



Cyprus Remote Sensing Society

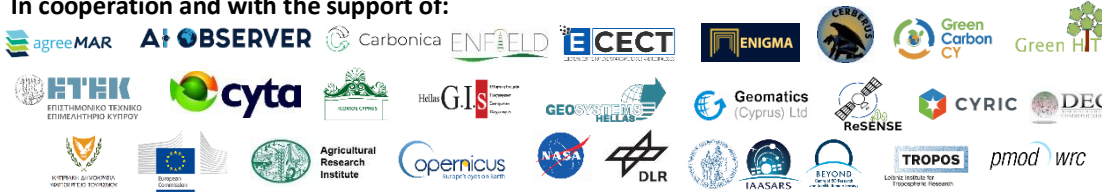
Tenth International Conference on Remote Sensing and Geoinformation of Environment

Conference Program

rscy2024.cyprusremotesensing.com



Under the Auspices
DEPUTY MINISTRY OF RESEARCH, INNOVATION AND DIGITAL POLICY
REPUBLIC OF CYPRUS

Day Time	Monday 8/4/2023	Day Time	Tuesday 9/4/2023							
8:00 - 9:00	Registration	8:00 - 9:00	Registration							
9:00 - 10:00	Opening Ceremony - Aphrodite Stage Hall 1. Professor Diofantos Hadjimitsis - ERATOSTHENES CoE & Cyprus University of Technology (CUT) 2. Dr Nicodemos Damianou- Deputy Minister of Research, Innovation and Digital Policy of Cyprus 3. Mr Kostas Galatariotis- President of Cyprus University of Technology Board 4. Professor Evangelos Akylas- Vice Rector of Financial Planning and Development (CUT) 5. Dr Kyriacos Themistocleous- President of Cyprus Remote Sensing Society 6. Mrs Myria Loizidou- ETEK Honorary Awards	9:00 - 9:30	Aphrodite Stage Hall Keynote Speakers: Dr El Hadi & Dr Evdokimos Konstantinides							
	VIDEO OF THE EXCELSIOR HORIZON TEAMING PROJECT AND THE ERATOSTHENES CENTER OF EXCELLENCE Keynote Speakers: 1. Gunter Schreier(30min) « <i>Earth Observation: the last 50 years and challenges ahead</i> » 2. Steffen Kuntz (30min) « <i>New market opportunities and challenges for remote sensing service</i> » 3. Vasilis Kalogirou (10min) « <i>EUSPA in Horizon Europe: delivering success for industry and academia</i> ».	9:30 - 11:00	Parallel Sessions <table border="1"> <tr> <td> ADONIS ROOM Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR </td> <td> APHRODITE HALL "ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project </td> <td> APOLLON ROOM SAR Abstract Session </td> <td> ZEUS ROOM Cultural Heritage Abstract Session </td> </tr> </table>	ADONIS ROOM Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR	APHRODITE HALL "ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project	APOLLON ROOM SAR Abstract Session	ZEUS ROOM Cultural Heritage Abstract Session			
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10:00 - 11:30		11:00 - 11:30	Coffee Break - Poster presentations							
11:30 - 12:00	Coffee Break - Poster presentations	11:30 - 13:00	Parallel Sessions <table border="1"> <tr> <td> ADONIS ROOM Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR </td> <td> APHRODITE HALL "ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project </td> <td> APOLLON ROOM Excelsior closed Session (starts at 11:00 am) </td> <td> ZEUS ROOM Atmosphere, Ionosphere, Meteorology Abstract Session </td> </tr> </table>	ADONIS ROOM Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR	APHRODITE HALL "ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project	APOLLON ROOM Excelsior closed Session (starts at 11:00 am)	ZEUS ROOM Atmosphere, Ionosphere, Meteorology Abstract Session			
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12:00 - 13:30	Parallel Sessions	13:00 - 14:00	Lunch							
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13:30 - 14:30	Lunch	15:30 - 16:00	Closing Ceremony and Awards							
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16:00 - 16:30	Coffee Break - Poster presentations	In cooperation and with the support of: 								
16:30 - 18:00	Parallel Sessions	Secretariat: Smart events Sponsored by: esa Proc. Published by: SPIE DIGITAL LIBRARY								
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18:00 - 19:00	Expert Lectures - ERATOSTHENES Centre of Excellence / Excelsior (Prof. Steffen Kuntz & Dr Evdokimos Konstantinides) (Closed Session)									
20:30 - 24:00	Social Dinner Costa's Koloni Tavern									



