



Royal Netherlands
Meteorological Institute
*Ministry of Infrastructure
and Water Management*

Fog discussion meeting

Sander Tijm



Fog Side Meeting

Presentation Salome Antoine: Sofog3D experiment

Presentation Sander Tijm: more results from Cabauw fog study

Other presentations?

Discussion (topics on next slides)



Discussion topics: understanding fog problems

- what are the different problems with fog in the different countries
- is there a difference between AROME/HARMONIE-AROME/ALARO?
- what is the cloud water amount in fog (Mazoyer et al, 2019 shows 0.01-0.06 g/kg at start of fog), exchange of observations (current and past)
- is the impact of a single layer with cloud water on long wave radiation too strong?
- is the too strong cooling of fog causing the too large horizontal extent?



Discussion topics: finding solutions for fog problems

- can we learn from an intercomparison of different physics packages (AROME/HARMONIE-AROME/ALARO)?
- impact of surface
- impact of turbulence
- impact of microphysics, impact of LIMA?
- impact of radiation
- impact of vertical resolution
- what processes can help with reducing the fog problems?



Discussion topics: way forward

- Intercomparison: 1D/3D/real/academic?
- Should we organize a fog meeting/working days/working week?