

Zentralanstalt für Meteorologie und Geodynamik 

Permafrost Monitoring at the Sonnblick observatory

Michael Staudinger ZAMG – Salzburg

Atmospheric physics

(Präsentation)

27.10.2005

Folie 2



Climate change

„Permafrost - Geology“

Radioactivity

Meteorology –
Climatology

Climate monitoring
in the rock

Tritium
Gamma radiation
Gamma spektroskopie

SO₂
chem., organ comp
of aerosols,
precipitation

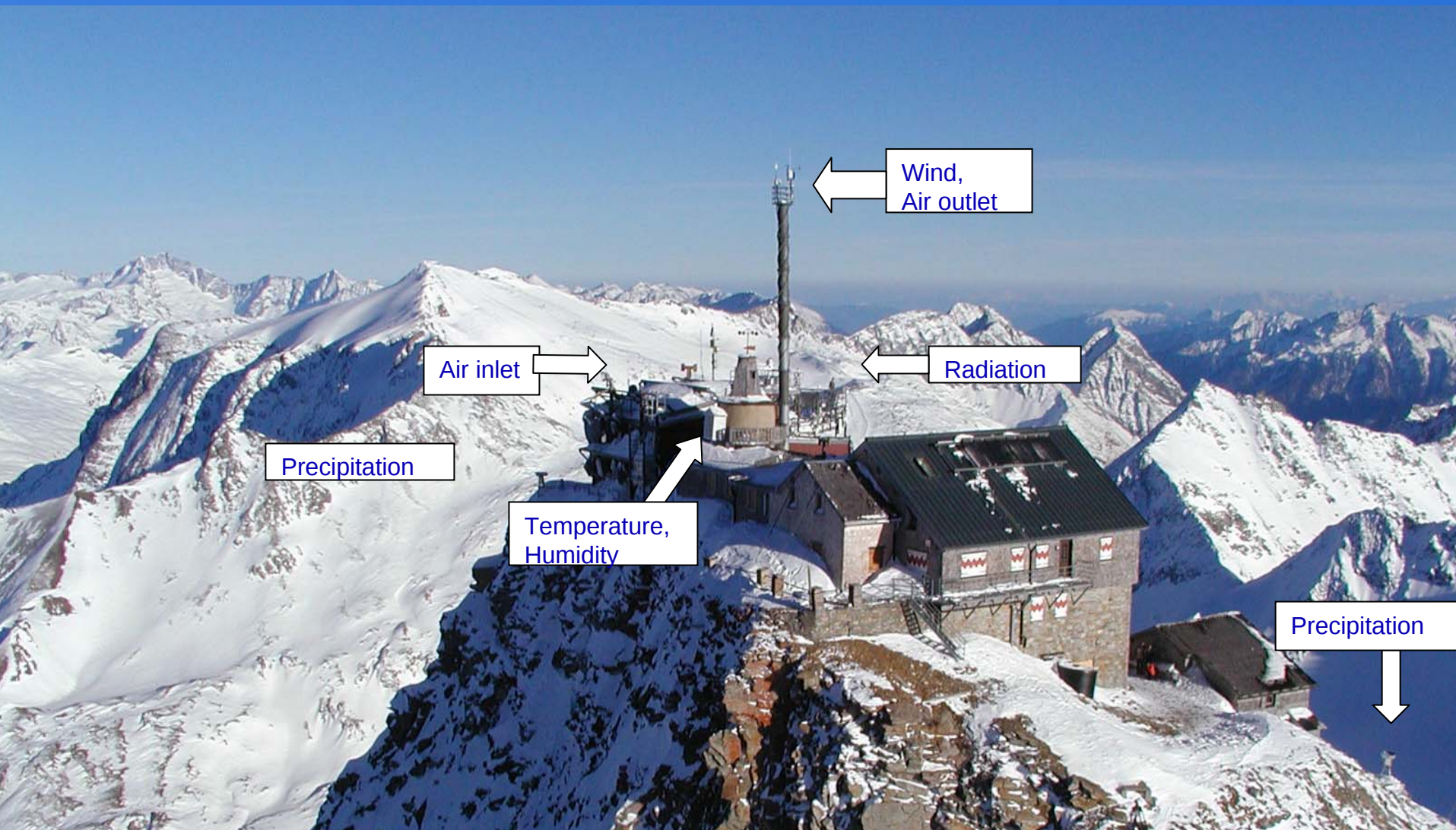
Radon

Bakterien in clouds

kosm radiation

Medicine in high altitudes

(measurements done at Sonnblick)

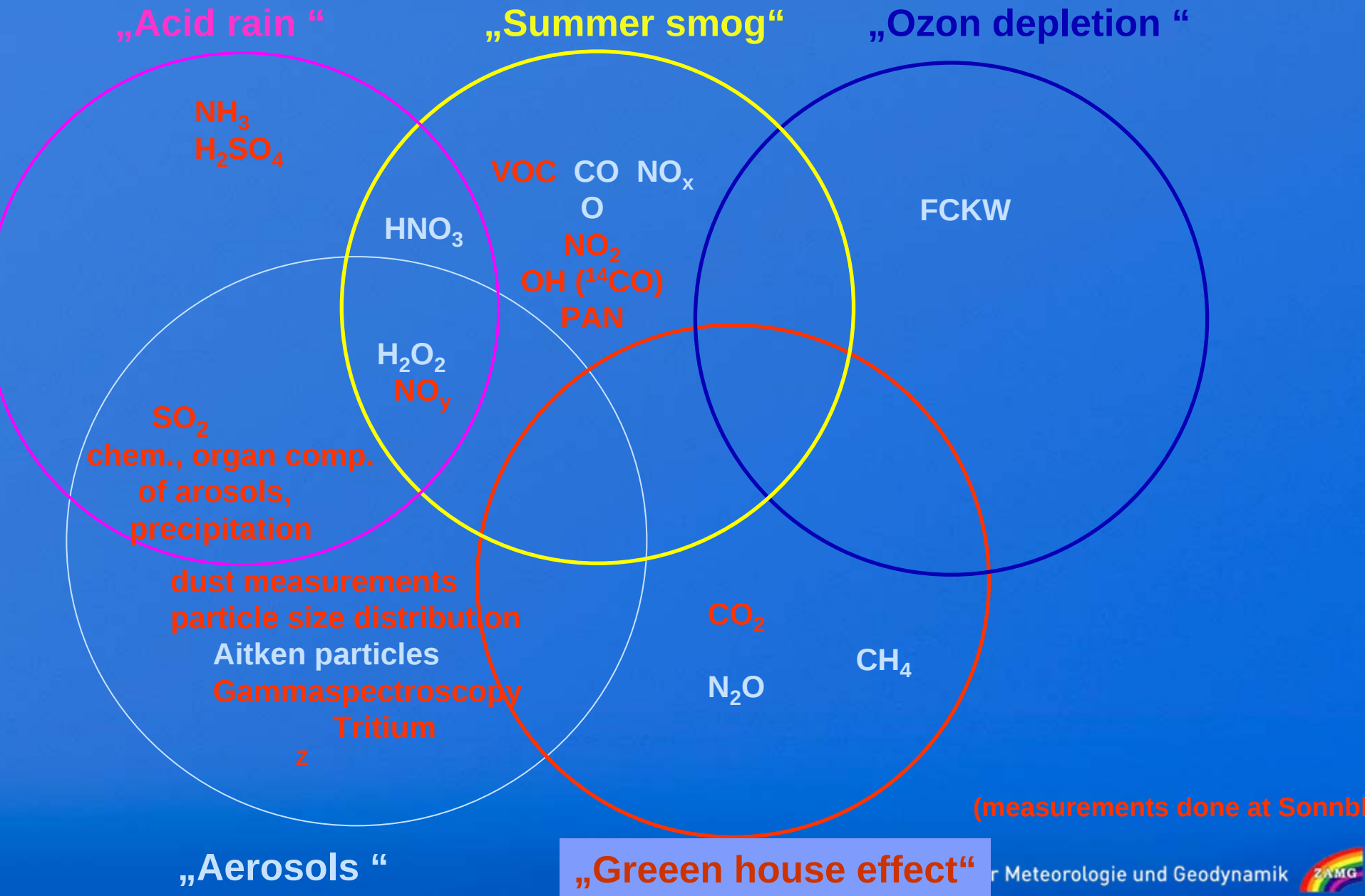


Atmospheric chemistry

(Präsentation)