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Monday 8 April 2024

08:00-09:00		REGISTRATION	
8/4 9:00 - 10:00		Opening Ceremony (Aphrodite Stage Hall)	
		<p>Welcome, Greetings and Opening Speeches</p> <ul style="list-style-type: none"> • Professor Diofantos Hadjimitsis -ERATOSTHENES CoE & Cyprus University of Technology (CUT) • Dr Nicodemus Damianou- Deputy Minister of Research, Innovation and Digital Policy of Cyprus • Mr Kostas Galatariotis- President of Cyprus University of Technology Board • Professor Evangelos Akylas- Vice Rector of Financial Planning and Development (CUT) • Dr Kyriacos Themistocleous- President of Cyprus Remote Sensing Society • Mrs Myria Loizidou- ETEK <p>Honorary Awards</p>	
8/4 10:00-11:30		Keynote Speakers (Aphrodite Stage Hall)	
		<ul style="list-style-type: none"> • VIDEO OF THE EXCELSIOR HORIZON TEAMING PROJECT AND THE ERATOSTHENES CENTER OF EXCELLENCE • Gunter Schreier(30min) «Earth Observation: the last 50 years and challenges ahead» • Steffen Kuntz (30min) «New market opportunities and challenges for remote sensing service» • EUSPA (10min) «EUSPA in Horizon Europe: delivering success for industry and academia». 	
11:30-12:00		COFFEE BREAK - POSTER PRESENTATIONS	
8/4 12:00-13:30		REMOTE SENSING	Chair: Silas Michaelides Chair Support: George Leventis Room: ADONIS
	1144	THE JOINT CYPRUS FLIGHT CAMPAIGN OF ERATOSTHENES COE AND DLR (CERAD) OF 2023 T. Krauß, V. Gstaiger, C. Köhler, M. Poutli, K. Themistocleous, S. Michaelides, C. Mettas	
	1156	ADVANCING ECONOMIC INSIGHTS: INTEGRATING SPACE TECHNOLOGIES FOR REAL-TIME ECONOMIC NOWCASTING C. Kontopoulos, T. Papakosmas, A. Kalogirou, G. Leventis, K. Spasenovic, V. Charalampopoulou	
	1203	DEEP INTERNAL LEARNING FOR SINGLE SWIR SATELLITE IMAGE SUPER RESOLUTION Y. Geltser, S. Maman, S. Rotman, D. Blumberg, O. Hada1, I. Dror, D. Mishra, D. Choukroun, A. Shyriayev	
	1196	FROM PIXEL TO INTEL: LEVERAGING SPACE EDUCATION FOR CLIMATE ACTION S. Maman, D. Oryan, L. Ron, G. Doron, B. Karlinsky	
	1233	THE INTEGRATION OF REMOTE SENSING TECHNIQUES IN MODERN CIVIL ENGINEERING E. Tantele, C. Filippou, R. Votsis, O. Marangos, N. Kyriakides	
	1236	SELENE & HELIOS – THE FIRST GREEK EARTH OBSERVATION CUBESATS ARE IN PREPARATION PHASE P. Kolokoussis, C. Kontopoulos1, G. Voskopoulos1, V. Charalampopoulou	
	1211	UN SPIDER LEVERAGING SPACE TECHNOLOGIES FOR EARLY WARNING SYSTEMS: FROM SCIENCE TO POLICY S. Maman, M. Hilljegerdes, Y. Vetrira, M. Hazarika, J. Villagran De Leon, L. Czaran, G. Amarnath, T. Brooks, G. James	
8/4 12:00-13:30		ENVIRONMENT	Chair: Christiana Papoutsas Chair Support: Eleni Loulli Room: ZEUS
	1167	ON THE MONITORING OF URBAN VEGETATION DISEASES USING SATELLITE TIME SERIES, SINGULAR SPECTRUM ANALYSIS, AND FISHER-SHANNON STATISTICAL METHOD R. Lasaponara, N. Masini, N. Abate, L. Galasso, L. Affitto, A. Loperte, O. Candela, A. Aromando, M. Santarsiere, L. Telsca	
	1186	ASSESSMENT OF VEGETATION GROWTH USING TRADITIONAL METHODS, PHOTOGRAMMETRY, AND NEURAL RADIANCE FIELDS D. Abate, M. Eliades, K. Themistocleous, D. Hadjimitsis	
	1188	MONITORING FOREST DYNAMICS BETWEEN 1987-2023: AN NDVI ANALYSIS OF THREE DOMINANT SPECIES IN PAPHOS FOREST, CYPRUS C. Theocharidis, M. Eliades, I. Gitas, C. Danezis, D. Hadjimitsis	
	1191	SPECTRAL ANALYSIS AND MAPPING OF UNREGULATED AND REGULATED LANDFILLS IN BULGARIA T. Spasova	
	1224	SPECTRAL ANALYSIS AND MAPPING OF UNREGULATED LANDFILLS IN VARNA, THE NORTHEAST REGION OF BULGARIA T. Spasova	
	1216	EO-BASED INDICATORS FOR BIODIVERSITY MONITORING AT NATIONAL SCALE IN GREECE: FRAMEWORK DEVELOPMENT FOR THE HELLENIC BIODIVERSITY INFORMATION SYSTEM (EL-BIOS) G. Mallinis, E. Fitoka, I. Chrysafis, V. Fotakidis, L. Chatziordanou, E. Chatzicharalabous	
	1214	SYNERGIZING AIRBORNE HYPERSPECTRAL IMAGING AND GROUND TRUTH DATA FOR ENVIRONMENTAL MONITORING: INSIGHTS FROM THE CERAD CAMPAIGN C. Mettas, K. Themistocleous, M. Prodromou, J. Kountouri, E. Kalogirou, E. Evagorou, M. Tzouvaras, M. Christoforou, E. Loulli, G. Charalampous, M. Eliades, Z. Pittaki, I. Varvaris, K. Fotiou, D. Abate, D. Christofi, C. Theocharides, T. Polydorou, E. Neofytou, M. Christoforou, E. Loulli, S. Neophytides, D. Koumoulidis, C. Papoutsas, M. Mavrovouniotis, T. Krauß, V. Gstaiger, C. Köhler, D. Hadjimitsis	
8/4 12:00-13:30 14:30-16:00 16:30-18:00		Workshop (see separate agenda)	Chairs: Michalis Mavrovouniotis, Maria Anastasiadou, Stelios Neophytides Room: APHRODITE HALL
	Workshop	Workshop: Annual Hybrid Workshop on 'AI & Big Data: Trends and Challenges' organised by EXCELSIOR H2020 Teaming Project	
	1193	TRUSTWORTHY AI G. Spathoulas, G. Kavallieratos	
	1215	FLOODHUB DIACHRONIC MAPPING SERVICE IN THE TRANSBOUNDARY EVROS RIVER BASIN A. Tsouni, A. Katsos, H. Kontoes	
8/4 12:00-13:30		Workshop (see separate agenda)	Chairs: Maria Prodromou, Ioannis Gitas Room: APOLLON ROOM
	Workshop	Workshop for ReSENSE (Remote sensing technologies training) project	
13:30-14:30		LUNCH	

