

**International Virtual Conference** 

on

# Earth's Changing Climate: Past, Present & Future 15-17 October 2020

# PROGRAM

Organized by **The Society of Earth Scientists** 

Co-organized by Birbal Sahni Institute of Palaeosciences, Lucknow Indian Institute of Tropical Meteorology, Pune National Centre for Polar and Ocean Research, Goa National Institute of Disaster Management, Delhi National Institute of Advanced Studies, Bengaluru

### Date: 15.10.2020

**Session: I** Time: 09:45 AM-12:50 PM

**Theme:** Palaeoclimate events/variations in Earth's geological history and associated disasters; Quaternary climatic changes and climate cycles (land and ocean records); Anthropogenic interferences

Coordinator: Dr. Anju Saxena, BSIP, Lucknow

	-		
10:00-10:10	1	Floristic changes during the Permian Period and its palaeoclimatic implications	Deepa Agnihotri
10:10-10:20	2	Cenogram techniques: Historical review of cenogram methodology as a tool for environmental reconstructions sustained by several mammalian communities across the globe during the Cenozoic time-slice	Vivesh V Kapur and Blanca A García Yelo
10:20-10:30	3	Regional paleoclimate and environment database: where paleo data meets socio- economic-political decision making	Kushank Bajaj, Amir Bazaz, Supriyo Chakraborty and Atreyee Bhattacharya
10:30-10:40	4	Time assessment of tectonic and climatic forcing on the formation of Khari bedrock gorge, Kachchh, western India: A mathematical approach	M G Thakkar, <b>Girish Ch Kothyari</b> and Gaurav Chauhan
10:40-10:50	5	Extreme Flood Events and Erosional Hotspot of Tsangpo-Siang Tsangpo-Siang- Brahmaputra River valley	Sandeep Panda, Anil Kumar, Satyabrata Das, Rahul Devrani and Pradeep Srivastava
10:50-11:00	6	Palynological and carbon isotopic signatures of early Eocene hyperthermal event from Kutch Basin, Western India	<b>Poonam Verma</b> , Shailesh Agrawal and Abha Singh
11:00-11:10	7	Palynofloral diversity and palaeoclimatic significance of striate disaccate pollen in Yellandu coalfield of Kothagudem sub-basin, Godavari graben	<b>D. S. Seetharam</b> and H. Ramakrishna
11:10-11:20	8	Paleoclimate reconstruction of the Aravalli Craton (Central Rajasthan, NW India) during Paleoproterozoic using geochemical proxies of metasedimentary rocks	<b>Ejaj Ahmad Khan</b> , M E A Mondal and Iftikhar Ahmad
11:20-11:30	9	Oceanic Anoxic Events (OAEs): Causes, Consequences, and Records from India	Nazim Deori and Abha Singh

11:30-11:40	10	Post-LGM extreme flood record and provenance of Upper Indus River, Ladakh	Choudhurimayum Pankaj Sharma,
			Poonam Chahal, Anil Kumar, Saurabh
			Singhal, YP Sundriyal, Alan D Ziegler,
			Rajesh Agnihotri, Robert J Wasson, Uma
			Kant Shukla and Pradeep Srivastava
11:40-11:50	11	A Transformative Perspective on early Eocene Climate change of northern	Kajal Chandra, Anumeha Shukla and R C
		western India based on megaremains evidences	Mehrotra
11:50-12:00	12	Signatures of Mid-Miocene Climate Optimum from Kerala Basin, India: based	Yogesh Pal Singh, Poonam Verma and
		on palynological records	Abha Singh
12:00-12:10	13	Plant fossils from the Bhadasar Formation of Jaisalmer Basin, Rajasthan,	Raj Kumar, Neelam Das and Bindhyachal
		Western India: paleoclimatic interpretation	Pandey
12:10-12:20	14	Late Oligocene–Miocene climate and vegetation of northeast India: megafossil	Harshita Bhatia, Gaurav Srivastava and R
		evidences	C Mehrotra
12:20-12:30	15	Modern pollen analogue from the Majuli Island (ramsar site) of Assam:	Swati Tripathiand Sadhan Kumar
		implications to decipher the palaeoecology and palaeoflood episodes in northeast	Basumatary
		India	
12:30-12:40	16	The Kashmir Loess record and its significance for reconstruction of Middle to	Ishtiaq Ahmad
		Late Pleistocene climate change in north-Western Himalaya, India	
12:40-12:50	17	Centennial scale teleconnection between the Indian Summer Monsoon and the	AashimaSodhi, NisargMakwana, S P
		North Atlantic Region during the last two millennia	Prizomwala, and Archana Das

