# **DAY-3 POSTERS**

A1.08 Aeolus Mission: Scientific Highlights and Data Exploitation
A3.03 Wetland - Methods and Algorithms, Science, Applications and Policy
A3.07 Land Cover - Methods and Algorithms, Science, Applications and Policy
A3.10 Novel in-situ collection for agricultural and forest structure applications
A3.11 Land Surface Temperature and Emissivity Data for Research and Applications
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A9.03 The NASA-ESA Arctic Methane and Permafrost Challenge (AMPAC) Initiative
B1.04 FLEX validation status and plans
B2.02 FLEX - ESA's Photosynthesis Mission
B3.02 Arctic Weather Satellite
B6.03 EnMAP – The German Spaceborne Imaging Spectroscopy Mission
B6.04 PRISMA Hyperspectral mission: characteristics achievements and data exploitation
B8.05 Copernicus Contributions Missions (VHR)
B8.06 Copernicus Sentinel-6 Michael Freilich
C5.02 Big EO data platforms
C5.05 Earth System & EO Data Cube Services and Tools for Scientific Exploitation
D1.05 International Collaboration to better understand risks using satellite EO (GEO, CEOS, etc.)
D2.04 Sustainable Development Goals (SDGs)
D2.07 Water Resources Management
D2.09 Sustainable Natural Resources and Energy
D2.10 GEOGLAM the First Decade: Progress in Operational Agricultural Monitoring
D2.13 Sustainable Development of coastal areas
E2.02 Climate Security - The key role of R&I and cooperation to address global threats

E3.06 Mediterranean Regional Applications and Science

# A1.08 Aeolus Mission: Scientific Highlights and Data Exploitation

Board	ID	Title	Author
587	66135	VirES for Aeolus - Virtual Research Environment (VRE)	Daniel Santillan et al.
588	62967	COLOR: CDOM-proxy retrieval from aeOLus ObseRvations	Davide Dionisi et al.
589	71074	Aeolus Performance Monitoring at DLR - From Satellite Level to Airborne Validation	Christian Lemmerz et al.
590	67418	Long-term validation of the Aeolus L2B wind product above Germany	Alexander Geiß et al.
591	64368	Validation of Aeolus wind measurements on Cape Verde using radiosondes	Maurus Borne et al.
592	64446	First results from ASKOS as part of JATAC: Validation of Aeolus products and intense aerosol characterization using ground-based remote sensing and airborne in-situ	Holger Baars et al.
593	64774	Characterization of Aeolus wind measurement errors	Federico Cossu et al.
594	62926	The impact of Aeolus observations on boundary layer wind forecast over Europe	Haichen Zuo et al.
595	63684	NWP calibration applied to Aeolus Mie channel winds	Gert-Jan Marseille et al.
596	628/1/	Incorporating ALADIN/Aeolus lidar observations into a climate record of cloud profile	Artem Feofilov et al.
597	64381	Collocation of Geostationary and Low Orbit Satellites for 3D Dynamics Observations of Convective Systems over Tropical Atlantic	Tran Vu La et al.
598	643/5	Optical properties of Californian aging smoke plume retrieved by Aeolus L2A algorithms during long-range transport above Atlantic	Dimitri TRAPON
599	64870	First Climate-Relevant Results of JATAC/CAVA-AW: the Atmospheric Heating Rate in the Saharan Aerosol Layer	Marija Bervida et al.
600		Aeolus Aerosol Assimilation in the DISC (A3D): Status and Preliminary Results	William McLean et al.
601	66450	Highlights of Aeolus aerosol products derived using modified ATLID algorithms	Ping Wang et al.
602	67174	Australian wildfire-generated Smoke-Charged Vortex observed by Aeolus wind and aerosol profiling	Sergey Khaykin et al.

# A3.03 Wetland - Methods and Algorithms, Science, Applications and Policy

Board	ID	Title	Author
181	63388	Monitoring long-term change in wetland surface water and vegetation dynamics using dense Earth Observation time series imagery	Gyula Mate Kovács et al.
182	63149	Towards comprehensive, accurate, and high-resolution global aquatic land cover mapping	Panpan Xu et al.
183	63157	lHurricane Irma 2017 with respect to potential land grabbing within the Ramsar site	Andreas Rienow et al.
184	65218	Assessment of a remote sensing-based indicator for quantifying wetland use intensity in East Africa	Stefanie Steinbach et al.
185	64645	Water quality monitoring in Térraba Sièrpe Wetland (Costa Rica) using multi- and hyperspectral EO data	Nicole Pinnel et al.
186	64673	DOMAIN ADAPTATION OF DRONE MULTISPECTRAL AND RADAR SATELLITE DATA USING GENERATIVE ADVERSARIAL NETWORKS FOR WATER HYACINTH DETECTION	Vahid Akbari et al.
187	64757	Products relevant to wetland monitoring from the ESA Scout-2 HydroGNSS mission	Weiqiang Li et al.
188	64951	Data-driven scheme to model global CH4 emissions in wetlands and inundated areas using extended GIEMS-2	Juliette BERNARD et al.
189	67331	Methane emissions during soil freezing in autumn at northern latitudes	Tuula Aalto et al.

190		Improving water surface extent delineation of Swedish Ramsar wetlands with multisensor and open-source satellite data	Farzad Vahidi Mayamey et al.
191		In-situ measurement techniques in remote sensing research over wetlands	Patryk Grzybowski et al.
192		Dynamics of open water and vegetated wetlands extent from Sentinel-1 dual- polarised data in a prairie catchment in North Dakota	Stefan Schlaffer et al.
193	64996	Assessment of the highest annual burned area of the Century in the Brazilian Pantanal using Copernicus Sentinel 2 images	Yosio Edemir Shimabukuro et al.
194	67386	Towards a Global Mangrove Protected Area Monitoring Platform	Liza Goldberg et al.
195	64411	Mapping of várzea forest types in the western Amazon using remote sensing	Antje Uhde et al.

