

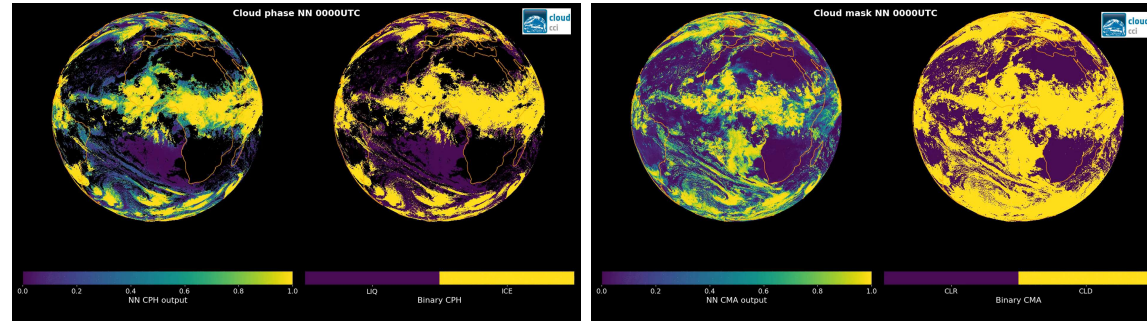
About Cloud_cci+ The goal of the ESA Cloud_cci+ is the improvement of retrieval algorithms and processing concepts and implementations, and the development of two novel data sets based on measurements from the Spinning Enhanced Visible and Infrared Imager (**SEVIRI**) and from Sea and Land Surface Temperature Radiometer (**SLSTR**). This goes a long way with exploiting the additional spectral and temporal information available from SEVIRI and SLSTR compared to the AVHRR heritage channels used previously in Cloud_cci

List of cloud properties retrieved:

- Cloud mask / Cloud fraction
- Cloud phase
- Cloud optical thickness
- Cloud effective radius
- Cloud top pressure/height/temperature
- Cloud liquid water path/ Ice water path
- Joint cloud property histogram
- Spectral cloud albedo
- Cloud effective emissivity
- Top of atmosphere upwards/downwards flux
- Top of atmosphere upwards/downwards flux – clear-sky
- Bottom of atmosphere (surface) upwards/downwards flux
- Bottom of atmosphere (surface) upwards/downwards flux – clear-sky

Latest results

- Revisiting SEVIRI Cloud Detection and Phase Determination using state-of-the-art Neural Networks



- Validating SLSTR LWP with AMSR2

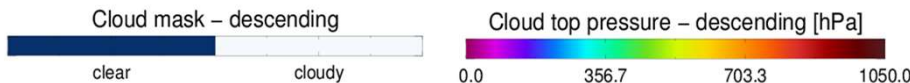
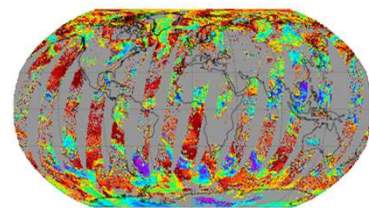
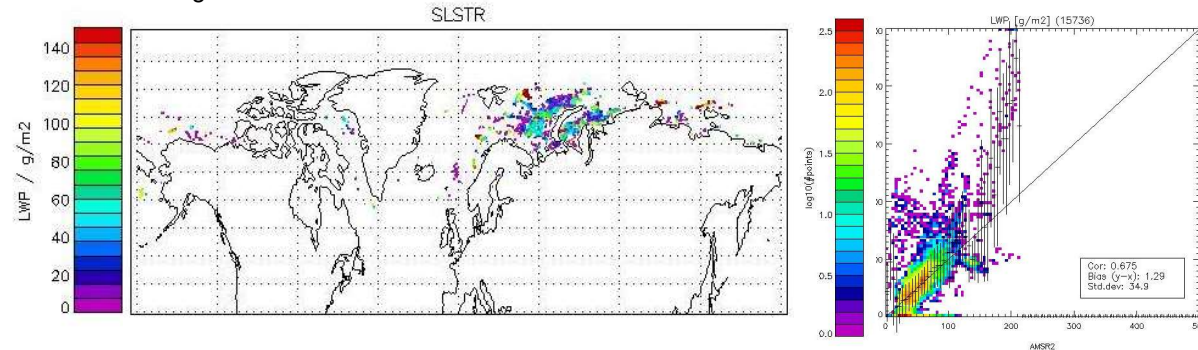


Figure: Examples for CC4CL applied to SLSTR: cloud mask L3U (left) and cloud top pressure (right) for 2017/08/22.

Project consortium

The project consortium of Cloud_cci+ consists of Deutscher Wetterdienst (DWD, lead), the Rutherford Appleton Laboratory (RAL) and the University of Oxford. The Project will cover three years and is expected to kick-off soon.



DWD, Offenbach, Germany (martin.stengel@dwd.de)



Slide 1/4 - This presentation loops automatically through its 4 slides – stay tuned!
Please put your questions into the chat. I'll address them when I am back.