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Ministry of Earth Sciences
Government of India



Seventh WMO International Workshop on Monsoons (IWM-7)

22-26 March 2022, New Delhi, India

TECHNICAL SESSION: INVITED PRESENTATIONS

Day 3: 24 March, 2022 (Thursday)
Time: 0830-0950 IST (0300-0420 UTC) (80 Minutes)
SESSION - 24S1

CHAIR: Dr. PAUL ROUNDY

(Each Talk : 15 minutes for presentation and 4 minutes for discussion+ 1 minute extra)

Sr. No.	ID No.	Name	Affiliation	Theme	Title
1	19	PETER J. WEBSTER	GEORGIA INSTITUTE OF TECHNOLOGY, USA	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	MONSOON PREDICTION ACROSS SCALES
2	18	PAUL ROUNDY	SUNYA, USA	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	EQUATORIAL ROSSBY WAVES, THE MADDEN JULIAN OSCILLATION, AND THEIR IMPACTS ON MONSOONS
3	25	SURYACHANDRA RAO	WCRP MONSOON PANEL, INDIA	MODELLING MONSOON PROCESSES	SST FRONTS/GRADIENTS IN THE BAY OF BENGAL AND THEIR IMPACT ON INDIAN SUMMER MONSOON RAINFALL AT DIFFERENT TIME SCALES
4	36	NARENDRA TUTEJA	REGIONAL SUPPLY AND FLOOD MODELLING MANAGER, WATER NSW AUSTRALIA	SECTORAL APPLICATIONS (WATER)	ADVANCES IN THE DEVELOPMENT AND APPLICATION OF FORECASTS IN WATER SECTOR

BREAK 15 Minutes



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TECHNICAL SESSION: ORAL PRESENTATIONS

Day 3: 24 March, 2022 (Thursday)
Time: 1005-1130 IST (0430-0550 UTC) (85 Minutes)
SESSION : 24S2A : Hall A (Parallel Session)

SESSION COORDINATOR: PROF. A. P. DIMRI

(Each Talk : 10 minutes for presentation and 2 minutes for discussion + 1 minutes Extra)

Sr. No.	ID No.	Theme	Name	Title
1	58	MODELLING MONSOON PROCESSES	MANAS RANJAN MOHANTY	SEASONAL PREDICTION OF ISMR USING WRF: A DYNAMICAL DOWNSCALING PERSPECTIVE
2	61	MODELLING MONSOON PROCESSES	ANKUR SRIVASTAVA	INTERACTION OF RIVERS WITH THE INDIAN SUMMER MONSOON: MODELING, IMPACT ON VARIABILITY AND IMPLICATIONS FOR PREDICTABILITY
3	62	MODELLING MONSOON PROCESSES	MAHESWAR PRADHAN	IMPROVEMENTS IN THE TROPICAL DIURNAL CYCLE BY INCORPORATING COARE FLUX ALGORITHM IN CFSV2
4	64	MODELLING MONSOON PROCESSES	ANUMEHA DUBE	SPATIAL VERIFICATION OF PROBABILISTIC RAINFALL FORECAST OVER INDIAN LAND REGION
5	65	MODELLING MONSOON PROCESSES	ASHIS KUMAR MITRA	IMPLEMENTATION OF A SEAMLESS MODELLING SYSTEM AT NCMRWF: ENSEMBLE MONSOON PREDICTION FROM HOURS-TO-SEASON
6	69	MODELLING MONSOON PROCESSES	DR. SREEKALA P P	ON THE SIMULATION OF NORTHEAST MONSOON RAINFALL OVER SOUTHERN PENINSULAR INDIA IN CMIP5 MODELS



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Day 3: 24 March, 2022 (Thursday)
Time: 1005-1130 IST (0430-0550 UTC) (85 Minutes)
SESSION : 24S2B : Hall B (Parallel Session)

SESSION COORDINATOR: DR. E. N. RAJAGOPAL

(Each Talk : 10 minutes for presentation and 2 minutes for discussion + 1 minutes Extra)

