

Schedule of the 2021 Crash Course on Ensemble Data Assimilation

Times (CET)	Monday 31 st May	Tuesday 1 st June	Wednesday 2 nd June	Thursday 3 rd June	Friday 4 th June
9:00 – 9:30	Welcome, test connection				
9:30 – 10:45	Geir Evensen Basic principles of inference and theory of variational and sequential Gaussian analysis, EnKF fundamentals – Part I	Laurent Bertino Background statistics, spatial covariances, anamorphosis for non- Gaussian variables – Part I	Yue (Michael) Ying Data assimilation for multiscale systems	Pico Session 4, students presentations (7)	Rosella Arcucci (ML-DA) Data Assimilation with Machine Learning
10:45 – 11:00	Break	Break	Break	Break	Break
11:00 – 12:00	Geir Evensen Part II	Laurent Bertino Part II	Julien Brajard Principles of Machine Learning	François Counillon Data assimilation for climate prediction	Alberto Carrassi Data assimilation for chaotic dynamics
12:00 – 13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00 – 14:15	Geir Evensen Practical exercises on iterative methods. COVID-19 forecasts	Pico Session 1, students presentations (7)	Julien Brajard Practical exercises in Machine Learning	Annette Samuelsen Data assimilation for the ecosystem	Debrief Q&A session all tutorials
14:15 – 14:30	Break	Break	Break	Break	Break
14:30 – 16:00	Patrick Raanes Tutorials on data assimilation	Pico Session 2, students presentations (7)	Pico Session 3, students presentations (7)	MoHa el Gharamti Data Assimilation in Hydrology and Streamflow forecasting	