Sea Ice Concentration – operational today

- Sea ice concentration ECV is established as an operational system
- CCI sea ice team collaborates with EUMETSAT OSISAF, which will ”take over” the operational system for processing SMMR+SSM/I+SSMIS. Next release of SIC ECV (late 2016). The CCI team will produce SIC from AMSRe+AMSR2
- CCI and OSISAF will use the same algorithm base, same software, same team operating the software, joint validation, etc…
- The operational system includes regular reprocessing (CDR), extension in 1-month delayed mode (ICDR), initial validation, documentation, review cycles, version control, DOIs, Long-Term Archiving, etc…

Sea Ice Concentration «R&D» work

- Every single part of the SIC algorithm requires more efforts to increase accuracy towards GCOS goals, including enhanced understanding of uncertainties
- In addition: the sea ice team has started to assess “snow-depth on sea ice” and “sea ice drift”. These will need further R&D in order to be possible new sea ice ECVs.

Sea Ice Thickness operational ?

- CryoSat thickness processing will be operational during SICCI2
- Ice thickness from ERS and ENVISAT will be provided as a timeseries for the Arctic < 82N,
- Accuracy depends on input data on snow and ice type
- Antarctic sea ice thickness is more complicated to retrieve compared to the Arctic
- R&D work is needed to quantify uncertainties