# Date: 15.10.2020

Session-II; Time: 02:15 PM-05:10 PM

*Theme:* Quaternary climatic changes and climate cycles (land and ocean records); Anthropogenic interferences Coordinator: Dr. Binita Phartiyal, BSIP, Lucknow

02:30-02:40	18	Evolution of glacial landforms in ISM dominated eastern Himalaya: Review	Soumyadip Banerjee, Subhajit Sinha and	
		study from Sikkim, India, emphasising climate change	Yogesh Ray	
02:40-02:50	19	Reconstructing Crop economy and based on archaeobotanical evidence and	Himani Patel, Anil K Pokharia, N Nihildas,	
		radiocarbon dates from RithiRajana: an Early Iron Age site in semi-arid	Niraj Rai and Rajeshwar P Sinha	
		Vidarbha, Maharashtra, India		
02:50-03:00	20	Late Quaternary variations in Indian Summer Monsoon inferred from the	Ammoose K Jayana, A V Sijinkumar and	
		morphotypes of Globigerionidesruber (white) from the NE Indian Ocean	B NagenderNath	

03:00-03:10	21	Stable C and N isotopes of carbonized seeds/ soil-sediments to gauge	Shalini Sharma, Rajesh Agnihotri and Anil
		hydrological status and manuring practices during Indus urbanism	K Pokharia
03:10-03:20	22	Using geochemical tracers for paleoenvironmental reconstruction from tropical	PrabhakaranRamyaBala, Francois De
		montane peat, Nilgiris, India	Vleeschouwer, Gael Le Roux, Raman
			Sukumar and Sajeev Krishnan
03:20-03:30	23	A high-resolution record of past environmental variations during the mid-	Joju George Sebastian, Anish Kumar
		holocene from an east antarctic lake	Warrier, Mahesh B S and Rahul Mohan
03:30-03:40	24	Quaternary climate: A case study on Alluvium Geochemistry from Tawa Basin,	Shradha Shukla, JayshreeMeshram,
		Hoshangabad district Madhya Pradesh	ChhayaMinz, HemrajSuryavanshi and
			Shubrasuchi Sarkar
03:40-03:50	25	Stable- and radio-isotopic measurements of faunal remains from archaeological	Nikhil Patel, Rajesh Agnihotri and Alok
		sites: Implications to achieve absolute chronology and retrieve palaeo-	Kumar
		environmental information	
03:50-04:00	26	Shell size variation of pteropod <i>Limacinainflata</i> as a proxy for Paleoceanography	<b>E. Sreevidya</b> , A. V. Sijinkumar, A. Ameena
			and B N Nath
04:00-04:10	27	Holocene climate anomaly of the Kashmir valley, Northwestern Himalayas	Rayees Ahmad Shah, AbdurRehman, M G
			Yadava and Sanjeev Kumar
04:10-04:20	28	Holocene hydroclimate variability in the Bengal Basin: a lake archive record	KorobiSaikia, Oindrila Biswas, Shailesh
04:10-04:20	28	Holocene hydroclimate variability in the Bengal Basin: a lake archive record	Agrawal, Mohd. Arif, BinitaPhartiyal,
04:10-04:20	28	Holocene hydroclimate variability in the Bengal Basin: a lake archive record	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar
			Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera
04:10-04:20	28 29	Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat,	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo
			Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L
		Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat,	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and
04:20-04:30	29	Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat, Reveals Specialized Animal Husbandry During the Indus Age	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and YadubirsinghRawat
		Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat, Reveals Specialized Animal Husbandry During the Indus Age Quaternary sea level fluctuation along with sedimentation pattern of different	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and
04:20-04:30	29 30	Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat, Reveals Specialized Animal Husbandry During the Indus Age Quaternary sea level fluctuation along with sedimentation pattern of different sectors of north-eastern coast, India	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and YadubirsinghRawat <b>Dola Chackraborty</b>
