATORS:</u>		
3.1 Cryosphere			Andy Zmuda		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
195	42	Characterizing Kinematic Behaviors of Periglacial Landforms in the Eastern Kunlun Shan (China) Using Satellite SAR Interferometry	Yan HU Lin LIU Xiaowen WANG	Earth System Science Programme, Faculty of Science, The Chinese University of Hong Kong	China, People's Republic of
<u>Motivation:</u>					
A well presented and interesting poster. Yan Hu was present and well explained the methods and conclusions with a good command of English. An interesting study measuring slow creeping mass movement of peri-glacial landforms using L-band SAR data.					

WS#3 Hydrology & Cryosphere			<u>ADJUDICATORS:</u>		
3.2 Surface state, exchanges, fluxes & dynamics			Bob Su, Weiqiang Ma		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
118	46	The observation, simulation and evaluation of lake-air interaction process over a high altitude small lake on the Tibetan Plateau	Binbin WANG Yaoming MA Weiqiang MA Xuelong CHEN Bob SU Massimo MENENTI	Institute of Tibetan Plateau Research, Chinese Academy of Sciences	China, People's Republic of
<u>Motivation Bob Su:</u>					
<ul style="list-style-type: none"> - Long term observation of lake evaporation is obtained by using eddy covariance system. - Detailed comparison is made with different models. - A unique dataset is created for evaluation of lake-atmosphere interaction process on the Tibetan plateau. 					
<u>Motivation Weiqiang Ma:</u>					
The poster has following 3 merits:					
<ol style="list-style-type: none"> 1. the optimized parameters for deriving momentum roughness lengths are suitable for turbulent heat flux simulation over high-elevation small lakes; 2. the exact evaporation during the ice free season of the small lake is estimated to be 812 mm; 3. the energy budget of the small lake is generally closed with an energy budget closure value of around 0.97. 					

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WS#3 Hydrology & Cryosphere			<u>ADJUDICATORS:</u>		
3.3 Wetlands, Lakes & Rivers Monitoring			Jérôme Colin, Duan Hongtao		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
180	54	Optical Models for Estimating Colored Dissolved Organic Matter Absorption in Poyang Lake	Jian XU Yeqiao WANG	Ministry of Education's Key Laboratory of Poyang Lake Wetland and Watershed Research, Jiangxi Normal University, Nanchang	China, People's Republic of
<u>Motivation:</u>					
<p>The poster is well presented, of great scientific quality, and Jian answered all the questions we had very clearly. The proposed approach of two separated models for clean and turbid water significantly improves colored dissolved organic matter absorption estimates from optical remote sensing data and demonstrates Jian's ability to provide an original approach to a scientific problem.</p>					

WS#4 Solid Earth & Disaster Risk Reduction			<u>ADJUDICATORS:</u>		
4.1 Land Subsidence, Landslides & Velocity Tracking			Jan Peter Muller, Liao Mingsheng		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
239	57	Sentinel-1 Capability of Surface Deformation Estimation over a Wide Area in North-Eastern Algeria	Omar BELADAM Timo BALZ Bahaa MOHAMADI	State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing. Liesmars". Wuhan University	China, People's Republic of
No MOTIVATION					

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WS#4 Solid Earth & Disaster Risk Reduction			<u>ADJUDICATORS:</u>		
4.2 Terrain Motion & Urban / Infrastructures Assessment			Antonio Pepe, Zeng Qiming		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
125	71	A hybrid multi-scale InSAR approach to study the 2014-2018 Surface Deformation of the Shanghai Coastal Region through Sequences of Time-Gapped Cosmo-SkyMed SAR acquisitions	Francesco FALABELLA Antonio PEPE Qing ZHAO Ma GUANYU Carmine SERIO Riccardo LANARI	National Council of Research (CNR) of Italy	Italy
<u>Motivation:</u>					
Comparing with other presentations, this presentation has some new idea, this is why it should be encouraged.					

WS#4 Solid Earth & Disaster Risk Reduction			<u>ADJUDICATORS:</u>		
4.3 Seismic / Fault Motion, Methods & Precursors			Zhenhong Li, Sun Jianbao		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
306	78	High-resolution InSAR interseismic velocity data along the Bengco Fault from Sentinel-1 satellite	Yongsheng LI Jingfa ZHANG Yunfeng TIAN	China Earthquake Administration, China	China, People's Republic
<u>Motivation:</u>					
<ol style="list-style-type: none"> 1) Small deformation signals of important active faults in Tibet are extracted in complex terrain environment, by reducing various errors of the new Sentinel-1 data. This gave us a case for Sentinel-1 SAR data for interseismic deformation detection in this important area for tectonic studies. 2) For the study area, which hosted many big faults and is a source of seismic hazards in the area. The biggest event in Tibet region could be related to one of the fault, which occurred in 1950s. Until today, we have no enough knowledge with it. Using InSAR data from both ascending and descending passes, we will be able to see what is happening now in this region, and would be helpful for understanding the situation of the seismic hazards of that area. 					

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WS#5 Land - Ecosystems, Smart Cities & Agriculture			<u>ADJUDICATORS:</u>		
5.1 Forest & Land Classification & Retrievals			Laurent Ferro-Famil, Chen Erxue		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
177	85	Measuring Forest Height From TANDEM-X Interferometric Coherence Data Over Mountainous Terrain	Yaxiong FAN Erxue CHEN Lei ZHAO Xiangxing WAN	Institute of Forest Resources Information Technique, Chinese Academy of Forestry	China, People's Republic
<u>Motivation:</u>					
A nice methodology development, based on physical principles and with interesting applicative potential.					

WS#5 Land - Ecosystems, Smart Cities & Agriculture			<u>ADJUDICATORS:</u>		
5.2 Urban Environment Mapping & Modelling			Costas Cartalis, Du Peijun		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
186	90	A new approach to change detection in the built environment, using SAR and optical datasets	Mi JIANG Andy HOOPER	Hohai University	China, People's Republic
No MOTIVATION					

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WS#5 Land - Ecosystems, Smart Cities & Agriculture 5.3 Crop Mapping, Retrievals & Methods			<u>ADJUDICATORS:</u> Raffaele Casa, Fan Jinlong		
Abstract ID.	Board Number for mounting	Title	Submitting Author	SA Organisation	SA Country
145	96	Remote Sensing techniques for automated crop counting. An application for orchard monitoring	Pablo MARZIALETTI Lorenzo FUSILLI Giovanni LANEVE Roberto LUCIANI Wenjiang HUANG	Sapienza Università di Roma. Scuola di Ingegneria Aerospaziale	Italy
<u>Motivation:</u> The poster was clear and graphically appealing showing a comparison of different tree counting algorithms in the context of the development of a platform for disease monitoring for olives.					