# A3.07 Land Cover - Methods and Algorithms, Science, Applications and Policy

Board	ID	Title	Author
198	63092	VALIDATING AND COMPARING 10M RESOLUTION GLOBAL LAND COVER MAPS	Myke Koopmans et al.
199	63108	GLOBAL LAND COVER CHANGE MONITORING: CHALLENGES AND OPPORTUNITIES	Nandika Tsendbazar et al.
200	61943	BFAST Lite for detecting land cover change using time series of estimated land cover fractions	Dainius Masiliūnas et al.
201	64982	Improving robustness of global land cover fraction change mapping using a Markov chain model	Rob Burger et al.
202	64200	Migrants: The pull effect of rural industrial areas as seen from space	Itohan-Osa Abu et al.
203	62008	Harnessing remote sensing data to map the change in the spatial distribution of Tuta absoluta (Meyrick) (Lepidoptera: Gelechiidae) in tomato farms in Kenya	Komi mensah Agboka et al.
204	62444	Detection of land-use change and recovery in the Congo Basin, and the challenges of remote sensing	Coralie Adams et al.
205	62963	Machine-learning-based high-resolution mapping of vegetation cover types in Greater Maasai Mara Ecosystem using WorldView-3 and Sentinel-2 imagery	Wang Li et al.
206	63711	Understanding land degradation in local context, Copperbelt, Zambia	Sana Munawar et al.
207	63167	A Comparative Analysis of MODIS-derived Drought Indices for Northern and Central Namibia	Daniel Wyss
208	65139	Identifying recent surface dynamics in the Namib Desert (Namibia) using Sentinel-1, Sentinel-2 and Landsat time series	Tobias Ullmann et al.
209	63156	ESA-CCI High Resolution Land Cover products: Contribution to the parameterization of ORCHIDEE land surface model and to the understanding of land-atmosphere	Rodrigo San Martín et al.
210	62528	SAR land cover mapping experience in the HR Landcover CCI+ ECV project	Tonia Sorriso et al.
211	63184	Land Cover Classification using Sentinel-1 data: Machine Learning vs Deep Learning	Yonatan Tarazona Coronel
212	63799	Exploring Time Series of Sentinel-1 Interferometric Coherence in Land Cover Mapping: A Step Forward	Juan M. Lopez-Sanchez et al.
213	67348	Towards operational surface water extent estimation from C-hand sentinel-1 SAR	Jungkyo Jung et al.
214	66431	Current status and dynamics of vegetation cover in Noril'sk industrial region, north-	Olga Tutubalina et al.
215	65595	Land cover manning with Gaussian Processes at the country scale using snarse and	Valentine Bellet et al.
218	64010	Activity-Based Intelligence for Land Cover Change Detection: A novel framework for	José Pedro Santos
219	65224	Accounting for the uncertainty of forest species mans constructed with remotely	Jessica Esteban Cava et al.

220	64594	Creating training samples from land cover agreement maps: the procedure and the results obtained in the case of the Random Forest classification	Gorica Bratic et al.
221	65067	An Earth Observation approach for monitoring and mapping the spatial distribution of bird habitats around the Irish Sea	Walther C. A. Camaro Garcia et al.
222	65082	Forest Land use change mapping in Mato grosso using SLIC segmentation approach and classes posterior confidence	Cédric Lardeux et al.
223	65281	iota2: large scale land cover mapping operational chain	Arthur Vincent et al.
224	67267	Towards a multiscale sampling scheme for land cover and land cover change validation. Lessons learned from the CCI Medium Resolution Land Cover project.	Céline Lamarche et al.
225	65640	Unraveling land use land cover change dynamics from the annual 300m global land cover maps time series from 1992 to 2020	Pierre Defourny et al.
226	66480	Products and Services of the " Urban" THEIA Scientific Expertise Centre	Anne Puissant et al.
227		Detection of urban changes from bi-temporal and tri-stereoscopic Pleiades imagery	Clément Bressant et al.
228	66840	A global assessment of spatiotemporal uncertainties in Land Cover – a key indicator for monitoring land-based natural capital change	Caterina Barrasso et al.
229	67043	Assessing ESA's WorldCover 2020 operational product accuracy in a Mediterranean setting	Isidora Isis Demertzi et al.
230	67340	Sentinel-2 data in Land use, land-use change, and forestry (LULUCF) monitoring	Jan Svoboda et al.
231	65845	Comparison of hierarchical and flat land cover classification of Sentinel-2 data	Adam Waśniewski et al.
232	67464	Wall-to-wall land cover mapping and their change for Central Europe from 1985 to 2020	Katarzyna Ostapowicz et al.
233	65297	Mapping 43 land cover classes in Europe across 20 years at 30m resolution with spatiotemporal ensemble machine learning	Martijn Witjes
234	65301	How confident are you in making decisions based on the map in your hand?	Conrad Bielski et al.
235	67152	Updating the Walloon land cover map by operational application of artificial intelligence with a deep local authorities' appropriation	Damien Draime et al.
236	67051	Mapping and updating land surface area types through semantic segmentation of the Copernicus Pan-European very high-resolution image mosaics	Misganu Debella-Gilo et al.
237	63331	Remote sensing crop group specific indicators to support regional yield forecasting in Europe	Giulia Ronchetti et al.

#### A3.10 Novel in-situ collection for agricultural and forest structure applications

Board	ID	Title	Author
121	65058	Monitoring crop phenology with street-level imagery using computer vision	Raphael d'Andrimont et al.
122	I 6/3/9	LUCAS LF: an EU-level harmonized approach for in situ data collection on landscape features in agricultural land	Balint Czucz et al.
123	63017	Enhancing the LUCAS crop information to support machine learning classifications	Oliver Buck et al.
124	63565	lagriculture	Mike Teucher et al.
125	63557	Crop Classification Synthetic Training Data Generation With Use Of Generative Adversarial Network	Nataliia Kussul et al.
126	65352	LITERAL: a portable and accurate system for fast experimental measurements of crop characteristics	Benoit de Solan et al.
127	66841	Investigation of Sentinel-2-based grassland management using daily webcam images	Dominique Weber et al.
128	65022	Using drones to improve reference data collection for crop type mapping in sub- Saharan countries	Artur Nowakowski et al.

129	64231	lat leat and canopy scales	Adrian Moncholi et al.
130	65605	Early detection of Sporobolus densiflorus injury from glyphosate using chlorophyll fluorescence and hyperspectral reflectance measurements	Estefania Piegari et al.
131	67302	In situ topsoil SWIR scanning system to support Common Agricultural Policy environmental performance monitoring	Konstantinos Karyotis et al.
132	65207	EO data & ground measurements fusion: Long-term monitoring of climate change mitigation	David Moravec et al.
133	65689	Development of a Hand-Held, Low-Cost, Open-Hardware Hyperspectral VIS Platform for Educational and Scientific Applications	Rudolf Benedikt Hartweg et al.
134	65691	Advantages of a coupled multitemporal high-precision UAV-based LiDAR and multispectral data approach to assess plant physical properties of maize	Robert Rettig et al.
135	65568	Estimation of aboveground biomass in clover-grass mixtures using UAV-based vegetation indices and canopy height	Konstantin Nahrstedt et al.
136	64402	Characterization of an Evergreen coniferous forest growth using terrestrial LiDAR	Alvaro Lau Sarmiento et al.
137		The FieldMApp – a flexible tool for the standardised acquisition of in-situ data	Sina Truckenbrodt et al.
138	67352	Scaling Effects regarding the Applicability of Tower-based Experiments Results relating Microwave Backscatter to Meteorological Observations : study case of	Salma El Idrissi Essebtey et al.
139	65057	Phenotyping Radiata Pine Plantations using Proximal and Remote Sensing	Henning Buddenbaum et al.

