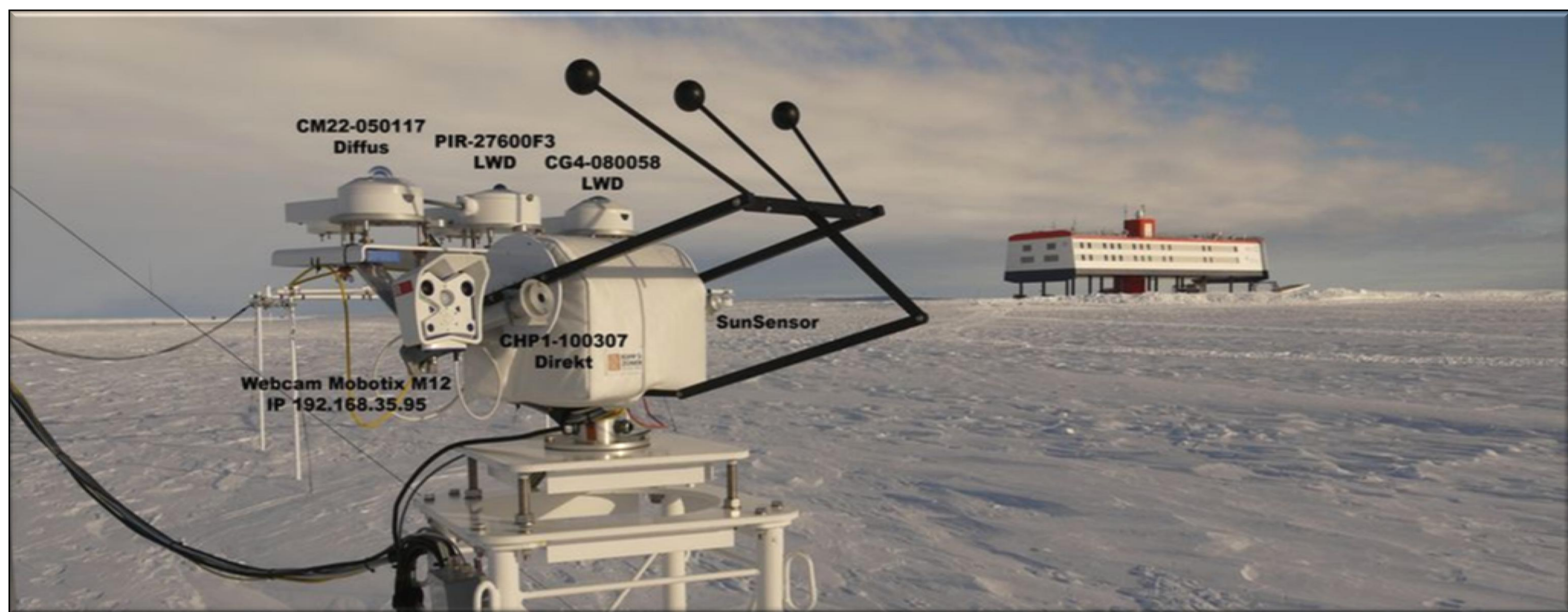


Status of the BSRN Station Georg-von-Neumayer

Gert König-Langlo; Bernd Loose

Neumayer_III

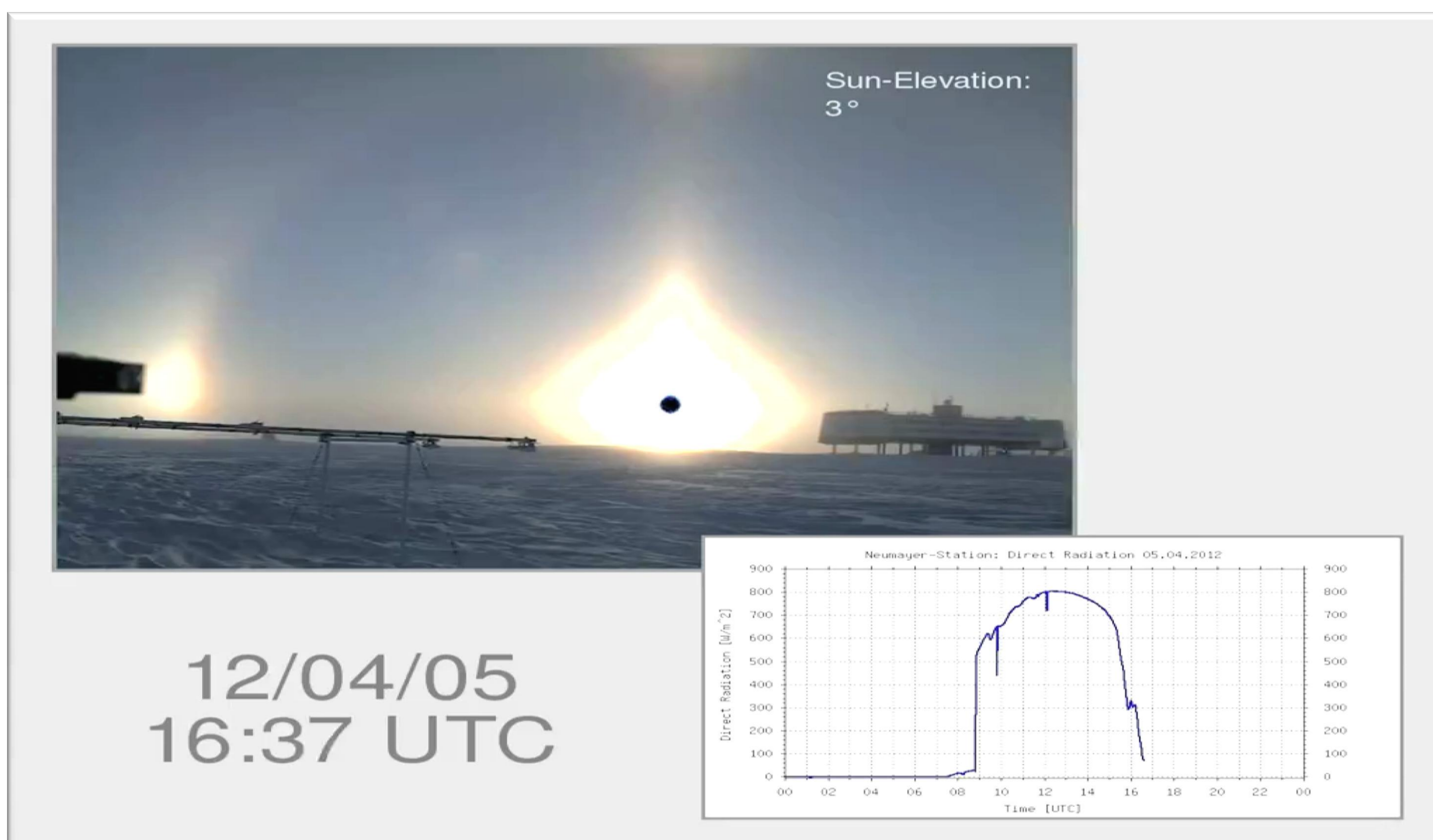
- In February 2009 Neumayer_III took over the observatory programs from the preceding stations Neumayer and Georg-von-Neumayer
- The change took place without interruptions
- Neumayer III gets hydraulically elevated to compensate snow accumulation
- The expected lifetime from Neumayer III is about 30 years



