

Theme	Time	Title	Authors
	DAY 1		
	9:00	Welcome and logistics Goals for the workshop Introductions	Leif Toudal Pedersen Leif, Frank, Lars-Anders, Tom
	9:30	Validation of a regional coupled ocean/sea ice model in the Nares Strait	Till Rasmussen
	10:00	Development of operational coupled sea ice and ocean model at DMI	Stiig Wilkenskjeld
	10:15	Data assimilation in a regional finite-element Arctic sea-ice model	Ralph Timmermann
	10:45	Break	
	11:15	Parameter sensitivity to assimilation of different data in a sea-ice model using the Ensemble Kalman Filter	Christof König Beatty
	11:45	Assimilation of sea ice observations in a coupled ocean sea ice state estimate of the labrador sea using the adjoint method	I. Fenty
	12:15	Lunch	
	13:30	Discussion: Is there an optimal ice model for all purposes or classes of models that are more appropriate to ice services or climate modelling. How close are we to having a linearized version of a coupled ice-ocean model?	
	14:30	Assimilation of observed and unobserved ocean and sea ice	Lars Axell
	15:00	Break	
	15:30	Variational assimilation of hydrographic and ice concentration observations into a coupled ocean sea ice model of the Arctic	Thomas Kaminski
	16:00	Adjoint analysis of the summer 2007 low in Arctic sea-ice area	Frank Kauker
	16:30	Discussion: Strengths and weaknesses of DA techniques and how each can benefit from the other.	
	DAY 2		
	9:00	An overview of some Environment Canada sea ice data assimilation projects	Tom Carrieres
	9:30	Sea ice thickness categories and their error covariances for assimilation with a three-dimensional variational data assimilation system	Alain Caya
	10:00	Towards the use of high-resolution remote sensing data in a three-dimensional variational analysis system: A collaboration with OSI-SAF	Mark Buehner
	10:30	Break	
	11:00	Assessment of the ECCO2 regional optimized solution in the Arctic	An T. Nguyen

11:30	Discussion: Background error estimation, use of observations, etc. What are main sources of sea-ice background error (i.e. 12-24h forecasts):atmospheric forcing error? ocean forcing error? deficiencies of ice model? uncertain parameters (drag coeff., yield curve)? What fraction of the error can be explained by: ice displacement errors? melt/growth errors?	
12:30	Lunch	
13:30	The joint NSIDC and EUMETSAT sea ice re-analysis	Rasmus Tonboe
14:00	The DAMOCLES project and beyond - recent advances in oceanographic observations in arctic regions and the legacy of IPY oceanography	Jean-Claude Gascard
14:30	Measurements of Arctic sea ice thickness with upward-looking sonars in 2004 and 2007	Joao Rodrigues
15:00	Break	
15:30	OSI SAF SEA Ice products and their use in ocean-ice-model data assimilation	Lars-Anders Breivik
16:00	The met.no ice chart archive	Nick Hughes
16:30	Discussion: can models and data assimilations systems improve the utility of observations and re-analyses	
DAY 3		
9:00	Arctic Wide Ice Motion Estimation from Operational Satellite Imagery : improving the time span and accuracy of low resolution products	Thomas Lavergne
9:30	High resolution Arctic Sea Ice drift	Leif Toudal Pedersen
10:00	Satellite remote sensing of Arctic surface parameters at University of Bremen	Christian Melsheimer
10:30	Break	
11:00	Discussion: Intro by Thomas Lavergne - Satellite derived ice drift is NOT velocity. Operational sources of sea ice drift and thickness, error estimation and representativeness	Thomas Lavergne
12:00	Planning: collaborations, future meetings, etc.	
12:30	Lunch, main meeting ends	
13:30	IICWG IPY Project coordination	