

Detailed program:

Monday, April 16, 2018	
Venue : The Chouaïb Doukkali University Headquarters, El Jadida	
9:00-17 :30	Council Meeting of the International Society for Digital Earth
Tuesday, April 17, 2018	
Venue : National School of Applied Science, The Chouaïb Doukkali University, El Jadida	
8 :00-9 :00	Registration
9 :00-10 :30	Opening Ceremony: Chair Prof. Yahia Boughaleb, President of The Chouaib Doukkali University Opening Remarks: <ul style="list-style-type: none"> - <i>The Ministers</i> - <i>President of Chouab Doukkali University</i> - <i>Prof. Guo Huadong, ISDE</i> - <i>Dean of the Faculty of Sciences</i>
10 :30 –11 :00	COFFEE BREAK
11 :00-12 :00	Plenary session 1: Chair Prof. Hui Lin from Chinese University of Hong Kong - Keynote Speech 1: DBAR for Sustainable Development in Africa Prof. GUO Huadong, Professor, Academician of the Chinese Academy of Sciences; President of the International Society for Digital Earth; Director of the International Center on Space Technologies for Natural and Cultural Heritage under the Auspices of UNESCO - Keynote Speech 2: Radio Science Investigations as an effective tool for monitoring Earth’s freshwater Dr. Kamal Ouadrhiri, Deputy Project Manager, NASA Jet Propulsion Laboratory
12 :00-13 :00	Panel discussion: Chair: Mario Hernandez Secretary General of ISDE Topics: “How can African nations benefit from Earth data to improve resource & decision management” Participant: Chinese Academy of Sciences, NASA, African Union, AARSE, CODATA, UNOOSA, GEO Secretariat.
13 :00-14 :30	LUNCH

Room : Main auditorium	
Technical parallel session 1.1 : Sub-Theme 1_A (<i>Digital Earth: best practices and applications_A</i>)	
Chair : Dr. Mattia Marconcini, DLR, Germany.	
14 :30-14 :45	Digital Earth and disappearing of the Art of Strategy. EUGENE EREMCHENKO, <i>NeoGeography Group/Lomonosov Moscow State University, Russia.</i>
14 :45-15 :00	Research on a Method of Geographical Information Service Load Balancing. HEYUAN LI, <i>Xi'an Research Institute of Surveying and Mapping. China.</i>
15 :00-15 :15	A Video-driven Approach to 3D Target Localization and Motion Simulation on Digital Earth Science Platform. HONGDENG JIAN, <i>Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China.</i>
15 :15-15 :30	The Digital Data Workflow at the British Geological Survey. STEVE THORPE, <i>British Geological Survey UK.</i>
15 :30-15 :45	Research on 3D Simulation of Typhoon Process based on Digital Earth JIAN LIU, <i>Key Laboratory of Digital Earth Science, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China</i>
15 :45-16 :00	Exploitation Platforms to Advance Sustainable Development: Advancing the use of Earth Observations in the AmeriChinese Academy of Sciences. IVAN DELOATCH, <i>Federal Geographic Data Committee, USA.</i>
16 :00-16 :30	COFFEE BREAK
Technical parallel session 2.1: Sub-Theme 1_B (<i>Digital Earth: best practices and applications_B</i>)	
Chair: Eugene Eremchenko Lomonosov Moscow State Univ, Russia.	
16 :30-16 :45	The Global Human Settlement Layer: serving the need for harmonised information on the human planet. DANIELE EHRLICH, <i>JRC,EU, Italy.</i>
16 :45-17 :00	The Fundamental Theorem of Earth's Surface Modelling and its applications. TIANXIANG YUE, <i>State Key Laboratory of Resources and Environment Information System, China.</i>
17 :00-17 :15	New Digital Services by Airbus. GHISLAIN.DE-LA-SAYETTE, <i>Airbus Defense and Space, France</i>
17 :15-17 :30	Automatic Recognition of Chinese Landforms Based on Slope Spectrum Method. XUE YANG, <i>Nanjing Normal University, China</i>
17 :30-17 :45	Data Curation of Scientific Investigation over the South China Sea. CHAO XU, <i>South China Sea Institute of Oceanology, CAS, China</i>
17 :45-18 :00	The Great Wall Deformation Monitoring Research and Application Based on TLS. LIWEI WANG, <i>Yanshan University, China.</i>

