

WORLD METEOROLOGICAL ORGANIZATION

CBS TECHNICAL CONFERENCE ON DATA PROCESSING AND FORECASTING SYSTEMS Cairns (Australia), 2-3 December 2002

Conference Director: Angèle Simard (Canada)

PROGRAMME

No.	Time	Papers to be presented	Submitted by
DAY 1, Monday 2 December 2002			
	08:00 - 09:00	Registration Preparation of Posters	
	09:00 - 09:20	Official Opening	
	09:20 - 10:00	Keynote lecture Will it rain? Predictability, risk assessment and the need for ensemble forecasts	David Richardson (ECMWF)
SESSION 1: Ensemble forecasting - the scientific approach <i>Chair: Steve Tracton (USA)</i>			
	10:00 - 10:20	Bureau of Meteorology Medium-Range Ensemble Prediction System	Michael Naughton et al. (Australia)
	10:20 - 10:40	Coffee break	
	10:40 - 11:00	Operational Ensemble Forecasting at the Canadian Meteorological Centre	Richard Verret et al. (Canada)
	11:00 - 11:20	Ensemble Prediction System at NMC/CMA	Hua Tian et al. (China)
	11:20 - 11:40	Short-Range Ensemble Forecasting at Météo-France -A preliminary study	Jean Nicolau (France)
	11:40 - 12:00	Procedures for the choice of sub-ensemble with better use for the climate forecast	Sampaio de Oliveira et al. (Brazil)
Posters (Session 1)			
1.		A model to generate stochastic nowcasts of rainfall	Allan Seed (Australia)
2.		Ensemble global weather forecast at CPTEC	Antonio Mendonça et al. (Brazil)
3.		Ensemble forecasting at the National Centers for Environmental Prediction (NCEP) - Rationale concept and principles	Zoltan Toth et al. (USA)
4.		The sand storms over China and their monitoring and warning system	Jing Xu et al. (China)
5.		POAMA: The Bureau of Meteorology coupled model seasonal forecasting system.	Diana Greenslade et al. (Australia)

SESSION 2: Application of ensemble forecasting systems to real situations: a user perspective
Chair: Bill Bourke (Australia)

	14:00 - 14:20	Ensemble Forecasting at the National Centres for Environmental Prediction (NCEP) - Operational Applications	Steven Tracton et al. (USA)
	14:20 - 14:40	Application of a Limited-area Ensemble Prediction System for Severe Weather Prediction	Kamal Puri et al.(Australia)
	14:40 - 15:00	Seasonal Climate Prediction at CPTec - Some examples of user's experience	Helio Camargo et al. (Brazil)
	15:00 - 15:20	Ensemble regional model forecasts over West Africa	Mahaman Saloum et al. (Niger and USA)
	15:20 - 15:40	Coffee break	
	15:40 - 16:00	The performance of Ensemble Forecast Models in Predicting weather over East Africa	Joseph Mukabana (Kenya)
	16:00 - 16:20	Operational application of the Shenwei Medium-Range Ensemble Prediction System	Henqing Mao et al. (China)
	16:20 - 16:40	The use of Multi-model Ensemble Techniques for Tropical Cyclone Track forecast in the Hong Kong Observatory	Tze-Cheung Lee et al. (Hong Kong , China)
	16:40 - 17:00	Ensemble approach to detailed statistical forecast of surface air temperature	Valentina Khan et al. (Russian Federation)

Posters (Session 2)

1.		Climate prediction at CPTec : The ensemble prediction systems	Sampaio de Oliveira et al. (Brazil)
2.		Evaluation of MM5 NWP model at the Chilean Weather Service in simulation of a precipitation event	Ricardo Alcaful (Chile)
3.		Tornado in the Department of Canelones	Andrés Silva et al. (Uruguay)
4.		Potential for predicting East African seasonal rainfall by using time coefficients of sea surface temperature	Eliphaz Bazira (Uganda)

DAY 2, Tuesday 3 December 2002

SESSION 3: User requirements for severe weather forecasting
Chair: Joseph R. Mukabana (Kenya)