8/4 14:30-16:00	HAZARDS		Chair: Rani Hellerman Chair support: Marios Tzouvaras	Room: ADONIS
	1134	INTEGRATED SATELLITES-BASED SOLUTION FOR ENHANCED FIRE DETECTION AND FLOODING MONITORING R. Hellerman		
	1178	FLOOD HAZARD ASSESSMENT USING HEC-RAS MAPPING IN GARYLLIS RIVER BASIN, CYPRUS J. Kountouri, A. Tsouni, S. Sigourou, V. Pagana, C. Panayiotou, C. Mettas, E. Loulli, C. Kontoes, D. Hadjimitsis.		
	1212	DETECTION OF GNSS INTERFERENCE THROUGH A NATURAL HAZARD MONITORING SYSTEM AND NEXT STEPS TOWARDS THE DEVELOPMENT OF AN INTERFERENCE EARLY WARNING SYSTEM N. Christoforou, D. Kakoullis, C. Danezis		
	1206	INVESTIGATING THE EFFECT OF INTENSE RAINFALL EVENTS IN ESTIMATING THE DISPLACEMENTS OF AN ACTIVE AND FAST-MOVING LANDSLIDE USING GNSS SAR ANALYSIS: THE CASE STUDY OF PISSOURI VILLAGE IN CYPRUS K. Fotiou, D. Kakoullis, C. Kotsakis, M. Hatzinikos, C. Danezis, D. Hadjimitsis		
	1201	SEISMIC SURVEILLANCE OF VRANCEA ACTIVE REGION IN ROMANIA BY TIME SERIES SATELLITE DATA ANOMALIES M. Zoran, R. Radvan, D. Savastrou, M. Tautan		
	1194	GIS-BASED SEIS MIC RISK AND LOSS ESTIMATION PLATFORM FOR CYPRUS C. Filippou, R. Votsis, E. Tantele, O. Marangos, K. Fotiou, N. Kyriakides		
8/4 14:30-16:00	FIRES & FOREST		Chair: Ioannis Gitas Chair support: Christodoulos Mettas	Room: ZEUS
	1166	ON THE ESTIMATION OF FIRE IMPACT ON ECOSYSTEM SERVICES QUANTIFIED (ALSO) USING SOCIO-ECONOMIC ASPECTS R. Lasaponara, D. Gioia, A. Minervini, N. Abate, N. Masini, A. Loperte		
	1169	ON THE POTENTIALITY OF THE SENTINEL-1 FOR FIRE SEVERITY ASSESSMENT: THE EXPERIENCE OF FIRESAT PROJECT R. Lasaponara, N. Abate, A. Aromando, G. Lopert, G. Dibello		
	1183	UTILIZING REMOTE SENSING FOR EARLY DETECTION OF CRITICAL TRANSITIONS IN FOREST ECOSYSTEMS F. Eliades, D. Hadjimitsis, C. Danezis		
	1161	EXPLORING THE POTENTIAL OF SPACEBORNE LIDAR DATA FOR FOREST BIOMASS ESTIMATION IN A COMPLEX-STRUCTURED CONIFEROUS FOREST N. Georgopoulos, K. Antoniadis, D. Stavrakoudis, I. Gitas		
	1218	A GREEN - HOLISTIC IOT PLATFORM FOR FOREST MANAGEMENT AND MONITORING: THE REFORESTATION MODULE M. Prodomou, A. Constantinides, A. Pamboris, M. Tzouvaras, I. Iasonos, A. Hadjiantonis, A. Iacovides, P. Leng Cheng, D. Hadjimitsis		
8/4 14:30-16:00	Workshop (see separate agenda)		Chair: Betty Charalampopoulou	Room: APOLLON ROOM
	Workshop	Workshop and round table: Earth Observation and Geoinformatics for the protection of Cultural Heritage		
16:00-16:30	COFFEE BREAK - POSTER PRESENTATIONS			
8/4 16:30 - 18:00	AGRICULTURE		Chair: Georgios Kountios Chair support: Marinos Eliades	Room: ADONIS
	1163	THE ROLE OF ESG ADVISORY AS AN INNOVATIVE TOOL FOR SUSTAINABLE FINANCIAL DEVELOPMENT. THE EVIDENCE OF THE FOOD COMPANIES M. Tsiouni, G. Kountios, G. Papadavid, A. Kyriakidou		