27.10.2005

Folie 4



(measurements done at Sonnblick)



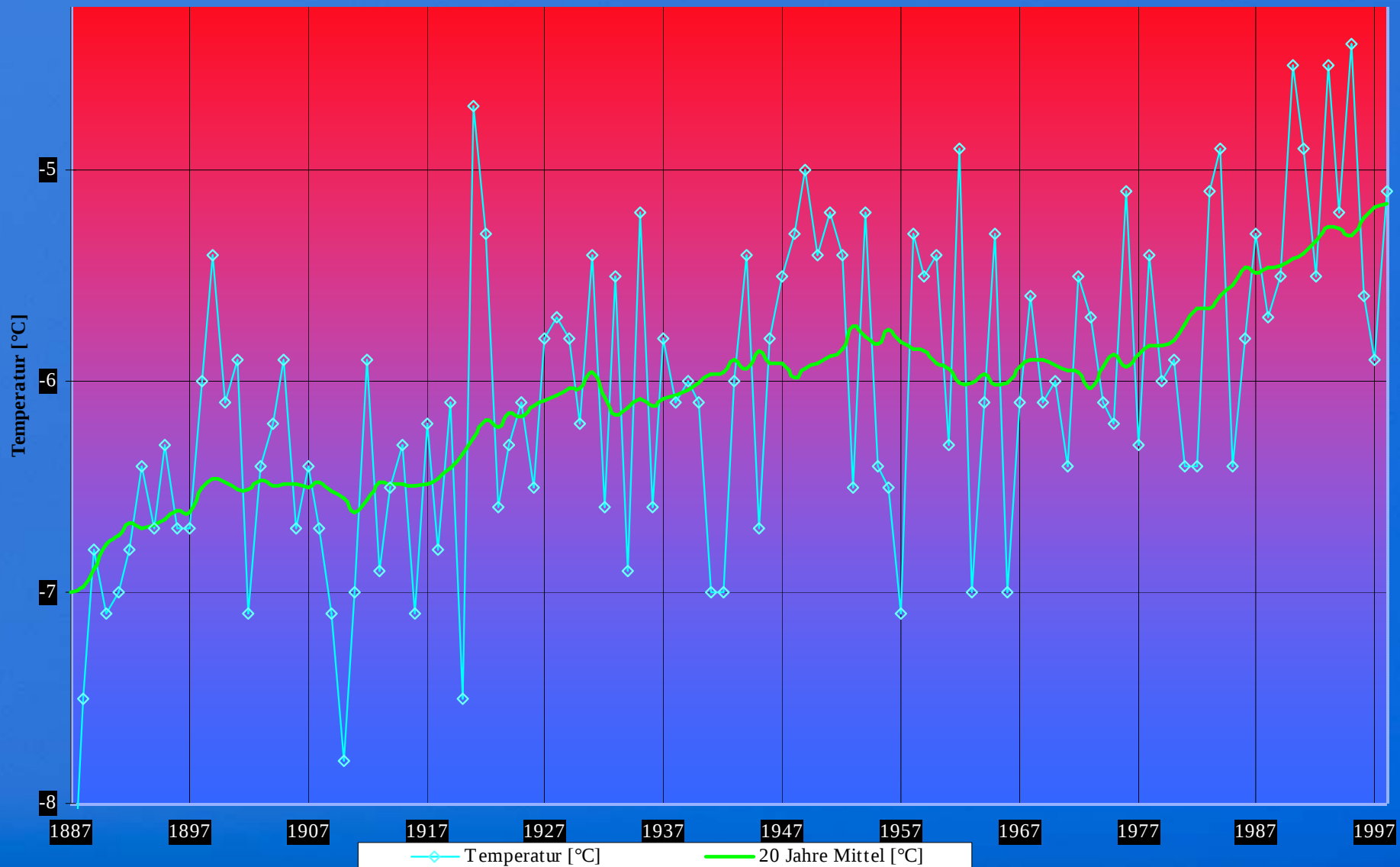