Room : Amphi A	
Technical parallel session 1.2 : Sub-Theme 2_A (<i>Earth Observation and Applications to Science and Policy_A</i>)	
Chair : Dr. Sven Schade Joint Research Center, EU.	
14 :30-14 :45	Earth observation technologies for well-informed decisions in transforming agriculture in West and Central Africa. LAURENT TITS, <i>VITO, Belgium.</i>
14 :45-15 :00	Drought monitoring over Southwest China with Combination of multi-sensor remote sensing data. FENGMEI YAO, <i>University of CAS, China.</i>
15 :00-15 :15	Assessment of climate effect and irrigation strategy on crop water productivity: Case study of Doukkala area, western Morocco SILVIA MARIA ALFIERI, <i>Delft University of Technology, The Netherlands.</i>
15 :15-15 :30	CST, a tool for forecasting crop yields from remote sensing indicators in developing countries. HERVE Kerdiles, <i>Food Security Unit, JRC, EU Commission, Italy.</i>
15 :30-15 :45	Estimation of evapotranspiration integrating precipitation, vertical root distribution with satellite-retrieved vegetation information for optimizing a Penman-Monteith approach in Mediterranean climate zone. YUN BAI, <i>Institute of Remote Sensing and Digital Earth, CHINESE ACADEMY OF SCIENCES. China.</i>
16 :00-16 :30	COFFEE BREAK
Technical parallel session 2.2: Sub-Theme 2_B (<i>Earth Observation and Applications to Science and Policy_B</i>)	
Chair: Prof ; Hiromichi Fukui Chubu University, Japan	
16 :30-16 :45	SIFT based Lunar landing camera sequence images registration. JIN YAN, <i>CAS-RADI, China</i>
16 :45-17 :00	Development of S-NPP and JPSS VIIRS Global Gridded Vegetation Products in Support of Global Sustainable Development. FENG ZHAO, <i>Department of Geographical Sciences, University of Maryland, College Park, MD USA.</i>
17 :00-17 :15	Analyzing global consensus on mapping human settlements and built-up areas from space. DANIELE EHRlich, <i>JRC, EU Italy.</i>
17 :15-17 :30	The impact of policy factors on land use types in karst landform and no-karst landform of the Lijiang River, China. QINGWEN JIN, <i>the CAS, China.</i>
17 :30-17 :45	Optimization of Sentinel 2 data for supporting geological mapping and monitoring of mining areas. MARIANTHI STEFOULI, <i>Institute Geology and Mineral Exploration, Greece.</i>
17 :45-18 :00	Monitoring and analyzing the Emirate of Sharjah's land use/land cover changes using multi-temporal Landsat images and support vector machine. SAMy ELMAHDY, <i>UAEU, United Arab Emirates.</i>

14 :00-16 :00	<p>Launching Ceremony of ICoE, EO-AWARE Salle des reunions Closed meeting</p>
Room : Amphi B	
16 :00-16 :30	COFFEE BREAK
Special Session: <i>Water Cycle and Water Resource Management: Earth Observation Perspectives across Africa, Asia and Europe 1.</i>	
Chair: Prof. dr. Li Jia	
16 :30-16 :45	<p>Vulnerability of water resources to build the Great Green Wall LOUIS ZOUNGRANA, <i>Observatoire du Sahara et du Sahel (OSS), Tunisia</i></p>
16 :45-17 :00	<p>Recent shrinkage of mountain water tower in the Central Asia. YANING CHEN, <i>State Key Laboratory of Desert and Oasis Ecology, Chinese Academy of Sciences (CAS), China.</i></p>
17 :00-17 :15	<p>The ESA Hydrology Thematic Exploitation Platform (H – TEP): Pilot Projects and Early Adopters BERNAT MARTINEZ, <i>isardSAT, Spain</i></p>
17 :15-17 :30	<p>An Overview of The Soil Moisture Active Passive (SMAP) Satellite Mission and Citizen Science Efforts ERIKA PODEST, <i>NASA, USA</i></p>
17 :30-17 :45	<p>Land-atmosphere energy transfer in the Third Pole region YAOMING MA, <i>Institute for Tibetan Plateau Research (ITP), Chinese Academy of Sciences (CAS), China</i></p>
17 :45-18 :00	<p>The MOSES irrigation management support platform: EO information services and implementation in four pilot projects GABRIELLA SCARPINO, <i>Serco, Belgium</i></p>