	1164	THE FINANCIAL PERFORMANCE OF THE GREEK FOOD INDUSTRY BEFORE AND AFTER THE APPLICATION OF ESG CRITERIA. A. Kyriakidou, M. Tsiouni, G. Kountios, G. Papadavid		
	1170	INSIGHTS FROM CYPRUS, GREECE, AND NORTH MACEDONIA TOWARDS THE DECARBONIZATION OF THE AGRICULTURAL SECTOR: A QUADRUPLE HELIX PERSPECTIVE ON CARBON FARMING-DATA DERIVED FROM A SURVEY STUDY E. Neofytou, E. Loulli, C. Papoutsas, M. Tzouvaras, M. Eliades, I. Varvaris, P. Chantzi, G. Galanis, V. Ilieva, G. Zalidis, B. Mukanov, M. Christoforou, D. Hadjimitsis		
	1173	PRECISION VITICULTURE USING MULTIPLE SENSORS AND AERIAL ROBOTICS (VITISENSE) FOR BETTER FINANCIAL OUTCOMES AND DISEASE MANAGEMENT PRACTICES M. Tsiouni, M. Chatzidimopoulos, C. Lagoudas, A. Loridas, S. Baliktsis, G. Foudoulis		
	1209	IN SITU SOIL SPECTROSCOPY FOR ENVIRONMENTAL MONITORING: CASE STUDY IN WESTERN GREECE ORANGE ORCHARDS K. Karyotis, A. Zalidis, D. Xenitopoulou, E. Kalopesa		
	1182	UTILIZING EARTH OBSERVATION BASED SOIL SCALABLE DIGITAL TWINS FOR SUPPORTING "SOIL LIVING LABS" AND SOIL HEALTH AND CARBON MRV FOR "SOIL DISTRICTS" AS AN ECO-APPROACH FOR INFORMED DECISION-MAKING APPLYING THE NEW COHESIVE SOIL MONITORING LAW I. Varvaris, Z. Pittaki, C. Mettas, M. Christoforou, P. Chantzi, E. Evagorou, N. Tsakiridis, K. Karyotis, S. Neophytides, K. Themistocleous, G. Zalidis, D. Hadjimitsis		
8/4 16:30 - 18:00	MARITIME/COASTAL		Chair: Chris Danezis Chair support: George Melillos	Room: ZEUS
	1139	OIL SPILL DETECTION ON LANDSAT-8/9 IMAGES BASED ON DEEP LEARNING METHODS O. Schmidt, E. Schwarz		
	1155	ENHANCING MARITIME AWARENESS WITH MULTI-SENSOR SATELLITE REMOTE SENSING TECHNIQUES C. Kontopoulos, O. Kourouniotti, D. Krause, G. Voskopoulos		
	1174	SEAGRASS AND OTHER HABITAT TYPES MAPPING WITH REMOTE SENSING TECHNIQUES IN CYPRUS D. Makri, E. Kalogirou, M. Tzouvaras, D. Hadjimitsis, C. Mettas, E. Evagorou, G. Melillos		
	1208	WEB GIS TOOLS TO COMBINE STATION OBSERVATION AND NETCDF FORMAT DATA E. Zhuk		
	1207	WEB GIS TOOLS TO VISUALIZE SEA CURRENTS DATA E. Zhuk		
	1198	EVALUATION OF MARINE HABITAT DISTRIBUTION AND HUMAN IMPRINTS OFF AN INSULAR OPEN-PIT, GYALI ISLAND, SE AEGEAN SEA M. Tzafaridi, T. Petsimeris, T. Hasiotis		
8/4 16:30 - 18:00	Workshop (see separate agenda)		Chair: Despina Makri, George Nichola	Room: APOLLON ROOM
	Workshop	Match making event and Workshop in Cyprus organized by the Framework Partnership Agreement on Copernicus User Uptake (FPCUP) Part 1		
8/4 18:00 - 19:00	Expert Lecture (Closed Session)			
	Expert Lectures - ERATOSTHENES Centre of Excellence / Excelsior (Prof. Steffen Kuntz & Dr. Evdokimos Konstantinides) (Closed Session)			
8/4 20:30-24:00	Social Dinner Costa's Koloni Tavern			