Sr. No.	ID No.	Theme	Name	Title
1	72	MODELLING MONSOON PROCESSES	ARATHY MENON	THE ROLE OF MID-TROPOSPHERIC MOISTENING AND LAND SURFACE WETTING IN THE PROGRESSION OF THE 2016 INDIAN MONSOON
2	75	MODELLING MONSOON PROCESSES	AKA SHARMA	INDIAN SUMMER MONSOON INTERCOMPARISON IN CORDEX-CORE AND CORDEX-SA
3	67	MODELLING MONSOON PROCESSES	KONDAPALLI NIRANJAN KUMAR	ATMOSPHERIC KINETIC ENERGY SPECTRA FROM GLOBAL AND REGIONAL NCMRWF UNIFIED MODELS
4	89	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	RADYAN PUTRA PRADANA	INFLUENCE OF ASIAN-AUSTRALIAN MONSOON AND INDO-PACIFIC SEA SURFACE TEMPERATURE VARIABILITY ON URBAN CLIMATE IN MAJOR CITIES OF INDONESIA FOR LOW-CARBON BUILDING DESIGN
5	43	HIGH IMPACT MONSOON WEATHER	RAGHAVENDRA ASHRIT	SEEPS AND SEDI METRICS FOR VERIFICATION OF MODEL PREDICTED EXTREME RAIN OVER INDIA DURING RECENT MONSOONS
6	85	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	PRAVEEN KUMAR	BIAS-CORRECTED EXTENDED RANGE FORECAST OF RAINFALL IN OPERATIONAL FRAMEWORK OF IMD

BREAK 15 Minutes



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TECHNICAL SESSION: SHORT ORAL CUM E-POSTER PRESENTATIONS

Day 3: 24 March, 2022 (Thursday)
Time: 1145-1300 IST (0615-0730 UTC) (75 Minutes)
SESSION : 24SP (Short Oral Cum Poster Session)

Session Coordinator : Dr. S. I. Laskar, IMD

(Each Talk : 2and ½ minutes.)

Sr. No.	ID No.	Theme	Name	Title
1	9	CLIMATE CHANGE AND MONSOONS	RUCHI SINGH PARIHAR	MODELING OF THE MALARIA TRANSMISSION DYNAMICS OVER FOUR REGIONS IN INDIA.
2	13	CLIMATE CHANGE AND MONSOONS	SUTHINKUMAR P S	STUDY ON LONG TERM TRENDS IN ATMOSPHERIC MOISTURE AND ITS TELECONNECTIONS WITH MONSOON RAINFALL
3	14	CLIMATE CHANGE AND MONSOONS	MONICA SHARMA	SOME CHARACTERISTICS OF MONSOON DISTURBANCES OVER THE NORTH INDIAN OCEAN IN RECENT YEARS
4	15	CLIMATE CHANGE AND MONSOONS	DR. SAPANA ASHOK SASANE	ESTIMATING THE TREND OF CLIMATIC PARAMETERS OVER THE HELMAND RIVER BASIN, AFGHANISTAN FROM 1981-2019
5	16	CLIMATE CHANGE AND MONSOONS	VASUNDHARA BARDE	COUNTER-CLOCKWISE SHIFT OF THE INDIAN MONSOON SPARSE ZONE IN CONTEXT OF CLIMATE CHANGE
6	17	CLIMATE CHANGE AND MONSOONS	SANJUKTA RANI PADHI	ACTIVE-BREAK CYCLES OF INDIAN SUMMER MONSOON AND THEIR VARIABILITY DURING COLD AND WARM PHASES
7	19	CLIMATE CHANGE AND MONSOONS	SUBROTA HALDER	DECADAL VARIABILITY OF MONSOON CORE ZONE RAINFALL
8	26	FIELD EXPERIMENTS AND OBSERVATIONAL CAMPAIGNS	SUDEEP KUMAR B L	THERMODYNAMIC STRUCTURE OF ATMOSPHERIC BOUNDARY LAYER OVER THE WEST COAST OF INDIA DURING ACTIVE AND WEAK PHASES OF INDIAN SUMMER MONSOON

