

## 2019 Dr4 Symp. Ljubljana - poster categories adjudicators [status on 19/06/2019]

Panel no.	Workshop	Category for Adjudication	Authors	Poster Title	Submitting Author Institute	Submitting Author Country	Abstract id.
1	WS#1 Atmosphere, Climate & Carbon Cycle	1.1 Air Quality Monitoring and Dynamics	Marina ZARA*, Ronald VAN DER A, Jieying DING	Trends in SO2 and NOx Emissions over China derived from the 2007-2017 OMI QA4ECV dataset: Characterization and Interpretation of Emission Sources	KNMI	Netherlands, The	118
2	WS#1 Atmosphere, Climate & Carbon Cycle	1.1 Air Quality Monitoring and Dynamics	Liu CHENG*, Sun YOUWEN, Wang WEI	Ozone Seasonal Evolution And Photochemical Production Regime In Polluted Troposphere In Eastern China Derived From High Resolution FTS Observations	University of Science and Technology of China	China, People's Republic of	201
3	WS#1 Atmosphere, Climate & Carbon Cycle	1.1 Air Quality Monitoring and Dynamics	Huanhuan YAN*	Validation and Evaluation of OMI-MLS Tropospheric Ozone over China	National Satellite Meteorological Centre	China, People's Republic of	247
4	WS#1 Atmosphere, Climate & Carbon Cycle	1.2 Monitoring GHGs and Dynamics	Ella KIVIMÄKI*, Hannakaisa LINDQVIST, Kimmo RAUTIAINEN, Tuula AALTO, Aki TSURUTA, Vilma KANGASAHÖ, Maria TENKANEN, Tomi KARPPINEN, Rigel KIVI, Johanna TAMMINEN	Seasonality of Methane in the Arctic and Subarctic Areas Using Earth Observations data	Finnish Meteorological Institute	Finland	180
5	WS#1 Atmosphere, Climate & Carbon Cycle	1.2 Monitoring GHGs and Dynamics	Sun YOUWEN*, Liu CHENG, Wang WEI	Ground Based High Resolution FTS Observation Of Atmospheric Composition Change At Hefei, China	Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences	China, People's Republic of	199
6	WS#1 Atmosphere, Climate & Carbon Cycle	1.2 Monitoring GHGs and Dynamics	K. CHE*, Y. LIU, D. YANG, Z. CAI, P. WANG, Y. YANG, Y. YI, S. ZHU	Intercomparison Of XCO <sub>2</sub> 、XCH <sub>4</sub> 、XCO Measurements Using EM27/SUN and IFS125HR In Xianghe	The Institute of Atmospheric Physics, Chinese Academy of Sciences	China, People's Republic of	206
7	WS#1 Atmosphere, Climate & Carbon Cycle	1.2 Monitoring GHGs and Dynamics	Wei WANG, Cheng LIU*, Youwen SUN	Measurements of XCO <sub>2</sub> And XCH <sub>4</sub> Using The Portable EM27/SUN FTIR Spectrometer at Hefei Site, China	Anhui Institute of Optics and Fine Mechanics	China, People's Republic of	207
8	WS#1 Atmosphere, Climate & Carbon Cycle	1.3 Parameter Retrieval	Shaoning LV*, Yijian ZENG, Jun WEN, Zhongbo SU	A Closed-Form Expression of Soil Temperature Sensing Depth at L-Band	University of Bonn	Germany	127
9	WS#1 Atmosphere, Climate & Carbon Cycle	1.3 Parameter Retrieval	Oliver LUX*, Christian LEMMERZ, Fabian WEILER, Uwe MARKSTEINER, Alexander GEISS, Benjamin WITSCHAS, Stephan RAHM, Andreas SCHÄFLER, Oliver BEITERBUCH	Airborne Wind Lidar Observations for the Calibration and Validation of ESA's Wind Mission Aeolus	German Aerospace Center (DLR)	Germany	136
10	WS#1 Atmosphere, Climate & Carbon Cycle	1.3 Parameter retrieval	Chunliang ZHAO*	Surface Albedo Inversion of FY-3C MERSI Data	National Satellite Meteorological Centre	China, People's Republic of	148
11	WS#1 Atmosphere, Climate & Carbon Cycle	1.3 Parameter retrieval	Xuemei ZONG*	Sensitivity Analysis of Multi-field-of-view Solar Photometer	Institute of Atmospheric Physics, Chinese Academy of Sciences	China, People's Republic of	150

