Description of 2 trajectory models used within EARLINET (technical poster)

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DWD trajectories

4-day backward trajectories
- calculated on a 3-dimensional grid
- arrival times: 13 and 19 UT (approximately at times of routine measurements)
- arrival pressure levels: 975, 850, 700, 500, 300, and 200 hPa
- data base: GME model of the DWD
- available for all 20 EARLINET stations (http://earlinet.tropos.de:8084)
- available since May 2000

More than 40000 data sets

Interpretation of measurements during special events: Example

U. Wandinger: Aerosol modification over Europe

Major Saharan dust outbreak on August 2-3, 2001

Statistical analysis of routine measurements: Example

FLEXTRA trajectories

10-day backward trajectories
- calculated on a 3-dimensional grid
- time resolution: 3 hours
- height resolution: 250 m between 0 and 10 km
- data base: ECMWF model of Andreas Stohl
- available for all 20 EARLINET stations on request
- available for special events

About 3000 data sets

Interpretation of measurements during special events: Example

Major Saharan dust outbreak on August 2-3, 2001

Backscatter coefficient at 532 nm observed at Leipzig on August 2-3, 2001

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