

PROGRAMME 26 September 2013

PLENERY SESSION -1 : REGISTRATION & OPENING: - VENUE : ROYAL PALM		
Chaired by : Dr. Mathieu Roault		
08:30-09:00	Registration	Royal Palm
09:00-09:40	Sivakumar Venkataraman	Welcome
	Jane Olwoch Directorate - SANSA	Opening
09:40-10:30	Thierry Lebel	Keynote address: "The West African Monsoon: Contribution of the AMMA multidisciplinary programme to the study of a regional climate system"
10:30-10:50	TEA BREAK	

PARALLEL SESSION 1A (ROYAL PALM) : ATMOSPHERIC MEASUREMENTS			Pg.	PARALLEL SESSION 1B (SAILS): METEOROLOGY		Pg.
Chaired by: Prof. R. R. Reddy				Chaired by: Dr. J.L. McGregor		
10:50-11:10	M. J. SAVAGE	AIR TEMPERATURE MEASUREMENT ERRORS	24	M.M.BOPAPE	SIMULATING SUPPRESSED AND ACTIVE CONVECTION PERIODS DURING TOGA COARE	12
11:10-11:30	K. RAGHAVENDRA KUMAR	LONG-TERM VARIATIONS IN MODIS DERIVED AEROSOL OPTICAL DEPTH AND FINE MODE FRACTION AT THREE DIFFERENT ENVIRONMENTS IN SOUTH AFRICA	23	J. STANDER	STEP-WISE SNOW FORECASTING DECISION TREE	25
11:30-11:50	A. JOSEPH ADESINA	AEROSOL OPTICAL PROPERTIES OVER PRETORIA, SOUTH AFRICA DURING SPRING TIME MEASURED FROM CIMEL SUNPHOTOMETER	17	M. GELDENHUYS	ESTIMATING FOG WATER YIELD POTENTIAL ON THE SOUTHERN CAPE MOUNTAINS OF SOUTH AFRICA	15
11:50-12:10	LAVRIC JOST	CONTINUOUS ATMOSPHERIC MEASUREMENTS IN SOUTHERN AFRICA – OPPORTUNITIES FOR NETWORKING AND COLLABORATION	33	L. SIMPSON	INVESTIGATING THE OCCURRENCE AND POSITIONING OF POSITIVELY CHARGED LIGHTNING WITHIN CUMULONIMBUS CLOUDS	24
12:10-12:30	T. GUMEDE	TRENDS IN ATMOSPHERIC CONDITIONS ASSOCIATED WITH SEVERE STORMS OVER GAUTENG	16	B. MASEKO	PRELIMINARY RESULTS OF THE RAPIDLY DEVELOPING THUNDERSTORM PRODUCT IN SOUTH AFRICA	21
12:30-12:50	E. MORGAN	CONTINUOUS MEASUREMENTS OF GREENHOUSE GASES AND RELATED TRACERS IN THE NAMIB DESERT	39	S. LANDMAN	EVALUATION OF SEVERE WEATHER GUIDANCE MAPS ISSUED BY THE SOUTH AFRICAN WEATHER SERVICE	19
12:50-14:00			LUNCH			

PARALLEL SESSION 2A (ROYAL PALM) : CLIMATE MODELS Chaired by: Prof. James McKenzie			Pg.	PARALLEL SESSION 2B: (SAILS) CLIMATE-RAINFALL Chaired by : Dr. Thierry Lebel			Pg.
14:00-14:20	J.L. McGREGOR	AN UPDATE ON CCAM MODELLING ACTIVITIES AT CSIRO	21	J. MALHERBE	DECADAL-SCALE RAINFALL VARIABILITY AND THE SOUTHERN ANNULAR MODE		36
14:20-14:40	F. ENGELBRECHT	THE FUTURE IS UNCERTAIN, BUT NOT IN A RANDOM WAY	15	L. DYSON	CLIMATOLOGY OF HEAVY RAINFALL SOUNDINGS AT IRENE BY USING SELF-ORGANIZING MAPS		15
14:40-15:00	M. GIJBEN	VERIFICATION OF A UNIFIED MODEL BASED LIGHTNING RISK INDICATOR FOR SOUTHERN AFRICA	16	X. JELE	SIMULATING HOURLY RAINFALL OVER SOUTH AFRICA USING THE CCAM		17
15:00-15:20	I. PINTO	CLIMATE EXTREMES INDICES IN THE CORDEX MULTIMODEL ENSEMBLE: FUTURE CLIMATE PROJECTIONS	22	C. ENGELBRECHT	THE RELATIVE CONTRIBUTION OF SYNOPTIC TYPES TO RAINFALL OVER THE CAPE SOUTH COAST REGION		13
15:20-15:40	ROELOF BURGER	RE-EVALUATING THE CONCEPTUAL MODEL DESCRIBING THE THERMODYNAMIC STRUCTURE OF THE TROPOSPHERE IN THE MID-LATITUDES	12	B. DIEPPOIS	OBSERVED DECADAL VARIABILITY IN WEST-AFRICAN SAHEL RAINFALL AND THEIR ASSOCIATED MONSOON ANOMALIES		11
15:40-16:00 TEA BREAK							