04:20-04:30	29	Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat, Reveals Specialized Animal Husbandry During the Indus Age Quaternary sea level fluctuation along with sedimentation pattern of different sectors of north-eastern coast, India Control of Sea Surface temperature on the isotopic composition of coastal	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and YadubirsinghRawat <b>Dola Chackraborty</b> <b>Md. Arzoo Ansari,</b> Jacob Noble1,
04:20-04:30	29 30	Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat, Reveals Specialized Animal Husbandry During the Indus Age Quaternary sea level fluctuation along with sedimentation pattern of different sectors of north-eastern coast, India	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and YadubirsinghRawat <b>Dola Chackraborty</b> <b>Md. Arzoo Ansari,</b> Jacob Noble1, ArchanaDeodhar, S Chakraborty and G N
04:20-04:30 04:30-04:40 04:40-04:50	29 30 31	Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat, Reveals Specialized Animal Husbandry During the Indus Age Quaternary sea level fluctuation along with sedimentation pattern of different sectors of north-eastern coast, India Control of Sea Surface temperature on the isotopic composition of coastal precipitation	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and YadubirsinghRawat <b>Dola Chackraborty</b> <b>Md. Arzoo Ansari,</b> Jacob Noble1, ArchanaDeodhar, S Chakraborty and G N Mendhekar
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04:20-04:30 04:30-04:40 04:40-04:50 04:50-05:00	29 30 31 32	Enamel Isotope Data from the Domesticated Animals at KotadaBhadli, Gujarat, Reveals Specialized Animal Husbandry During the Indus Age Quaternary sea level fluctuation along with sedimentation pattern of different sectors of north-eastern coast, India Control of Sea Surface temperature on the isotopic composition of coastal precipitation Understanding of the Himalayan monsoon system: Past to present	Agrawal, Mohd. Arif, BinitaPhartiyal, Anupam Sharma, Neha Singh, Dipak Kumar Paruya, Ruby Ghosh and SubirBera <b>KalyanSekhar Chakraborty</b> , Supriyo Chakraborty, Petrus Le Roux, Heather M-L Miller, PrabodhShirvalkar and YadubirsinghRawat <b>Dola Chackraborty</b> <b>Md. Arzoo Ansari,</b> Jacob Noble1, ArchanaDeodhar, S Chakraborty and G N Mendhekar <b>Aasif Mohmad Lone</b> , Rayees Ahmad Shah and HemaAchyuthan
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#### Date:16.10.2020 SESSION: I; Time: 09:45 AM- 11:40 AM

*Theme: Extreme weather events, El Nino and La Nino episodes; Natural Viability in the climate system* **Coordinator:** Dr. S. Chakraborty, IITM, Pune

10:00-10:10	34	The role of the orbital parameters in the Indian monsoon during the Mid- Holocene, as deciphered from atmospheric model experiments	Charan Teja Tejavath, Karumuri Ashok and Supriyo Chakraborty
10:10-10:20	35	Role of solar insolation and high latitude climate in Indian summer monsoon variability since MIS3	<b>Sonu Jaglan</b> , Anil K Gupta, Steven C Clemens, Som Dutt, Hai Cheng, and Raj K Singh
10:20-10:30	36	Heatwave driven atmospheric Carbon dioxide variability over India perceived by satellite and surface measurements	<b>Smrati Gupta</b> , Yogesh K Tiwari, J V Revadekar, Pramit Kumar Deb Burman, Supriyo Chakraborty and Palingamoorthy Gnanamoorthy
10:30-10:40	37	Role of Atmospheric Wind Pattern in Extreme Weather Condition	Vinay Kumar Pandey
10:40-10:50	38	Assessment of agricultural drought using rainfall deviation at district level for Tamil Nadu, India	Venkadesh Samykannu, S.Pazhanivelan, and S.Panneer Selvam
10:50-11:00	39	Characteristics of Aerosol Optical depth (AOD) using satellite approach over Surat	Ranjitkumar Solanki and K N Pathak
11:00-11:10	40	Grid-wise Correlation of Long Term Monthly Average Temperature of Meghalaya, India	Raju Kalita and Atul Saxena
11:10-11:20	41	Temperature Forecasting over North-East Region of India using Artificial Neural Network: A comparison-based study	S O Shaw, <b>S Das</b> and A K Maurya
11:20-11:30	42	Extreme rainfall trends and their statistical significance	Sanjay Kumar, <b>L N Thakural</b> , Sunil Gurrapu and J P Patra
11:30-01:40	43	Geographical dependence of cloud process over India: A comparative study between coastal and inland region	Rohit Srivastava and Ruchita Shah

