

Crash Course on Data Assimilation

*Theoretical foundations and advanced applications with focus on ensemble methods
NERSC – Bergen, Norway, 6 – 9 June 2017*

Program

	Tuesday 6th June	Wednesday 7th June	Thursday 8th June	Friday 9th June
08:30 – 09:00	<i>Opening & Welcoming</i>			
09:00 – 10:45	<i>Geir Evensen</i>	<i>Laurent Bertino</i>	<i>François Counillon</i>	<i>Remus Hanea</i>
10:45 – 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 – 13:00	<i>Geir Evensen</i>	<i>Laurent Bertino</i>	<i>Annette Samuelsen</i>	<i>John Harlim</i>
13:00 – 14:00	Lunch buffet @ Vilvite Center	Lunch buffet @ Vilvite Center	Lunch buffet @ Vilvite Center	Lunch buffet @ Vilvite Center
14:00 – 15:45	<i>Patrick Raanes</i>	<i>Alberto Carrassi</i>	<i>Mikhail Sofiev</i>	<i>Peter Jan van Leeuwen</i>
15:45 – 16:15	Coffee Break	Coffee Break with poster session	Coffee Break	Coffee Break with poster session
16:15 – 18:00	<i>Patrick Raanes</i>	<i>Discussion & Questions from the first 2 days (chaired by Alberto Carrassi)</i>	<i>Jesper Mariegaard</i>	<i>Discussion & Questions from the last 2 days (chaired by Laurent Bertino)</i>
19:00 -			<i>Social Dinner @ Hotel Augustin</i>	

- **Geir Evensen** (IRIS & NERSC, Norway): Basic principles of inference and theory of variational and sequential Gaussian analysis, EnKF fundamentals
- **Laurent Bertino** (NERSC, Norway): Background statistics, spatial covariances, anamorphosis for non Gaussian variables
- **Alberto Carrassi** (NERSC, Norway): Data assimilation for chaotic dynamics
- **Francois Counillon** (NERSC, Norway): Data assimilation for climate prediction
- **Remus Hanea** (STATOIL, Norway): Data Assimilation for oil reservoirs
- **John Harlim** (PSU, USA): Model error in data assimilation
- **Jesper Mariegaard** (DHI, Denmark): Operational assimilation for sea-level and tides
- **Patrick Raanes** (NERSC, Norway): Tutorial on data assimilation using Python
- **Annette Samuelsen** (NERSC, Norway): Data assimilation for the ecosystem
- **Mikhail Sofiev** (FMI, Finland): Data assimilation for chemical transport and aerosol
- **Peter Jan van Leeuwen** (Un. of Reading, UK): Particle filters

Venue: The lectures will take place at NERSC premises located in Thormøhlens gate 47, N-5006 Bergen

Lunches: The lunches will be offered at Vilvite center (5min walking distance from NERSC)