GOMOS Temperature

Balloon validation

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Temperature sensors on the balloon gondolas

AMON
SALOMON
SAOZ
SPIRALE
TRIPLE
- Temperature can exhibit fluctuations of few degrees over few tens and hundred of kilometres, and with time

⇒ Need of perfect coincidence in time and location for the validation of high resolution T profiles

- SALOMON flight on September 2003 match partially these criteria ... no definitive conclusions!

Only global shape of T profiles can be compared
Mid-latitudes (Aire sur l’Adour)

Triple flight

SALOMON flight

SPIRALE flight

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Atmospheric Chemistry Validation of ENVISAT - ESRIN - 3-7 May 2004
High latitudes (Kiruna)

SPIRALE flight

AMON flight

SAOZ flight

+ data from flights performed on March 2004 from Kiruna outside vortex (GOMOS data not yet available)
Conclusions

- Global shape: Good agreement

- Local discrepancies of few degrees

- Need of dedicated balloon flights and/or T sounding at the same time and location of GOMOS measurements