9	32	FIELD EXPERIMENTS AND OBSERVATIONAL CAMPAIGNS	SUKANYA PATRA	CHARACTERISTICS OF TROPICAL WARM CLOUDS AND ITS ROLE ON THE SUMMER MONSOON RAINFALL
10	37	FIELD EXPERIMENTS AND OBSERVATIONAL CAMPAIGNS	ANKITA KATOCH	WET SCAVENGING OF HEAVY METALS DURING MONSOON SEASON IN DELHI
11	86	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	JOHNY C J	ANALYSIS OF GFS AND GEFS MODEL FORECASTS AT IMD DURING SOUTH WEST MONSOON 2021
12	87	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	RAM RATAN	WIND POWER POTENTIAL ASSESSMENT OVER INDIA USING IMDAA AND ERA5 REANALYSIS DATA
13	88	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	DR. M. T. BUSHAIR	EXTENDED RANGE FORECAST OF ONSET OF SOUTHWEST MONSOON OVER INDIA USING COUPLED MODEL
14	90	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	VENUGOPAL KURNOOL	MONSOON RAINS AND FLOW PREDICTIONS - A CASE STUDY OF UPPER KRISHNA
15	91	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	PRIYANKA SINGH	BLOCK LEVEL WEATHER FORECAST BASED AGRO-ADVISORY AND ITS IMPACT FOR BIHAR, INDIA
16	8	CLIMATE CHANGE AND MONSOONS	VIKRAM RAJ	ROLE OF AEROSOLS IN MODULATING CLOUDS AND PRECIPITATION OVER CENTRAL HIGHLAND REGION OF INDIA
17	10	CLIMATE CHANGE AND MONSOONS	ASHUTOSH K SINHA	REVISITING THE INDIAN SUMMER MONSOON VARIABILITY OVER THE EASTERN COAST OF INDIA
18	11	CLIMATE CHANGE AND MONSOONS	NANDINI G	DOES EL-NINO AMPLIFY THE ARABIAN SEA AEROSOL AND INDIAN MONSOON RELATIONSHIP?
19	12	CLIMATE CHANGE AND MONSOONS	ANANDU RAJEEV	LONG-TERM TREND IN RAINFALL DURING VARIOUS SEASONS: A CASE STUDY OVER INDIA
20	21	CLIMATE CHANGE AND MONSOONS	VASUNDHARA BARDE	PROJECTION OF INDIAN MONSOON SPARSE ZONE SHIFT UNDER CLIMATE CHANGE
21	24	CLIMATE CHANGE AND MONSOONS	MANALI SAHA	EVALUATION OF INDIAN SUMMER MONSOON UNDER THE INFLUENCE OF CLIMATE CHANGE
22	33	FIELD EXPERIMENTS AND OBSERVATIONAL CAMPAIGNS	MEENU R NAIR	OBSERVATIONAL ATMOSPHERIC VERTICAL STRUCTURE OF CORE MONSOON ZONE IN CENTRAL INDIA



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TECHNICAL SESSION: INVITED PRESENTATIONS

Day 3: 24 March, 2022 (Thursday)
Time: 1800-1920 IST (1230-1340 UTC) (80 Minutes)

SESSION - 24S3

CHAIR: Prof. S. K. DASH

(Each Talk : 15 minutes for presentation and 4 minutes for discussion+ 1 minute extra)

S. No	ID No	Name	Affiliation	Theme	Title
1	3	M.RAJEEVAN	IMS, INDIA	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	INDIAN MONSOON MISSION: OPERATIONAL ADVANCES IN SHORT TO MEDIUM RANGE FORECASTS IN INDIA
2	32	QING BAO	PROFESSOR, INSTITUTE OF ATMOS. PHYSICS, CHINESE ACADEMY OF SCIENCES	MONSOON INFORMATION AND PREDICTION FOR SOCIETAL BENEFIT	FGOALS-F2 SEAMLESS PREDICTION SYSTEM OF IAP-CAS AND APPLICATION IN THE ASIAN MONSOON
3	23	SHIGEO YODEN	TKYOTO U, JAPAN	MODELLING MONSOON PROCESSES	MODULATION OF GLOBAL MONSOON SYSTEMS BY THE EQUATORIAL QUASI-BIENNIAL OSCILLATION
4	31	YUHEI TAKAYA	(S2S CORE PROJECT REPRESENTATIVE)	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS OF THE ASIAN SUMMER MONSOON: CURRENT STATUS AND FUTURE DIRECTIONS