Date:16.10.2020
SESSION: II; Time: 12:15 PM- 01:20 PM

*Theme: Impact of climate change on water resources* **Coordinator:** Dr. Venkatesh Dutta, BBAU, Lucknow

12:30-12:40	44	Impact of the climate change on the water resources of the Brahmani Basin of	Damodar Panda		
		Odisha			
12:40-12:50	45	Groundwater responses to climate variability in Punjab, India	Gopal Krishan, Nitesh Patidar, N Sudarsan,		
			Rajesh Vasisth, and B S Sidhu		
12:50-01:00	46	Snow Cover Estimation and Their Impact on Hydrological Flow Regime: A	Aradhana Thakur, Anupma Sharma and L		
		Study of Tons River Basin	N Thakural		
01:00-01:10	47	Geographical study of wetland area in north Bihar plain using remote sensing	Baidyanath Kumar		
		and GIS tools			
01:10-01:20	48	Groundwater management strategies in a rural catchment area: A case study of	Priyam Saxena, Apoorva Bamal, Niharika		
		Chattisgarh	Singh, Pammi N Sinha and Jyoti Patil		

## Date:16.10.2020

#### SESSION: III; Time: 02:15 PM- 05:00 PM

*Theme: Teleconnection between Poles and Tropics; Indian Ocean warming, coastal ecosystem and sea-level rise* **Coordinator:** Dr. Rahul Mohan, NCPOR, Goa

02:30-02:40	49	Glacier loss in response to climate change in selected basins of Western	Riyaz Ahmad Mir, Sanjay K Jain, and
		Himalaya	Zahid Majeed
02:40-02:50	50	Glacier Response to Changing Climate in the past half a century in the Lidder	F A Bhat and Anayat Ahmad Quarshi
		Basin, Western Himalayas	
02:50-03:00	51	Reconstructing the glacier dynamics since Little Ice age (LIA) using multi-	Pritam Chand, Mayank Shekhar, Amalava
		proxies or data integrate approach in the Chandra-Bhaga basin, northwestern	Bhattacharyya and Milap Chand Sharma
		Himalaya	
03:00-03:10	52	Accelerated decline of the Arctic sea-ice associated to the global climate change	Avinash Kumar, Juhi Yadav and Rahul
			Mohan
03:10-03:20	53	Impact of changing climate over Polar ice sheet located south of Larsemann	Pradeep Kumar and Amit Dharwadkar
		Hills, East Antarctica	

