Data Assimilation & ML Training Course Q&A

- Our goal this week has been to provide you with a structured introduction to current DA methods for Earth System assimilation and an overview of their main application areas in operational NWP: your feedback is important to us!
- Machine Learning techniques are becoming more common in DA as in other parts of the NWP workflow
- Whether ML will become an additional set of tools in the standard DA workflow or will upend the field (e.g. DOP!) remains to be seen
- Either way, DA is changing rapidly, and it is a fascinating area to work in!

- Where to look for material about current topics and discussion:
 - ECMWF Annual Seminar 2018: Earth System Assimilation (https://www.ecmwf.int/en/learning/workshops/annual-seminar-2018)
 - ECMWF Annual Seminar on Observations (2021) (https://events.ecmwf.int/event/217/)
 - ECMWF Annual Seminar on Reanalysis (2023) (https://events.ecmwf.int/event/326/)
 - ECMWF Annual Seminar 2025, with dedicated Data Assimilation Workshop (https://events.ecmwf.int/event/428/)

- Where to look for material about current topics and discussion:
 - ECMWF-ESA Workshops on Machine Learning for Earth System Observation and Prediction (2020/1/2; presentations online)
 - Latest edition at ESA-ESRIN (Rome), 7-10 May 2024 (https://www.ml4esop.esa.int/)
 - Next edition in Bologna 13-17 April 2026

- Where to look for material about current topics and discussion:
 - International Symposium on Data Assimilation (ISDA): quasi-yearly in person event
 - Bologna, 16-20 Oct 2023; https://eventi.unibo.it/isda2023)
 - Kobe, 21-25 Oct 2024; https://www.data-assimilation.riken.jp/isda2024/#15/34.65479/135.22148
 - International Symposium on Data Assimilation Online (running series with various thematic events: https://isda-online.univie.ac.at/)

Thank you!

Questions?