#### A3.11 Land Surface Temperature and Emissivity Data for Research and Applications

Board	ID	Title	Author
381	64254	Assessment of algorithms for detecting high temperature phenomena and thermal anomalies for the NASA Surface Biology and Geology (SBG) mission	Anamika Shreevastava et al.
382	63201	Using ECOSTRESS to inform pre-burn vegetation conditions for Southern California Wildfires	Madeleine Pascolini- Campbell et al.
383	64159	Diurnal temperature and evapotranspiration dynamics over time in forest restoration projects using the ECOSTRESS moderate resolution thermal imager	Jonas Hamberg et al.
384	67489	MASSIVE MULTI-YEAR FLOODING EVENT IN SOUTH SUDAN - USING THERMAL DATA IN SUPPORT OF MAJOR HUMANITARIAN ERMEGENCY OPERATIONS	Sebastian Boeck et al.
385	66954	Validation of an explicitly angular and emissivity-dependent split-window algorithm for Land Surface Temperature retrieval from Sentinel-3 SLSTR	Lluís Pérez Planells et al.
386	65440	Variability of the Lake Surface Water Temperature (LSWT) in Issyk-Kul Lake using Sentinel 3-SLSTR and ECOSTRESS sensors	Ivan HERNANDEZ-GALINDO et al.
387	64462	Iconcentrations	Francesco Stante et al.
388	64573	A new multispectral space sensor in the MWIR spectral region for high temperatures events – The SISSI Project	Vito Romaniello et al.
389	65017	THERMOCITY: urban thermography from space	Vincent LONJOU et al.
390	65699	Large Scale Exploitation of Satellite Data for the Assessment of Urban Surface Temperatures: First results from the EO4UTEMP project	Zina Mitraka et al.
391	63107	Development of Urban Satellite based Thermal Indices (DUSTI)	Mike Perry et al.
392	63114	Improving temperature observations from Space to close the energy budget of the Earth in support of UNFCCC objectives and the Paris Agreement	Abigail Marie Waring Waring et al.
393	63820	Explaining the Aerodynamic versus Radiometric Surface Temperature Paradox in Thermal-based Evaporation Modeling	Kaniska Mallick et al.
394	63045	SST AT 70-M SCALE FROM ECOSTRESS ON THE SPACE STATION: APPLICATION TO COMPLEX COASTS AND INTERTIDAL FLATS	David Wethey et al.
395	66955	How can Land Surface Temperature contribute to better understand snowpack changes?	Claudia Notarnicola et al.

396	63320	Temperature and Emissivity Separation from MODIS multispectral TIR data	Drazen Skokovic et al.
397	63618	TRISHNA Surface Temperature and Emissivity Retrievals: the TRISHTES algorithm	Emilie Delogu et al.
398	64086	Passive microwave observations emitting depth estimation in arid areas	Samuel Favrichon et al.

#### A4.01 Terrestrial Carbon Cycle from Global to National

Board	ID	Title	Author
352	65205	Tracking impacts of deforestation and degradation on the Amazon carbon balance	Dominic Fawcett et al.
353	66927	Land-use change emissions based on high-resolution data substantially lower than previously estimated	Raphael Ganzenmüller et al.
354	67020	Land use and land cover change emissions by models – a spatio-temporal comparison of different approaches	Wolfgang Obermeier et al.
355	64815	Integrating the Sentinels for novel fuel, fire and emissions products to constrain the changing role of vegetation fires in the global carbon cycle	Matthias Forkel et al.
356	65035	Estimating vegetation fuel loads for the quantification of fire emissions by	Christine Wessollek et al.
357	64894	Impact of the inclusion of socio-economic variables on data-driven models in	Tichaona Mukunga et al.
358	63817	Towards near-real-time estimates of greenhouse gas budgets	Philippe Ciais et al.
359	66863	Carbon sequestration and heat island mitigation with urban forests	Levente Klein et al.
360	64964	The contribution of C-band scatterometers to the quantification of global forest above-ground biomass during the last 30 years	Maurizio Santoro et al.
361	67004	FLUXCOM-X: Towards improving the assessment of the terrestrial carbon cycle from spaceborne and in-situ data	Martin Jung et al.
362	65507	Regional to global scale GPP estimates derived from a synergistic exploitation of Copernicus Sentinel missions - the Sen4GPP project	Florian Poustomis et al.
363	63242	A novel approach for assimilating retrievals of microwave vegetation ontical denth	Samuel Scherrer et al.
364	65253	VODCA2GPP - A new global long-term (1988-2020) GPP dataset from passive	Wouter Dorigo et al.
365	65740	Quantifying the Disturbance Regimes Based on Vegetation Biomass Dynamics	Siyuan Wang et al.
366	67259	Quantifying photosynthetic carbon uptake following land cover changes using TROPOMI and GOME-2 Solar-Induced Fluorescence (SIF) data	Juliëtte Anema et al.
367	67133	Detecting the impacts of increasing CO2 on a temperate forest: hyperspectral and fluorescence responses to elevated CO2 in large-scale field experiment	Kadmiel Maseyk et al.
368	67453	Resolving the current and future carbon dynamics of the dry tropics (SECO)	Casey Ryan et al.
369	66971	Campaign activities in support of ESA Land Surface Carbon Constellation study	Juha Lemmetyinen et al.
370	67081	Northern High Latitude Methane Budgets Inferred from an Atmospheric Inverse Model	Aki Tsuruta et al.
371	65524	Adaptation of the Peak Height method to solar lines for TROPOMI SIF retrieval	Antti Kukkurainen et al.
372	64346	Assessing cryosphere-biosphere linkages with Earth Observation in northern high latitudes (CryoBioLinks)	Kristin Böttcher et al.
373	64947	Assessing the changes in GPP from the new ecland photosynthesis model associated with changes in LAI, land cover and climate using satellite-based Earth	Anna Agusti-Panareda et al.
374	62729	Assessing changes in landscape metrics and aboveground higmass in Brazilian	Chuanze Li et al.

375	66550	First data-driven map of peat thickness distribution across Peruvian Amazonia reveals a substantial and largely intact component of the global carbon cycle	Adam Hastie et al.
376	62869	A machine learning approach to model spatiotemporal patterns of soil temperature and soil moisture as drivers for soil organic carbon mineralization	Maiken Baumberger et al.
377	64777	Isub-diurnal to seasonal scale — A case study in a winter wheat field in Germany	Vera Krieger et al.
378	65107	FLEX retrieval of fluorescence quantum efficiency as the essential step to quantify	Shari Van Wittenberghe et al.
379		Carbon fluxes estimation at scale: long-term, continuous, high spatial resolution with uncertainties at continental scales	Laura Martínez-Ferrer et al.