PARALLEL SESSION 3A (ROYAL PALM): CLIMATE - AIR QUALITY Chaired by: Dr. Liesl Dyson			Pg.	PARALLEL SESSION 3B (SAILS) : CLIMATE - OCEAN INTERACTION Chaired by: Dr. Mathieu Roault			Pg.
16:00-16:20	U. EVA LILIANE	AN EVALUATION OF HOW WELL RCMS CORDEX AND GCMS MODELS SIMULATES SOUTHERN AFRICAN DROUGHTS PATTERNS	44	B. BACKEBERG	A REGIONAL SIMULATION OF THE GREATER AGULHAS CURRENT SYSTEM WITH DATA ASSIMILATION		29
16:20-16:40	M.MOKHELE	ENTERIC METHANE EMISSIONS ESTIMATES FOR SOUTH AFRICA	11	PETER JOHNSTON	OCEAN-CLIMATE TELECONNECTIONS, DROUGHT AND WHEAT YIELD VARIATION IN SOUTH AFRICA		32
16:40-17:00	A. BERAKI	THE ROLE OF THE SOUTHERN ANNULAR MODE IN A DYNAMICAL GLOBAL COUPLED MODEL	11	L. GUASTELLA	EFFECT OF WIND ON NEAR-SURFACE CURRENTS WITHIN THE DURBAN EDDY		31

17:00-18:30	Poster Session - Tea/Coffee/Juice and eats	19:00	Dinner - Conference Room - MARLIN
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PROGRAMME 27 September

PLENERY SESSION -2 : ROYAL PALM		
Chaired by : Prof. Piketh Stuart		
08:30-09:00	Prof. Hassan Bencherif	Ground and Satellite based remote sensing
09:00-09:30	Prof. R. R. Reddy	Spatial heterogeneity in Aerosols
09:30-10:00	Mr. Raven Jimmy	NRF Funding opportunities for Researcher and Students
10:00-10:30	Prof. P. B. Rao	High power VHF radar studies of atmosphere
10:30-10:50	TEA BREAK	

