

United Nations/Islamic Republic of Iran Workshop on the Space Technology Applications for Drought, Flood and Water Resources Management

09 August 2021				
Time (Local time in Tehran)	Activity	Moderator/Speaker		
11:00-11:20	Opening Remarks	Simonetta Di Pippo, Director, UNOOSA		
		H.E. Dr. Kazem Gharibabadi, Ambassador and Permanent Representative of I.R.Iran to UN and other International Organizations in Vienna <u>k.Gharibabadi@mfa.gov.ir</u>		
11:20-11:30	Key note speech	Dr.Morteza Barari, Head of Iranian Space		
11:30-11:40		Agency, ICT <u>Barari@isa.ir</u> Ms.Fatemeh Fereydooni,Center for International		
		Relations & Cooperations,ISA fereidooni@isa.ir		
11:40-12:00	Key note speech- Setting the context	Dr. Shirish Ravan, UNOOSA		
12:00-13:00	Session 1 National, regional and international initiatives for Flood and Drought Monitoring	Moderator: Shirish Ravan, UNOOSA		
12:00-12:15	1. GAR Special Report on Drought	Adam Fysh, United Nations Office for Disaster Risk Reduction (UNDRR)		
12:15-12:30	2. <u>Managing water variability, from floods to droughts</u>	Dr. Giriraj Amarnath, International Water Management Institute and Coordinator of the UN-SPIDER Regional Support Office		
12:30-13:00	Discussion			
13:00-14:00	Break			
14:00–16:00	Session 2 Space technology for ecosystem health, drought and flood monitoring, early warning, preparedness and response	Moderator: Prof. Mohammadreza Mobasheri, I.R.Iran		
14:00-14:15	3. Drought monitoring in Iran using remote sensing data	Dr.Saeid Hamzeh, Assiciate Professor of Remote Sensing and GIS, Faculty of Geography, University of Tehran <u>Saeid.hamzeh@ut.ac.ir</u>		



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Ministry of I.C.T IRANIAN SPACE AGENCY





14:00-16:00	Session 4 Earth Observation and environmental modelling for flood and water resources management in the context of global climate change	Moderator: Dr. Talbot Brooks, Coordinator of the UN- SPIDER Regional Support Office
13:00-14:00	Break	1
12:45-13:00	Discussion	
12:15-12:30	13. <u>Space technology applications for drought, flood, water resources</u> management and early warning systems in Syria	Marwan Koudmani, Remote Sensing and Space Sciences Office (RSSSO)
12:00-12:15	12. Sand and dust storm risk assessment over West Asia	Dr. (Ms) Saviz Sehat, Atmospheric Science and Meteorological Research Center (ASMERC) savizsehat@yahoo.com
11:45-12:00	Discussion	
11:30-11:45	11. Geospatial-based information for agricultural drought monitoring in the sandy soil of the Eastern Netherlands	Dr. Ali Abkar, Managing Director AgriWatch BV, Enschede, the Netherlands ali.abkar@agriwatch.nl
11:15-11:30	10. Contributing to a broader understanding of climate-related disaster risk through information management, the case of sand and dust storms in Asia and the Pacific	Mr Amin Shamseddini <u>rossano@un.org</u> mostafa.mohaghegh@un.org
11:00-11:15	 Geoinformatics for Sand and Dust Storm Studie - A vulnerability mapping and risk analysis procedure. 	Dr. Ali Darvishi Boloorani, Department of Remote Sensing and GIS, Faculty of Geography University of Tehran <u>ali.darvishi@ut.ac.ir</u>
11:00-13:00	Session 3 Vulnerability mapping and risk analysis of sand & dust storm	Moderator: Ms. Letizia Rossano, APDIM, UNESCAP
	10 August 2021	·
15:45-16:00	observation with weather forecasting. Discussion	
15:30-15:45	8. <u>The Afghanistan Drought Early Warning Decision Support Tool (AF-DEWS): an online platform combining satellite-based earth</u>	Efrem Ferrari, World Bank Group
	7. <u>Heat island detection on 4meters Spatial resolution.</u>	university of technology, Tehran <u>Mobasheri@kntu.ac.ir</u>
15:15-15:30		Consultants India Limited <u>nishakant02@gmail.com</u> Prof. Mohammadreza Mobasheri, KNToosi
15:00-15:15	6. Space technologies for early warning, preparedness and response	Prof. Nishakant Ojha, Broadcast Engineering
14:45-15:00	Discussion	tasumi@cc.miyazaki-u.ac.jp
		University of Miyazaki
14:30-14:45	5. <u>Application of Satellite Remote Sensing to Regional Agriculture and</u> Water Resource Management	Prof. Masahiro Tasumi, P.E.Jp., Agricultural Engineer
14:15-14:30	4. <u>Utilizing TVDI and NDWI to classify severity of agricultural drought</u> <u>in Chuping, Malaysia</u>	Veena Shashikant <i>et al</i> , Universiti Putra Malaysia