03:20-03:30	54	Glacial to proglacial and paraglacial landscape transformations in Arctic, Ny-	Sharat Dutta, Mohd Sadiq, Amit
		Alesund area, Svalbard: sedimentary archives	Dharwadkar
02 20 02 40	~~		
03:30-03:40	55	Prevalent Climate variables during summer season around Gangotri Glacier	Manohar Arora and Jatin Malhotra
03:40-03:50	56	Influence of the Arctic sea-ice melt on the Summer Pacific Tropical Cyclone is	Varunesh Chandra and S. Sandeep
		modulated by Pacific Ocean decadal variability	
03:50-04:00	57	Impact of ENSO on tropical cyclone season over north Indian Ocean	Debanjana Das, Fatema Khan, Chayan
			Roychoudhury, Swagata Paul and Sutapa
			Chaudhuri
04:00-04:10	58	Spatial modifications of Gulf of Mannar Islands due to rising sea level, Tamil	Sasi Mary Priya Rajan and Radhakrishnan
		Nadu	Vengadasalam
04:10-04:20	59	Modeling Sea Surface Temperature over Indian Ocean and its influence on	Prabha Kushwaha, Vivek Kumar Pandey
		Indian Monsoon rainfall	and Anshu Prakash Mishra
04:20-04:30	60	Increased cyclone destructive potential in the Southern Indian Ocean	Vidya P J, Ravichandran M, R Murtugudde,
			Subeesh M P, Sourav Chatterjee, Neetu S
			and Nuncio M
04:30-04:40	61	Recent changes in Different modes of Indian Ocean in warming climate	Jayanti Pal
04:40-04:50	62	Response of ocean water chemistry on impact of increasing atmospheric Carbon	Somenath Ganguly, Uday Bhan, Santosh K
		di Oxide	Rai and Prashant Dhote
04:50-05:00	63	Did the Meghalayan sea stand fluctuations play a role in deurbanization of the	Archana Das, Chintan D. Vedpathak,
		coastal Harappan settlers, Lothal (Gujarat, India)?	Aashima Sodhi, Rajesh
			Agnihotri, Binita Phartiyal, Nisarg Makwana,
			Nikhil Patel, Jaquilin Joseph and S P
			Prizomwala

## Date:17.10.2020 SESSION: I; Time: 09:45 AM- 11:20 AM

*Theme: Climate change and Indian monsoon* **Coordinator:** Dr. S. Chakraborty, IITM, Pune

10:00-10:10	64	Isotope fingerprinting of precipitation over Indian region	Nidhi Kalyani, M S Rao and Sudhir Kumar		
10:10-10:20	65	Climatological interlink study of rapid urbanization and extreme rainfall events	G N Mohapatra, Smrati Purwar and V		
		over megacities in India	Rakesh		
10:20-10:30	66	Isotopic composition of daily precipitation from Kashmir Valley, NW Himalaya:	Aasif Mohmad Lone, Supriyo Chakraborty,		
		Insights on the role of meteorological parameters and dual moisture transport	Hema Achyuthan, Abirlal Metya, Amey		
		pathways	Datye, R H Kripalani and Fousiya A A		
10:30-10:40	67	Rainfall Trends (1901-2019) and last 100Year's Drought Intensity Assessment	Antara Gupta and Ajai Mishra		
		(DIA) in Varanasi district, Uttar Pradesh			
10:40-10:50	68	Changing patterns of historical rainfall and temperature in a river basin of the	Archana Sarkar, Ushendra Kumar, Sanjay		
		desert state of India	Agarwal and Govind Pandey		
10:50-11:00	69		Debangshu Banerjee and Charu Singh		
		formed union-territory of Ladakh in North West Himalayan Region			
11:00-11:10	70	Spatio-temporal rainfall analysis of Goa State	Venkatesh B, Ashwini Pai Panandiker and		
			Abhilash R		
11:10-11:20	71	Investigating the effect of environmental variables on the isotopic composition	Amey Datye and S Chakraborty		
		of transpiration			

#### Date:17.10.2020 SESSION: II; Time: 12:15 PM- 01:50 PM

Theme: Climate change and Environmental degradation

Coordinator: Dr. Venkatesh Dutta, BBAU, Lucknow

12:30-12:40	72	Quality assessment of water-bodies around an oil refinery, Bina, district Sagar, Central India	Jemini Khatik and P. K. Kathal
12:40-12:50	72	Temporal Trends in Water Discharge of the Large Peninsular Rivers: Assessing the Role of Climatic and Anthropogenic Factors	Harish Gupta, Kiran Kumar Reddy S and Vamshi Krishna Gandla

