

ECWMF Training Course on Data Assimilation

10-14 March 2014

Timetable

	Monday 10.03.2014	Tuesday 11.03.2014	Wednesday 12.03.2014	Thursday 13.03.2014	Friday 14.03.2014
9:15 - 10:15	Introduction Operational and research activities at ECMWF now/in the future Sarah Keeley	Assimilation Algorithms: (2) 3D-Var Mike Fisher	Assimilation Algorithms: (3) 4D-Var Mike Fisher	Background error modeling and non-Gaussian aspects of data assimilation Elias Holm	Ensemble of Data Assimilations and uncertainty estimation Massimo Bonavita
10:15 - 10:35	COFFEE / TEA				
10:35 - 11:35	Assimilation Algorithms: (1) Basic concepts Mike Fisher	Land surface data assimilation: Soil moisture Patricia de Rosnay	Ocean Data Assimilation, Magdalena Balmaseda	Analysis of Satellite Data Tony McNally	Weak Constraint 4D-Var Yannick Tremolet
11:35 - 11:45	COMFORT BREAK				
11:45 - 12:45	The Global Observing System Stephen English	Diagnostics (1) Self Sensitivity Carla Cardinali	Tangent Linear and Adjoint Angela Benedetti	Ensemble Kalman filters Massimo Bonavita	Diagnostics: (2) Forecast Sensitivity Carla Cardinali
12:45 - 14:00	LUNCH				
	Optional tours: Met Operations Room and Computer Hall				
14:00 - 15:00	Land surface data assimilation:screen level parameters and snow Patricia de Rosnay	Data Assimilation of Atmospheric Composition Antje Inness	Toy Model Practice OR Session (1) Mike Fisher, Yannick Tremolet, Martin Leutbecher	Parameterization and Data Assimilation Philippe Lopez	Re-Analysis Paul Poli
15:00 - 15:30	COFFEE / TEA				
15:30 - 16:30	Aspects of using observations in data assimilation Lars Isaksen	Quality Control of observations Elias Holm Followed by cocktails	Toy Model Practice OR Session (2) Mike Fisher, Yannick Tremolet, Martin Leutbecher	Bias Correction Hans Hersbach	Question/answer session Elias Holm, Lars Isaksen, Tony McNally, Mike Fisher Course evaluation 16:00-16:30 Sarah Keeley