BREAK 05 Minutes



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TECHNICAL SESSION: ORAL PRESENTATIONS

Day 3: 24 March, 2022 (Thursday)

Time: 1925-2045 IST (1355-1515 UTC) (80 Minutes)

SESSION : 24S4A : Hall A (Parallel Session)

SESSION COORDINATOR: DR. DEV NIYOGI

(Each Talk : 10 minutes for presentation and 2 minutes for discussion + 1 minutes Extra)

Sr. No.	ID No.	Theme	Name	Title
1	4	CLIMATE CHANGE AND MONSOONS	SHIPRA JAIN	HOW EXTREME COULD TRENDS IN INDIAN SUMMER MONSOON RAINFALL BE OVER THE NEXT DECADES?
2	128	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	ANKUR GUPTA	SUBSEASONAL TO SEASONAL PREDICTION SYSTEM AT NCMRWF: RAINFALL PREDICTABILITY AND ASSOCIATED TELECONNECTIONS
3	140	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	I M SHIROMANI PRIYANTHIKA JAYAWARDENA	CASE STUDY : SUBSEASONAL PREDICTION FOR DISASTER RISK REDUCTION - MAY 2018 EXTREME RAINFALL EVENT IN SRI LANKA
4	131	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	SESHAGIRIRAO KOLUSU	NOVEL COMPARISON OF ENSEMBLE FORECAST PRECIPITATION (PATTERN) SKILL DURING THE 2019 INDIAN MONSOON SEASON
5	135	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	SAGILI KARUNASAGAR	VERIFICATION OF FIVE GLOBAL MODEL'S PRECIPITATION DURING SUMMER MONSOON SEASON 2020
6	134	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	PEYRILL PHILIPPE	MISVA MONITORING AND FORECAST OF INTRASEASONAL VARIABILITY OVER AFRICA: A JOINT RESEARCH/OPERATIONAL COLLABORATIVE ACTION BETWEEN METEO-FRANCE AND SEVERAL WEST AFRICAN NMHSS.



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Day 3: 24 March, 2022 (Thursday)
Time: 1925-2045 IST (1355-1515 UTC) (80 Minutes)
SESSION : 24S4B : Hall B (Parallel Session)

SESSION COORDINATOR: Dr. JOHN P GEORGE

(Each Talk : 10 minutes for presentation and 2 minutes for discussion + 1 minutes extra)

Sr. No.	ID No.	Theme	Name	Title
1	29	FIELD EXPERIMENTS AND OBSERVATIONAL CAMPAIGNS	ANDREW TURNER	INTERACTION OF CONVECTIVE ORGANISATION WITH MONSOON PRECIPITATION, ATMOSPHERE, SURFACE AND SEA: THE 2016 INCOMPASS FIELD CAMPAIGN IN INDIA
2	30	FIELD EXPERIMENTS AND OBSERVATIONAL CAMPAIGNS	SACHIN DESHPANDE	ANALYSIS OF CONVECTIVE ORGANIZATION OVER THE MONSOON ZONE USING RADAR OBSERVATIONS
3	141	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	NIRUPAM KARMAKAR	DYNAMICS OF NORTHWARD PROPAGATION OVER ARABIAN SEA AND BAY OF BENGAL
4	111	REGIONAL MONSOONS	ANDREW TURNER	OROGRAPHIC RAINFALL PROCESSES IN INDIA - RESULTS FROM THE IMPROVE PROJECT
5	145	SUB-SEASONAL TO SEASONAL (S2S) PREDICTIONS	MURALI NAGESWARA RAO MALASALA	PREDICTABILITY OF SUMMER MONSOON MONTHLY RAINFALL AND ASSOCIATED EXTREME EVENTS OVER TAIWAN BY USING NCEP GEFSV12 MODEL
6	23	CLIMATE CHANGE AND MONSOONS	SANDEEP NARAYANASETTI	SOUTH ASIAN MONSOON RESPONSE TO WEAKENING OF ATLANTIC MERIDIONAL OVERTURNING CIRCULATION IN A WARMING CLIMATE