

Announcement of Lectures and Practical Work

**Data assimilation**  
(Master Elective Module T6)

- Lecturer: J. Quaas
- Location: Seminar room Vor dem Hospitaltore and CIP-Pool, Talstraße 35
- Time: Wednesday 13.15 – 15.30  
(8 Lectures, 6 April – 8 June; 4 courses Practical work 16 – 29 June;  
2 Presentations, 6 – 13 July 2021)
- Start: Wednesday, 6 April 2022
- Topics: Combination of modelling and observations, Statistical basics,  
Objective analysis, cost function, Kalman filter, Variational assimilation
- Remark: Some or all of the lectures will be taught in English, depending on the  
attendants
- Exams: The exam for this class is an oral presentation about the practical work and a  
short written report.
- Moodle: <https://moodle2.uni-leipzig.de/course/view.php?id=37459>
- Literature: Evensen, Data Assimilation, Springer, 2009, 307pp.  
Kalnay, Atmospheric Modeling, Data Assmilation and Predictability,  
Cambridge University Press, 2003, 341 pp.  
Talagrand, O., Assimilation of Observations, an Introduction, J. Meteorol. Soc.  
Japan, 75, 191-209, 1997.  
Data Assimilation Research Testbed (DART),  
<http://www.image.ucar.edu/DAReS/DART/>