



Climatology and comparison of ozone from ENVISAT/GOMOS and SHADOZ/balloon-sonde observations in the so uthern tropics

http://www.firstlight.cn 2010-08-30

In this paper, the stellar occultation instrument GOMOS is compared with ozonesondes from the SHADOZ network. We only used nig httime O3 profiles and selected 8 Southern Hemisphere stations. 7 years of GOMOS datasets (GOPR 6.0cf and IPF 5.0) and 11 years of ball oon-sondes are used in this study. A monthly distribution of GOMOS O3 mixing ratios was performed in the upper-troposphere and in the st ratosphere (15–50 km). A comparison with SHADOZ was made in the altitude range between 15 km and 30 km.

In the 21-30 km altitude range, a satisfactory agreement was observed between GOMOS and SHADOZ, although some differences wer e observed depending on the station. The range for monthly differences generally decreases with increasing height and is within $\pm 15\%$. It was found that the agreement between GOMOS and SHADOZ declines below ~ 20 km. The median differences are almost within $\pm 5\%$, particularly above 23 km. But a large positive bias was found below 21 km, in comparison to SHADOZ.

存档文本

我要入编 | 本站介绍 | 网站地图 | 京ICP证030426号 | 公司介绍 | 联系方式 | 我要投稿

北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn