AGENDA OVERVIEW

	Tuesday 18th	Wednesday 19th	Thursday 20th	Friday 21st
	Operational Centre's plans	Methods	Climate and reanalysis	Non atmos/ocean
	Operational centre's plans		applications	coupling
8h45	Registration	Introduction	Introduction	Introduction
9h	Welcome by	Travis Sluka	Robert Tardif	Mark Buehner
9h15	Marc Pontaud CNRM	U. of Maryland	Univ.of Washington	Env Canada
21.22	Estelle De Coning			
9h30	WMO	Alicia Karspeck	Shuhei Masuda	Clara Draper
9h45	Tom Hamill	NCAR	JAMSTEC	NASA
31143	NOAA			
10h	Datwick Lalayers	Sergey Frolov NRL	Xiasong Yang GFDL	Christoph Keller NASA
	Patrick Laloyaux ECMWF			Akhilesh Nair
10h15	ECIVIVVI			IIT
10520		Andrea Storto		Ayansina Ayanlade
10h30	Xingren Wu	CMCC	Francois Counillon	OAU
10h45	NCEP	Aneesh Subramanian	NERSC/ U of Bergen	Virendra Goswami
	og ff	U. of Oxford		IIT
11h 11h15	coffee break Yosuke Fujii	coffee break	coffee break	coffee break
11h13	JMA			
11h45	Yonghong Yin	Teams break out:	Teams break out:	Teams break out:
12h	вом	Methods, Modeling, and Error Estimation	"Prediction and Reanalysis"	"Observations, Metrics, and Software"
12h15	Daniel Lea	EFFOR ESUMBLION		and Software
12h30	UK MetOffice	lunch	lunch	lunch
12h45			1311011	
13h45	lunch	Daniel Lea U.K. Met Office	afternoon introduction	afternoon introduction
		Craig Bishop	Malaquias Peña	Plenary Discussion:
14h	Santha Akella	NRL	NCEP	"Review of Team
14h15	NASA	Xiangbo Feng	Hiroaki Tatebe	Breakout Session,
141113		Univ. of Reading	JAMSTEC	workshop
14h30	Craig Bishop	Polly Smith	Yiguo Wang	recommendations for
	NRL Hans Ngodok	Univ. of Reading Arthur Vidard	NERSC James While	metrics and future software design"
14h45	NRL	INRIA	UK MetOffice	Software design
15h				coffee break
15h15	coffee break	coffee break	coffee break	Plenary Discussion:
15h30		Amos Lawless Alison	Sebastian Brune	"Review of TPOS-2020,
	Nancy Collins	Fowler U. of Reading	U. of Hamburg	and workshop
15h45	NCAR	Naila Raboudi	Hugues Goosse U. Cath. de Louvain	recommendations for future observing system
131143		KAUST		design"
1 <i>C</i> b		Lars Nerger	Renping Lin	_
16h	Fei Zheng	Alfred Wegener Institute	IAP	End of workshop
16h15	i ci ziiciig	Matthew Carrier	Kuan-Jen Lin	
	Discussion interest and	NRL Discussion introduction	Nat. Central U.	
16h30 16h45	Discussion introduction	Discussion introduction Plenary Discussion:	Discussion introduction Plenary Discussion:	
101143	Plenary Discussion:	"Review of Team Breakout	"Review of Team Breakout	CE (V)
	"Gaps in the overall science	Sessions, workshop	Session, workshop	CO.
	for effective Coupled Data	recommendations for	recommendations for	
	Assimilation."	future modeling and data	future prediction and	
401		assimilation systems."	reanalysis systems."	
18h	Icebreaker		Conference diner	