12:50-01:00	73	A comparative study of ecohydrology of a tropical mangrove and a broadleaf	Pramit Kumar Deb Burman and Supriyo
		deciduous forest in India	Chakraborty
01:00-01:10	74	Study of carbon transfer processes in a semi-evergreen forest of Northeast India	Dipankar Sarma, S Chakraborty, Nirmali
			Gogoi, Abhijit Bora, Pramit K Deb Burman,
			Abirlal Metya, Amey Datye, Charuta
			Murkute and Anand Karipot
01:10-01:20	75	Interannual variability of the physico-chemical parameters around the coral reef	Saravanan Kumaresan and Supriyo
		ecosystem of Lakshadweep Sea	Chakraborty
01:20-01:30	76	Assessment and conservation approaches of degradation hotspots in three	Apoorva Bamal, Niharika Singh, Priyam
		leading Indian rivers	Saxena and Akash Sondhi
01:30-01:40	77	Examination of historical trends and future projections for climate and land-use	Ashwini Pai Panandiker, B Venkatesh,
		variables and its impact on Kalna River flow in Goa, India	Shubham Gude, K Mahender and A G
			Chachadi
01:40-01:50	78	Assessment of Physicochemical parameters of the Ganga River water between	Kumar Ankit, Kuldeep Prakesh, Anis and
		Prayagraj and Varanasi	Narendra Kumar

#### Date:17.10.2020 SESSION: III; Time: 02:15 PM- 05:20 PM

**Theme:** Disaster Management and policy framework: Climate Action: stock take in India; Covid-19 impact on environment and future strategies

Coordinator: Prof. Anil Gupta, NIDM, Delhi

02:30-02:40	79		Surajit Kundu
		Eastern India: implications for mitigation	
02:40-02:50	80	Identification of climate change impacts by glacial lake changing aspects in	Shubhesh Sharma, Ajanta Goswami, Anis,
		Arunachal Pradesh over the last four decades	and Narendra Kumar
02:50-03:00	81	Multi- hazard risk mapping and assessment of housing adaptability: a geo-	Rituparna Hajra and Sanjib Kumar Gupta
		statistical analysis from Indian Sundarban	
03:00-03:10	82	Innovation in Rain water Harvesting to mitigate risks due to Climate Change	Sunil Shrivastava
03:10-03:20	83	Waste Management and Its Effect on Global Warming	R. Dhana Raju
03:20-03:30	84	Seeing the Unseen: Changing Climate affecting microbes and their ecological	KavitaVerma, Pooja Gokhale Sinha and
		services	Vartika Mathur
03:30-03:40	85	Engendered climate risk analysis: a precursor to gender equality and	Vandana Sharma, Smita Chakravarty, Savita
		empowerment	Aggarwal and Jagriti Kher

03:40-03:50	86	Understanding the lockdown impact on Air Quality in Delhi due to COVID-19	Harshita Saxena and Vivek Kumar Pandey
03:50-04:00	87	COVID-19 Lockdowns Improve Air Quality in the South-East Asian Regions, as	Abirlal Metya, Panini Dagupta, Santanu
		Seen by the Remote Sensing Satellites	Halder, S Chakraborty and Yogesh K Tiwari
04:00-04:10	88	Black carbon in Arctic: Impact of COVID-19	Rohit Srivastava
04:10-04:20	89	COVID19 and Pollution and Meteorology: A Convoluted Relationship	Pankaj Mehta, <b>Anjali Bala</b> and Bhawna Sharma
04:20-04:30	90	Impact of COVID-19 induced lockdown and Unlock periods on the Air quality of Guwahati city, India	Ritwik Nigam and Kanvi Pandya
04:30-04:40	91	COVID-19 and weather parameters: A case study of Maharashtra, India	Amit Awasthi, Uday Bhan and Nirankar Singh
04:40-04:50	92	An overview of the impacts of Covid-19 on marine sector in India and their implications for achieving sustainable development of marine resources	Sudip Kumar Kundu and Harini Santhanam
04:50-05:00	93	Impact of lockdown on air quality in megacities of India during COVID-19 pandemic	<b>Pallavi Pradeep Khobragade</b> and Ajay Vikram Ahirwar
05:00-05:10	94	Review of Lockdown Consequences on the Aerosol Heterogeneity over Indian Subcontinent	Nishi Srivastava
05:10-05:20	95	Rethinking Waste Management during Covid-19 – Assessment and Strategies to Manage Household Biohazard Personal Protection Equipment	Het Jani, Vanita Prasad, <b>Akash Sondhi</b> , Priya Sondhi

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