RealPEP-SINFONY-Meeting 11-12 May 2020

Location: DFN Room

Time frame: 20 min. talks + 10 min. discussion

Monday 11 May 2020

9:00-10:00 **RealPEP: Multi-Sensor Compositing for Hydrometeor Classification, High-Impact Weather, Nowcasting and Data Assimilation**

- **René Preusker, Cintia Carbajal Henken (Berlin):** Satellite retrievals of integrated water vapour and clouds
- **Eskender Haziiev (Bonn):** First steps in using POLARA for quality control and compositing

10:00-11:00 **RealPEP: Physics-based QPE using polarimetric radars and commercial microwave links**

- **JuYu Chen (Bonn)**: Status on the QPE-products provided for RealPEP and outlook
- **Julius Polz (KIT-Alpin):** Improving QPE with commercial microwave links: First results and upcoming challenges

--- Coffee Break / time buffer for DFN problems ---

11:30-12:00 **RealPEP: Object-based weather analysis and Nowcasting (QPN)**

- **Ricardo Reinoso Rondinel (Bonn):** Probabilistic Nowcasting: Insight into a global-based and an object-based approach

12:00-12:30 **SINFONY: Project-Overview and SINFONY Nowcasting activities**

- **Ulrich Blahak (DWD):** SINFONY status and Nowcasting activities

---- Lunch break / time buffer for DFN problems ----

13:30-14:00 **SINFONY:**

- **Martin Rempel (DWD):** Combined Nowcasting-NWP-ENS seamless gridded precipitation forecast products

14:00-15:00 **RealPEP: Assimilation of polarimetric information and observation-based nowcasted fields in numerical weather prediction**

- **Lucas Reimann (Bonn):** Towards the Assimilation of Polarimetry-Derived Hydrometeor Mixing Ratios in Germany
- **Klaus Vobig (DWD):** Assimilation of Radar Data at the DWD---Current Status and Developments

15:00-15:30 **General Discussion**

Tuesday 12 May 2020

9:00-10:00 am **SINFONY:** Assimilation of new high-resolution observations in ICON-LAM

- **Christian Welzbacher (DWD):** Radar data assimilation in ICON for SINFONY
- **Liselotte Bach (MetBW):** Assimilation of visible satellite channels in ICON for SINFONY

10:00-10:30 am **RealPEP: Evaluation of QPE and QPN improvements in a flash flood nowcasting framework with data assimilation**

- **Thomas Poméon (Jülich):** Nowcasting flash floods and steps towards a universal radar validation framework

--- Coffee Break / time buffer for DFN problems ---

11:00 – 12:00 **Discussion on SINFONY-RealPEP interactions**

---- Lunch break / time buffer for DFN problems ----

1:00-2:30 **Discussions on the joint RealPEP paper and preparation for Phase 2**