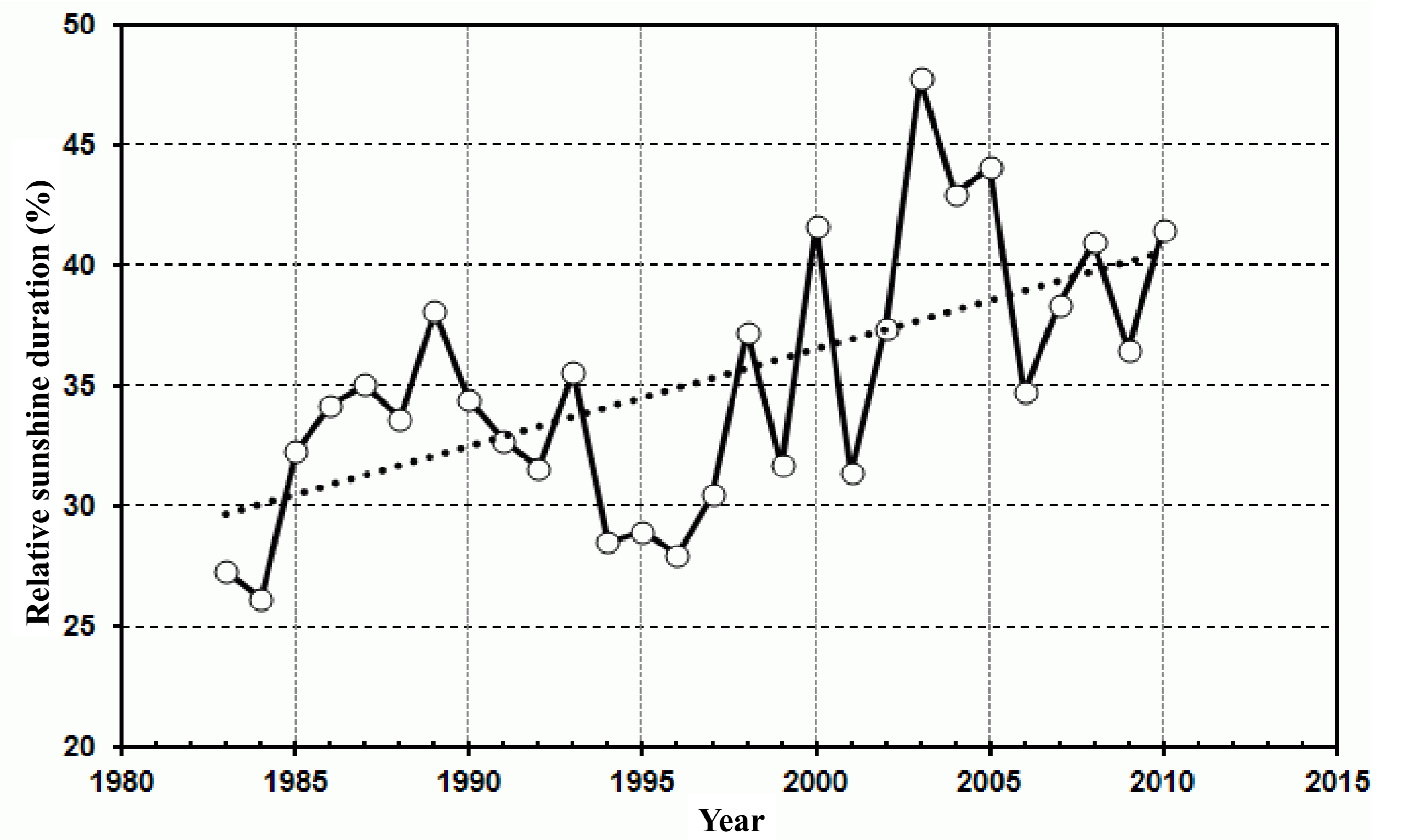
Solar tracker close to Neumayer III

Measurements

- Since 1981 data are available
- They include downward and upward radiation fluxes, synoptic observations, upper air soundings, cloud ceilings
- BSRN program is ongoing
- Data from other observatories like the air chemistry observatory are available