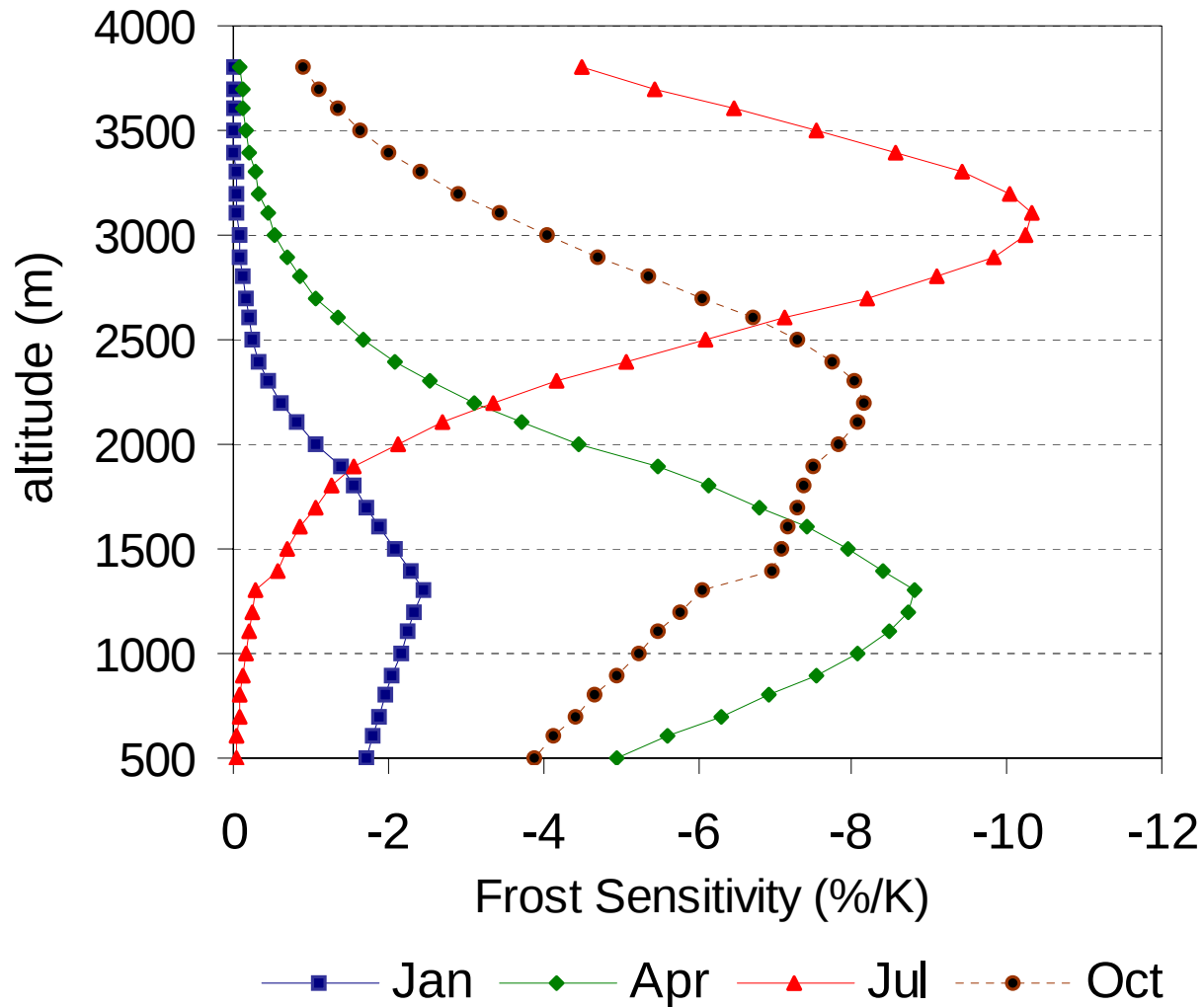


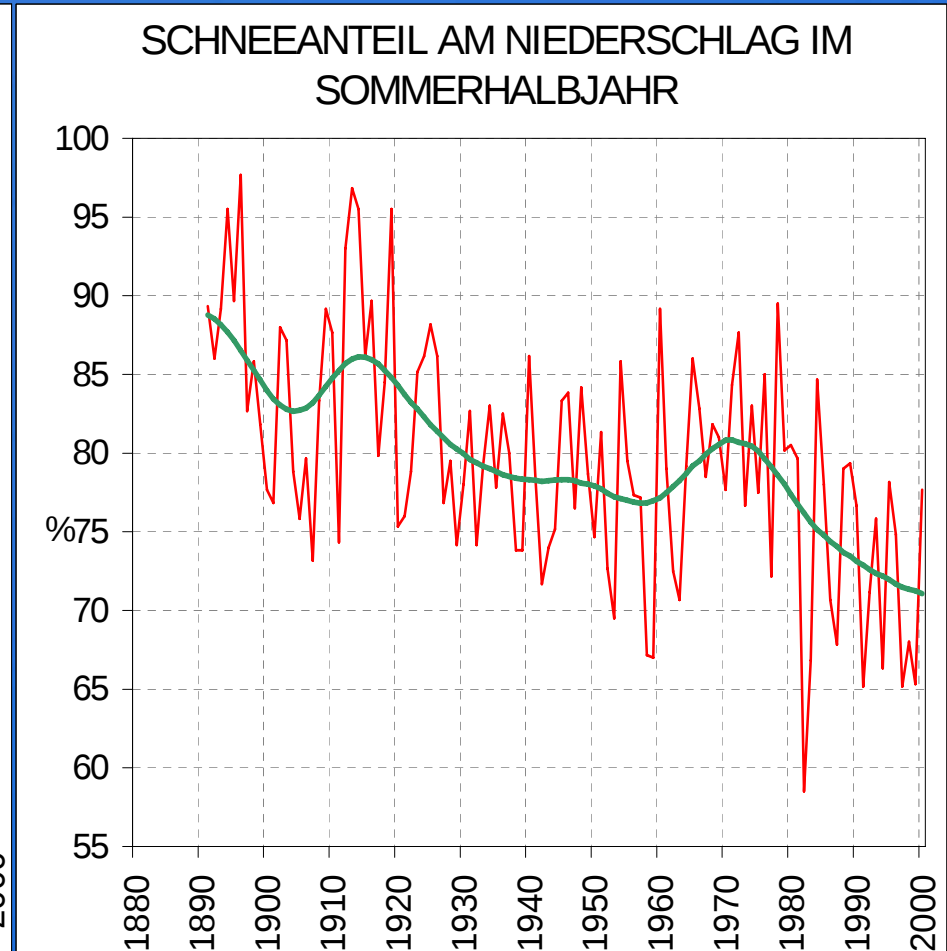
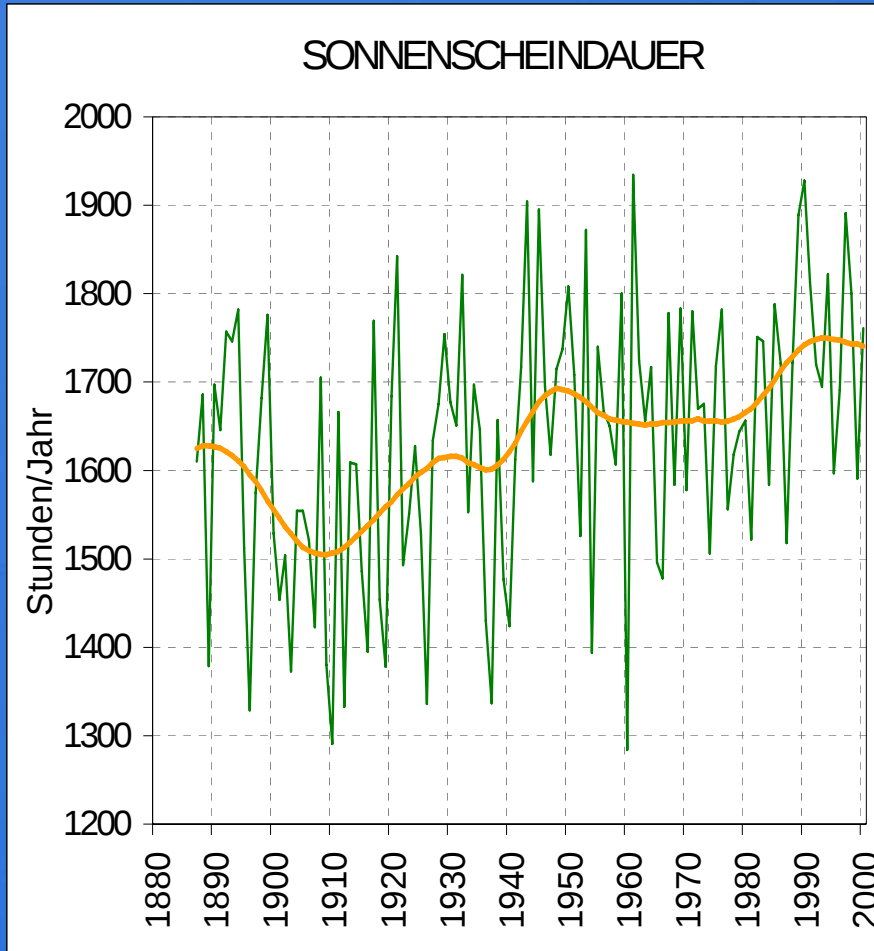