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<b>12</b>	WS#1 Atmosphere, Climate & Carbon Cycle	1.3 Parameter retrieval	Jan HOFSTE*, Rogier VAN DER VELDE, Xin WANG, Zuoliang WANG, Donghai ZHENG, Jun WEN, Christiaan VAN DER TOL, Zhongbo SU	Long-Term Backscattering Observations over an Alpine Meadow with a Ground-Based Broad Band Full Polarimetric Scatterometer	University of Twente	Netherlands, The	214
<b>13</b>	WS#2 Oceans & Coastal Zones	2.1 Mapping, Methods & Retrievals Using Optical & Thermal Data	Shilin TANG*, Chuqun CHEN, Haibin YE	Using Satellite Remote Sensing To Study The Effect Of Sand Excavation On The Suspended Sediment In The Hong Kong-Zhuhai-Macau Bridge Region	South China sea Institute of Oceanology	China, People's Republic of	197
<b>14</b>	WS#2 Oceans & Coastal Zones	2.1 Mapping, Methods & Retrievals Using Optical & Thermal Data	Jing WANG*	Experimental Investigation on the Relationship Between Gray Difference of Optical Remote Sensing Images and Amplitude of Internal Solitary Waves	Ocean University of China	China, People's Republic of	272
<b>15</b>	WS#2 Oceans & Coastal Zones	2.2 Mapping, Methods & Retrievals Using Microwave Data	Wei CUI*, Jie ZHANG, Jungang YANG	Mesoscale eddies in the South China Sea from Satellite Altimetry and Argo float data	First Institute of Oceanography, Ministry of Natural Resources of China	China, People's Republic of	133
<b>16</b>	WS#2 Oceans & Coastal Zones	2.2 Mapping, Methods & Retrievals Using Microwave Data	Valeria CORCIONE*, Andrea BUONO, Ferdinando NUNZIATA, Armando MARINO, Narangerel DAVAASUREN, Maurizio MIGLIACCIO	SAR Azimuth Cut-Off For Sea Oil Spill Monitoring: Preliminary Results	Università degli Studi di Napoli Parthenope	Italy	179
<b>17</b>	WS#2 Oceans & Coastal Zones	2.2 Mapping, Methods & Retrievals Using Microwave Data	Eduard Makhoul-Varona, Mònica Roca, Roger Escola, Albert Garcia-Mondejar, Ferran Gibert, Qi Gao, Maite Muñoz	Fully Focused Delay-Doppler Processor (FF-DDP) for Altimetric SAR missions: Evaluation over Simulated Data	isardSAT S.L.	Spain	181
<b>18</b>	WS#2 Oceans & Coastal Zones	2.2 Mapping, Methods & Retrievals Using Microwave Data	Yongjun JIA*	Current Status of the HY-2B Satellite Radar Altimeter	National Satellite Ocean Application Service	China, People's Republic of	208
<b>19</b>	WS#2 Oceans & Coastal Zones	2.3 Mapping & Retrievals Using Data Synergy	Cheng TANG*, Xiangyang ZHENG, Xin LIU, Wihelm PETERSEN, Qianguo XING	Seasonal Variation of Surface Water Quality in the Chinese Bohai Strait Indicated by FerryBox Monitoring Data	Yantai Institute of Coastal Zone Research, CAS	China, People's Republic of	235
<b>20</b>	WS#2 Oceans & Coastal Zones	2.3 Mapping & Retrievals Using Data Synergy	Ruifu WANG*	Development of Green Tide Monitoring with Satellite Images	Shandong university of science and technology	China, People's Republic of	275
<b>21</b>	WS#3 Hydrology & Cryosphere	3.1 Glaciers Monitoring & Dynamics	Yan HU*, Lin LIU, Lin ZHAO, Tonghua WU	Active Rock Glaciers and Protalus Lobes in the West Kunlun Shan of China: A First Assessment	Chinese University of Hong Kong	China, People's Republic of	152
<b>22</b>	WS#3 Hydrology & Cryosphere	3.1 Glaciers Monitoring & Dynamics	Philipp RASTNER, Atanu BHATTACHARYA, Lin LIU, Yan HU, Tobias BOLCH*	Occurrence and Characteristics of Rock Glaciers in the Poiqu Basin, Central Himalaya	University of St Andrews	United Kingdom	221