Wednesday, April 18, 2018	
Venue : National School of Applied Science, The Chouaïb Doukkali University, El Jadida	
9 :30-11 :00	<p>Plenary session 2 : Chair : Zaffar Sadiq Mohamed-Ghouse CRCSI, Australia.</p> <p>- Keynote Speech 3 : Enabling Digital Earth in Africa for Sustainable Development: AARSE Perspective Prof Olajide Kufoniyi, Professor, Obafemi Awolowo University; President of the the African Association of Remote Sensing of the Environment.</p> <p>- Keynote Speech 4 : FAIR data and the vision of Digital Earth for global challenges Dr. Simon Hodson, Executive Director of CODATA</p> <p>- Keynote Speech 5 : GRSS capacity building for Africa Prof. Paolo Gamba, Professor, Head the Telecommunications and Remote Sensing Laboratory, University of Pavia, Italy</p>
11 :00-11 :30	COFFEE BREAK

Room : Main auditorium	
Technical parallel session 3.1: Sub-Theme 1_C (<i>Digital Earth: best practices and applications_C</i>)	
Chair: Changlin Wang, Institute of Remote Sensing and Digital Earth, CAS	
11 :30-11 :45	A Remote-sensing based Flood Crop Loss Agro-geoinformatic System for Supporting Disaster Mitigation and Crop Insurance Decision Making. LIPING DI, <i>George Mason University, USA</i>
11 :45-12 :00	Combine Sentinel-2 and Sentinel-1 data to estimate agricultural areas by speculation: Chinese Academy of Sciences of millet, maize & groundnut GAYANE FAYE, <i>Laboratoire de Télédétection Appliquée, Institut des Sciences de la Terre, Cheikh Anta DIOP University of Dakar, Senegal.</i>
12 :00-12 :15	An automated approach for updating land cover maps based on downscaled NDVI time series data. YUNFENG HU, <i>Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, China</i>
12 :15-12 :30	Toward evaluation and improvement of an ecosystem productivity simulation model in estimating gross primary productivity across Europe. SHA ZHANG, <i>Institute of Remote Sensing and Digital Earth, CHINESE ACADEMY OF SCIENCES. China.</i>
12 :30-12 :45	Comparison of Sentinel-2 with Landsat-8 and GF1 sensors for retrieval of Photosynthetic and Non-Photosynthetic Vegetation coverage in the arid region. XIAOSONG LI, <i>RADI, CAS, China.</i>
13 :00-14 :30	LUNCH
Technical parallel session 4.1: Sub-Theme 1_D (<i>Digital Earth: best practices and applications_D</i>)	
Chair: THOMAS BLASCHKE, <i>University of Salzburg, Austria.</i>	
14 :30-14 :45	Modelling the competitiveness of the seaports along the Maritime Silk Road with big geo-related data mining. FENG LU, <i>IGSNRR, Chinese Academy of Sciences, China.</i>
14 :45-15 :00	Land use and flood vulnerability mapping in a typical urban centre in southwestern Nigeria. OLUWAGBENGA ORIMOOGUNJE, <i>Obafemi Awolowo University, Ile-Ife, Nigeria, Nigeria.</i>
15 :00-15 :15	Advanced DInSAR for mapping deformation of Al Hoceima (Morocco) due to a series of earthquakes between 27 May 2015 and 27 April 2016 using Sentinel-1A IW DESIRE MUHIRE, <i>University of Chouab Doukkali, Morocco.</i>
15 :15-15 :30	The Construction and Application of Digital Earth +. MIN ZHAO, <i>Chinese Academy of Sciences, China.</i>
15 :30-15 :45	Analysis of urban morphology by remote sensing and fractal geometry: application to the agglomeration of Laghouat (Algeria). FATIHA BENKOUIDER, <i>University Amar Telidji of Laghouat, Algeria.</i>
15 :45-16 :00	Developing a detect dust storm approach with combining Support Vector Machine and satellite data in typical dust regions of Asia. JIAHUA ZHANG, <i>RADI, CAS, China.</i>
16 :00-16 :30	COFFEE BREAK

