Status of ILAS data processing for temperature retrievals

Takafumi Sugita [1], Tatsuya Yokota [2], Hideaki Nakajima [3], Yasuhiro Itou [4], Yasuhiro Sasano [3], Yasushi Uehara [5]

[1] Satellite Team, Global Environ. Div., NIES, [2] CGER, NIES, [3] NIES, [4] Fujitsu FIP, [5] Fric CCSE

We present a status of data processing for temperature and pressure retrievals from data obtained by a visible channel of the Improved Limb Atmospheric Spectrometer (ILAS) which was on board the ADEOS satellite launched in August 1996. The main factors for the uncertainty in the temperature and pressure retrievals are the instrument function of the visible spectrometer and a data base of oxygen A-band line parameters. Since an instrumental temperature dependence of the instrument function has been suggested, we are now investigating a way to take it into account (e.g. using the multiple regression analysis). We will also present a result of the retrievals using a data base compiled by a recent laboratory experiment for the oxygen A-band line parameters.