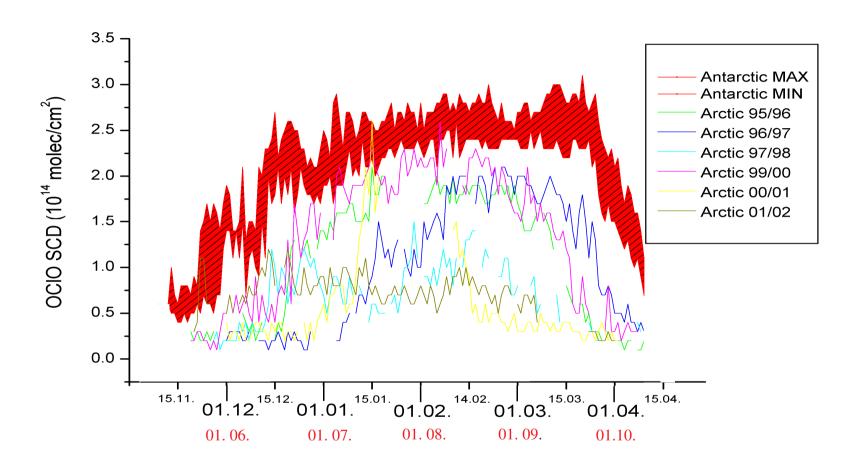


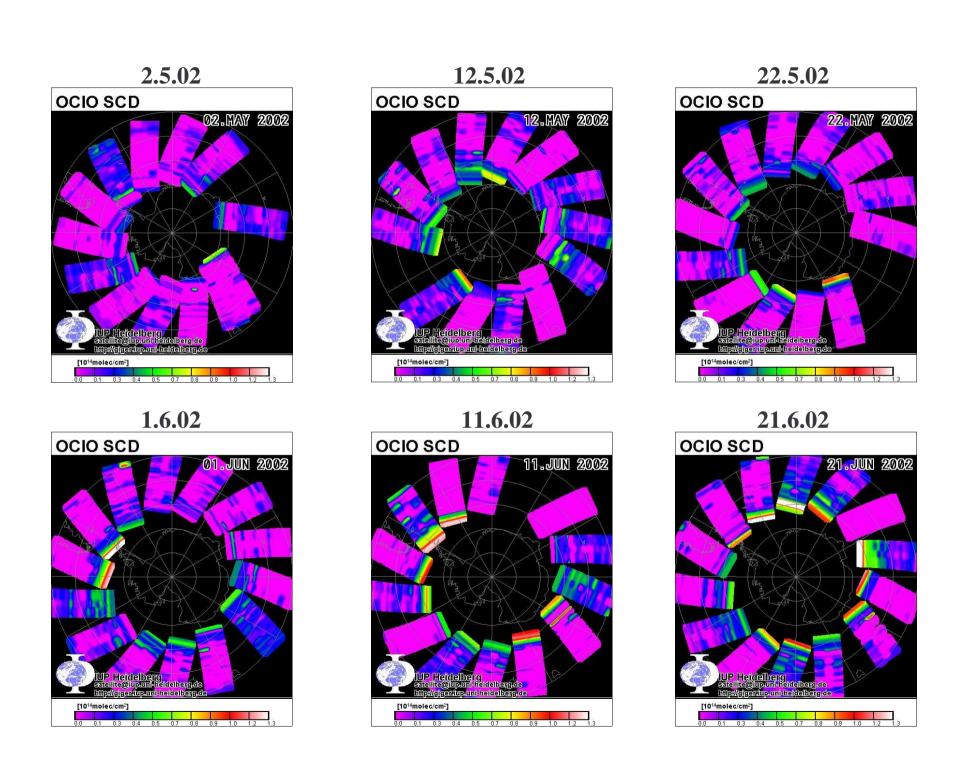
Motivation

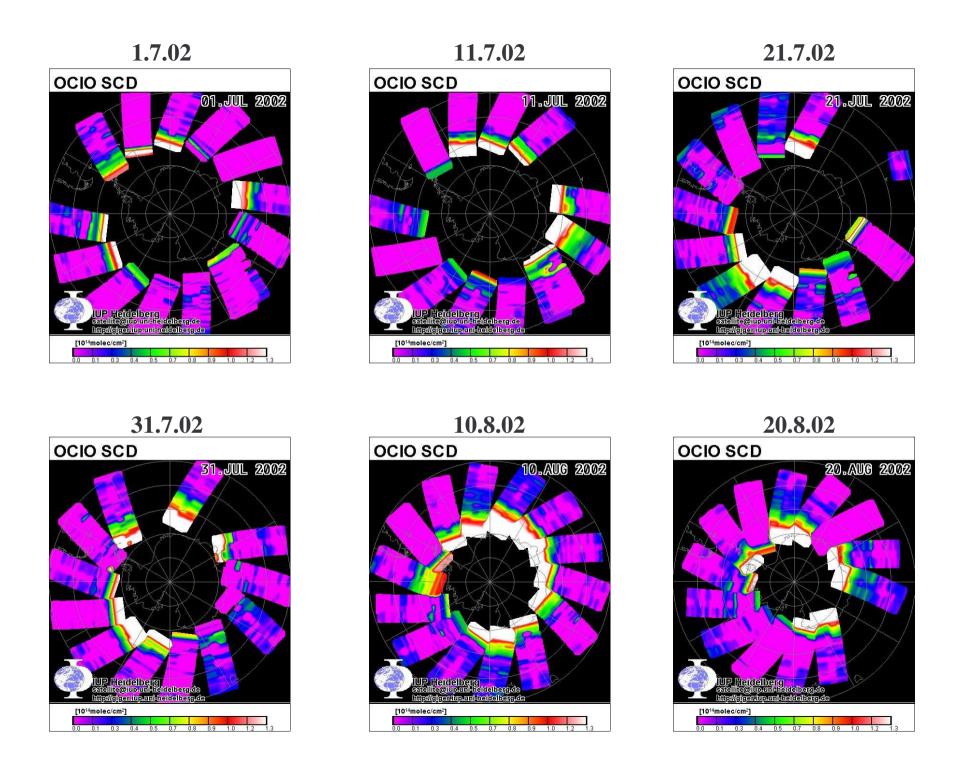
- q OClO is an indicator for stratospheric chlorine activation
- q so far monitoring of the *arctic* chlorine activation from 1995-2002
- aim: research also on the *antarctic* chlorine activation
 - monitoring of OClO: get a temporal and spacial overview of the long term evolution of the chlorine activation
 - onditions and chlorine activation in the antarctic polar vortex
 - studies of local effects (e.g. mountain waves)
 - comparison with data measured by other satellites (ODIN)