## A4.02 Earth Observations for AFOLU estimation and reporting

Board	ID	Title	Author
402	63826	A burned area record for the 2019-2021 fire seasons derived from Sentinel-2 and ancillary data: Italy as a test case	Luca Pulvirenti et al.
403	66347	COST EFFECTIVE PROMISES OF REMOTE SENSING DATA: TRACKING SOIL ORGANIC CARBON SEQUESTRATION IN GRAZING SYSTEMS USING SENTINEL-2 SATELLITE	Gisel Booman et al.
404	67214	Carbon farming - changed agriculture praxis's and verified carbon storage in soil.	Anders Wästfelt
405	63923	Quantifying land change in South America since 1985	Viviana Zalles et al.
406	65630	Development of an arctic-boreal fire atlas using Visible Infrared Imaging Radiometer Suite active fire data	Rebecca Scholten et al.
407	653//	Estimating emissions from fires in the Amazon and Cerrado biomes of South America	Dominic Fawcett et al.

# A6.01 Geospace System Science: Thermosphere, Ionosphere, Magnetosphere and Their Coupling

Board	ID	Title	Author
469	64400	Forecasting Space Weather in the Arctic Region	Yaqi Jin et al.
470	64454	Ionospheric plasma irregularities in relation to dynamic auroral forms	Florine Enengl et al.
471	64998	Long Term Statistical Space Weather Analysis	Pascal Sado et al.
472	66563	Comparison of electron density fluctuations measured by Swarm satellites with the ground-based scintillation data	Daria Kotova et al.
473	64880	SODA, an ESA-SWE pilot study to predict space weather effects on LEO satellites	Manuela Temmer et al.
479	63849	Sub-kilometer plasma density variability in the polar ionosphere	Lasse B.N. Clausen et al.
480	67059	Space weather operations with the SMOS mission: what an Earth observing satellite can tell about solar activity	Manuel Flores-Soriano et al.
481	62437	TIRO: Topside Ionosphere Radio Observations from multiple LEO-missions	Lucas Schreiter et al.
482	67126	ESA Heliophysics Working Group – working towards making European Heliophysics great(er) again.	Matt Taylor et al.
483	62372	Preliminary Validation of Thermosphere Observations from the TOLEOS Project	Timothy Kodikara et al.
484		Joule Heating and the Atmospheric Dynamo	Stephan Buchert
485	64263	An update on the scientific activities of the Enhanced Polar Outflow Probe's Radio Receiver Instrument	Gareth Perry et al.
486	67254	Data centre for CME arrival forecasting and magnetic effectiveness tools as part of SWESNET project.	Filomena Catapano

487	64841	Swarm-derived indices of geomagnetic activity	Constantinos Papadimitriou et al.
488	64131	The opportunity of simulating and predicting thermospheric and ionospheric variables through tuning models by Swarm measurements	Mona Kosary et al.
489	65400	Drivers of the variability of ionospheric plasma observed by the Swarm satellites	Alan Wood et al.
490	64216	A novel technique to identify scale-dependent lags and its application to ionospheric science	Jaroslav Urbar et al.
491	64768	Variability of the spatio/temporal scales in the ionosphere at Swarm altitudes	Luca Spogli et al.
492	63511	Characterizing very high electron temperature events as observed by Swarm constellation at high latitudes	lgino Coco et al.
493	63451	Polar cap patches scaling properties investigated through Swarm observations	Roberta Tozzi et al.
494	63689	Investigating the correlation between electron density and temperature in the topside ionosphere through Swarm satellites data	Alessio Pignalberi et al.
495	64401	Observations at high latitude of pressure-gradient current from Swarm measurements	Giulia Lovati et al.
496	65208	INGV MUF nowcasting and forecasting methods	Carlo Scotto et al.
497	65493	Study of the foF2 variations at the Ionospheric Observatory of Rome during the last solar minima, in relation to the geomagnetic activity	Dario Sabbagh et al.
498	65678	Thermospheric parameters during ionospheric G-conditions	Loredana Perrone et al.
499	64311	Ionospheric Turbulence: Impact on the Global Navigation Satellite Systems Functioning	Paola De Michelis et al.
500	66524	Variations in ionospheric scintillation from GNSS observations in Greenland	Sarah Beeck et al.
501	65033	Characterization of ionospheric total electron content with VGOS and GNSS observations.	Nataliya Zubko et al.
502	63561	Swarm-E GPS osbervations of ionosphere total electron content and multi-scale plasma structures	Christopher Watson et al.
503	67336	Quasi-Tomographic Study of Equatorial Ionospheric Irregularity Distributions Using Multiple Instruments Onboard CASSIOPE/Swarm E	Ali Mohandesi et al.

#### A7.04 Irrigation estimates and management from EO data

Board	ID	Title	Author
152	64633	Detection and evolution (2010-2021) of irrigated areas and volumes over Africa, the Arabian Peninsula and the Middle East using SMOS and SMAP soil moisture	Thierry Pellarin et al.
153	64945	Leveraging Google Earth Engine for national mapping and water use estimation of irrigated agriculture.	Oliver Miguel Lopez Valencia et al.
154	61511	Remote Sensing based Water accounting of Krishna River Basin for efficient water management in Karnataka, India	P Somasekhar Rao et al.
155	61512	Remote Sensing Based Water Productivity Assessment of an Irrigated Command Area in Karnataka, India	P Somasekhar Rao et al.
156	63012	Phenology of Brassica oleracea var. botrytis	Shubham Rana et al.
157	65230	A prototype of operational irrigation-water-requirement monitoring chain for an inner Alpine valley based on EO data	Francesco Avanzi et al.
158	64837	Turf irrigation management at commercial airports	Juergen Born et al.
159	65544	Assessment of water accounting by using Sentinel-2 data: The INCIPIT project	Oscar Rosario Belfiore et al.
160	66324	Iran-wide analysis of agricultural developments in relation to water availability using 20 years of global satellite and climate reanalysis data	Robert Behling et al.

161		Observing Soil Moisture variation with closure phases using C-Band Sentinel-1 Interferometry	Nuno Cirne Mira et al.
162	66489	Joint analysis of Sentinel-1 and SAOCOM data sensitivity to soil moisture content over an agricultural area	Giovanni Anconitano et al.
163	63998	Combining Sentinel-1 and Sentinel-2 Observations to Estimate Cotton Water Consumption, Leaf Area Index, and Height	Gregoriy Kaplan et al.
164	65287	Crop water stress quantification using thermal infrared – from field experiments to space borne irrigation management	Florian Werner et al.
165	67096	Irrigated area mapping with a distributed remote sensing driven water balance model	Claire I. Michailovsky et al.
166	65368	New disaggregated Soil Moisture product at 20 m: Validation and Applications for irrigation mapping	Giovanni Paolini et al.