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14:00-14:15	14. <u>Data availability vs data demand - The challenges of space-based</u> monitoring to support national disaster risk management	Ms Valerie Graw, Institute of Geography, Ruhr University Bochum
14:15-14:45	 15. a) <u>Application of Chinese satellite in drought and flood disaster and</u> b) <u>The application of multi-model risk assessment in natural</u> disaster risk trend analysis 	a) Liu Ming b) Ms Liao Hanqi National Disaste Reduction Centre of China
14:45-15:00	16. Satellite constellation for water cycle and global change studies	Jiancheng Shi, Senior research scientist shijiancheng@nssc.ac.cn
15:00-15:15	17. <u>Deepwater rice field detection: Re-evaluating the 2011 flood in</u> Thailand	Jainta Chomtoranin <i>et al</i> , Department of Economics, University of Birmingham
15:15-15:30	18. Use of thermal remote sensing to improve irrigation system efficiency	Dr.Talbot Brooks, Delta State University and Coordinator of the UN-SPIDER Regional Support Office
15:30-15:45	19. <u>Multi-criteria modelling of drought: a study of Brandenburg Federal</u> <u>State, Germany</u>	Taiwo Ogunwumi, United Nation University, Institute of Environmental Risk and Human Security
15:45-16:00	Discussion	
	11 August 2021	
11:00 - 13:00	Session 5 Geoinformatics applications in water resources management; challenges and opportunities	Moderator: David Stevens, Resilient Expert (Former UN Staff)
11:00-11:15	20. <u>Use of Space-based Information to Support Global Frameworks</u> – Aiming at risk-centred climate sensitive development	David Stevens, Resilient Expert (Formerly with UNOOSA and UNDRR)
11:15-11:30	21. Sentinel 1 time series for flood mapping; case study: north of Iran	Dr. Ms.Sara Attarchi, Department of Remote Sensing and GIS, Faculty of Geography, UT satarchi@ut.ac.ir
11:30-11:45	22. Improving the Water Sector through Space Technology for Water	Funmilola A. Oluwafemi, National Space
11.50-11.45	Resource Management	Research and Development Agency (NASRDA Nigeria.
		Research and Development Agency (NASRDA Nigeria. Hamed Sabzchi Dehkharghani, University of Tabriz, Faculty of agriculture, Department of water engineering, Email:
11:45-12:00 12:00-12:15	Resource Management 23. Recognition of Different Yield Potentials among Rain-fed Wheat	Research and Development Agency (NASRDA Nigeria. Hamed Sabzchi Dehkharghani, University of Tabriz, Faculty of agriculture, Department of

 I2:45-13:00
 Discussion

 13:00-14:00
 Break



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14:00-16:00	Session 6 Advocacy Session: Institutional strengthening and preparedness for improving disaster management risk assessment (Strategies to raise cooperation among public and private stakeholders of disasters management in an international, national and regional scale)	Moderator: Dr.Ali Darvishi Boloorani, I.R.Iran
14:00-14:15	26. <u>Disaster Management in Iran. A review on policies, strategies and plans</u>	Dr.Abbas Ostadtaghizadeh, Assistant Professor and Head, Department of Health in Disasters and Emergencies, School of Public Health,UT ostadtaghizadeh@gmail.com
14:15-14:30	27. <u>Special Reporting Committee on Iran Floods 2019</u>	Dr. Arash Malekian, International Coordinator of Special Reporting Committee on Iran Floods 2019, University of Tehran, Iran <u>malekian@ut.ac.ir</u>
14:30-14:45	28. <u>Affordable Space Solution for Water Related Disaster Management</u>	Sajjad Ghazanfarina, founder of fazadotir(startup on space education & outreach) <u>founder@faza.ir</u>
14:45-15:00	29. <u>Smart Water Management Tools Based on Integrated flood and</u> <u>Drought management</u>	Mehdi Rahnama
15:30-16:00	Closing Remark	Fatemeh Fereydooni, ISA Shirish Ravan, UNOOSA