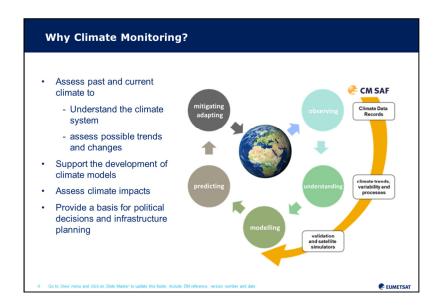
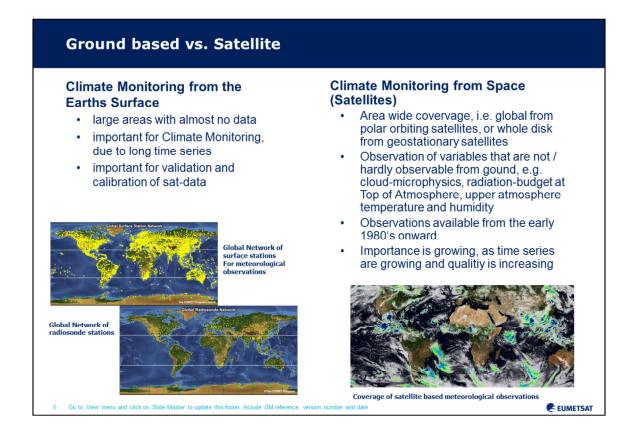




Climate vs. Weather Climate Weather Status of the atmosphere at a certain point in time and space Mean status of the atmosphere over a reasonably long period of time



With it's data sets and services the CM SAF contributes to entire cycle of observing, understanding, and modelling the climate to provide a scientifically sound basis for decission making.



Ground based (in situ) observations still form an important data basis, due to the long time span they are covering. In addition, they are crucial to validate and calibrate satellite derived information.

Satellite observations are becoming more and more important in climate monitoring and climate science as their quality improves and as they now cover time series of several decades. Furthermore, satellite based data provide information about regions with no or only sparsly available ground based observations. In addition, variables such as cloud microphyiscal parameter or the radiation budget at the top of the atmosphere (an important variable to evaluate the energy balance of climate models), are not available from ground measurements.