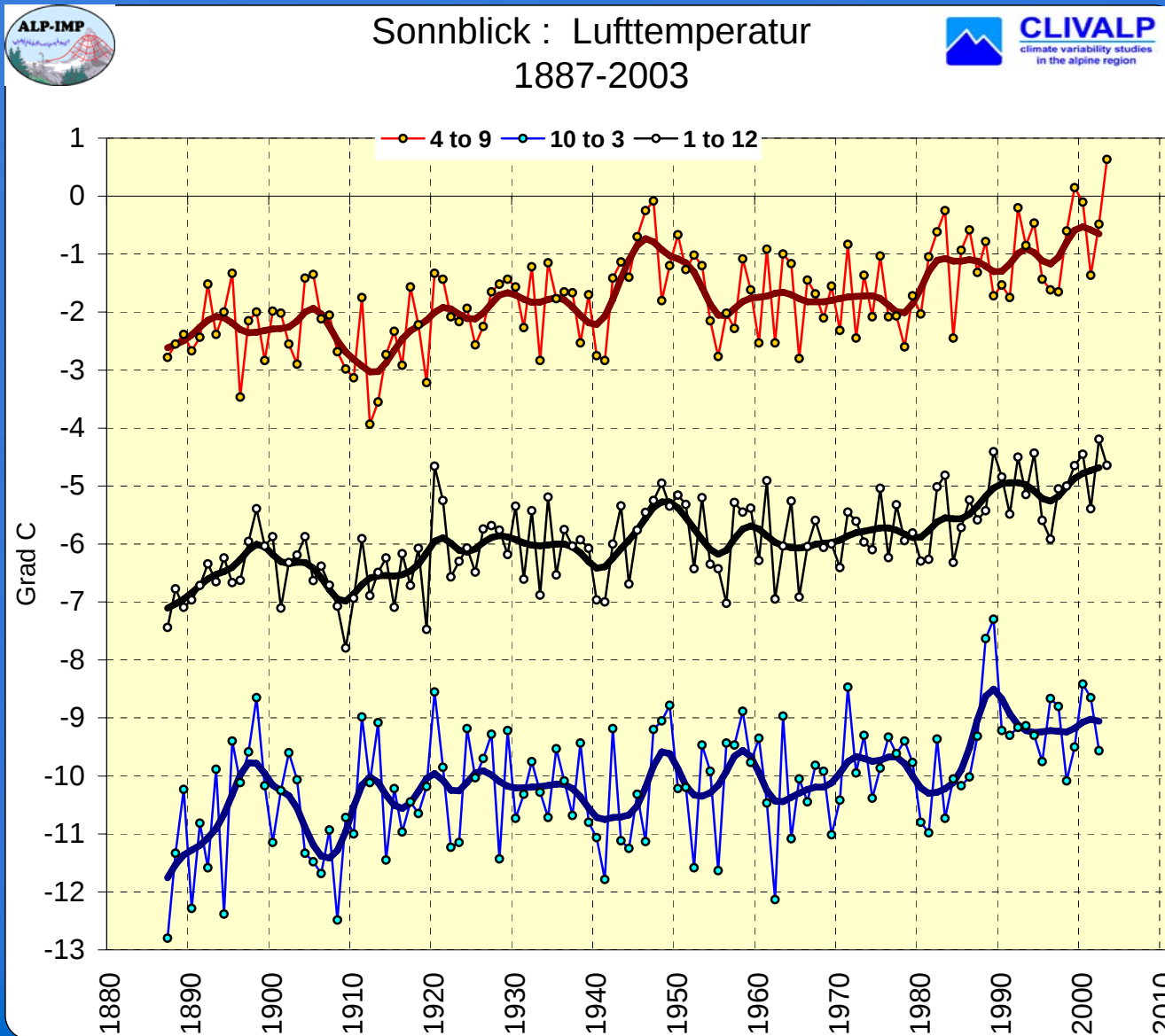






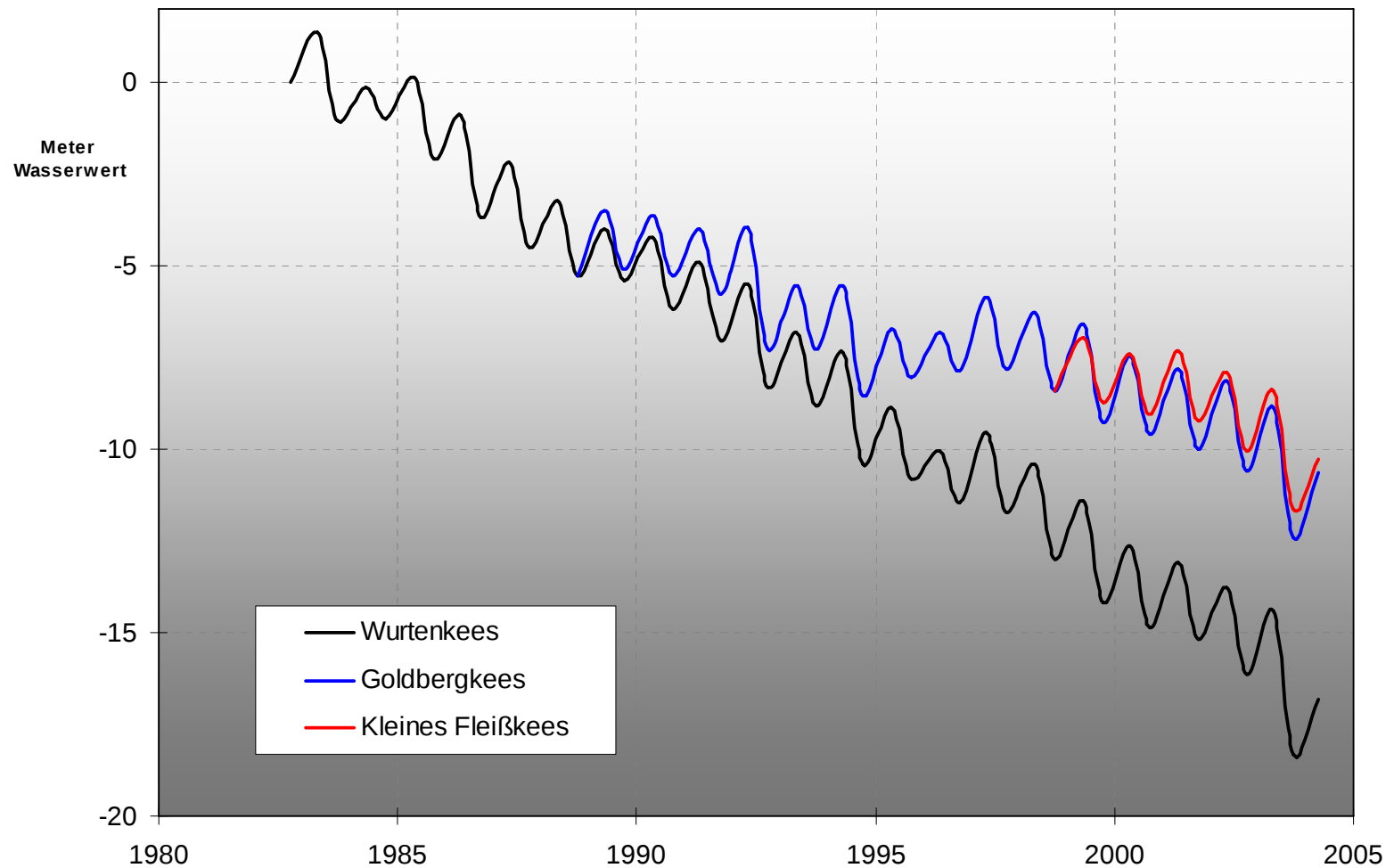


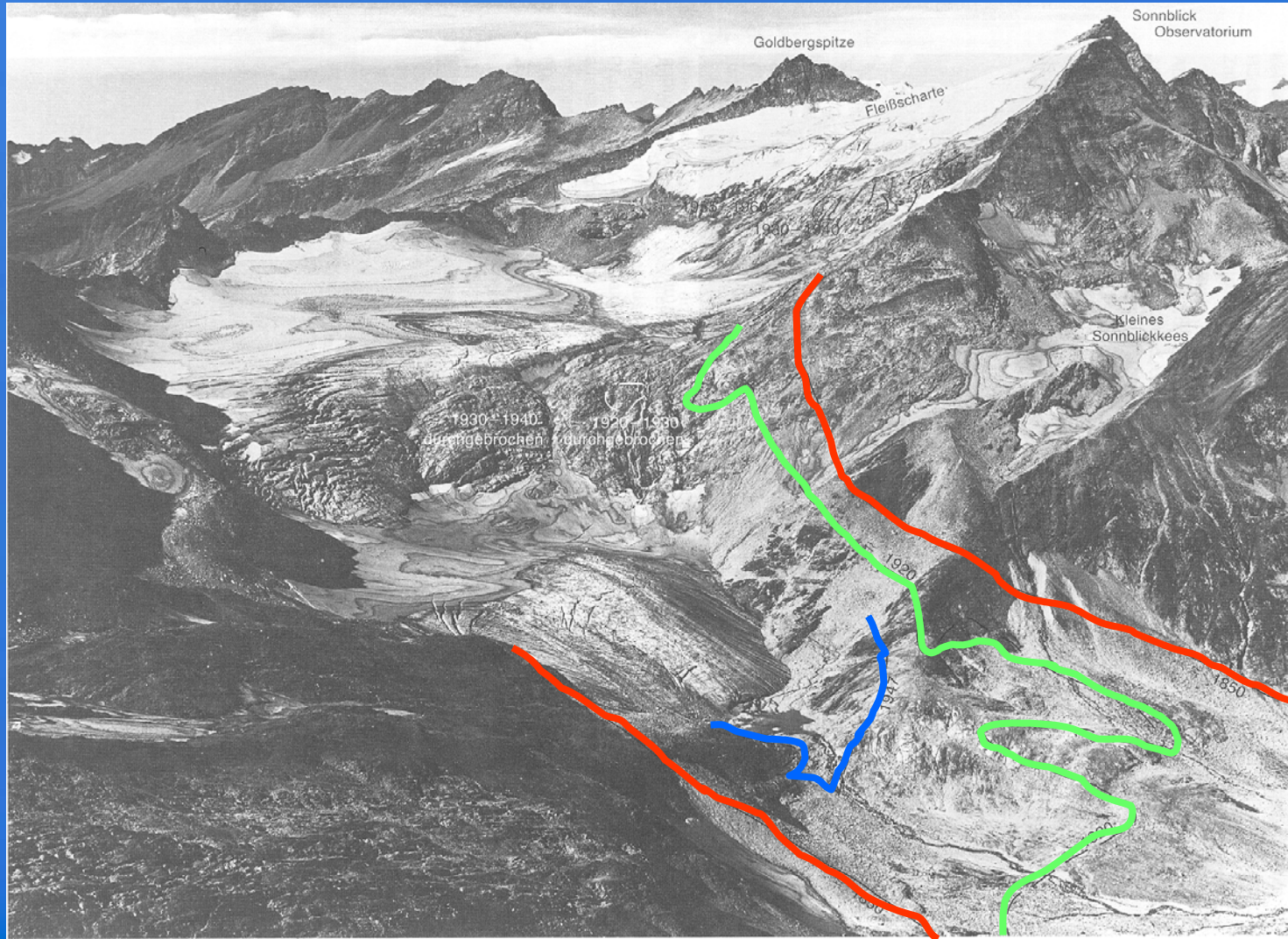






Kumulative Reihe der mittleren spezifischen Massenbilanzen
