**RealPEP-SINFONY-Meeting 9-10 December 2019**
**Location: German Weather Service (DWD), Frankfurter Strasse 135, 63067 Offenbach a. M., Conference Area, Green Room**

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

**Monday**

2:00-3:00 pm **RealPEP: Physics-based QPE using polarimetric radars and commercial microwave links (**PIs: Trömel, Chwala, Kunstmann, Simmer**)**
- **JuYu Chen (Bonn)**: Optimized Specific-Attenuation-Based Algorithm for Radar Quantitative Precipitation Estimation at C-band in Germany
- **Julius Polz (KIT-Alpin):** Improving QPE with commercial microwave links: First results and upcoming challenges

3:00-3:30 pm **RealPEP: Object-based weather analysis and Nowcasting (QPN)**
**(**PIs: Trömel, Simmer**)**
**Ricardo Reinoso Rondinel (Bonn):** Probabilistic Nowcasting: Insight into a global-based and an object-based approach

3:30-4:00 pm **SINFONY: STEPS-Nowcasting (QPN)**
- **Markus Schultze (DWD)**

**Coffee Break**

4:30-5:00 pm **SINFONY: Object-based-Nowcasting (QPN)**
- **Ulrich Blahak, Robert Feger (DWD)**

5:00-6:00 pm **RealPEP: Assimilation of polarimetric information and observation-based nowcasted fields in numerical weather prediction (**PIs: Potthast, Simmer, Trömel**)**
- **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

 **Joint dinner at restaurant nearby**

**Tuesday**

9:00-9:30 am **SINFONY: Radar data assimilation**
- **Christian Welzbacher (DWD)**

9:30-10:00 pm **SINFONY: Seamless Combination of Objects from NWC-EPS and NWP-EPS**
- **Rafael Posada (DWD)**

<u>10:00-10:30 am</u> **RealPEP: Evaluation of QPE and QPN improvements in a flash flood nowcasting framework with data assimilation (PIs:** Furusho, Kollet, Hendricks, Franssen)

- **Harrie-Jan Hendricks-Franssen (Jülich):** Performance of the physically-based ParFlow hydrological model in a flash-flood nowcasting framework

**Coffee Break**

<u>11:00-12:00 pm</u> **RealPEP: Multi-Sensor Compositing for Hydrometeor Classification, High-Impact Weather, Nowcasting and Data Assimilation (PIs:** Trömel, Simmer, Preusker, Fischer)

- **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

<u>12:00 pm – 1:00 pm</u>
**Joint dinner at DWD canteen**

<u>1:00-2:30 pm</u> **Breakout groups on POLARA, Nowcasting, Seamless Prediction, Assimilation**

<u>2:30 pm:</u> **Report from the Breakout groups and plenar discussions on data requirements, overarching time schedule, outreach, cooperations**

**4:00 pm: The End**