Tuesday 9 April 2024

08:00-09:00		REGISTRATION	
9/4	9:00 - 9:30	Keynote Speakers (Aphrodite Stage Hall)	
		Dr. El Hadi & Dr. Evdokimos Konstantinides	
9/4	9:30 - 11:00	SAR	Chair: Athanasios Ganas Chair support: Chris Danezis, Marios Tzouvaras Room APOLLON
	1148	INSAR MAPPING OF GROUND DEFORMATION USING TIME-SERIES DATA: EXAMPLES FROM THE GULF OF CORINTH AND MILOS, GREECE A.Ganas, V. Tsironi, I. Katramitros, E. Efstathiou	
	1136	SENTINEL-1A ASSESSMENT RESULTS USING SAR CORNER REFLECTORS BY MEANS OF THE CYCLOPS STRATEGIC INFRASTRUCTURE IN CYPRUS D. Kakoullis, K. Fotiou, N. Ibarrola Subiza, R. Brcic, M. Eineder, C. Danezis	
	1137	ENHANCING GEOHAZARD MONITORING IN CYPRUS: FROM CYCLOPS TO CYCLOPS+ INFRASTRUCTURE DEVELOPMENT AND SERVICE EXPANSION C. Danezis, D. Kakoullis, K. Fotiou, M. Chatzinikos, C. Kotsakis, G. Ioannou, M. Tzouvaras, N. Ibarrola Subiza, R. Brcic, M. Eineder	
	1138	NEAR REAL-TIME OIL POLLUTION MONITORING USING SAR FOR THE SOUTHEASTERN MEDITERRANEAN SEA Y. Yang, C. Schnupfhagn, S. Jacobsen	
	1217	EXPLOITATION OF COPERNICUS SATELLITE DATA FOR MONITORING FISHING SHELTERS IN CYPRUS USING ADVANCED INSAR TECHNIQUES K. Fotiou, S. Alata, A. Apostolakis, M. Prodromou, M. Tzouvaras, C. Mettas, C. Danezis, C. Kontoes, D. Hadjimitsis	
9/4	9:30 - 11:00	CULTURAL HERITAGE	Chair: Kyriacos Themistocleous Chair support: Dante Abate Room: ZEUS
	1184	ENRICHMENT OF 3D CULTURAL HERITAGE DATA SETS WITH THEIR MEMORY M. Ioannides	
	1231	EARTH OBSERVATION AND GEOINFORMATICS FOR CULTURAL HERITAGE RESEARCH AND APPLICATIONS IN CYPRUS DURING THE LAST 17 YEARS: INTEGRATION OF IN-SITU, AIRBORNE AND SPACEBORNE DATA, AND THE UTILIZATION OF ARTIFICIAL INTELLIGENCE D. Hadjimitsis, K. Themistocleous, C. Mettas, M. Tzouvaras, E. Evagorou, D. Abate, C. Papoutsas, A. Nisantzi, R. Mamouri, M. Mavrouniotis, A. Christofe, M. Prodromou, E. Loulli, G. Leventis, S. Michaelides, A. Anayiotos, N. Kyriakides, R. Lasaponara, N. Masini, D. Cerra, T. Krauss, G. Schreier, F. Del Frate, B. Charalampopoulou, C. Danezis	
	1230	SEMI-AUTOMATIC IDENTIFICATION OF CULTURAL HERITAGE LOOTING ACTIVITIES THROUGH EARTH OBSERVATION D. Abate, M. Tzouvaras, D. Hadjimitsis	
	1227	SALINITY EFFECTS ON CULTURAL HERITAGE SITES: THE CASE STUDY OF THE TOMB OF THE KINGS IN PAPHOS, CYPRUS C. Dimitriou, D. Abate, K. Themistocleous, M. Eliades, D. Hadjimitsis	
	1213	STRATEGIC SENTINELS: INVESTIGATING THE ROLE AND DISTRIBUTION OF MEDIEVAL TOWERS IN CYPRUS THROUGH GEOSPATIAL ANALYSIS M. Doukanari, C. Mettas, D. Hadjimitsis	
	1204	UNDERSTANDING BYZANTINE PORTS OF CRETE THROUGH ARCHAEOLOGICAL AND GIS BASED APPROACHES K. Roussos	
9/4	9:30 - 11:00 11:30 - 13:00	Workshop (see separate agenda)	Chair: George Melillos, Egbert Schwarz, Gunter Schreier Room: ADONIS
	Workshop	Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR'.	
9/4	9:30 - 11:00 11:30 - 13:00 14:00 - 15:30	Workshop (see separate agenda)	Chair: Christiana Papoutsas, Ioannis Varvaris, Marinos Eliades Room: APHRODITE HALL
	Workshop	"ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project	
11:00-11:30		COFFEE BREAK - POSTER PRESENTATIONS	
9/4	11:30 - 13:00	ATMOSPHERE, IONOSPHERE, METEOROLOGY	Chair: Silas Michaelides Chair support: Rodanthi Elisavet Mamouri Room: ZEUS
	1177	AEROSOL CLASSIFICATION IN CYPRUS USING ACTIVE AND PASSIVE REMOTE SENSING TECHNIQUES A. Savva, A. Nisantzi, A. Ansmann, D. Hadjimitsis, R. Mamouri	
	1179	UNDERSTANDING THE FEBRUARY 14, 2024 TORNADO IN CYPRUS E. Loulli, S. Michaelides, J. Bühl, R. Mamouri, A. Nisantzi, D. Ene, F. Tymvios, D. Charalambous, D. Hadjimitsis	
	1151	EARTH OBSERVATION DATA INTEGRATION FOR THE EVALUATION OF MODEL OUTCOMES AND THE ENHANCEMENT OF EARLY WARNING SYSTEMS FOR HUMAN HEALTH. G. Nikolaidis, P. Mouzourides, M. Neophytou	
	1147	ENABLING IN-SITU AIR-QUALITY MONITORING USING MODULAR SENSING NODES FOR HARD-TO-REACH AREAS S. Chrysanthou, K. Erotokritou, A. Pappasavva, A. Karkotis, M. Sophocleous, L. Christofi	
	1157	PRELIMINARY ACTIVITIES FOR THE ESTABLISHMENT OF CYMETEO STRATEGIC METEOROLOGICAL INFRASTRUCTURE IN COLLABORATION WITH THE DEPARTMENT OF METEOROLOGY C. Oikonomou, H. Haralambous, F. Tymvios, D. Charalambous, M. Satriki, V. Kotroni, K. Lagouvardos, E. Loizou	
	1158	RATE OF TOTAL ELECTRON CONTENT INDEX (ROTI) CHARACTERISTICS OVER CYPRUS K. Sekhar, H. Haralambous, C. Oikonomou	
	1143	CYPRUS RADAR FOR IONOSPHERIC SPACE SITUATIONAL AWARENESS (CYRISSA) H. Haralambous	
	1146	COMPARISON BETWEEN RO AND DIGISONDE BOTTOMSIDE ELECTRON DENSITY OVER CYPRUS H. Haralambous, M. Moses	
	1202	AN ASSESSMENT OF SOLAR IRRADIANCE ENHANCEMENT EVENTS DURING CY-CARE CAMPAIGN AT LIMASSOL, CYPRUS K. Fragkos, I. Fountoulakis, G. Charalampous, K. Papachristopoulou, R. Mamouri, D. Ene, A. Nisantzi, A. Ansmann, P. Seifert, D. Hadjimitsis, S. Kazadzis	
9/4	11:30 - 13:00		Chair: Room APOLLON
Excelsior closed Session (starts at 11:00 am)			
13:00-14:00		LUNCH	