#### **A8.03 Ocean Carbon From Space**

Board	ID	Title	Author
342	63182	Primary Production, an Index of Climate Change in the Ocean: Satellite-Based Estimates over Two Decades	Gemma Kulk et al.
343	65561	Ocean colour estimates of global particulate organic carbon in the mixed layer	Christina Eunjin Kong et al.
344	64906	Evaluation of phytoplankton functional types in the trans-Atlantic Ocean from multi- sensor based satellite observations with independent in-situ information	Hongyan Xi et al.
345		The Lampedusa Oceanographic Observatory: a multi-sensor platform to support satellite investigations of the CO2 fluxes at the sea-air interface in the	Mattia Pecci et al.
346	63057	A study on the satellite based ocean surface primary productivity around the Korean peninsula using GOCI	Jong-Kuk Choi et al.
347	638461	Monitoring and parameterization of plankton dynamics in the European Sector of the Arctic Ocean	Aleksandra Cherkasheva et al.
348	66915	Arctic land-ocean organic carbon flux variability and its drivers monitored using ESA CCI ECVs	Bennet Juhls et al.
349	641411	Development of a machine learning approach for the estimation of the marine CO <sub>2</sub> partial pressure over the global coastal ocean in the frame of the CO2COAST project	Roy El Hourany et al.

#### A8.08 Advances and EO Applications in Remote Sensing of Marine Litter and Debris

Board	ID	Title	Author
319	65419	Tackling the plastic debris challenge at its source – Linking EO data with multi- source in-situ data for modelling debris pathways from source to sink	Anna Brand et al.
320	62740	The Use of Spaceborne Radars to Image Ocean Microplastic Dynamics	Christopher Ruf et al.
321	646111	Detection of Marine Plastic Source Locations using Machine Learning applied to Sentinel-1 & Sentinel-2 Data	Samantha Lavender et al.
322	65637	Feasibility of a satellite mission for monitoring marine macroplastics	Stefan Livens et al.
323	64415	Coastal Marine Litter Observatory: drone imagery and AI for marine litter detection	Konstantinos Topouzelis et al.
324	64067	Identifying macro plastics assisted by close-range hyperspectral remote sensing and deep learning	Nina Gnann et al.
325	66571	Assessment of Machine Learning for floating marine litter detection	Lenka Fronkova et al.
326	hhX53	PLASTIC MONITOR: Detecting riverine plastic conglomerations, fluxes and pathways in Indonesia	Marieke Eleveld et al.
327	62710	Eyes on Plastic – flying high, diving deep to fight aquatic plastic litter	Eva Maria Haas et al.
328	63621	Detecting and recognising surface accumulations in Sentinel-2 imagery	Tiit Kutser et al.

329	63646	ISAR Data	Morgan Simpson et al.
330	63653	Ocean Global Watcher: Detection of marine anomalies using radar or optical satellite images	Adrien Lagrange et al.
331	66965	Using a drone-based thermal infrared camera to monitor floating plastic litter	Lonneke Goddijn-Murphy et al.
332	67385	Ocean Scan, a marine debris database from Earth and space	Laia Romero et al.
333	66777	A review of the application of satellite mapping techniques for marine litter monitoring	michael king et al.
334	67469	Airborne backscatter LIDAR data over the Great Pacific Garbage Patch and their processing for the Detection of Marine Litter: pros and cons analysis	Lorenzo Palombi et al.
335	66724	River plastic monitoring from space: Fact of fiction?	Tim van Emmerik et al.
336	64613	River plastics from space: Combining Sentinel-1 and UAV imagery to monitor mixed debris patches	Louise Schreyers et al.
337	65445	Using hyperspectral radiometry towards subpixel detection of plastic debris on rivers and shorelines.	Aser Mata et al.
338	67309	Finding Floating Plastics in Plant Patches using Worldview-3 Satellite Imagery	Lauren Biermann et al.

#### A8.12 Synergies between Earth Observation and BGC-Argo autonomous profilers

Board	ID	Title	Author
309	I 63571	Mesoscale eddies' effect on surface and subsurface biology in the North Atlantic: from phytoplankton to zooplankton	Guiyan Han et al.
310	63864	3-Dimensional phytoplankton composition in the transatlantic region via multi- sensor data fusion	Ehsan Mehdipour et al.
311	63737	Vertically resolved light models for the global ocean based on machine learning techniques	Pannimpullath Remanan Renosh et al.
312	63000	BGC-Argo radiometry to assess CDOM-proxy retrieved from AEOLUS observations	Davide Dionisi et al.
313	I 63271	BGC-Argo and Earth Observation to assess the impact on, and the resilience of, marine ecosystems after a Marine Heat Wave	Emanuele Organelli et al.
314	63516	Campaigns	Shawnee Traylor et al.
315	64836	Radiometry on Biogeochemical-Argo floats: towards hyperspectral measurements on a global array ?	Edouard Leymarie et al.
316	65047	Can information related to the sea state be extracted from an Argo float?	Antoine Poteau et al.

## A9.03 The NASA-ESA Arctic Methane and Permafrost Challenge (AMPAC) Initiative

Board	ID	Title	Author
428	67127	Assessing the Feasibility of Multiple DInSAR Schemes for Pan-Arctic Monitoring of Permafrost Change under a Rapidly Warming Climate	Keith Morrison et al.
429	6/2XY1	ESA Permafrost_CCI algorithm - how to map changes in permafrost temperature and thaw depth at global scale	Sebastian Westermann et al.
430			Antonie Haas et al.
431		climate variables	Alexandra Runge et al.
432	64272	Earth Observation-based Time Series Analysis of Retrogressive Thaw Slump Dynamics in the Russian High Arctic	Sophia Barth et al.
433	64664	Quantifying Rapid Permafrost Thaw with Computer Vision and Graph Theory	Tabea Rettelbach et al.

