Abstract Details

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Corresponding Author : Prof. Toshitaka Tsuda (tsuda@rish.kyoto-u.ac.jp)

Organization: Research Institute for Sustainable Humanosphere (RISH), Kyoto Uni

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Title: IWG01; Peculiar behavior of tropopause observed in tropical and ext tropical latitudes with CHAMP/GPS Radio Occultation measurements

Abstract:

A global analysis of structure and variability of tropopause is present analysis is based on radio occultation measurements by CHAMP/GPS May 2001 to December 2003 (123,923 occultations). Tropopause hei defined by conventional lapse rate and cold point tropopause (LRT an is found to be increasing from tropics to extra tropical latitudes in cor earlier observations. This feature is more prominently observed in th and Pacific oceans, and less observed in the parts of North and South America. Moreover the height of the tropopause is found to be increa significantly in winter hemisphere. Significant hemispheric differences found both in the tropopause height and temperature. To elucidate th observed nature of the tropopause, we discuss the role of dynamical processes and their impact on chemical composition.

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Co-Authors

No.	Title	First Name	Family Name	Organization
1	Dr.	Toshitaka	Tsuda	RISH, Kyoto Univ
2	Dr.	Masato	Shiotanai	RISH, Kyoto Univ
3	Dr.	Vekat Ratnam	Madineni	RISH, Kyoto Univ