im Sonnblickgebiet



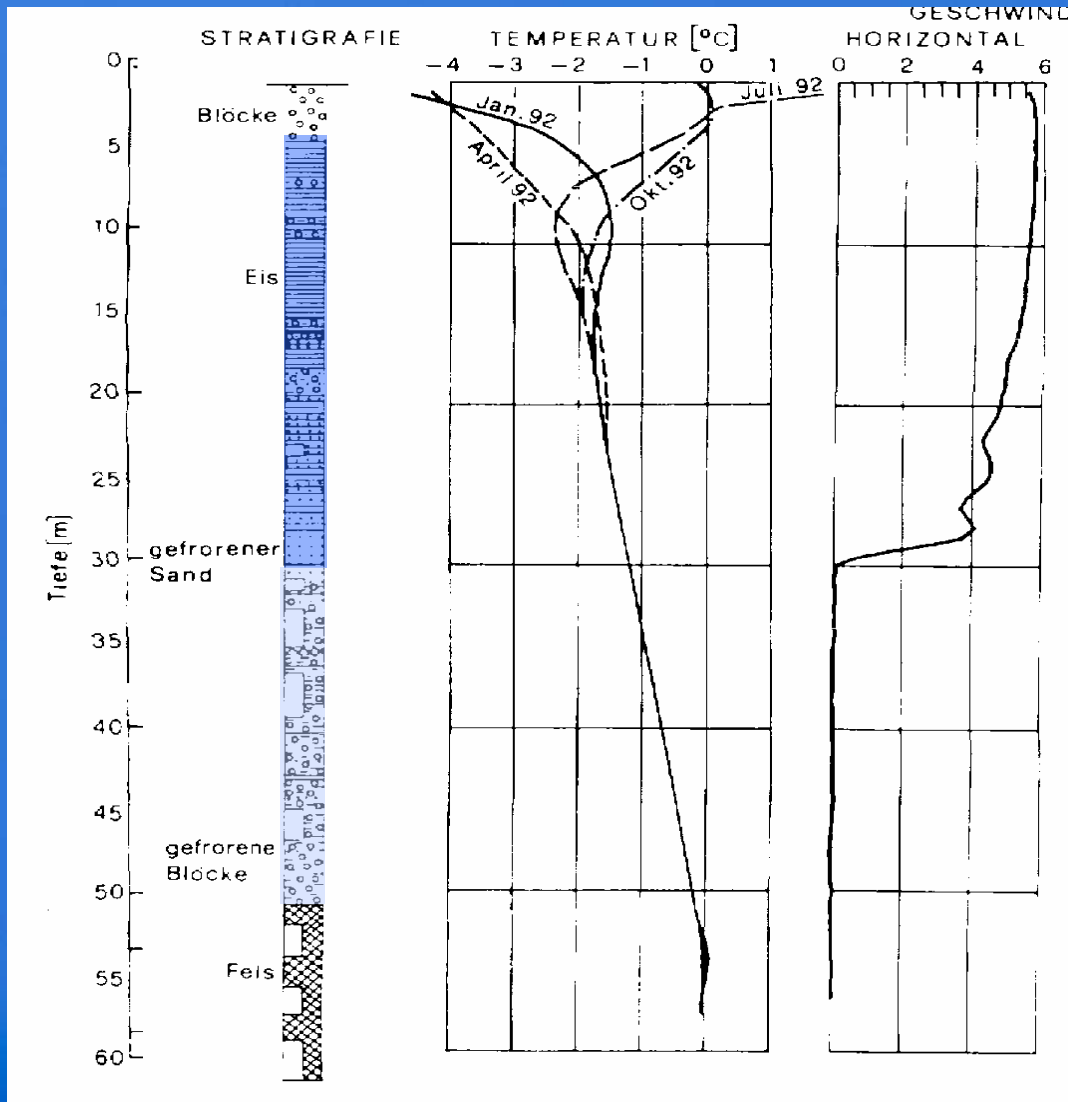


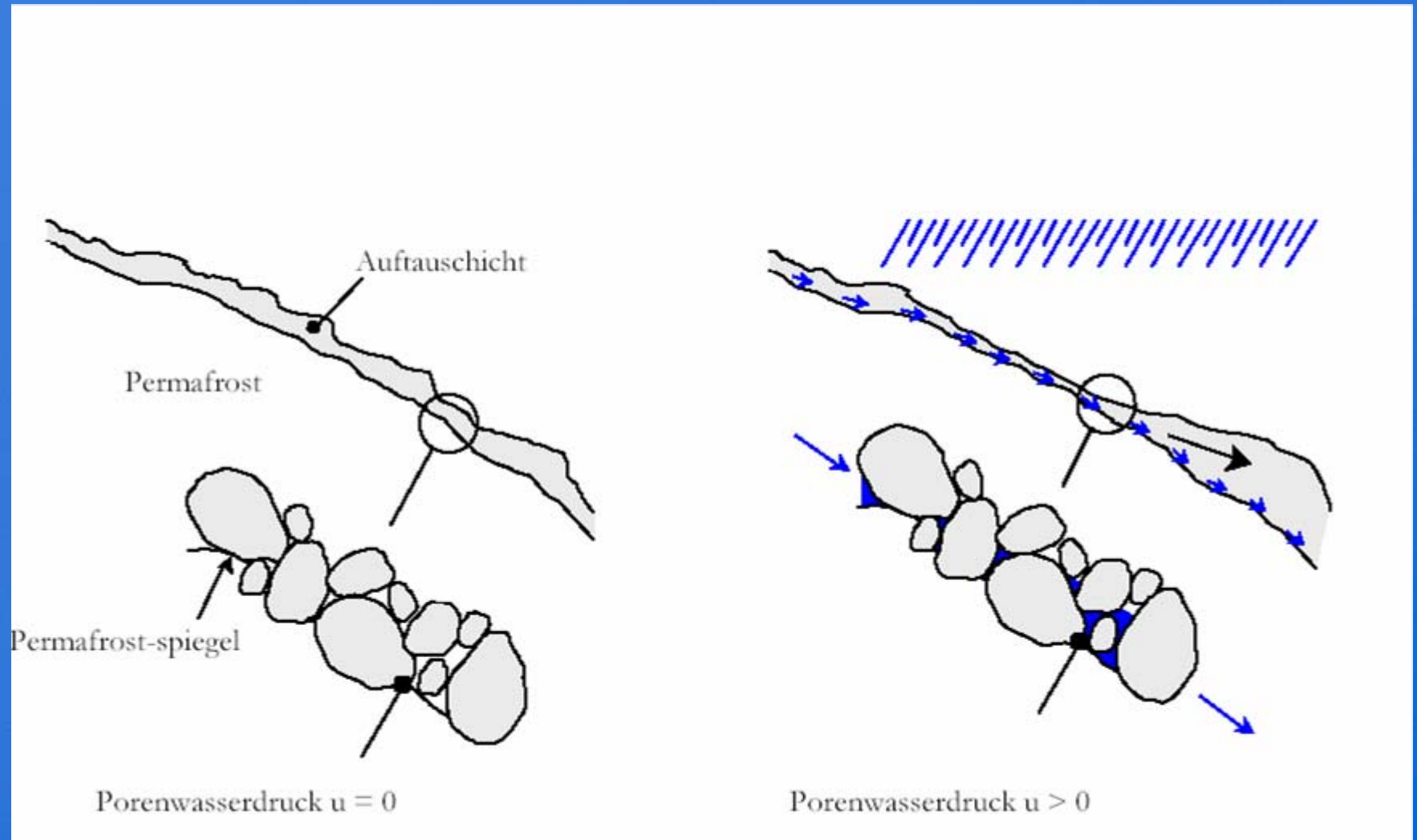




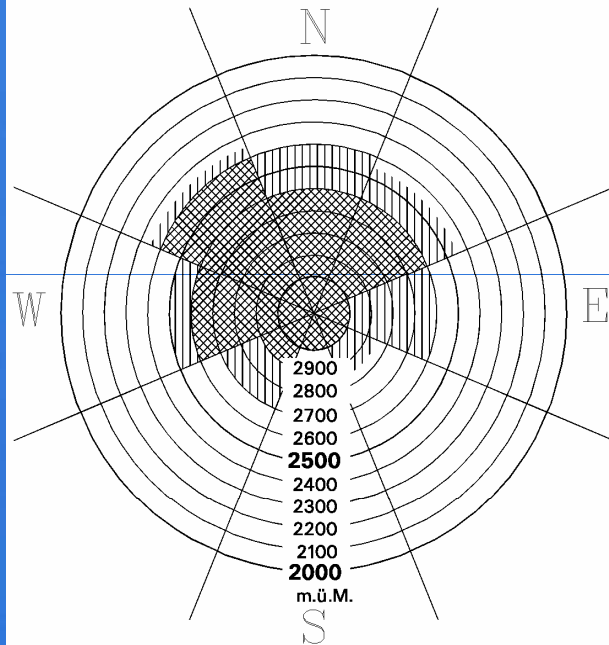
Blockgletscher Murtel am Piz Corvatsch
im Oberengadin (Schweiz)