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<b>23</b>	WS#3 Hydrology & Cryosphere	3.1 Glaciers Monitoring & Dynamics	Jingxiao ZHANG, Li JIA*, Massimo MENENTI	Spatial Characteristics and Variations of Debris-free and Debris-covered Glaciers in the Southeastern Tibetan Plateau from 1995 to 2015	Institute of Remote Sensing and Digital Earth	China, People's Republic of	233
<b>24</b>	WS#3 Hydrology & Cryosphere	3.2 Surface state, exchanges, fluxes & dynamics	Jiajia YANG, Ji ZHOU*, Ren LUO	Algorithm Development for Land Surface Temperature Estimation from Sentinel-3 SLSTR Data	University of Electronic Science and Technology of China	China, People's Republic of	155
<b>25</b>	WS#3 Hydrology & Cryosphere	3.2 Surface State, Exchanges, Fluxes & Dynamics	Dongkai YANG*, Mutian HAN	GNSS Signal Propagation in Soil and Reflection Analysis for Soil Moisture Measurement	Beihang University	China, People's Republic of	165
<b>26</b>	WS#3 Hydrology & Cryosphere	3.2 Surface State, Exchanges, Fluxes & Dynamics	Jie CHEN*, Lin LIU, Tingjun ZHANG, Bin CAO, Gang LI, Hui LIN	Using an Advanced Multi-temporal Radar Interferometry Technique to Map and Quantify Thermokarst Dynamics in Eboiling Mountain, China	The Chinese University of Hong Kong	Hong Kong S.A.R. (China)	202
<b>27</b>	WS#3 Hydrology & Cryosphere	3.2 Surface State, Exchanges, Fluxes & Dynamics	Chiara CORBARI*, Nicola PACIOLLA, Li JIA, Massimo MENENTI, Chaolei ZHENG, Marco MANCINI	Evapotranspiration Estimates From An Energy Water Balance Model And Satellite Land Surface Temperature Over The Desertic Heihe River Basin	politecnico di milano	Italy	241
<b>28</b>	WS#3 Hydrology & Cryosphere	3.2 Surface State, Exchanges, Fluxes & Dynamics	Nicola PACIOLLA*, Chiara CORBARI, Monica HERRERO-HUERTA, Massimo MENENTI, Marco MANCINI	Land Surface Temperature Downscaling Algorithms Over A Chinese Inland River Basin	Politecnico di Milano	Italy	244
<b>29</b>	WS#3 Hydrology & Cryosphere	3.3 Wetlands, Lakes & Rivers Monitoring	Julien BRIANT*, Kunpeng YI, Hongbin LI, Cao LEI, Hervé YÉSOU	Water Resource Monitoring Exploiting Large Sentinel-1 Time Series And Google EarthEngine; Application In Yangtze River Water Bodies	Université de Strasbourg	France	132
<b>30</b>	WS#3 Hydrology & Cryosphere	3.3 Wetlands, Lakes & Rivers Monitoring	Guoqing ZHANG*, Simon ALLEN, Tandong YAO, Tobias BOLCH	Evaluation Of Dangerous Glacial Lakes In The Central Himalaya Using Remote Sensing Data And In-situ Measurements	Chinese Academy of Sciences	China, People's Republic of	159
<b>31</b>	WS#3 Hydrology & Cryosphere	3.3 Wetlands, Lakes & Rivers Monitoring	Liang HONG*	Mapping Land Cover in the Mekong Basin Using Sentinel 2 Remote Sensing Imagery	Yunnan Normal University	China, People's Republic of	234
<b>32</b>	WS#3 Hydrology & Cryosphere	3.3 Wetlands, Lakes & Rivers Monitoring	Liqiong CHEN*, Jiao ZHANG, Xiaoling CHEN	Research on Factors of Cyanobacterial Blooms in Erhai Lake	Wuhan University	China, People's Republic of	253
<b>33</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.1 Land Subsidence, Landslides & Velocity Tracking	Qiang LI*, Jingfa ZHANG, Qingyun ZHANG, Jianfei WANG	Baige Landslide and Potential Dangerous Points Monitoring Based on Spaceborne SAR and Optical Remote Sensing Data	Institute of Crustal Dynamics, China Earthquake Administration	China, People's Republic of	166