Technical parallel session 5.1: POSTER SESSION	
Chair: Jie LIU, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	
16 :30- 18 :00	<ul style="list-style-type: none"> • Enhancement of the Penman-Monteith equation: monitoring evapotranspiration of wheat crop based on a relationship between the surface resistance and remotely sensed stress index , <i>Abdelhakim AMAZIRH, University of Caddi Ayyd , Morocco</i> • Use of satellite images and digital terrain models (DEM) SRTM for the geological mapping and structural lineaments: Application in inlier of Ifni (Anti-Atlas, Morocco), <i>Abdelmejjid RAHIMI, UCD, Morocco.</i> • Soil salinity detection using salinity indices and Sentinel-2 image in an arid area: A case study of Ktaoua oasis (Middle Draa Valley, Southeast of Morocco), <i>Atman AIT LAMQADEM, Chouaib Doukkali University, Morocco</i> • Practices of Ocean Information Resource Sharing at SCSIO, <i>Chao XU South China Sea Institute of Oceanology, CAS China.</i> • Testing the suitability of resampled multispectral WorldView-2 and Sentinel-2 data for mapping melliferous plants, <i>Elfatih Mohamed ABDEL-RAHMAN International Centre for Insect Physiology and Ecology (icipe) Kenya</i> • Research on Digital Reconstruction of Ancient Geomorphology Based on Archaeological Excavation Data, <i>Geng TONG RADI, CAS China.</i> • Forecasting cereal yields using NDVI and rainfall in Algeria, <i>Herve Kerdiles Food Security Unit, JRC, EU Commission, Italy.</i> • GeoDryland: an international collaborative research initiative for understanding the dynamics and changes of global drylands to support UN SDGs, <i>LipingDI George Mason University, USA.</i> • Application of geostatistical methods for the spatial distribution of soils in the irrigated plain of Doukkala, Morocco. <i>Said ELJEBRI, UCD, Morocco.</i> • Fusion of different remote sensing techniques to study spatial and temporal distribution of the marula tree. <i>Thendo MUGWENA, University of Johannesburg, South Africa.</i> • The Main Content of the Smart City Construction and the Path of Henan Province. <i>Yan WEI, Institute of Geographical Sciences, Henan Academy of Sciences, China.</i> • Lunar Observatory's Zenith Angle Characteristics for Earth Observation, <i>Yuanzhen REN, CAS-RADI, China.</i> • The MOSES Demonstration Areas in Morocco, Italy, Spain and Romania: first results, <i>GABRIELLA SCARPINO, Serco, Belgium</i> • Vegetation-rainfall response regime shift over northern Sub-Saharan zone and its implication on land-use and cover change, <i>JIE ZHOU, Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS), China.</i> • Evapotranspiration variation in the Sahel and its forcing analysis, <i>CHAOLEI ZHENG, Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS), China.</i> • MOSES a European H2020 Innovation Project including Africa, <i>GABRIELLA SCARPINO Serco S.p.A (UK & Europe), Italy.</i>