434	66735	Conceptualization for combining Remote Sensing and Modelling to quantify and predict Rapid Permafrost Degradation on the New Siberian Islands	Cornelia Inauen et al.
435	66921	A new dynamic land cover classification of the Arctic Lena Delta for scaling methane fluxes	Guido Grosse et al.
436		Circumpolar landcover characterization for climate change applications with Sentinel-1/2 data	Annett Bartsch et al.
437		Exploring the added benefit of including Sentinel-1 and Sentinel-2 imagery in mapping of drained lake basins in Arctic permafrost areas	Helena Bergstedt et al.
438	65110	Challenges in use of C-band SAR for carbon cycle related landcover characterization across the Arctic	Xaver Muri et al.
439	66807	Potential of the Space Lidar Mission MERLIN for Remote Sensing of Arctic Methane	Thomas Diehl et al.
440	67045	Assessing Arctic atmospheric methane monitoring in a 4D OSSE comparing synthetic observations from satellite missions and atmospheric tower networks in	Martijn Pallandt et al.
441	66958	The role of environmental drivers constraining the seasonality of methane in large scale at high latitudes	Ella Kivimäki et al.
442	67175	Systematic evaluation of TROPOMI methane observations at high latitudes	Hannakaisa Lindqvist et al.

**B1.04 FLEX validation status and plans** 

Board	ID	Title	Author
55	66834	Impacts of forest structures on canopy SIF modelled for FLEX Cal/Val purposes with Discrete Anisotropic Radiative Transfer	Zbyněk Malenovský et al.
56		Development of a portable system for in-field calibration validation to improve the ground-based measurements for the future Earth Explorer Mission FLEX	Laura Mihai et al.
57	63585	FLEX CalVal Activities	Marcos Jiménez et al.
58		Does the light environment matter? A comprehensive analysis of the impact of light environment on leaf spectral chlorophyll fluorescence across a range of species	Paulina Rajewicz et al.
59	63996	Spatial relation between Sun-induced Chlorophyll Fluorescence (SIF) and the Plant Available Water (PAW) in the root zone	Juan Quiros et al.
60	64047	Sun-induced Chlorophyll Fluorescence (SIF)-downscaling from the fractal geometry perspective	Juan Quiros et al.
61	65184	Comparing leaf and canopy red and far-red sun-induced fluorescence under heat and drought conditions	Sebastian Wieneke et al.
62	64864	HyScreen, a ground-based hyperspectral imaging system for solar-induced fluorescence (SIF) retrieval from leaf to plant canopy	Huaiyue Peng et al.

#### **B2.02 FLEX - ESA's Photosynthesis Mission**

	Board	ID	Title	Author
ſ	1 5/1 1 64416	62216	FLEX Instrument Flight Model Subsystems Features and Performance: Focal Plane	Hermann Bittner
		63316	System, Low Resolution Spectrometer, and Double Slit Assembly	nermann bitther

#### **B3.02** Arctic Weather Satellite

Board	ID	Title	Author
427	67485	HiSRAMS flight tests and radiation closure	Natalia Bliankinshtein et al.

#### **B6.03 EnMAP – The German Spaceborne Imaging Spectroscopy Mission**

Board	ID	Title	Author
		spaceborne imaging spectroscopy missions	Akpona Okujeni et al.
12	62832	Toward a global cryosphere product: Optimal estimation of snow and ice surface properties from spaceborne imaging spectrometers	Niklas Bohn et al.

	13	03360	Analysis-Ready Data (ARD) from Hyperspectral Sensors—The Design of the EnMAP L2A Land Product	Martin Bachmann et al.
Γ	14 63590	FIRST EVALUATION OF POLYMER ATMOSPHERIC CORRECTION ALGORITHM APPLIED	Mariana Soppa et al.	
L	14	14   03590	TO DESIS AND PRISMA HYPERSPECTRAL SENSORS OVER COASTAL AND INLAND	Ivialialia Soppa et al.

#### B6.04 PRISMA Hyperspectral mission: characteristics achievements and data exploitation

Board	ID	Title	Author
15	64597	PRISCAV: toward a scientific CAL/VAL of the PRISMA mission	Lorenzo Genesio et al.
16	63030	Products and Applications for inland and coastal WATER for PRISMA hyperspectral imagery: the PANDA-WATER project	Federica Braga et al.
17	64060	lannlications	Federica Braga et al.
18	64389	The benefits of hyperspectral imagery in Black Sea coastal waters near the Danube Delta: comparison of PRISMA and Sentinel-2 observations	Irina Gancheva et al.
19	64589	Simultaneous retrieval of aerosols and marine parameters with PRISMA	Federico Serva et al.
20	63827	PRISMA potential for geological outcrop mapping: natural asbestos (Val di Taro, Italy) and porphyry gold (Shadan, Iran) deposits	Simone Pascucci et al.
21	65081	Iminerals in the Iberian Pyrite Belt	Anne Blumberg et al.
22	66820	Application of PRISMA satellite hyperspectral imagery for man-made materials classification in urban areas: a case study in Tuscany Region (Italy)	Luisa Beltramone et al.
23	63947	Olive trees classification and abandonment identification with PRISMA imagery	Celeste Righi Ricco et al.
24	64164	Crop yield estimation with PRISMA and Sentinel-2 image time series	Michael Marshall et al.
25	64714	Environmental impact assessment on human health: advanced methods for hyperspectral data exploitation	Giovanni Corsini et al.
26	64807	Forest Fire Fuel Map from PRISMA Hyperspectral Data: Algorithms and first results	Alessia Tricomi et al.
27	65307	earthbit4PRISMA	Cristoforo Abbattista et al.

#### **B8.05 Copernicus Contributions Missions (VHR)**

Board	ID	Title	Author
5	65485	Sentinel-3 C/D Payload status and evolutions since A&B	Benedikt Guldimann et al.
6	67248	Introducing Vision-1 to the ESA Copernicus Programme	Lisa Haskell et al.
7	64501	Guardians of the Earth: ensuring safety with Pléiades Neo	Morgane Bonneau

#### **B8.06 Copernicus Sentinel-6 Michael Freilich**

Board	ID	Title	Author
318	1 /110/	On-ground processing and performance of the Poseidon-4 altimeter internal calibration: chirp replica and attenuator	Michele Scagliola et al.

#### C5.02 Big EO data platforms

Board	ID	Title	Author
81	62699	Emerging Big Data Platform for Water Cycle and Flood Detection	Thomas Huang
82	64316	The JRC Big Data Analytics Platform (BDAP)	Pierre Soille

