AG TERRA @ DWD, 2019-11-06

- Presentation by Carsten Montzka (FZ Jülich): **Scaling Soil Hydraulic Properties - From texture to optimized MvG parameters**

  o Interesting to follow activities in ISMC (International Soil Moisture Community)
  o Scaling of moisture retention curve is often inadequate - could result in +/- 10Vol% soil moisture bias for models
  o With advent of machine lerning technics dynamic development of new soil data (SoilGrids, OpenlandMap.org, Polaris CONUS)
  o Pedotransfer functions are critical to derive the soil physical properties - large impact on infiltration and evaporation fluxes
  o Variability introduced by PDF in predicted fluxes is even large for extreme events
  o Adressed the problem of subgrid variability - downscaling of coarse remote sensing products for soil moisture

- ToDo for COSMO: Implementation of the method in EXTPAR, Adapt TERRA in ICON