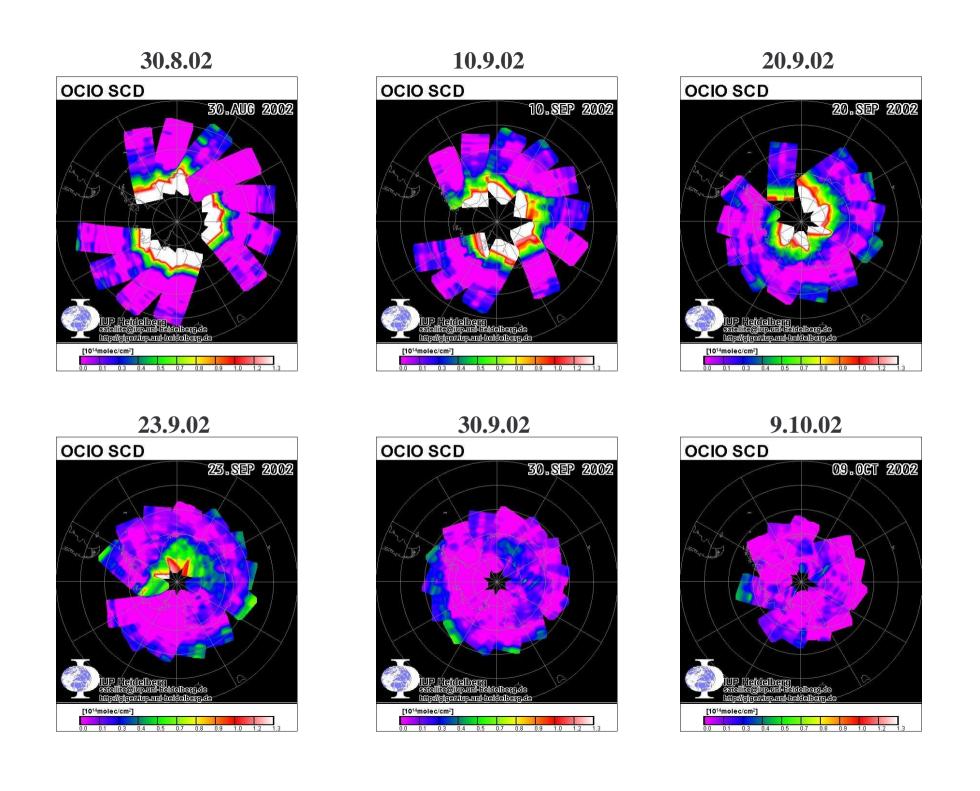
Comparison: Arctic -Antarctic



Comparison of the maximum daily *OClO*-SCD (SZA=90°) measured over the Arctic and the Antarctic in all consecutive winters from 1995 to 2002. The Antarctic values are represented by an envelope of all winters; for comparison with the measurements over the Arctic they are shifted by six months.