(C) ITL Academia Engidiana





Hangneigung über 11°

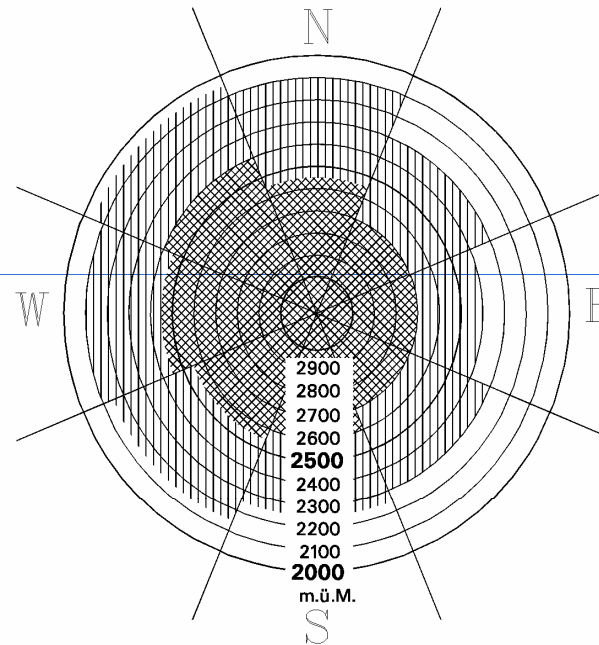


Fleckenhafter Permafrost

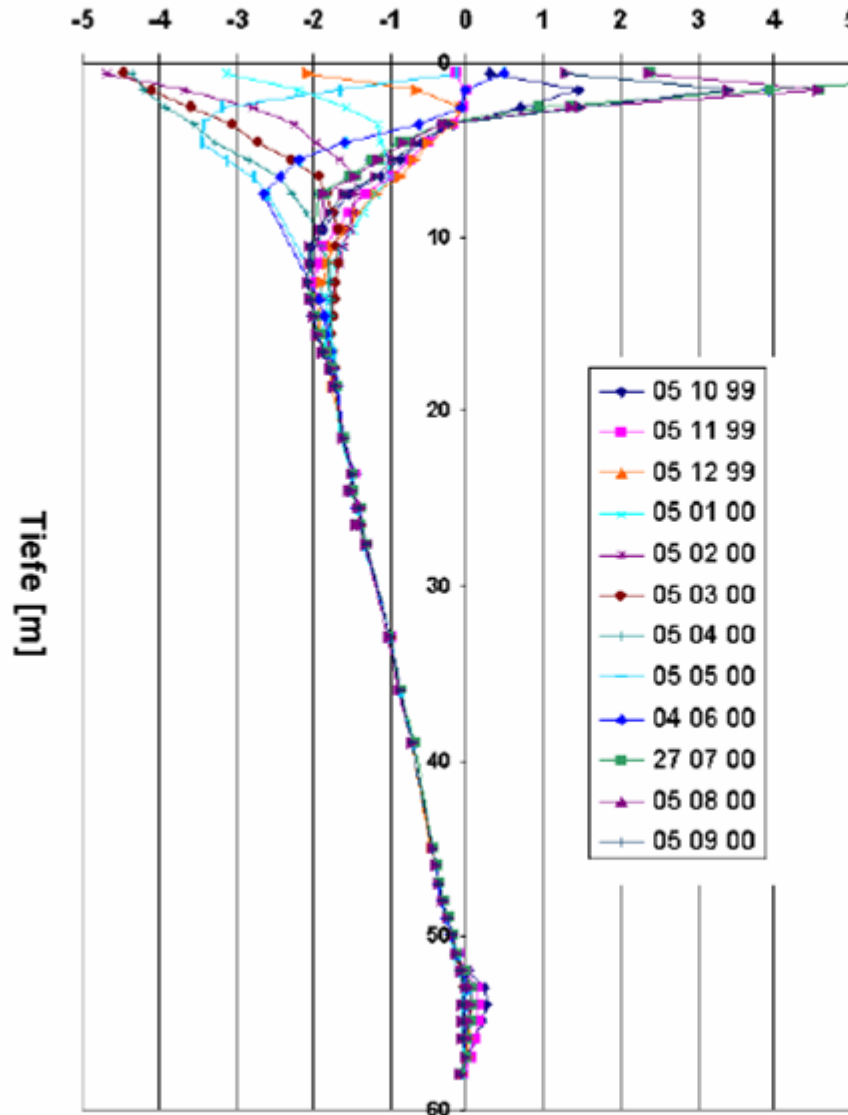


Permafrost flächenhaft

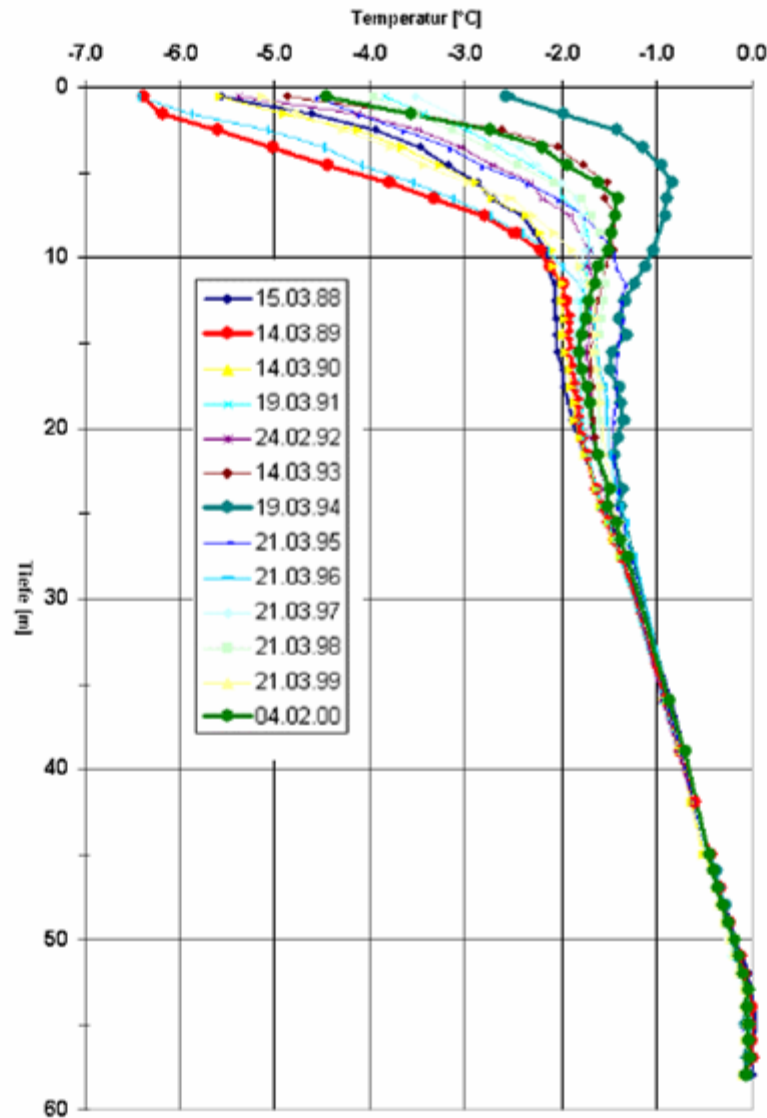
Hangfusslagen



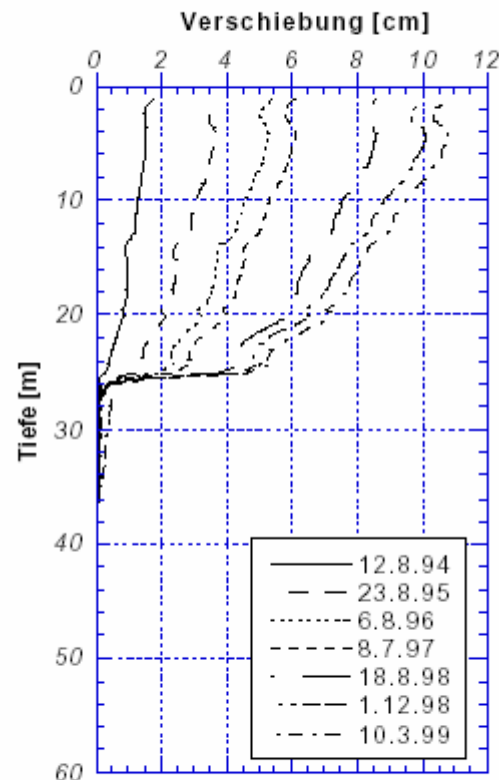
	fleckenhafter Permafrost	Permafrost flächenhaft