PROGRAMME

Tuesday 18 October 2016

	Operational Centre's plans
8h45-09h15	Registration
9h15-09h30	Welcome by Marc Pontaud
9h30-9h45	Estelle De Coning: WMO World Weather Research Programme strategic plans for 2016-2023.
9h450-10h00	Tom Hamill: World Meteorological Organization Interests in Coupled Data Assimilation
10h00-10h30	Patrick Laloyaux: CERA-20C: The ECMWF coupled assimilation system for climate reanalysis
10h30-11h00	Xingren Wu: Development of the NCEP Unified Global Coupled System for Weather and Climate Prediction
11h00h11h15	coffee break
11h15-11h45	Yosuke Fujii: Development of a Coupled Atmosphere-Ocean Data Assimilation System in JMA/MRI
11h45-12h15	Yonghong Yin: The Bureau of Meteorology Coupled Data Assimilation System for ACCESS-S
12h15-12h45	Daniel Lea: Met Office implementation of a demonstration operational weakly coupled DA system
12h45-14h00	lunch
14h00-14h30	Santha Akella: Skin SST assimilation using GEOS-ADAS
14h30-14h45	Craig Bishop: The Local Ensemble Tangent Linear Model: an enabler for coupled model 4DVAR
14h45-15h00	Hans Ngodok:Development of a coupled Atmosphere-Ocean 4DVAR system
15h00-15h30	coffee break
15h30-16h00	Nancy Collins: A Generic Implementation of Strongly-Coupled Assimilation in the Data Assimilation Research Testbed Community Facility
16h00-16h30	Fei Zheng: Improved ensemble-;mean forecasting of ENSO events by a zero-mean stochastic error model of an intermediate coupled model
16h30-16h45	Discussion introduction
16h45-18h00	Plenary discussion: "Gaps in the overall science for effective Coupled Data Assimilation."
18h00-20h00	Icebreaker - Courtesy of Centre National de Recherches Météorologiques



Wednesday 19 October 2016

	Methods
8h45-09h00	Introduction
9h00-09h30	Travis Sluka: A strongly coupled ocean-atmosphere EnKF for the Climate Forecasting System v2
9h30-10h00	Alicia Karspeck: The CESM-DART ocean-atmosphere ensemble coupled data assimilation system in weakly and strongly coupled configurations.
10h00-10h30	Sergey Frolov: Is interface solver a way forward for complex coupled systems?
10h30-10h45	Andrea Storto: Strongly coupled data assimilation experiments with a full OGCM and an atmospheric boundary layer model: preliminary results
10h45-11h00	Aneesh Subramanian: Tropical climate variability and model error estimation in a weakly coupled data assimilation system (DART/CESM)
11h00-11h30	coffee break
11h30-12h30	Teams break out : Methods, Modeling, and Error Estimation
12h30-13h45	lunch
13h45-14h00	Daniel Lea: Large-scale error covariances for the ocean component of historical coupled reanalysis
14h00-14h15	Craig Bishop: The Local Ensemble Tangent Linear Model: an enabler for coupled model 4DVAR
14h15-14h30	Xiangbo Feng: Ensemble spreads and coupled error covariances at different time scales from CERA- 20C
14h30-14h45	Polly Smith: An ensemble-variational data assimilation approach for the estimation of coupled atmosphere-ocean forecast error covariances
14h45-15h00	Arthur Vidard: Improving coupled model solution mathematical consistency through data assimilation.
15h00-15h30	coffee break
15h30-15h45	Amos Lawless, Alison Fowler: Coupled atmosphere-ocean variational data assimilation in the presence of model error
15h45-16h00	Naila Raboudi: Ensemble Kalman Filtering with One-Step-Ahead Smoothing for Efficient Data Assimilation into One-Way Coupled Models
16h00-16h15	Lars Nerger: Building Ensemble-Based Data Assimilation Systems for Coupled Models
16h15-16h30	Matthew Carrier: Coupled Ocean-Acoustic Adjoint Sensitivity: Implications for Coupled DA
16h30-16h45	Discussion introduction
16h45-18h00	Plenary discussion: "Review of Team Breakout Sessions, workshop recommendations for future modeling and data assimilation systems."