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<b>34</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.1 Land Subsidence, Landslides & Velocity Tracking	Bingquan LI*, Yongsheng LI, Wenliang JIANG, Yi LUO, Jingfa ZHNAG	Ground-based Interferometric Radar for Dynamic Displacement Monitoring of the December 2018 Xuyong Landslide	Institute of Crustal Dynamics, China Earthquake Administration	China, People's Republic of	174
<b>35</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.1 Land Subsidence, Landslides & Velocity Tracking	Yongsheng LI, Jingfa ZHANG*, Bingquan LI, Yi LUO	Measurement Of Deformation After Two Jingshaji Baige Landslide Events In 2018 Based On Ground-based Observations	China earthquake Administration	China, People's Republic of	203
<b>36</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.1 Land Subsidence, Landslides & Velocity Tracking	Peter MAYRHOFER*, Stefan STEGER, Ruth SONNENSCHNIG, Giovanni CUOZZO, Stefan SCHNEIDERBAUER, Marc ZEBISCH, Claudia NOTARNICOLA, Clement ATZBERGER	Remote Sensing Observations For Landslide Identification And Landslide Susceptibility Assessment In The Longnan Region And The European Alps	Eurac Research	Italy	213
<b>37</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.1 Land Subsidence, Landslides & Velocity Tracking	Qiuyue FENG, Lianhuan WEI*, Yachun MAO, Christian BIGNAMI, Cristiano TOLOMEI, Jiayu LI	Displacement Monitoring over Dagushan Open-pit Iron Mine by Means of Small Baseline Subsets Analysis	Northeastern University	China, People's Republic of	254
<b>38</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.1 Land Subsidence, Landslides & Velocity Tracking	Mingjia LI*, Jianbao SUN, Zhengkang SHEN	Parallel Processing Of Sentinel-1 InSAR Time-series Data For Large Scale Deformation Detection in North China Plain	Institute of Theoretical and Applied Geophysics, Peking University	China, People's Republic of	264
<b>39</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.1 Land Subsidence, Landslides & Velocity Tracking	Shiyong YAN, Yi LI, Guang LIU*, Fengkai LANG	Investigating Status Of Jiaju Landslide With C And L Band Spaceborne Sar Imagery By Novel Insar Technology	China University of Mining and Technology	China, People's Republic of	281
<b>40</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.2 Terrain Motion & Urban / Infrastructures Assessment	Cristiano TOLOMEI, Christian BIGNAMI, Simone ATZORI, Stefano SALVI*, Lianhuan WEI, Jiayu LI, Qiuyue FENG, Giuseppe PEZZO	The Monitoring Of Land Movements In The BASF Region (North-East China) By Stacking Interferometry	Istituto Nazionale di Geofisica e Vulcanologia	Italy	129
<b>41</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.2 Terrain Motion & Urban / Infrastructures Assessment	Pietro MASTRO*, Qing ZHAO, Francesco FALABELLA, Carmine SERIO, Antonio PEPE	Exploitation of a Multi-Grid Differential SAR Interferometry (DInSAR) Approach for the Investigation of Large-Scale Earth's Surface Deformations: Experiments on the Pearl River Delta (PRD) region	Università degli Studi della Basilicata	Italy	130
<b>42</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.2 Terrain Motion & Urban / Infrastructures Assessment	Luyi SUN*, Jinsong CHEN	Evaluating the use of Sentinel-1 Burst Overlap Interferometry for along-track measurements of land subsidence in the city of Shenzhen, China	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	China, People's Republic of	131