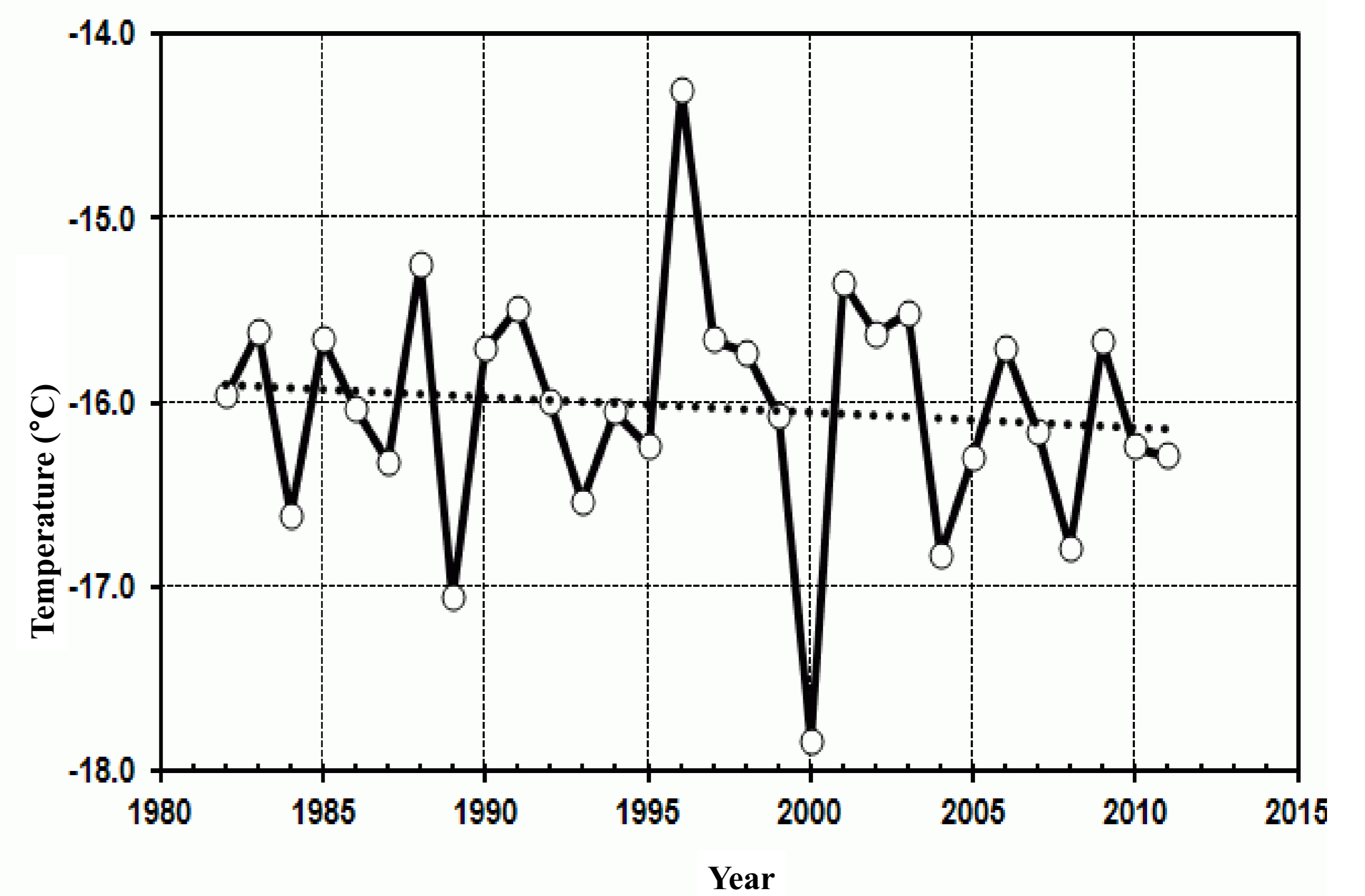
Controlling direct radiation measurements via webcam



