

GOMOS Temperature

Balloon validation

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Temperature sensors on the balloon gondolas

AMON

SALOMON

SAOZ

SPIRALE

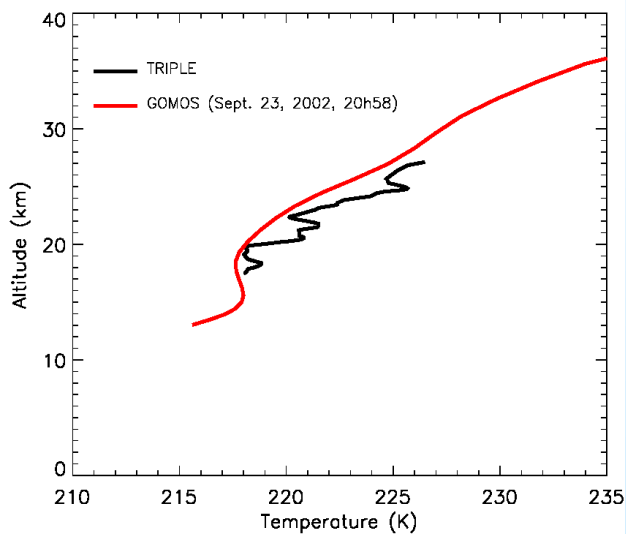
TRIPLE

- 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 !

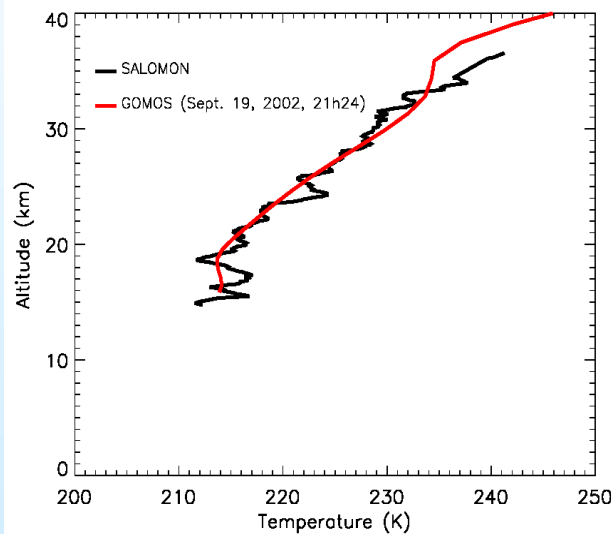
Only global shape of T profiles can be compared

Mid-latitudes (Aire sur l'Adour)

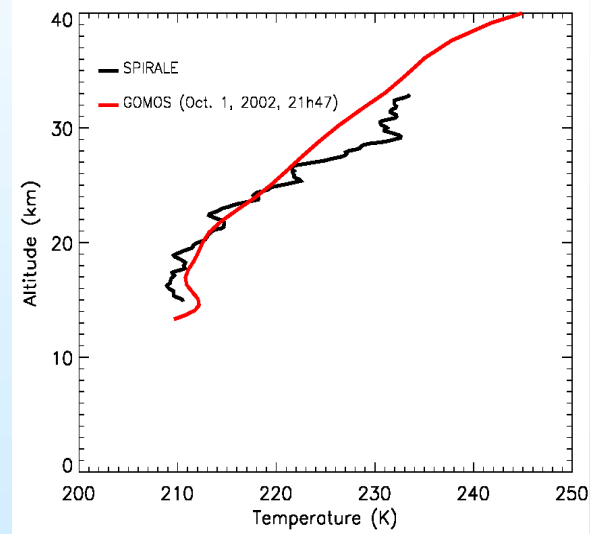
Triple flight



SALOMON flight

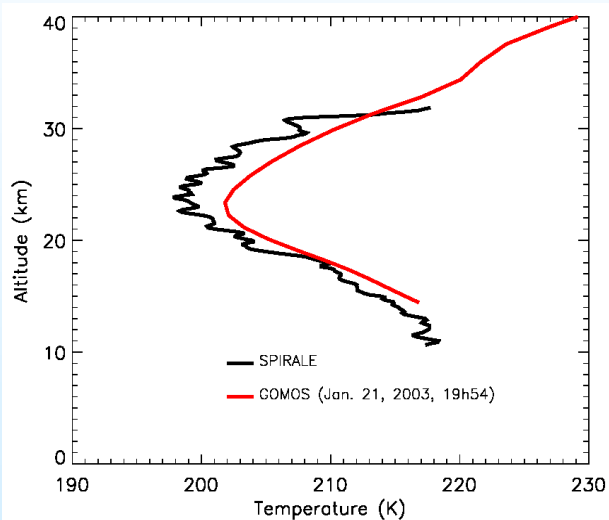


SPIRALE flight

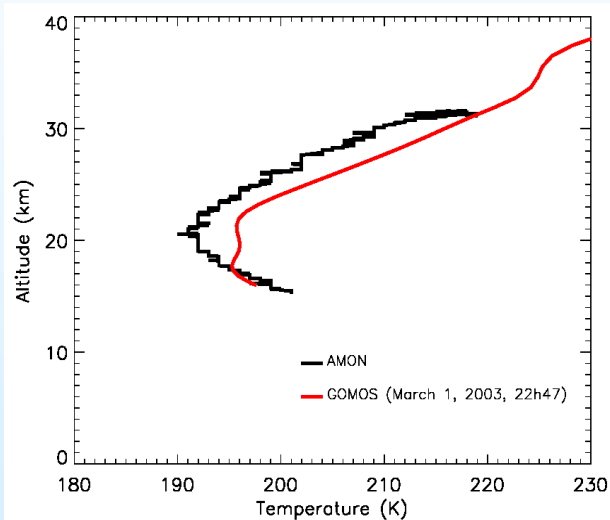


High latitudes (Kiruna)

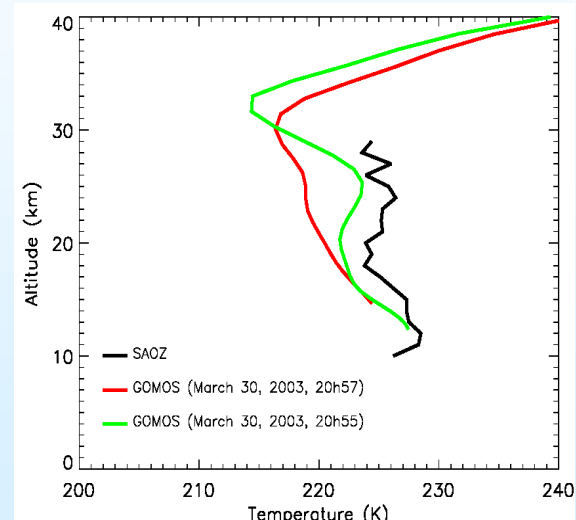
SPIRALE flight



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