<b>43</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.2 Terrain Motion & Urban / Infrastructures Assessment	Lianhuan WEI*, Jiayu LI, Christian BIGNAMI, Cristiano TOLOMEI, Qiuyue FENG, Dong ZHAO	Urban Subsidence Analysis Based On Fusion Of Multi-sensor High-resolution InSAR Datasets	Northeastern University	China, People's Republic of	144
<b>44</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.2 Terrain Motion & Urban / Infrastructures Assessment	Qiang WANG*, Qing ZHAO, Jingzhao DING, Guanyu MA	Land Subsidence Risk Rating Mapping Based On Comprehensive Risk Assessment Matrix: A Case Study Of Shanghai	East China Normal University	China, People's Republic of	163

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<b>45</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.2 Terrain Motion & Urban / Infrastructures Assessment	Sen ZHAN*, Jingfa ZHANG, Lixia GONG	Earthquake-Induced Building Damage Extraction based on Multi-temporal and Dual- Polarized Sentinel-1A Data	China Earthquake Administration	China, People's Republic of	173
<b>46</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.2 Terrain Motion & Urban / Infrastructures Assessment	Jingzhao DING*, Qing ZHAO, Qiang WANG, Guanyu MA	Comparative Analysis of Long-term Deformation Time Series Based on Multi-Strategy and Multi-Platform MT-InSAR Combination	East China Normal University	China, People's Republic of	182
<b>47</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.3 Seismic / Fault Motion, Methods & Precursors	Zhang QINGYUN*, Li YONGSHENG, Zhang JINGFA	InSAR Analysis of Strong Earthquake Swarm in Lombok, Indonesia, 2018	Institute of Engineering Mechanics, China Earthquake Administration	China, People's Republic of	183
<b>48</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.3 Seismic / Fault Motion, Methods & Precursors	JianFei WANG*, Jingfa ZHANG, Qiang LI	The Regional Seismic Scenario based on remote sensing	China Earthquake Administration	China, People's Republic of	215
<b>49</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.3 Seismic / Fault Motion, Methods & Precursors	Laëtitia LEMRABET*, Cécile LASSERRE, Marie-Pierre DOIN, Marianne MÉTOIS, Anne REPLUMAZ, Jianbao SUN, Marie-Luce CHEVALIER	The Xian Shui He fault system: Deformation mechanisms constrained by time series analysis of Sentinel-1 InSAR data	Laboratoire de Géologie de Lyon : Terre, Planètes et Environnement	France	217
<b>50</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.3 Seismic / Fault Motion, Methods & Precursors	Marine ROGER, Zhenhong LI, Peter CLARKE, Jyr-Ching HU, Wanpeng FENG	The 1999 Mw 7.6 Chi-Chi Earthquake Revisited: Co-seismic Deformation From Earth Observations	School of Engineering, Newcastle university	UK	104
<b>51</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.4 Target Motion Detection, Tracking & Methods	Pedro AGUIAR*, António CUNHA, Matus BAKON, Milan LAZECKY, Antonio M. RUIZ-ARMENTEROS, Emanuel PERES, Liu GUANG, Fan JINGHUI, Joaquim João SOUSA	Detecting InSAR Deformation Patterns using Deep Learning	UTAD	Portugal	105
<b>52</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.4 Target Motion Detection, Tracking & Methods	Jian JIAO*, Chongrui TIAN, Jianghui HUANG, Qiming ZENG	Detection of Moving Vehicles by Using Along Track Interferometry with TerraSAR-X Data	Peking University	China, People's Republic of	154