	_		
83	65182	A user perspective on future cloud-based services for Big Earth data	Julia Wagemann et al.
84	63546	Get HyP3! Cloud-native SAR processing for everyone	Joseph H. Kennedy et al.
85	63835	Imeasurements	Aina García-Espriu et al.
86	63892	A Google Earth Engine application to retrieve high resolution Land Surface Temperature from Landsat imagery	Sofia L. Ermida et al.
87	63941	Novel Workflow Implementations To Facilitate Rig Farth Observation Data	Florian Katerndahl et al.
88	66897	Introducing the OPERA project for systematic surface water, surface deformation, and surface disturbance data products from satellite observations	David Bekaert et al.
89	64239	LOOSE: Combining loosely coupled components into coherent architecture	Julian Meyer-Arnek et al.
90	67086	CODE-DE a cloud for public authorities to implement innovative EO and AI applications utilizing Copernicus data and services	Michael Schmidt
91	65229	Food Security TEP: Recent Advances and Evolutions	Silke Migdall et al.
92	65076	Serving Extreme Analytics on the Food Security TEP – Crop Type Mapping	Florian Appel et al.
93	64630	ESA Agriculture Virtual Laboratory (AVL): an online community open science tool for Earth Observation agricultural scientists	Sophie Bontemps et al.
94	64740	Quantifying vegetation variables over Furone with Sentinel-3 QLCI ton-of-	Pablo Reyez Muñoz et al.
95	64959	Maximizing data return through scheduling optimization	Pablo Bernal et al.
96	65161	Standards-based, Federated Exploitation Platforms	Ingo Simonis et al.
97	65311	Global Earth Monitor	Matej Batič et al.
98	65370	Showcasing the semantic EO data cube infrastructure for Austria	Martin Sudmanns et al.
99	65489	EarthConsole®: a cloud-based platform for earth observation data exploitation	Giancarlo Rivolta et al.
100	67091	STAC and COG to support a Cloud native EO multi-mission processing platform	Emmanuel Mathot et al.
101	65560	Democratizing Earth Observation with the WASDI EO analytics platform	Guy Schumann et al.
102	65651	Secure, federated, efficient cloud EO components - OGC suite innovations	Piotr Zaborowski et al.
103	66580	A scalable platform-based solution for a rapid response to Oil Spill Detection and Monitoring	Chandra Taposeea-Fisher et al.
104	66780	EOPaaS: a Platform as a Service for Earth Observation	Cesare Rossi et al.
105	64610	OrthoRectification as a Service	Luigi Agrimano et al.
106			
	67194	MAAP, a Multi-mission Algorithm and Analysis Platform	Marie BOUTET et al.
107	67194 67396	The DYDAS – "DYnamic Data Analytics Services" platform for HPC hig data analytics	Matteo Picchaini et al.
		The DYDAS – "DYnamic Data Analytics Services" platform for HPC big data analytics	

#### C5.05 Earth System & EO Data Cube Services and Tools for Scientific Exploitation

Board ID Title Author	
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109	65776	Pixels United: An Open, Standards-Based Datacube Federation	Peter Baumann
110	64954	Geo Engine: Leveraging harmonized data access for interactive geo-analytics	Christian Beilschmidt et al.
111	64174	Unleash the power of Data and Analytics with OneAtlas	Patryk Jaskula
112		Danube Data Cube	Márton Tolnai et al.
113	66975	Experiences of scientific exploitation of EO data in a platform collaborative environment for coastal research and applications	Laura Candela et al.
114	64684	Semantic Earth observation data cubes using AVHRR and Sentinel-3	Hannah Augustin et al.
115	66540	Dutch Sentinel-2 spatio-temporal data cubes for data mining and education	A.L. van Natijne et al.
116	66852	EO Data at Scale Using the Open Data Cube (ODC): Leveraging Satellite, UAV and IoT Data to Perform Combined Analyses	Oguz Yetkin et al.
117	67256	A Data Cube on-demand to handle atmospheric composition datasets from European EO missions	Maurizio Bottaccio et al.
118	63309	NADIR ALTIMETRY FOR HYDROLOGY: A SHOWCASE OF WEB SERVICE FOR THE OPTIMISATION OF DATA ACQUISITION	Simon Boitard et al.
119	64257	Unlocking Earth observation data for South-East Asia using the Open Data Cube	Amy Parker et al.

# D1.05 International Collaboration to better understand risks using satellite EO (GEO, CEOS, etc.)

Board	ID	Title	Author
31	halxal	Detecting Artillery Craters in Conflict Zones with Semantic Segmentation Convolutional Neural Networks	Erik Duncan et al.
32			Chia-Hsiang Yang et al.
33	64420	The CEOS Recovery Observatory: towards the operational use of satellite imagery in support of recovery from major disasters	Hélène de Boissezon et al.
34	63073	Assessment of recent trends of wildfire activity in Europe	Michael Nolde et al.
35	65106	volcanic risk management	Giuseppe Puglisi et al.
36	65563	The ESA Charter Mapper: an operational EO processing environment to support multi hazard disaster mapping activities	Mauro Arcorace et al.

# D2.04 Sustainable Development Goals (SDGs)

Board	ID	Title	Author
255	63897	Cop4SDGs – Copernicus for sustainability indicators	Ronja Redlich et al.
256	64852	GAUSS: Generating Advanced Usage of Earth Observation for Smart Statistics	Evangelos Gerasopoulos et al.
257		Social benefit of space missions mapped into the Sustainable Development Goals	Camilla Colombo et al.
258		Germany-wide land cover classification and imperviousness mapping for annual settlement and infrastructure monitoring based on Sentinel-2 data	Guido Riembauer et al.
259	63913	Mapping deprived urban areas in support of SDG 11 – Free Earth Observation data to implement the Domain of Deprivation Framework	Monika Kuffer et al.
260	66900	USING EARTH OBSERVATION DATA AND MACHINE LEARNING TO MAP URBAN POPULATION IN DATA SCARCE ENVIRONMENTS	Stefanos Georganos et al.
261	67321	Sentinel-2 MSI data for urban land use efficiency monitoring in Kigali, Rwanda to support sustainable development	Theodomir Mugiraneza

262	64441	Creating sustainable development index combining satellite data with other data sources: application on the assessment of the sustainability of the global tourism	Tarek Habib
263	65239	Investigating the mutual impact between refugee camps and their environment with Sentinel-1&2 time-series - Preliminary results of the ARICA project.	Jörg Haarpaintner et al.
264	67272	LUCKINet - building the next generation of global gridded data prodcuts on multiple facets of land-use	Steffen Ehrmann et al.
265	66690	Monitoring of the SDG 2.4.1 and 15.3.1 indicators on the CREODIAS platform with using in-situ data	Sergiy Sylantyev et al.
266	65210	How connectivity and other digital solutions can support the decarbonization of the green economy	Rita Rinaldo et al.
267		Closing the gap in access to EO data for climate risk monitoring and analysis through an easy to configure and deploy open-source solution designed for	Amit Wadhwa et al.
268	64035	Evaluation of Open Dump Detection in Vietnam using Multi-sensor Remote Sensing Data	Ka Hei Pinky Chow et al.
269		NEXTLAND forestry services fulfil UN sustainable development goals	Alireza Taravat et al.
270	65265	Developing SDG indicators for the assessment of yield capacity, land use intensity and vulnerability of agricultural soils in Germany	Heike Gerighausen et al.
271	66391	NASA Harvest Portal: A Data Platform for Agricultural Supply Chains Analysis	Michael Humber et al.

