

GOMOS H₂O

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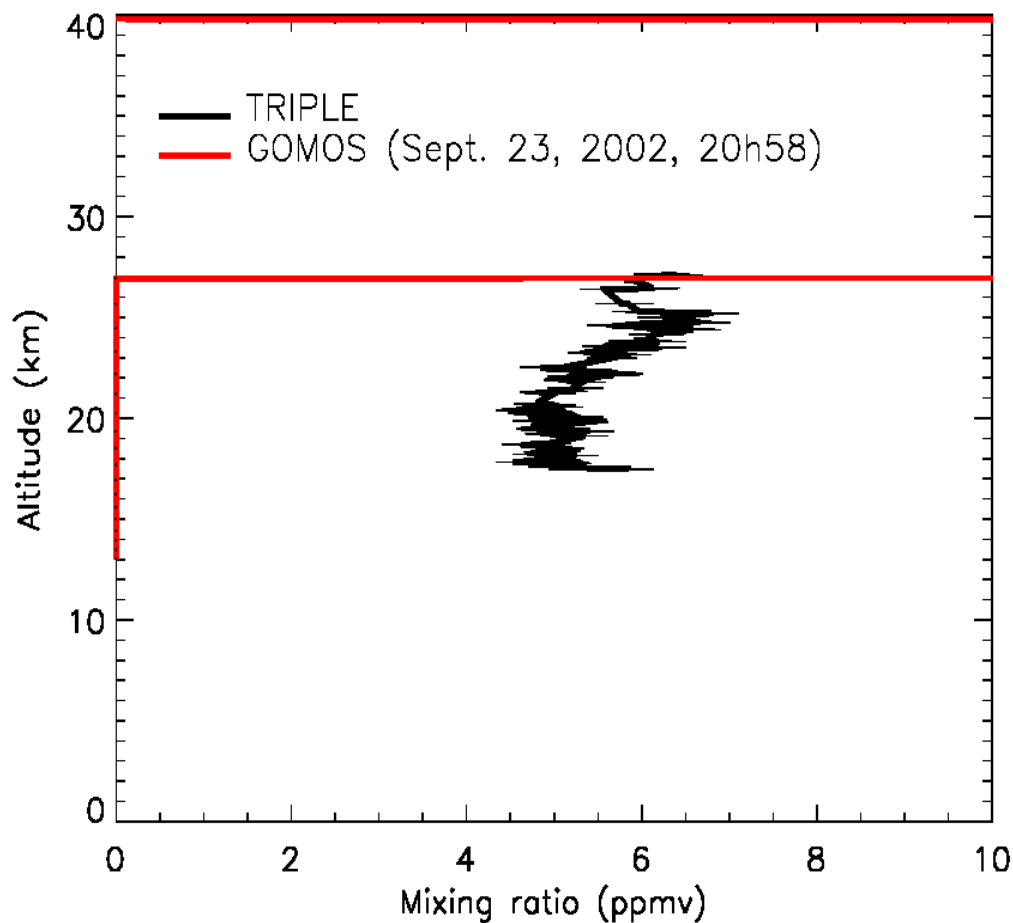
Balloon instruments (mid and high latitudes)