<b>53</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.4 Target Motion Detection, Tracking & Methods	Qun WANG, Jinghui FAN, Weilin YUAN, Liqiang TONG, Sousa JOAQUIM JOÃO*, Guang LIU	Monitoring the Motion of Yiga Glacier Using GF-3 Images	China Highway Engineering Consultants Corporation	China, People's Republic of	161
<b>54</b>	WS#4 Solid Earth & Disaster Risk Reduction	4.4 Target Motion Detection, Tracking & Methods	Zhangfeng MA*, Mi JIANG, Yi ZHAO	A Novel Co-registration Approach For Sentinel-1 TOPS Data	Hohai University	China, People's Republic of	266
<b>55</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.1 Vegetation Classification / Retrievals & Condition	Jing-Bo XUE*, Shang XIA, Yu-Wan HAO, Xiao-Nong ZHOU, Zhaoyan LIU, Shi-Zhu LI	Application of High Resolution Remote Sensing Technology in the Surveillance of Schistosomiasis Endemic Region	National Institute of Parasitic Diseases, China CDC	China, People's Republic of	184



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<b>56</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.1 Vegetation Classification / Retrievals & Condition	Ray ABDO*, Laurent FERRO-FAMIL	A New PolTomSAR Decomposition Applied To Vegetated Areas In 3D Imagery	IETR	France	258
<b>57</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.1 Vegetation Classification / Retrievals & Condition	Qi XU*, Jing WANG, Hongyuan HU, Qiliang LI, Xiaoyu ZHANG, Jinlong FAN	The Development and Changes of Vineyard Monitoring with Remote Sensing in Ningxia	National Satellite Meteorological Center	China, People's Republic of	145
<b>58</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.1 Vegetation Classification / Retrievals & Condition	Pablo MARZIALETTI*, Lorenzo FUSILLI, Giovanni LANEVE, Wenjiang HUANG, Linyi LIU, Yingying DONG, Yue SHI, Qiong ZHENG, Huiqin MA	Tree Pest Multispectral Sensitiveness Analysis In Apulia Region	Sapienza University of Rome	Italy	230
<b>59</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.2 Urban Environment Mapping & Modelling	Junjun WU*, Bo ZHONG, Qinhuo LIU	Impervious Land Extraction and Urban Development Potential Evaluation	Institute of Remote Sensing and Digital Earth of Chinese Academy of Sciences	China, People's Republic of	200
<b>60</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.2 Urban Environment Mapping & Modelling	Dorothy FURBERG*, Yifang BAN, Andrea NASCETTI	Sentinel-2A MSI and SPOT 5 Data For Urbanization Monitoring and Environmental Impact Analysis	KTH Royal Institute of Technology	Canada	259
<b>61</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.2 Urban Environment Mapping & Modelling	Yi ZHAO*, Mi JIANG, Zhangfeng MA	An Optical-driven Method for PolSAR Feature Extraction	Hohai University	China, People's Republic of	267
<b>62</b>	WS#5 Land - Ecosystems, Smart Cities & Agriculture	5.2 Urban Environment Mapping & Modelling	Jinling QUAN*, Chenghu ZHOU, Ting MA	Satellite-Derived Evaluation of the Impact of Human Activity on Water Quality Dynamics	Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences	China, People's Republic of	288
<b>63</b>	EO Science & Applications in Slovenia		Marko PERKOVIC; Milan BATISTA; Lucjan GUCMA	Backtracking Polluters at Sea	University of Ljubljana, Faculty of Maritime Studies and Transport	Slovenia	296