Room : Amphi A	
Technical parallel session 3.2: Sub-Theme 3_C (<i>Earth Observation and Applications to Science and Policy_C</i>)	
Chair: Yong Xue, University of Derby, UK	
11 :30-11 :45	Digital Earth in support of the UN Sustainable Development Goals. MARIO HERNANDEZ, <i>ISDE, Mexico.</i>
11 :45-12 :00	Geoportal systems as support for Digital Earth and big Earth data: a literature review. HAO JIANG, <i>ISDE, China.</i>
12 :00-12 :15	Earth Outgoing Radiation Estimation from Angular Distribution Models using DSCOVER data. JING HUANG, <i>China University of Geosciences, China.</i>
12 :15-12 :30	Indicators generation for Sustainable Development Goals: the ECOPOTENTIAL Virtual Laboratory Platform. PAOLO MAZZETTI, <i>CNR, Italy.</i>
12 :30-12 :45	Remote Sensing Sensor Networks for Climate Change and Disasters Monitoring. RONGXING LI, <i>Tongji University, China</i>
12 :45-13 :00	Building the digital earth: Lessons learnt from GEOSS. STEFANO.NATIVI, <i>NRC, Italy</i>
13 :00-14 :30	LUNCH
Technical parallel session 4.2: Sub-Theme 2_D (<i>Earth Observation and Applications to Science and Policy_D</i>)	
Chair: RONGXING LI, <i>Tongji University, China</i>	
14 :30-14 :45	A Geospatial insight to key issues related to the eco-environment in South Asia. WEI ZHAO, <i>Institute of Mountain Hazards and Environment, CAS, China</i>
14 :45-15 :00	Identification of Renewable Energy Corridor in Pakistan by using geospatial techniques. SHAHINA TARIQ, <i>COMSATS Institute of Information Technology, Pakistan.</i>
15 :00-15 :15	30-meter cropland extent monitoring for Africa using multiple earth observation datasets. YIDI Xu, <i>Tsinghua University, China.</i>
15 :15-15 :30	Comparison of support vector machines and random forest algorithms for landscape monitoring: Case study of Vhembe biosphere reserve. TANRE JAURO, <i>University of Johannesburg, South Africa.</i>
16 :00-16 :30	COFFEE BREAK

Technical parallel session 5.2: Sub-Theme 2_F (Earth Observation and Applications to Science and Policy_E) & Sub-Theme 5 and Sub-Theme 6 (Zero Hunger with digital earth technology, Geo-ethics, Education, Next generation with DE)	
Chair: Stefano Nativi, Joint Research Centre, EU	
16 :30-16 :45	Earth Observation of Wetscape Dynamics: Linking Climate Change Effects to Urban Transformation Studies WEI JI, <i>University of Missouri - Kansas City, USA</i>
16 :45-17 :00	Detecting fire disturbance and monitoring post-fire vegetation recovery in Greater Khingan Mountains using LTDR dataset. XIAOYI GUO, <i>Northeast Normal University, China.</i>
17 :00-17 :15	A Breakthrough in Monitoring Human Habitats from Space. MATTIA MARCONCINI, <i>German Aerospace Center – DLR Germany.</i>
17 :15-17 :30	Spatial thinking, awareness and use of maps: an exploratory study of tertiary institution students in Africa-Nigeria. RAIMI ASIYANBOLA, <i>Osun State University Nigeria.</i>
17 :30-17 :45	Employing Imaging Spectroscopy for an Ethiopian Lodging Crop to Predict Plant Health: A Case Study of Eragrostis teff. K. COLTON FLYNN, <i>Oklahoma State University, USA.</i>
17 :45-18 :00	Spatial characterization of project displaced communities for geographical targeting of interventions to displaced communities. JOHN OYEDEPO, <i>Federal University of Agriculture, Abeokuta, Nigeria.</i>

