X-WALD
Avionic X-band Weather signal modeling and processing vALidation through real Data acquisition and analysis

Main X-WALD achievements:

- Two different aircrafts
- Radar selection and upgrade
- Polarimetric radar data processing
- Optimization and validation of the avionic polarimetric radar signal simulator (CleoSim),
- Refinement and validation of the EFB weather radar signal processing and trajectory optimization algorithms
- EFB GUI upgrade and SW refinement

SUMMARY: First European measurement campaigns with a polarimetric weather radar. X-BAND polarimetric radar selection, update and setup. Refinement and validation of the avionic polarimetric radar signal simulator (CleoSim). Refinement and validation of the EFB weather radar signal processing and trajectory optimization algorithms for improving hazard awareness in flight, reducing the pilot’s workload and reducing the polluting emission in atmosphere.

www.cleansky.eu