Thursday 20 October 2016

	Climate and reanalysis applications
8h45-09h00	Introduction
9h00-9h30	Robert Tardif: A multiple timescale coupled atmosphere-ocean data assimilation strategy
9h30-10h00	Shuhei Masuda: Interannual-to-pentadal climate prediction by using a four-dimensional variational coupled data assimilation system
10h00-10h30	Xiasong Yang: A coupled data assimilation system with assimilating surface pressure data
10h30-11h00	Francois Counillon: The Norwegian Climate Prediction Model for seasonal-to-decadal time scale: from weakly to strongly coupled ocean and sea-ice data assimilation
11h00-11h30	coffee break
11h30-12h30	Teams break out: "Prediction and Reanalysis"
12h30-13h45	lunch
13h45-14h00	afternoon introduction
14h00-14h15	Malaquias Peña: EnKF perturbations in coupled models for subseasonal predictions
14h15-14h30	Hiroaki Tatebe: Centennial climate reanalysis using a climate model MIROC with LETKF system
14h30-14h45	Yiguo Wang: Weakly coupled assimilation of temperature and salinity profiles into the Norwegian Climate Prediction Model with ensemble data assimilation
14h45-15h00	James While: Variational bias correction of Sea Surface Temperature observations for coupled data assimilation
15h00-15h30	coffee break
15h30-15h45	Sebastian Brune: Weakly coupled assimilation for decadal prediction with MPI-ESM
15h45-16h00	Hugues Goosse: Southern Ocean variability over the last centuries in coupled data assimilation experiments with particle filtering
16h00-16h15	Renping Lin: Applications of ocean data assimilation into a coupled climate model to East Asian summer monsoon simulations
16h15-16h30	Kuan-Jen Lin: Impact of air-sea interaction on TC forecast: A case study of typhoon Fanapi 2010
16h30-16h45	Discussion introduction
16h45-18h00	Plenary Discussion: "Review of Team Breakout Session, workshop recommendations for future prediction and reanalysis systems."
20h00-22h30	Conference diner at the Cardailhac Restaurant, 21 Rue Perchepinte, 31000 Toulouse (Courtesy of ERACLIM2)



Friday 21 October 2016

	Non atmos/ocean coupling
8h45-09h00	Introduction
9h00-9h30	Mark Buehner: Sea Ice Data Assimilation for Coupled Prediction at ECCC
9h30-10h00	Clara Draper: Incorporating land surface observations into reanalyses: NASA GMAO's MERRA-2, and beyond
10h00-10h15	Christoph Keller: Development of a multispecies data assimilation framework for tropospheric chemistry in the NASA GEOS-5 model
10h15-10h30	Akhilesh Nair: Coupling Radiative Transfer Observation Operator with Land Surface Model for Assimilating Microwave Tb over India
10h30-10h45	Ayansina Ayanlade: Remote sensing data application in assessing seasonality land surface temperature in tropical cities
10h45-11h00	Virendra Goswami: Development of computational correlation predicting models (ccpm) for detoxyfication of green house gases through physico_chemical properties of solid catalysts'.
11h00-11h30	coffee break
11h30-12h15	Teams break out: "Observations, Metrics, and Software"
12h30-13h45	lunch
13h45-14h00	afternoon introduction
14h00-15h00	Plenary Discussion: "Review of Team Breakout Session, workshop recommendations for metrics and future software design"
15h00-15h15	coffee break
15h15-16h00	Plenary Discussion: "Review of TPOS-2020, and workshop recommendations for future observing system design"
16h00-16h15	End of workshop



POSTERS

- Benjamin MENETRIER (CNRM): Optimized localization to filter ensemble-based covariances, applied to a coupled system.
- Patricia de Rosnay (ECMWF): ECMWF land-atmosphere weakly coupled assimilation for Numerical Weather Prediction: status and perspectives.
- Linlin Qi (IAM): Application Studies of Using "HY-2" Altimeter Wave Data in Ensemble Optimal Interpolation Method.
- Eric de Boisseson (ECMWF): Evolution of the ocean in the CERA-20C coupled climate reanalysis.
- Takashi Mochizuki (JAMSTEC): Multiyear climate prediction with initialization- based on 4D-Var coupled data assimilation.
- Jean-Francois Mahfouf (CNRM): Current practice at Météo-France on land data assimilation for Numerical Weather Prediction.
- Olivier Coopmann (CNRM): Towards a strengthening of the coupling of Numerical Weather Prediction (NWP) and Chemistry Transport Models (CTM) to improve the retrieval of thermodynamic fields from infra-red passive sounders.