PARALLEL SESSION 4A (ROYAL PALM) : ATMOSPHERIC MEASUREMENTS			Pg.	PARALLEL SESSION 4B (SAILS) : CLIMATE MODELS AND METEOROLOGY		Pg.
Chaired by: Prof. Hassan Bencherif				Chaired by: Dr. Francois ENGELBRECHT		
10:50-11:10	C.Y.WRIEGHT	SOLAR ULTRAVIOLET RADIATION MEASUREMENTS AT SOUTH AFRICAN AND REUNION ISLAND COASTAL SITES: AN INDICATOR OF PUBLIC SUN PROTECTION	13	J.C.J.CRONJE	INVESTIGATING LIMITING CONDITIONS IN MOUNTAIN WAVE ROTOR FORMATION: AN EXPERIMENTAL APPROACH APPLIED TO THE OUTENIQUA MOUNTAINS IN THE GEORGE REGION	14
11:10-11:30	J.R.COETZEE	THE VALUE OF HIGH RESOLUTION BALLOON OZONE SOUNDINGS FROM THE IRENE WEATHER OFFICE IN AIR-POLLUTION STUDIES OVER THE JOHANNESBURG-PRETORIA MEGACITY	31	W.S. CONRADIE	DEFINING THE NONLINEAR, CHAOTIC CLIMATE SYSTEM: IMPLICATIONS FOR MEASUREMENT AND EXPERIMENTS IN A TRANSIENT PERIOD	25
11:30-11:50	E. BECKER	EXPERIMENTING WITH THE RAINBOW BRIGHT-BAND CORRECTION ALGORITHM	38	I. PRETORIUS	A CFD MODEL OF FLOW OVER THE COMPLEX TERRAIN OF MARIEPSKOP, SOUTH AFRICA	22
11:50-12:10	JM. JOSIPOVIC	ATMOSPHERIC BOUNDARY LAYER REDUCTION ENABLED COMPARISON OF REMOTELY SENSED AND SURFACE MEASURED TRACE GAS CONCENTRATIONS OVER SOUTH AFRICA	18	S.STRYDOM	A NEAR REAL-TIME FIRE DANGER INDEX MEASUREMENT SYSTEM	26
12:10-12:30	C. LABUSCHAGNE	CARBON DIOXIDE MEASUREMENTS AT CAPE POINT: RECENT REVALATIONS	30	R. MAISHA	EVALUATION OF WRF AS A METEOROLOGICAL FORECASTING TOOL OVER THE COMPLEX TERRAIN OF SOUTH AFRICA	20
12:30-12:50	T.MOHAMMED	A DUAL LIDAR DEVELOPMENT FOR ENVIRONMENTAL STUDIES IN ALGERIA	26	HERSEY SCOTT	CLOUD CONDENSATION NUCLEI IN THE ARABIAN PENINSULA	16
12:50-14:00			LUNCH BREAK			

PARALLEL SESSION 5A (ROYAL PALM): REMOTE SENSING and METEOROLOGY Chaired by : Prof. P. B. Rao			Pg.	PARALLEL SESSION 5B (SAILS) : CLIMATE and RAINFALL Chaired by: Dr. M. M. Bobabe			Pg.
14:00-14:20	G.N.LONGANDJO	HOW DOES AEROSOL VARIABILITY OVER CENTRAL AFRICA IMPACT TROPICAL ATLANTIC CONVECTION AND RAINFALL?	34	J.M.ATANASIO	ATMOSPHERIC AND OCEAN PATTERNS RESPONSIBLE FOR THE EXTREME RAINS AND FLOODS IN SOUTHERN AFRICA IN JANUARY 2013		29
14:20-14:40	S. LAWAL	ASSESSMENTS OF THE CARBON STORAGE POTENTIAL OF FORESTATION IN SOUTHERN AFRICA	34	T.MUKUNGA	LEARNING TOOLS TO TRY AND ANSWER QUESTIONS: ASSESSING THE ABILITY OF THE GFS FORECASTS TO PREDICT HOURLY SURFACE TEMPERATURE AND RAINFALL AT 5 WEATHER STATIONS IN THE WESTERN CAPE		40
14:40-15:00	C. POWELL	CHARACTERISTICS OF HAILSTORMS OVER THE HIGHVELD OF SOUTH AFRICA	22	C. OLIVER	RIVER-FLOW PRIDITIONS FOR THE SOUTH AFRICAN MID-SUMMER USING A COUPLED GENERAL CIRCULATION MODEL		21
15:00-15:20	C.M.NZOTUNGICIM PAYE	REGIONAL TRANSPORT OF TROPOSPHERIC OZONE FROM TO CAPE TOWN	42	B.VAN DEN BERG	PRECIPITATION CHARACTERISTICS OF THE SOUTH ATLANTIC		27
15:20-15:40	W.SIVLA/Olakunle	THE MID-LATITUDES UPPER THERMOSPHERE DURING THE RECENT SOLAR MINIMUM	25	C. PRINGLE	A CASE OF HEAVY RAINFALL – VALIDATION OF DIFFERENT RAINFALL ESTIMATION TECHNIQUES		23
15:40-16:00 TEA BREAK							

Wrap Up (ROYAL PALM)	
16:00-16:30	SASAS AGM
16:30-16:45	Prize Distribution
16:45-17:00	Thanks (Dr. Nkanyiso Bongumusa Mbatha) and Farewell