Training Workshop on

"Role of Earth observation in Multi-hazard disaster risk assessment and monitoring targets of the Sendai Framework"

4-8 December 2019

Day 1: December 4, 2019

Time	Program	Lead
09:30 - 10:00	Registration	SDMC (IU)
10:00 - 10:30	Inauguration & Group Photo	
10:30 - 11:00	Tea/ Coffee	
11:00 - 12:30	Refreshing the DRR terminologies, Sendai Framework and Earth observation	Dr. Shirish Ravan, UNOOSA
12:30 - 13:30	Lunch Break	
13:30 - 15:00	Practicing satellite image processing and GIS skills and getting familiarity with data, software, open source satellite images etc.	Mr. Moses Duguru, UNOOSA
<i>15:00 - 15</i> :15	Tea/ Coffee	
15:15 - 16:30	ISRO Disaster Management System and International Charter Space and Major Disasters	G. Srinivasa Rao, ISRO

Free evening

Dinner: 19.30 onwards

Day 2: December 5, 2019

Time	Program	Lead
09:30-09:45	Reflections of previous day	Dr. Shirish Ravan
09:45-10:45	An overview of basic concepts and potential of satellite remote sensing (optical and microwave imaging) & GIS for flood hazards mapping, monitoring and early warning.	Dr. C M Bhatt
10:45 - 11:00	Tea/ Coffee	
11:00 - 12:30	Hands-on session to open source data, tools/processing software's, web portals and online data repositories for multi-hazards assessment.	Dr. C M Bhatt
12:30 – 13:30	Lunch Break	
13:30 - 14.45	Hands-on session Cont.	Dr. C M Bhatt
<i>14:45 – 15</i> :00	Tea/ Coffee	
15:00 - 16:00	Basics of remote sensing, types of satellite images available for multi-hazard risk assessment – open source images, ways to access etc.	Dr. Giriraj Amarnath IWMI

16:15 – 19:00 Visit to Dandi Kutir, Gandhinagar

Dinner: 19:30 onwards

Day 3: December 6, 2019

Time	Program	Lead
09:30-09:45	Reflections of previous day	Dr. C M Bhatt
09:45-10:45	Opportunities for enhancing knowledge on application of RS&GIS for natural hazards assessment offered through CSTEAP/IIRS	Dr. C M Bhatt
10:45 - 11:00	Tea/ Coffee	
11:00 - 12:30	Creating spatial data repository for monitoring targets of the Sendai Framework	Mr Moses Duguru UNOOSA
12:30 - 13:30	Lunch Break	
13:30 - 15:00	Flood risk assessment using remote sensing data and modeling tools	Dr. Giriraj Amarnath Mr. Niranga Alahacoon IWMI
<i>15:00 – 15</i> :15	Tea/ Coffee	
15:15 – 16:30	Drought monitoring and risks assessment using remote sensing data and socio-economic data	Dr. Giriraj Amarnath Mr. Niranga Alahacoon IWMI

17:15 – 19:30 Movie Screening (GIDM Auditorium)

Dinner: 19:30 onwards

Day 4: December 7, 2019

Time	Program	Lead
09:00 - 09:15	Review/reflection of Day-III	Dr. Giriraj
09:15 - 10:30	Disaster risk transfer through flood index insurance and bundling insurance solutions using earth observation data and modeling tools	Dr. Giriraj Amarnath IWMI
	Hands-on session on the disaster risk transfer tools and approaches	
10:30 - 10:45	Tea/ Coffee	
10:45 - 12:00	Space Technologies for Disaster Risk Management Applications	Dr Nilesh Desai Associate Director SAC, ISRO
12:00 – 13:00	Lunch Break	
13:00 - 14:00	Hands-on session on the disaster risk transfer tools and approaches	Dr. Giriraj Amarnath Dr. Surajit Ghosh
14:00 - 15:00	Open discussion session Working on the rapid response mapping products	Moderator Dr. Shirish Ravan
<i>15</i> :00 – <i>15</i> :15	Tea/ Coffee	
15:15 - 15:45	Wrap-up & Closing	SDMC (IU)

16:00 - 19:30 Shopping (Ahmedabad)

Dinner: 20.00 onwards

SAARC Charter Day

Regional workshop on

Use of Space Technologies in Disaster Risk Reduction (DRR)

December 8, 2019

06:45 - 11:30 Ahmedabad City (World Heritage City) Heritage Walk

12:00 - 13:00 Lunch

Time	Program	
13:00 - 13:15	Opening session Introduction of the participants	
13:15 - 13:45	Launch of Report: Insurance as an Agricultural Disaster Risk Management Tool: Evidence and Lessons Learned from South Asia Presentation by Dr Giriraj, IWMI	
13:45 - 14:15	Key findings of South Asia & Pacific Report: Specific to SAARC Region Presentation by Dr. Sanjay Srivastava, UNESCAP (via Skype)	
14:15 – 14:45	Group photo and Coffee Break	
14:45 – 16:15	Panel Discussion Contribution of Earth Observation Information and Sendai Framework for Disaster Risk Reduction: Opportunities, cooperation and challenges Panelists: 1. Mr. P.K. Taneja, Director, SDMC (IU) - Moderator 2. Dr. Shirish Ravan, UNOOSA/UN-SPIDER 3. Dr. Giriraj, IWMI 4. Mr Moses Duguru, UNOOSA	
16:15 – 16:30	5. Mr. Niranga Alahacoon, IWMI Wrap-up	
16:30 – 17:00	Tea/ Coffee	

Dinner: 19:30 onwards