9/4	14:00-15:30	LAND USE, LAND COVER, URBAN	Chair: Maria Anastasiadou Chair support: Christiana Filippou	Room APOLLON
	1140	URBAN GREEN SPACE AND ALBEDO IMPACTS ON SURFACE TEMPERATURE IN BUCHAREST METROPOLITAN AREA M. Zoran, R. Radvan, D. Savastrou, M. Tautan, A. Penache		
	1141	TIME SERIES SATELLITE DATA FOR ASSESSMENT OF DROUGHT IMPACTS ON VEGETATION LAND COVER IN DRYLAND CONSTANTA COUNTY, ROMANIA D. Savastrou, M. Zoran, R. Radvan, M. Tautan, D. Tenciu		
	1152	ASSESSING LAND REDISTRIBUTION PLANS USING STOCHASTIC MULTI-CRITERIA ACCEPTABILITY ANALYSIS D. Demetriou		
	1168	MONITORING LANDSCAPE RESTORATION: FROM LAND USE CHANGE METHODOLOGIES TO COLLABORATIVE DIGITAL TWIN PLATFORMS IN THE CONTEXT OF LOCALLY-DRIVEN IMPLEMENTATIONS M. Gabriele, R. Brumana, N. Genzano		
	1228	ASSESSMENT OF HEAT ISLANDS IN THE SOUTHEAST AND NORTHEAST ECONOMIC REGIONS OF BULGARIA BY REMOTE SENSING T. Spasova, D. Avetisyan, I. Ivanova		
	1205	ASSESSING THE DYNAMICS OF LAND USE AND LAND COVER THROUGH MACHINE LEARNING TECHNIQUES IN THE TUNISIAN SEMI-ARID CONTEXT K. Khemiri, A. Chekirbane, C. Panagiotou		
	1200	LINKING URBANIZATION WITH AIR POLLUTION AND THERMAL ENVIRONMENT IN BUCHAREST CITY M. Zoran, R. Radvan, D. Savastrou, M. Tautan		
9/4	14:00-15:30	Water, Hydrology, Water Resources, Floods Abstract Session	Chair: Constantinos Panagiotou Chair support: Josefina Kountouri	Room: ZEUS
	1180	ASSESSING THE IMPACT OF KLIROU-MALOUNTA DAM (CYPRUS) ON DOWNSTREAM VEGETATION DYNAMICS: A REMOTE SENSING AND HYDROLOGICAL MODELING APPROACH E. Loulli, M. Gabriele, M. Eliades		
	1185	EVALUATING THE EFFECTIVENESS OF IMPROVED DIGITAL SOIL MAPS, GENERATED THROUGH A HYBRID CNN-RF APPROACH, FOR ESTIMATING SOIL LOSS DUE TO WATER EROSION N. Tziolas, N. Samarinas, I. Tsividis, G. Zalidis		
	1199	ASSESSING THE FEASIBILITY OF MAR IN CYPRUS THROUGH THE USE OF A PARTICIPATIVE MULTI-CRITERIA DECISION ANALYSIS C. Panagiotou, S. Eisenreich, T. Martins, O. Barouta, S. Neofytides, M. Stylianou, C. Stefan, A. Chekirbane, K. Khemiri		
9/4	14:00-15:30	Workshop (see separate agenda)	Chair: Chair support:	Room: ADONIS
	Workshop	Copernicus Uptake for the Maritime sector. Match making event and Workshop in Cyprus organized by the Framework Partnership Agreement on Copernicus User Uptake (FPCUP) Part 2: 9.30am to 13.00 Synergies with the Beyond the Horizon Workshop Part 3: 14.00-15.30 Presentations		
9/4	15:30-16:00	CLOSING CEREMONY AND AWARDS		

