



TRAINING COURSE

Data Assimilation

12–16 March 2018

	Monday 12 March	Tuesday 13 March	Wednesday 14 March	Thursday 15 March	Friday 16 March
09:15-10:15	Introduction Andy Brown, Sarah Keeley	Assimilation Algorithms: (3) 4D-Var Sebastien Massart	Assimilation Algorithms: (5) Hybrid Data Assimilation methods Massimo Bonavita	Bias correction methods Niels Bormann	Land Data Assimilation Patricia de Rosnay
10:15-10:45		<i>Coffee break</i>			
10:45-11:45	Overview of Assimilation Methods Massimo Bonavita	Analysis of radiance observations Tony McNally	Reanalysis methods Patrick Laloyaux	Quality Control of observations Elias Holm	Ocean Data Assimilation Hao Zuo
11:45-11:55		<i>Comfort break</i>			
11:55-12:55	Assimilation Algorithms: (1) Basic concepts Sebastien Massart	Assimilation Algorithms: (4) Ensemble Kalman filters Massimo Bonavita	Data Assimilation Diagnostics – Forecast Sensitivity Cristina Lupu	Model error in Data Assimilation Patrick Laloyaux	Data Assimilation of Atmospheric Composition Antje Inness
13:00-14:15		<i>Lunch break</i>			
14:15-15:15	Conventional and actively sensed observations Lars Isaksen	Tangent Linear and Adjoints Angela Benedetti	Background error modelling in Data Assimilation Elias Holm	Parameterization and Data Assimilation Philippe Lopez	Coupled Data Assimilation: opportunities and challenges Phil Browne
15:15-15:45		<i>Coffee break</i>			
15:45-16:45	Assimilation Algorithms: (2) 3D-Var Sebastien Massart <i>16:45 Tour of Weather room 17:15 Ice breaker</i>	<i>Practical Session:</i> Tangent Linear and Adjoints Angela Benedetti <i>16:45 Tour of Computer Hall</i>	<i>Practical Session until 17:15:</i> DA experiments with OOPS Marcin Chrust, Sebastien Massart, Patrick Laloyaux	<i>Practical Session until 17:15:</i> DA experiments with OOPS continued Marcin Chrust, Sebastien Massart, Patrick Laloyaux	Final Discussion and Questions and Answers M. Bonavita, E. Holm, L. Isaksen, S. Massart, P. Laloyaux