Room : Amphi B	
Technical parallel session 3.3: Water Cycle and Water Resource Management: Earth Observation Perspectives across Africa, Asia and Europe 2	
Chair: Prof. Kamal Labbassi	
11 :30-11 :45	WCOM: a new Chinese satellite mission for studies of the global water cycle. JIANCHENG SHI, <i>Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS), China.</i>
11 :45-12 :00	Smart Irrigation from soil moisture forecast using satellite data and hydro – meteorological MARCO MANCINI, <i>Politecnico di Milano (POLIMI), Italy</i>
12 :00-12 :15	Inter-annual variability of actual evapotranspiration by remote sensing in irrigated land: Doukkala area, western Morocco. FATIMA-EZZAHRA EL GHANDOUR, <i>Chouaib Doukkali University, Morocco</i>
12 :15-12 :30	Karez Water Resources Management and Digital Earth Data: Case Study Pakistan, South Asia SHAHINA TARIQ, <i>COMSATS Institute of Information Technology, Pakistan</i>
12 :30-12 :45	Earth Observation for Water Resources and Water Use in Asia and Africa LI JIA, <i>Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS), China.</i>
12 :45-13 :00	Adaptation of Irrigation Management Systems to Climate Variability: Feasibility vs. Willingness MASSIMO MENENTI, <i>Delft University of Technology, The Netherlands and RADI, Chinese Academy of Sciences, China.</i>
13 :00-14 :30	LUNCH
Technical parallel session 4.3: Sub-Theme 4 A (Digital Earth and Citizen Well-Being_A)	
Chair: Min Chen Nanjing Normal University, China	
14 :30-14 :45	Big Earth Data: new applications for well-being and livability. THOMAS BLASCHKE, <i>University of Salzburg, Austria.</i>
14 :45-15 :00	Creating Digital Earth Node (DEN) rooms for immersive collaborative experiences. CHERYL DESHA, <i>Griffith University, Australia</i>
15 :00-15 :15	Remote Sensing Monitoring of Vector-borne Parasitic Disease. ZHAOYAN LIU, <i>Academy of Opto-electronics, AS, China.</i>
15 :15-15 :30	Spatial Aspects of Livelihood support programs: The need for Spatial Decision Support System for poverty eradication. JOHN OYEDEPO, <i>Federal University of Agriculture, Abeokuta, Nigeria</i>
15 :30-15 :45	Dust detection and dust intensity estimation using Himawari-8/AHI observation. YONG XUE, <i>University of Derby UK.</i>
15 :45-16 :00	Geospatial Management of Urban Marginal Lands for Disaster Risk Reduction in Nigeria's Confluence Town. JAIYE DUKIYA, <i>Federal University of Technology, Minna, Nigeria.</i>
16 :00-16 :30	COFFEE BREAK

Special Session: Dynamic monitoring of regional resource and environment by high resolution remote sensing	
Chair: Prof. ZHANG Bing	
16 :30-16 :45	A SPECLib-based operational classification approach for large-scale land cover mapping at 30m. LIANGYUN LIU, <i>Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences, China</i>
16 :45-17 :00	Monitoring water level changes in the global large lakes using multi-source radar altimeter data. JINGJUAN LIAO, <i>Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China</i>
17 :00-17 :15	An operational land surface reflectance product generation system for multi-source remote sensing data with medium-high spatial resolution. HAO ZHANG, <i>RADI, CAS, China.</i>
17 :15-17 :30	Scaling effects on spring phenology detections at multiple spatial resolutions DAILIANG PENG, <i>RADI, CAS, China</i>
17 :30-17 :45	A method to estimate high-resolution vegetation productivity from data fusion model. TAO YU, <i>Beijing Normal University, China</i>
17 :45-18 :00	Spatially simulation of solar-induced chlorophyll fluorescence using an extended BEPS model. TIANXIANG CUI, <i>Beijing Normal University, China.</i>

Thursday, April 19, 2018	
Venue : National School of Applied Science, The Chouaïb Doukkali University, El Jadida	
9 :30-11 :00	<p>Plenary session 3 : Chair : Prof. Massimo Menenti, TU delft.</p> <p>- Keynote Speech 6 : <i>Global Monitoring for Environment and Security, and Africa (GMES & Africa): The First Pan African Earth Observation Programme for the Sustainable Development of Africa.</i> Dr. Tidiane Ouattara, Space Expert and GMES & Africa Coordinator, AUC.</p> <p>- Keynote Speech 7 : <i>The Secure World Foundation's handbook for new actors in space: Best practices, capacity transfer, and challenges to integrating new actors.</i> Ms. Krystal Wilson, Director for Space Applications Programs.</p> <p>- Keynote Speech 8 : <i>Geo-computation for Social Science - Experiences in Wuhan University</i> Prof. Dr. LI Deren, Chair of the Academic Committee of Wuhan University</p>
11 :00-11 :30	Coffee break
11 :30-12 :30	Closing ceremony

Friday, April 20th, 2018	
computer room	
9 :00-13 :00	<p style="text-align: center;">Side Event Workshop:</p> <p style="text-align: center;"><i>Introduction to SMAP: An Overview of the SMAP Mission and Data Access and Analysis</i></p> <p style="text-align: center;"><u>Conveners:</u> Dr. Erika Podest, JPL-NASA, USA.</p>