Working group 1: Radar data

Survey
Discussion points

Radar working group

- Who are running assimilation experiments?

- Who are using CONRAD?
  - Cartesian coordinates
  - Polar coordinates

- Who are using OPERA data?
  - HDF5
  - BUFR

- What quality control is used?
  - BALTRAD toolbox
  - INCA
  - Other

Discussion points

- Preprocessing of radar data
    - In a COPE-perspective
    - Data thinning or super observation construction
    - Cartesian or polar projection

- Quality control
    - Undetected vs nodata
    - What can we learn from different QC packages
    - Can we give feedback

- Radar data exchange
    - Operational data exchange
    - Content of the OPERA files

Discussion points

- Radar data assimilation

  - The importance of structure functions
  - Observation errors
  - Two versions of polar bator – merge to one or remove the HIRLAM version
  - ODIM_H5 reader
  - Assimilation of clear sky data (radar sensitivity and constant)
  - The use of low elevations

- Coordinated impact study

  - Comparison of results

- Assimilation of radar data in HARMONIE 4D-Var framework

  - First tests performed

Long term

- Radar data assimilation
  - Utilize dual polarization data
  - X-band radars

- COPE and OOPS
  - How will this affect the radar assimilation?

- Quality control
  - Use more of the quality flags in the NWP model?

- Radar data exchange
  - Through OPERA