

Les Houches summer school on  
**Advanced data assimilation for geosciences**  
28 May 2012 – 15 June 2012

Updated!

Week 1

Tuesday, May 29, 2012

08:30-09:00	Welcome and foreword	The organisers
09:00-10:30	Kalman filters (I)	Snyder
11:00-12:30	4D-Var (I)	Talagrand/Blayo
17:30-19:00	Errors: specification (I)	Berre/Desroziers
19:00-20:00	Pot de bienvenue (ice-breaker)	

Wednesday, May 30, 2012

09:00-10:30	Kalman filters (II)	Snyder
11:00-12:30	4D-Var (II)	Talagrand/Blayo
17:00-17:30	Overview of computer training sessions.	Debreu
17:30-19:00	Errors: specification, filtering (II)	Berre/Desroziers
20:30-21:30	Participants short presentation of posters	

Thursday, May 31, 2012

09:00-10:30	Kalman filters (III)	Snyder
11:00-12:30	4D-Var (III)	Talagrand/Blayo
17:30-19:00	Observation and information (I)	Cardinali

Friday, June 1, 2012

09:00-10:30	Computer training on toy models (I)	Debreu et al.
11:00-12:30	Computer training on toy models (II)	Debreu et al.
15:00-16:30	Observation and information (II)	Cardinali

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**Week 2**

Monday, June 4, 2012

09:00-10:30	Kalman filters (IV)	Snyder
11:00-12:30	4D-Var (IV)	Talagrand/Blayo
17:30-19:00	Observation and information (III)	Cardinali
20:45-21:45	Seminar: Subsurface characterisation	Hanea

Tuesday, June 5, 2012

09:00-10:30	Data assimilation in meteorology (I)	Rabier/Fisher
11:00-12:30	Kalman filters (smoothers) (V)	Cosme
17:30-19:00	Errors: A posteriori diagnostics (III)	Talagrand

Wednesday, June 6, 2012

09:00-10:30	Localisation, bias, adaptive approaches, model error (I)	Houtekamer
11:00-12:30	Data assimilation in meteorology (II)	Rabier/Fisher
17:30-19:00	Localisation, bias, adaptive approaches, model error (II)	Houtekamer

Thursday, June 7, 2012

09:00-10:30	Inverse modelling and parameter estimation (I)	Bocquet
11:00-12:30	Localisation, bias, adaptive approaches, model error (III)	Houtekamer
17:30-19:00	Data assimilation in meteorology (III)	Rabier/Fisher
20:45-21:45	Seminar: Greenhouse gas fluxes inversion	Chevallier

Friday, June 8, 2012

09:00-10:30	Computer training: larger scale application (I)	Cosme et al.
11:00-12:30	Computer training: larger scale application (II)	Cosme et al.
15:00-16:30	Inverse modelling and parameter estimation (II)	Bocquet

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Week 3

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Monday, June 11, 2012

09:00-10:30	Multiscale data assimilation (I)	Debreu
11:00-12:30	Data assimilation in atmospheric chemistry and air quality (I)	Elbern
16:15-17:45	4D-Var (Adjoint computation. Automatic differentiation) (V)	Hascoët
18:00-19:50	France – England (assimilation of beer ?)	TV

(Dinner at 20:00)

Tuesday, June 12, 2012

09:00-10:30	Particle filtering (I)	van Leuween
11:00-12:30	Multiscale data assimilation (II)	Bocquet
17:30-19:00	Data assimilation in atmospheric chemistry and air quality (II)	Elbern
20:45-21:45	Seminar: glaciology	Nodet

Wednesday, June 13, 2012

9:00-10:30	Data assimilation in large scale oceanography (I)	Fukumori
11:00-12:30	Pot-pourri: inflation, R matrix	Snyder/Cosme/Bocquet
17:15	Tentative sunny group photograph	
17:30-9:00	Particle filtering (II)	van Leuween

Thursday, June 14, 2012

09:00-10:00	Assimilation of Lagrangian data and images (I)	Vidard
10:00-10:30	Seminar : surf zone data assimilation and bathymetric inversion	Greg Wilson
11:00-12:30	Data assimilation in coastal oceanography (II)	Zavala-Garay
17:15-18:15	Seminar: Assimilation, instabilities and chaos	Talagrand
18:30-21:30	Cocktail and dinner	

Friday, June 15, 2012

09:00-10:30	Assimilation of Lagrangian data and images (II)	Vidard / Nodet
11:00-12:30	Biogeochemical ocean data assimilation (III)	Brasseur