Windexponierte Verflachungen:	oberhalb 2600 m.ü.M.	oberhalb 2700 m.ü.M.
Windgeschützte Verflachungen:	oberhalb 2650 m.ü.M.	oberhalb 3000 m.ü.M.



Murtel
Corvatsch
(Permos 2002)

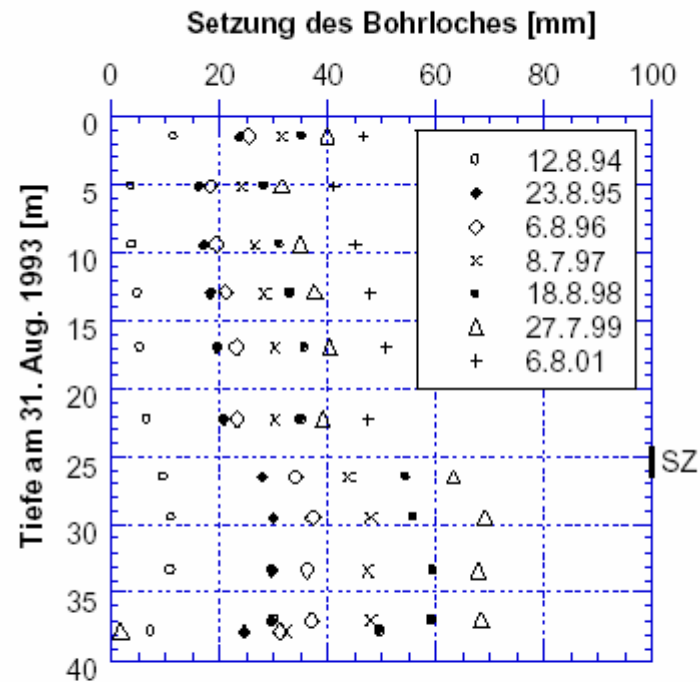


Murtel
Corvatsch
(Permos 2002)



Pontresina-Schafberg 2/1990
(1993-1999)

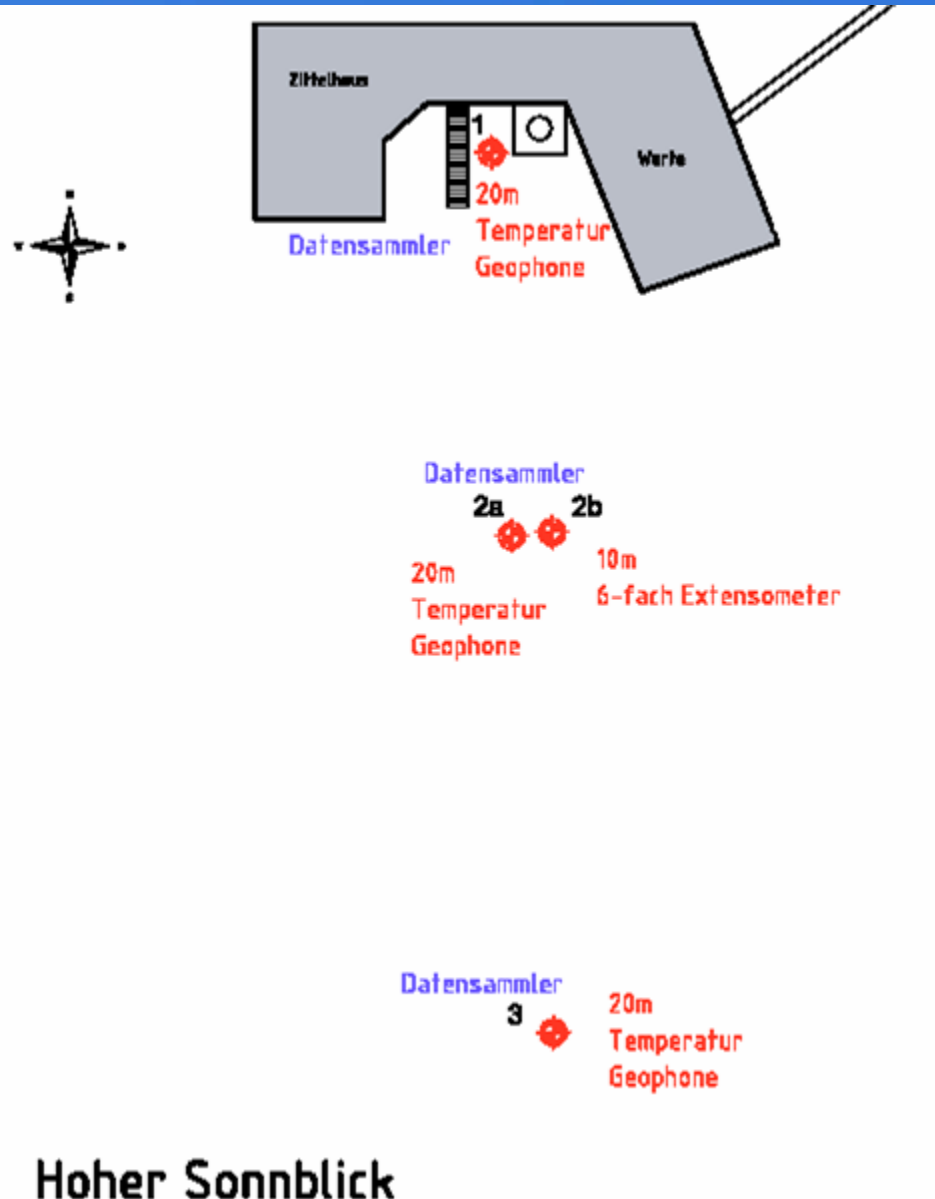
a)