- ELHYSA
- TRIPLE

Satellite instrument

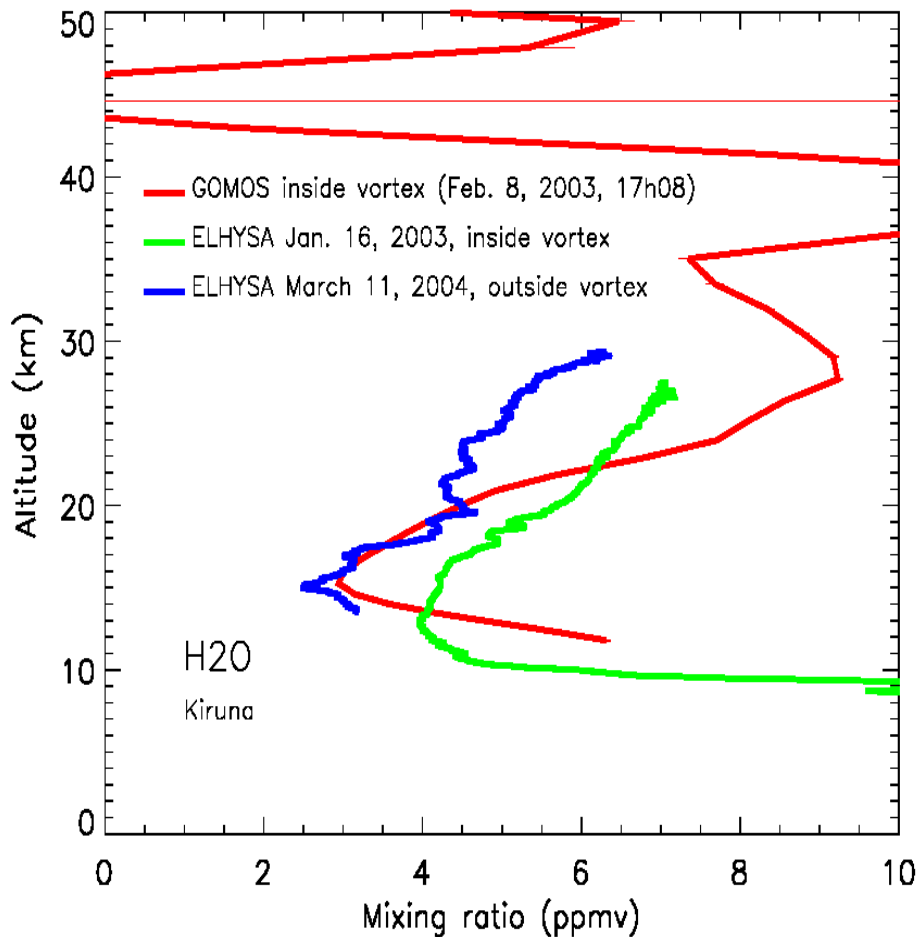
- SAGE II (version 6.2)

TRIPLE : Aire sur l'Adour, France, Sept. 23, 2002



- Star N° 31 (magnitude 1.7)
- No comment ...

ELHYSA : Kiruna, Sweden, inside and outside the vortex



- Brightest star (Sirius)

- Global values in the middle and lower stratosphere acceptable

BUT

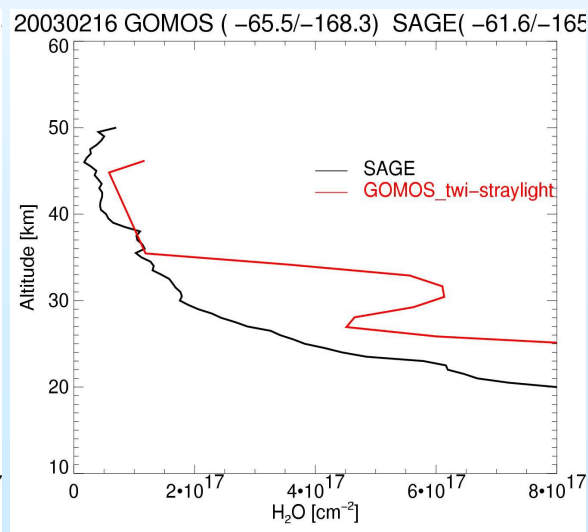
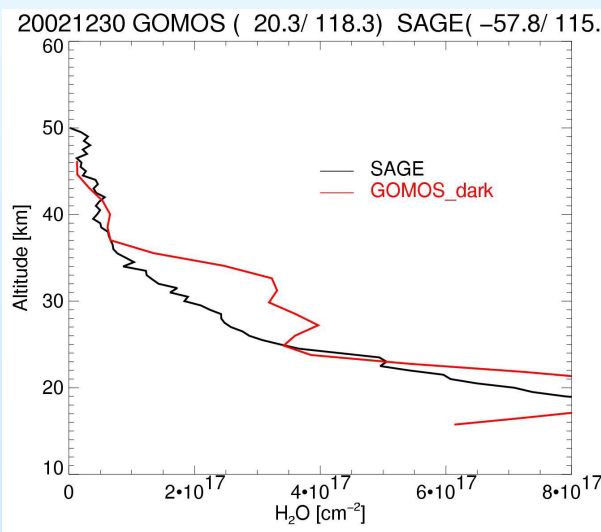
- Unrealistic profile, since lowest mixing ratios inside the vortex close to ELHYSA values outside the vortex

SAGE II

- 223 collocations for Sept. 1, 2002 to March 31, 2003 (SAGE II within 250 km of GOMOS during the same day)

GOMOS dark

GOMOS twilight



- Best profiles
- Large discrepancies

Conclusion

The detection of H_2O in the visible and near infra-red need further studies ...