POSTER PRESENTATIONS

ID	Title
1197	MONITORING AND INVERSION OF THREE CO-SEISMIC EVENTS ON THE BALKAN PENINSULA. M. Atanasova-Zlatareva, H. Nikoloz, L. Dimova, R. Raykova
1149	MAPPING COASTAL EROSION USING UAVS, GNSS AND GIS. THE CASE OF RIO GREECE. A. Kyriou, K. Nikolakopoulos, I. Koukouvelas
1153	NEAR REAL TIME SEA TRAFFIC MONITORING USING LANDSAT-8/9 S. Voinov, T. Kaminski, D. Krause, E. Schwarz
1160	COMPARATIVE ANALYSIS OF WIND SPEED AND DIRECTION MEASUREMENTS FROM SENTINEL- 1 SAR AND SENTINEL - 3 SATELLITES E. Kalogirou, G. Melillos, C. Mettas, E. Evagorou, D. Hadjimitsis
1232	ASSESSMENT OF MOSSES IN ANTARCTICA AND BULGARIA BY REMOTE SENSING AND CHLOROPHYLL FLUORESCENCE T. Spasova, D. Avetisyan
1226	THE USE OF REMOTE SENSING AND GIS DATA FOR THE DETECTION OF SEA LEVEL CHANGE: A CASE STUDY OF CYPRUS N. Akçit, C. Kara
1225	INSAR AND GROUND TRUTH OBSERVATIONS FOR THE DETECTION AND MONITORING OF LANDSLIDES IN PEDOULAS VILLAGE, IN CYPRUS S. Alatzas, C. Loupasakis, A. Apostolakis, M. Tzouvaras, K. Themmistocleous, C. Kontoes, A. Tsouni, C. Danezis, D. Hadjimitsis
1220	EVALUATION OF AGRO-ECOLOGICAL PRACTICES IN NORTH AFRICA, EMPLOYING THE DAHBSIM MODEL WITH EARTH OBSERVATION DATA C. Kalaitzidis, D. Ouerfelli, J. Calabrese, G. Kleftodimos
1159	ANALYSIS OF AN EXTREME HYDROMETEOROLOGICAL EVENT IN ATHENS, GREECE ON SEPTEMBER 6, 2023, USING OTT PARSIVEL DISDRUMETER AND PLUVIOMETER DATA P. Nastos, E. Feloni, A. Chasiotis
1135	ANALYSIS OF THE IMPACT OF SPATIAL PLANNING ON AIR POLLUTANT TRENDS USING MODIS DATA E.M. Toader, A. Badea, C. Croitoru
1142	ONE-YEAR OBSERVATIONS OF HORIZONTAL WINDS IN LIMASSOL, CYPRUS USING A DOPPLER LIDAR D. Ene, R. Mamouri, A. Nisantzi, M. Poutli, M. Anastasiadou, K. Fragkos, C. Papoutsas, S. Michaelides, J. Bühl, P. Seifert, D. Hadjimitsis
1210	SMOKE OPTICAL PROPERTIES: LIDAR OBSERVATIONS IN CYPRUS DURING 2021-2023 M. Poutli, D. Hadjimitsis, A. Nisantzi, A. Ansmann, R. Mamouri
1172	HOW CAN REMOTE SENSING BE A MODERN SOLUTION FOR MONITORING XYLELLA FASTIDIOSA BACTERIUM THAT THREATENS OLIVE TREES: A REVIEW M. Hadjichristodoulou, C. Papoutsas, L. Kanetis, M. Stavriniades, M. Eliades, D. Hadjimitsis
1234	POTATO YIELD EMPOWERMENT BY PHOTOSYNTHESIS, CARBON ASSIMILATION AND EVAPOTRANSPIRATION E. Neofytou, S. Neofytides, I. Tsoumas, A. Tsalakou, M. Christoforou, M. Iliades, C. Papoutsas, C. Kontoes, D. Hadjimitsis
1175	UNMANNED AERIAL SYSTEMS FOR EARLY DETECTION OF DOWNY MILDEW IN TOBACCO FIELDS: ENHANCING FINANCIAL OUTCOMES THROUGH PRECISION MONITORING M. Chatzidimopoulos, M. Tsiouni, C. Lagoudas, A. Loidas, S. Baliktis, C. Vozikis
1192	A REVIEW: SOIL PROPERTIES MAPPING ESTIMATION USING REMOTE AND PROXIMAL SENSING DATA. D. Koumoulidis, A. Efthimiadou, N. Katsenios, D. Hadjimitsis