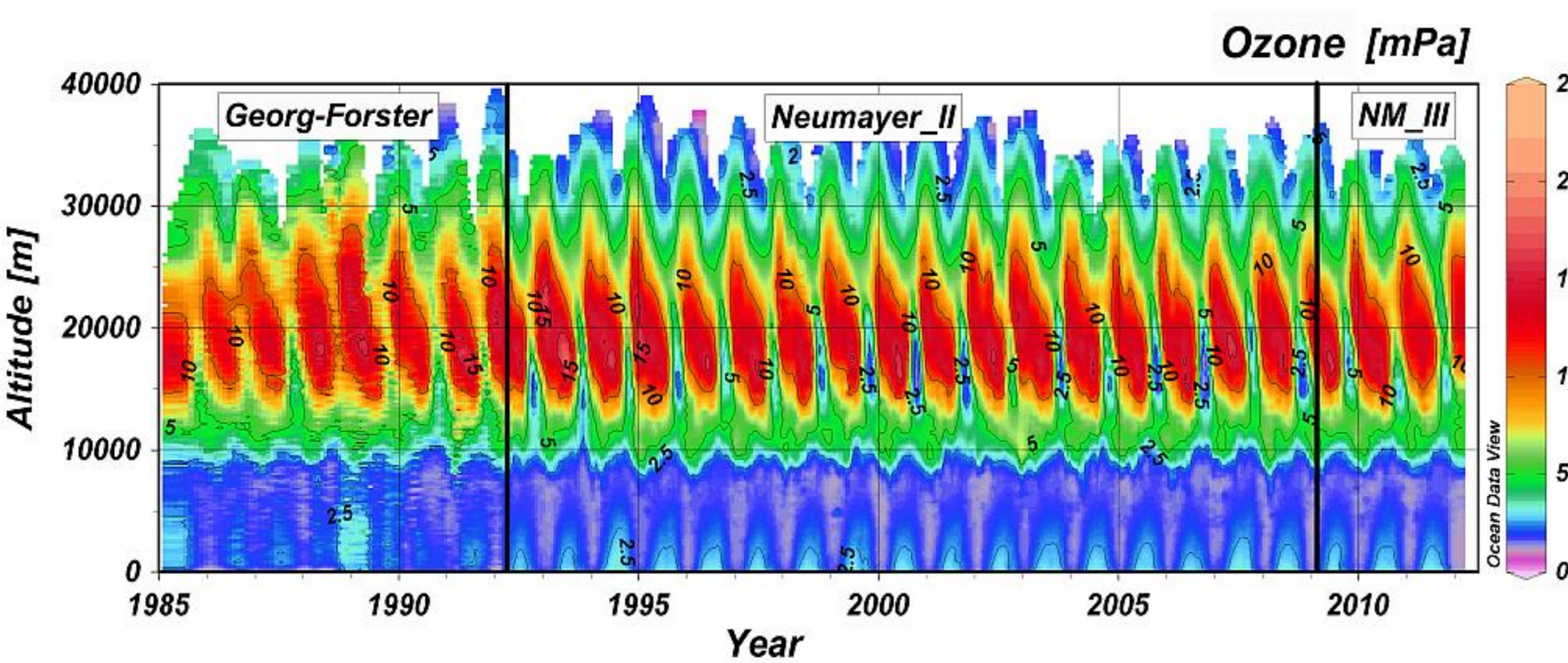
Timeseries of annual averaged relative sunshine duration