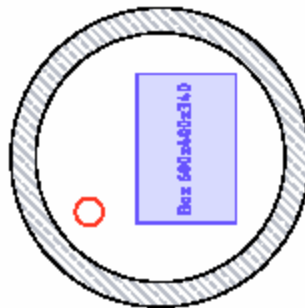
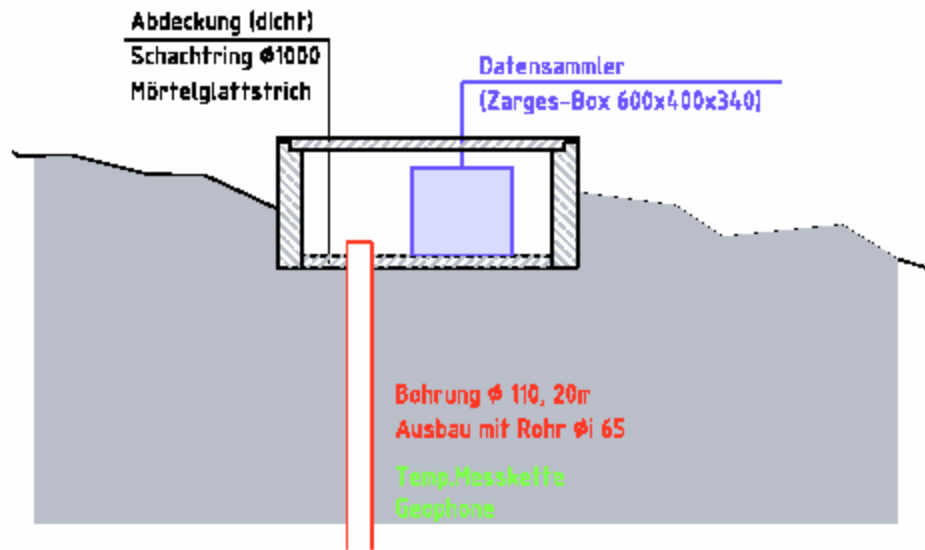


Pontresina-Schafberg 2/1990
(1993-2001)

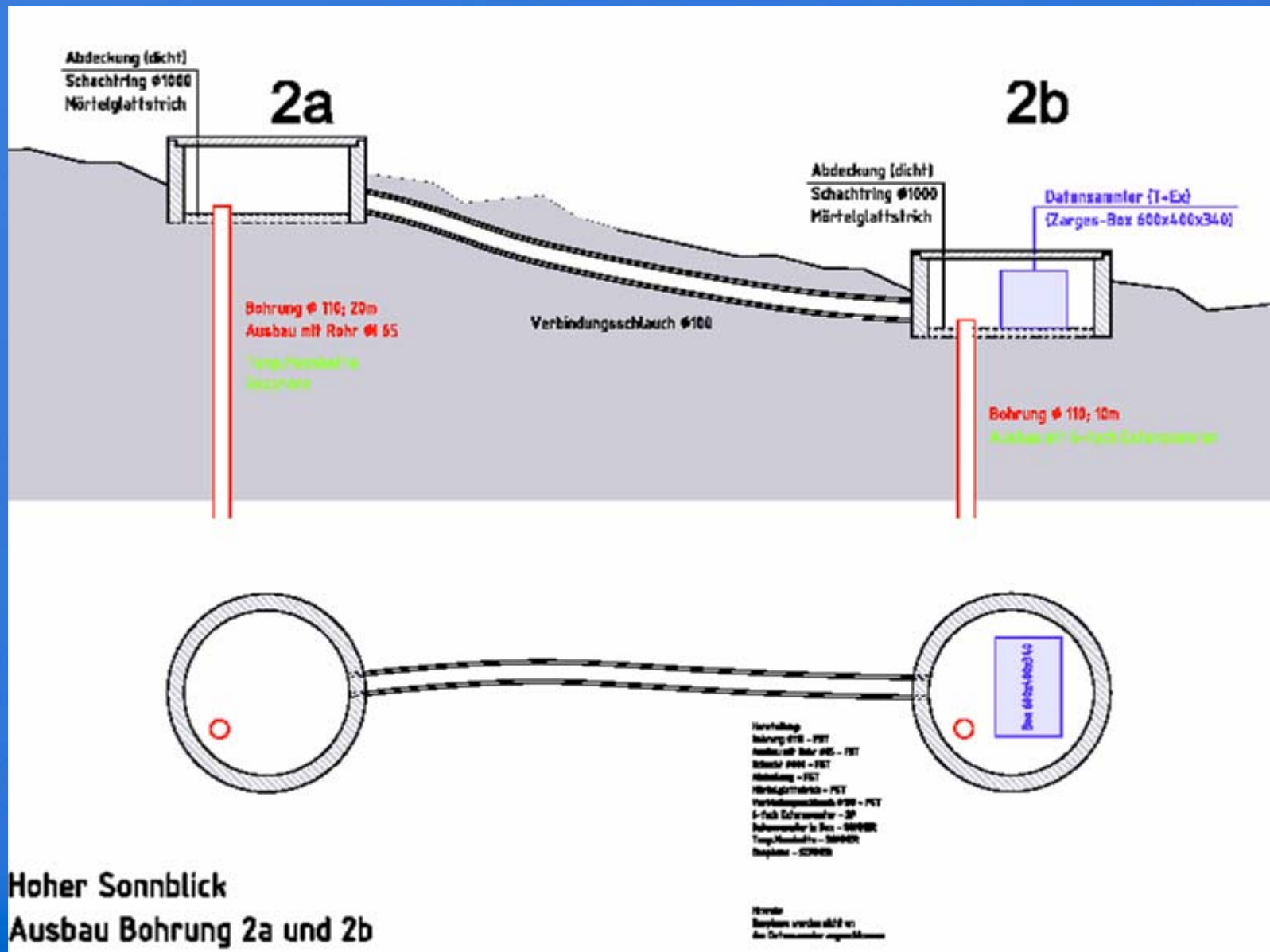
b)







Herstellung
Bohrung $\varnothing 110$ - PST
Ausbau mit Rohr $\varnothing 65$ - PST
Schacht $\varnothing 1000$ - PST
Abdeckung - PST
Mörtelglatzstrich - PST
Datensammler in Box - SUNDER



Thanks for your attention

(Präsentation)

27.10.2005

Folie 29