	09:00 - 09:20	Requirements and constraints for Meteorological Services to manage severe weather	Jean Coiffier (France)
	09:20 - 09:40	Filling the void with "Severe Weather Warnings"	Jim Davidson (Australia)
	09:40 - 10:00	Severe weather observation and forecasting system in the territory of Kazakhstan	Olga Abramenko et al. (Kazakhstan)
	10:00 - 10:20	Changing user requirements for severe weather warnings and the response strategies of the Hong Kong Observatory	Chiu-Ying Lam, Edwin W.L. Ginn (Hong Kong, China)
	10:20 - 10:40	Coffee break	
	10:40 - 11:00	User requirements for severe weather forecasting -Cloud burst	Naeem Shah et al. (Pakistan)
	11:00 - 11:20	User requirements for severe weather forecasting in Uzbekistan	Irina Zaytseva (Uzbekistan)

Posters (Session 3)

1.		Severe hydrometeorological events and their fluctuation	Victor Novikov (Tajikistan)
2.		The role of ACMAD in training and capacity building in NWP in Africa	Ali El Majdoub (ACMAD, Niger)
3.		On some aspects of nowcasting of severe weather in the context of India	S.R. Kalsi et al. (India)
4.		Introduction of satellite data in agricultural production campaign	Birama Diarra (Mali)

5.		User requirement for severe weather Forecasting - In Mano River Union countries of West Africa	Alpha Bockari (Sierra Leone)
6.		Severe weather forecast as the major requirement for disaster management	Haroun Abdalla (Sudan)
SESSION 4: Approaches used in forecasting severe weather - Use and interpretation of forecast guidance in severe weather situations Chair: Jean Coiffier (France)			
	11:20 - 11:40	Verification and interpretation of short range NWP model forecasts of cool- and warm-season tornadic thunderstorms in Australia	Graham Mills (Australia)
	11:40 - 12:00	Use of Numerical Weather Prediction Products at the Canadian Meteorological Centre for Forecasting Severe Weather	Denis Bachand, Richard Verret et al. (Canada)
	12:00 - 14:00	Lunch	
	14:00 - 14:20	ECMWF forecasting system in support of severe weather prediction in the medium-range	Horst Böttger et al. (ECMWF)
	14:20 - 14:40	Severe Weather Forecasting; Post-processing NWP outputs and guidance production at the Canadian Meteorological Centre	Richard Verret et al. (Canada)
	14:40 - 15:00	Forecasting thunderstorms over Qatar	Ali Hamed Al-Mulla et al. (Qatar)
	15:00 - 15:20	The current state of Severe Weather Forecasting (excluding tropical cyclones) in the tropics	James Arthur (Australia)
	15:20 - 15:40	Coffee break	
	15:40 - 16:00	Small and large-scale flooding scenarios and the methods used in forecasting severe weather	Willness Minja (Bostwana)
Posters (Session 4)			
1.		Predictability of seasonal rainfall and the associated flood hazards over the Awash catchment	Diriba Korecha (Ethiopia)
2.		Interpretation of hydrodynamic model output to predict severe weather	Marina Zdereva et al. (Russia)
3.		Quantitative precipitation monitoring for flood forecasting and flash flooding	Shaukat Awan (Pakistan)
4.		Classification of severe weather in Brazil based on precipitation analysis	Reinaldo Silveira (Brazil)
5.		Forecast verification in Khartoum Forecast Centre	Sharaf Eldin Hassan Idris (Sudan)
6.		Strategies of nowcasting and forecasting rainstorms in Hong Kong	Edwin Lai (Hong Kong, China)
7.		Use of satellite imagery for study of development of thunderstorm complexes in weakly forced environments	R.C. Bhatia et al. (India)
8.		Severe weather forecasting system in Macao	Antonio Viseu et al. (Macao, China)
9.		Monitoring of extreme weather and climate phenomenon - Regional aspect	Mihail Dardur et al. (Republic of Moldova)
CONFERENCE ENDING			
	16:00 - 16:20	Summary of each session (5 minutes each)	
	16:20 - 17:00	Conference statement and wrap-up	