1235	CAPACITY BUILDING OF STAKEHOLDERS IN CARBON FARMING UNDER THE 'CARBONICA' Project: 'Carbon Initiative for Climate-resilient Agriculture' D. Hadjimitsis, M. Christoforou, S. Efstathiou, A. Tsalakou, A. Nisantzi, and M. Stavriniades
1176	MAPPING ECOSYSTEM SERVICES TRADE-OFFS AND SYNERGIES OVER PILOT NATURA 2000 SITES IN GREECE I. Chrysafis, K. Vatsis, I. Kokkoris, P. Dimopoulos, T. Roustanis, H. Georgiadis, E. Chalkidou P. Patias, G. Mallinis
1150	UAV, SATELLITE DATA AND GIS FOR REEF MONITORING IN PROKOPOS LAGOON K. Nikolakopoulos, A. Kyriou, A. Ntzoumani, S. Faulwetter, A. Ramfos, P. Avramidis
1145	DROUGHTS SEVERITY SCORE PREDICTION USING EXPLAINABLE MACHINE LEARNING METHODOLOGIES. S. Neofytides, M. Mavrouniotis, M. Eliades, D. Hadjimitsis, F. Bachofer
1171	A PRELIMINARY ASSESSMENT OF RESERVOIR SEDIMENTATION IN SELECTED DAMS OF CYPRUS N. Gourgouletis, E. Baltas
1181	ESTABLISHING MUNICIPAL HYDROMETEOROLOGICAL-HYDROMETRIC STATION NETWORKS: A GIS-ASSISTED MCDM DESIGN APPROACH E. Feloni, P. Nastos, A. Chasiotis
1229	ASSESSMENT OF SATELLITE-DERIVED RAINFALL DATASETS FOR FLOOD EVENTS SIMULATIONS, IN THE UPPER ALFEIOS RIVER BASIN, GREECE G. Savvas, A. Bournas, E. Baltas
1162	INTEGRATED APPLICATION OF GEOSPATIAL TECHNOLOGIES FOR DIGITAL TWINNING OF URBANIZED TERRITORIES FOR MICROSCALE URBAN PLANNING S. Petrov, S. Dimitrov, I. Ihtimanski
1165	UAS BASED REMOTE SENSING FOR RAPID LARGE-SCALE MAPPING OF URBANIZED TERRITORIES FOR SUSTAINABLE URBAN PLANNING: THE CASE OF STARA ZAGORA, BULGARIA I. Ihtimanski, S. Dimitrov, S. Petrov
1222	ADVANCING FOREST BIODIVERSITY CONSERVATION WITH THE EL-BIOS DIGITAL TWIN: AN INTEGRATION OF LIDAR AND MULTISPECTRAL EARTH OBSERVATION DATA I. Karolos, K. Bellos, V. Alexandritis, I. Chrysafis, H. Georgiadis, C. Pikridas, V. Tsioukas, P. Patias, G. Mallinis
1221	ENHANCING DISASTER RISK REDUCTION THROUGH ARTIFICIAL INTELLIGENCE: CAPITALIZING ON THE CAPACITY BUILDING ACTIVITIES OF THE AI-OBSERVER TWINNING PROJECT M. Tzouvaras, M. Mavrouniotis, R. Votsis, K. Fotiou, E. Kalogirou, T. Polydorou, G. Reis, F. Del Frate, L. Papale, G. Guerrisi, D. Hadjimitsis
1154	ESTIMATING YIELD WITH THE OBJECT DETECTION MODEL YOLOV5S S. Neofytides, G. Guerrisi, M. Mavrouniotis, M. Tzouvaras, F. Del Frate, D. Hadjimitsis
1195	THE STUDY OF THE URBAN HEAT ISLAND EFFECT IN CYPRUS USING GOOGLE EARTH ENGINE FOR 2013-2023 C. Soderiades, S. Neofytides, S. Michaelides, D. Hadjimitsis
1219	WATER PLANNING AND MANAGEMENT SCENARIOS IN AKROTIRI (CYPRUS) USING AQUATOOL DECISION SUPPORT SYSTEM S. Ghannem, G. Paschalidou, C. Panagiotou, R. Bergillos, M. Scytlianou, N. Lerma
1223	SHORELINE DETECTION RESULTING IN HISTORICAL BEACH SHAPES IN CHRYSOCHOY BAY CYPRUS D. Christofi, C. Mettas, E. Evagorou, N. Stylianou, T. Hasiotis, C. Danezis, D. Hadjimitsis

POSTER PRESENTATIONS