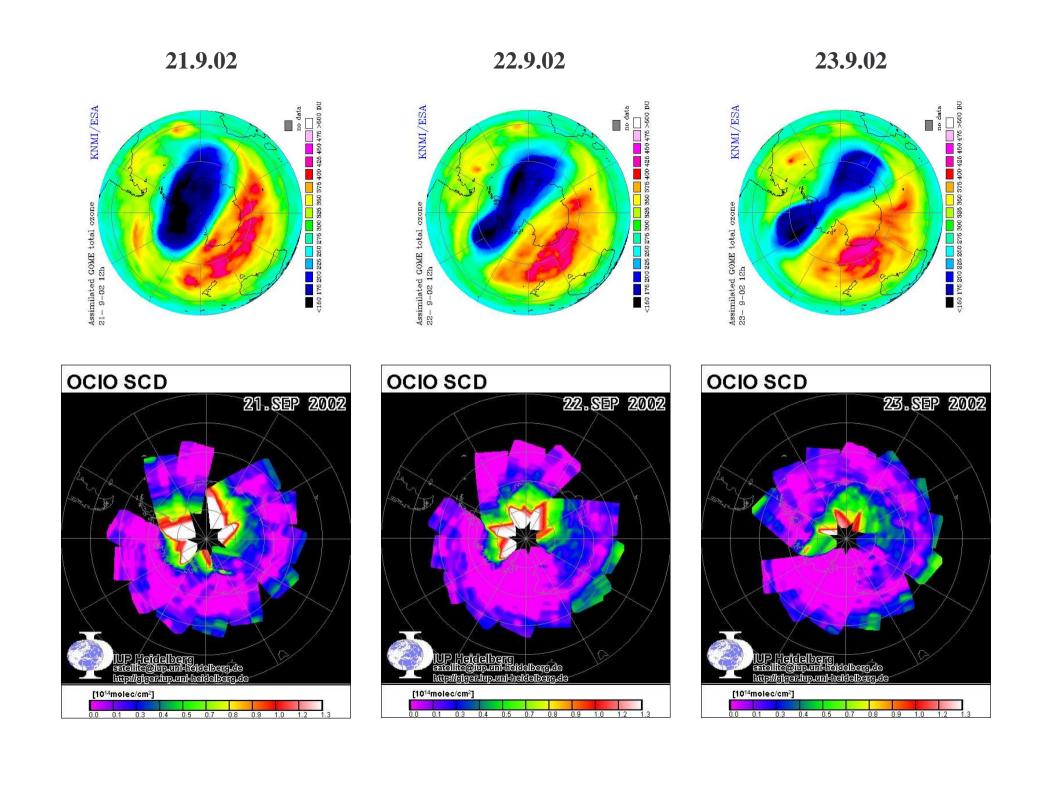


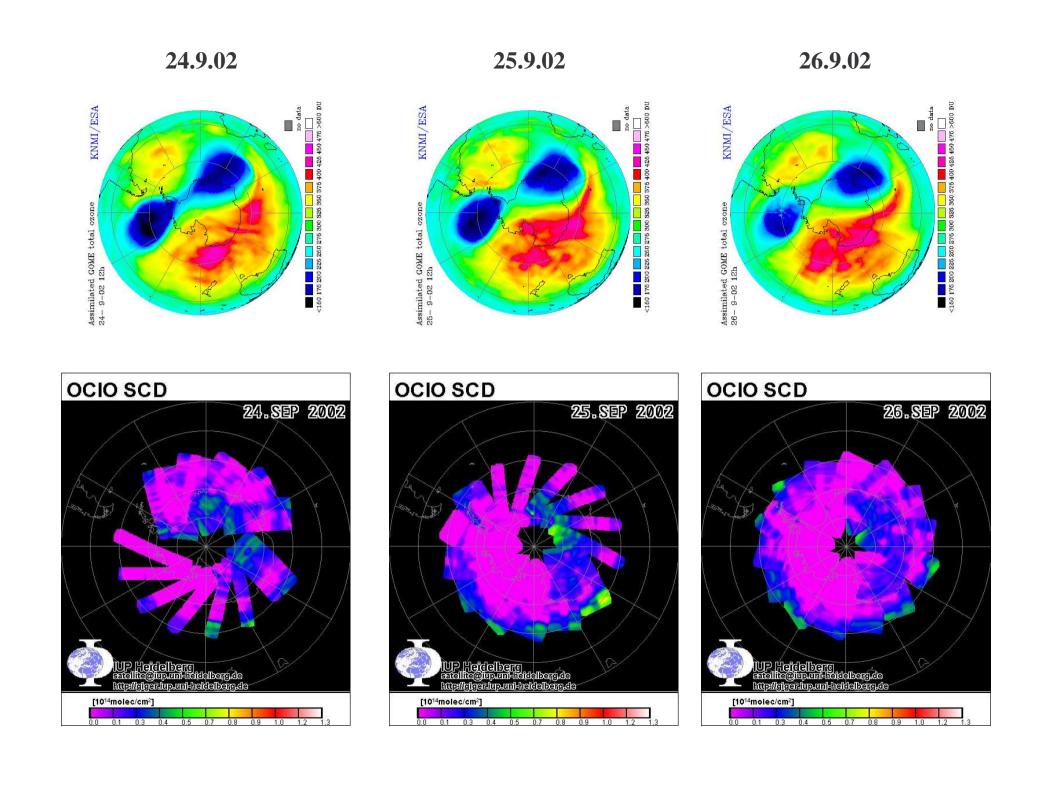




Examples

- 1) dynamical changes of the polar vortex
 - Ø breakup of the polar vortex in the antarctic winter 2002





Examples

- 1) dynamical changes of the polar vortex
 - Ø breakup of the polar vortex in the antarctic winter 2002
- 2) influence of special local effects
 - *Ø* mountain waves in the lee side of the Andes

Possible Mountain Waves