#### **D2.07 Water Resources Management**

Board	ID	Title	Author
168	66969	Deriving high-resolution soil moisture-based drought indices from remote sensing: towards resilient irrigation practices	Vivien-Georgiana Stefan et al.
169	67432	SWALIS/KaRADOC project: a calibration procedure for a Ka-band sensor	Kokou Jean-Claude KOUMI et al.
170	64939	Monitoring of Power Station Cooling Water Discharge using LANDSAT 8 TIRS	Tiago Silva et al.
171	65506	Glacial Lake Water Extent Mapping from Space	Manu Tom et al.
172	65130	Remote Sensing for Water Management Tasks	Kian Pakzad
173	65204	Surface Soil Moisture (SSM) Over the Masovian voivodeship in Poland	Patryk Grzybowski et al.
174	66281	Human and natural processes both induce changes along rivers: The cases of Mura (Slovenia) and Vjosa (Albania)	Urša Kanjir et al.
175	67026	Dam basin filling high frequency monitoring through Sentinel-1 data: the GERD use case	Filippo Britti et al.
176	64921	Operational weekly inland excess water mapping	Zalán Tobak et al.
177	66336	Why Aculeo Lagoon Disappeared – Explained from The Remote Sensing Point of View	Guido Staub

# **D2.09 Sustainable Natural Resources and Energy**

Board	ID	Title	Author
240	65197	Estimating building type-based PV energy balances using UAV data for urban infrastructure planning	Gebhard Warth et al.
241			Malte Vöge et al.
242	65578	Exploiting Sentinel-1 and Sentinel-2 data for prospect scale exploration: the GREENPEG project case studies	Joana Cardoso-Fernandes et al.
243	64561	Integrated Mining Impact Monitoring (EU-Project i2Mon) for Open-pit and Underground Mines	Chia-Hsiang Yang et al.

244	63778	Spectral Variation of solar Photovoltaic (PV) Modules at Different Orientations	Chaonan Ji et al.
245	65011	models	Susanne Weyand et al.
246	65696	CAMS Solar Radiation Service, variability-based evaluation and service evolution to other parts of globe	Faiza Azam et al.
247	n/491	571	Annekatrin Metz-Marconcini et al.
248	63815	Co-designing satellite wind products for offshore wind energy	Merete Badger et al.
249	64189	GPM and IMERG rain data used to estimate the risk of rain erosion at wind turbines	Charlotte Hasager et al.

#### D2.10 GEOGLAM the First Decade: Progress in Operational Agricultural Monitoring

Board	ID	Title	Author
140	1 63977	Field Geometry and the Spatial and Temporal Generalization of Crop Classification Algorithms—A Randomized Approach to Compare Pixel Based and Convolution	Mario Gilcher
141	65222	Cloud based European Union Common Agricultural Policy applications and tools for advanced agriculture monitoring	Klaudia Bielińska
142	1 63339	Combining crop growth models and Earth Observation data to monitor crops over large areas	Jose Gómez-Dans et al.
143	62738	Big Earth Data for global cropping intensity mapping at 30 m resolution	Bingfang Wu et al.
144	62864	IData: a Case Study in Cambodia and Viet Nam	Claudia Paris et al.
145	62936	Tracking the phenological developments of crops by a complementary set of interferometric and polarimetric time series derived from Sentinel-1 at the JECAM	Johannes Löw et al.
146	I 651541	Monitoring crop growth at JECAM sites in Poland and South Africa using in-situ and satellite data	Radoslaw Gurdak et al.
147	62991	Archetype crop trait co-dynamics from Sentinel 2	Feng Yin et al.
148	64380	FORECASTING WHEAT YIELD OVER THE MAJOR WHEAT EXPORTING COUNTRIES	Belén Franch Gras et al.
149	66352	Spatio-temporal comparison of the vegetation anomalies products used in the agricultural monitoring systems: West Africa case	Agnes Begue et al.

#### **D2.13 Sustainable Development of coastal areas**

Board	ID	Title	Author
276	61959	C-RISe – Developing capacity to apply satellite data in managing coastal risk and supporting sustainable development in the South West Indian Ocean.	David Cotton et al.
277	62/15/11	The use of satellite data for Western Indian Ocean front and upwelling identification in the SOLSTICE project	Chris Banks et al.
278	64424	('SeaLevel')	Detlef Stammer et al.
279	65267	A methodological framework for the monitoring of mangrove dynamics based on remote sensing data to support policy making and conservation initiatives	Quentin GUSMAI et al.
280		Creating an open-access web service for assessing urban beaches' sustainability	Alexandra Culibrk et al.
281	64680	Mapping inland pond aquaculture for the coastal zone of Asia: an object-based, multi-sensor approach using Sentinel-1 and Sentinel-2 time-series	Marco Ottinger et al.

# E2.02 Climate Security - The key role of R&I and cooperation to address global threats

Board	ID	Title	Author
273		The impact of droughts on vegetation condition and land use in the Central	Juliane Huth et al.
2/3	03/29	Highlands of Vietnam – Analyses based on Earth observation time-series	Juliane Hutil et al.

274	Investigation of dust storms and effective factors in their formation (including overseas and inland studies) in the southern and southwestern provinces of Iran	TAYEBEH MESBAHZADEH
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#### E3.06 Mediterranean Regional Applications and Science

Board	ID	Title	Author
298	63399	Landsat based analyses of major land use and cover transformations after Spain's accession to the EU	Stellmes Marion et al.
299	64122	Imonitoring 2022	Giacinto Manfron et al.
300	63485	4DMED-Hydrology: capitalizing high resolution Earth Observation data for a consistent reconstruction of the Mediterranean terrestrial water cycle	Christian Massari et al.
301	64196	The Apollo mediterranean hurricane: from weather scenarios to flooded areas	Luca Ferraris et al.
302	64228	How can numerical weather prediction support the ATM activity during severe weather events?	Vincenzo Mazzarella et al.
303	64360	Optimizing multi-platform sampling strategies to anticipate SWOT validation	Bàrbara Barceló-Llull et al.
304	67400	The ESA Ulysses project and the exploitation in the Mediterranean area of Soil Sealing products and indicators	Angelo Amodio et al.
305	64730	The Mediterranean Regional Information Network (MedRIN): An EO Partnership for Land Cover / Land Use Change (LCLUC) Science	Diofantos Hadjimitsis et al.
306	65395	ltor EO and Geospatial Information in the Eastern Mediterranean. Middle East and	Diofantos Hadjimitsis et al.
307	65634	Space4Maritime: diving into space-based solutions for the maritime domain in the Mediterranean region. Challenges and opportunities to foster to collaboration	Marco Tomassetti et al.