Trends

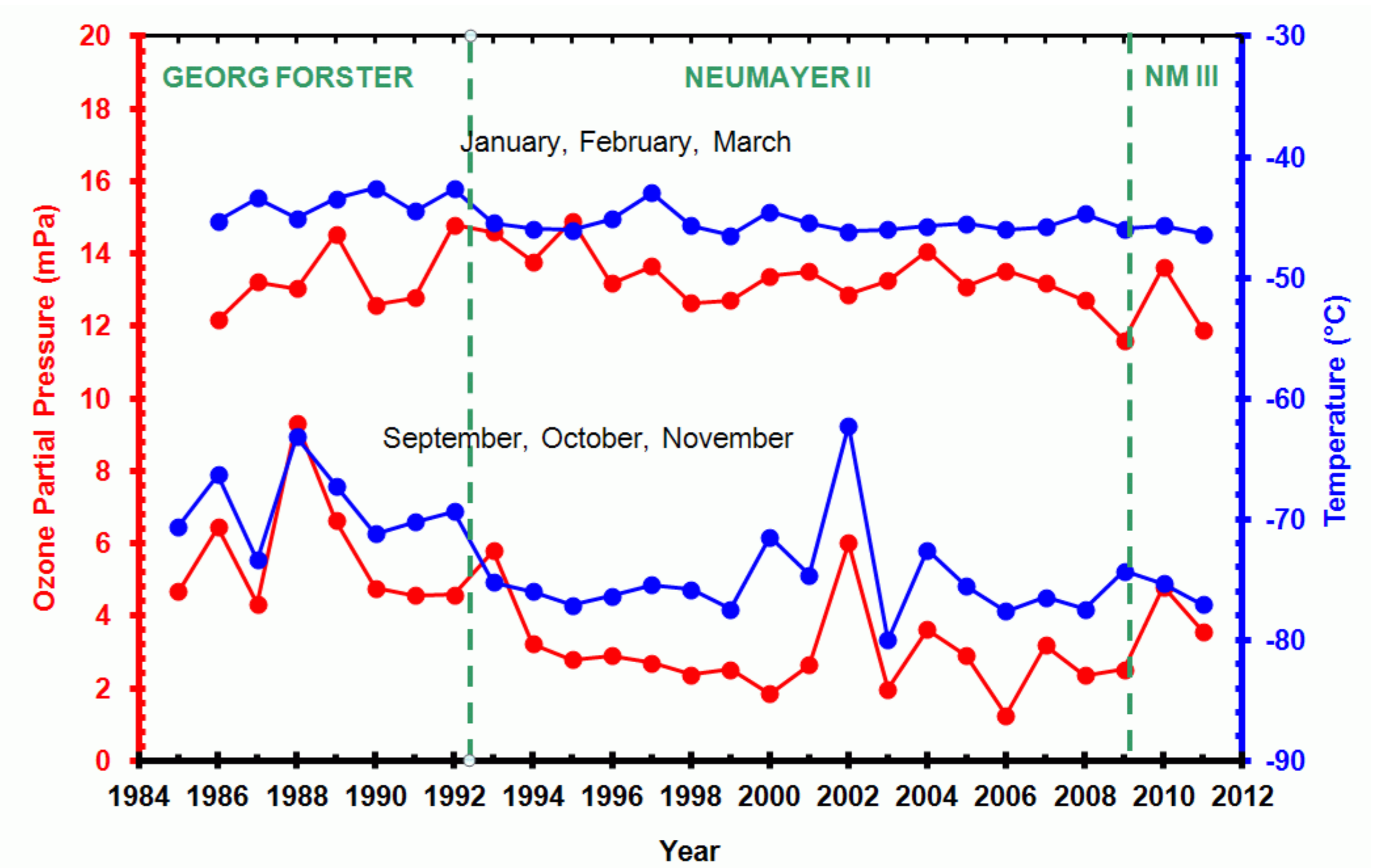
- Slightly increasing global radiation
- Slightly decreasing long-wave downward radiation
- Strongly increasing sunshine duration, see above
- Slightly increasing surface pressure
- No warming of the surface air temperature, see below
- Most probably minimum of stratospheric spring ozone depletion reached, see below



Timeseries of annual averaged air temperature



Time-altitude section of ozone partial pressure from upper air soundings



Timeseries of seasonal averaged stratospheric parameters at 70hPa