The Third International SOWER Meeting
Lake Shikotsu, July 18–20, 2006
Kyukamura Shikotsuko, Lake Shikotsu, Japan

*** July 18

10:00– 10:20	F. Hasebe, Hokkaido Univ., Japan	Opening remarks
< Water Vapor, Ozone and Aerosol >		
10:20– 10:50	S. Oltmans, NOAA, USA	Comparison of the Boulder water vapor record with the UARS/HALOE and AURA/MLS observations
10:50– 11:20	K. Rosenlof, NOAA, USA	Changes in stratospheric water vapor and tropical UTLS temperatures since late 2000
11:20– 11:30	K. Rosenlof, NOAA, USA	Impact of tropical storms on UT water vapor
11:30– 11:50	Y. Inai, Hokkaido Univ., Japan	"Cold trap" dehydration in the TTL estimated from the water vapor MATCH
11:50– 13:00	(Lunch)	
13:00– 13:30	H. Vömel, NOAA, USA	Intensive TTL dehydration studies during the warm and cold tropopause season: Costa Rica and Indonesia observations 2005/2006
13:30– 13:40	H. Vömel, NOAA, USA	Overview of the CEPEX campaign
13:40– 14:00	K. Koishi, Kyoto Univ., Japan	Relationship between the water vapor variation and the tropical tropopause structure during CEPEX
14:00– 14:30	S. Ogino, JAMSTEC, Japan	Ozone and water vapor observation in Hanoi, Vietnam
14:30– 15:00	H. Takashima, Kyoto Univ. Japan	Ozone and water vapor variations at Christmas Island in the central equatorial Pacific
15:00– 15:30	(Break)	
15:30– 16:00	N. Komala, LAPAN, Indonesia	Long-term ozone observation in Indonesia
16:00– 16:30	M. Niwano, JAMSTEC, Japan	Seasonal and QBO variations of background aerosols in the UT/LS region from the SAGE II
16:30– 17:00	T. Kojima, Kumamoto Univ., Japan	Aerosol particles from the upper troposphere and lower stratosphere: Results from CRYSTAL-FACE

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< Background Variations >

8:30– 9:00	M. Fujiwara, Hokkaido Univ., Japan	Tropopause cirrus variation by equatorial Kelvin waves
9:00– 9:30	V. Ratnam, Kyoto Univ., Japan	Kelvin waves as observed by Radiosondes and GPS measurements and their effects on the tropopause structure: Long–term variations
9:30– 10:00	J. Suzuki, Kyoto Univ., Japan	Space–time variations of equatorial Kelvin wave activity around the tropical tropopause region
10:00– 10:20	(Break)	
10:20– 10:50	N. Nishi, Kyoto Univ., Japan	Observation of the vertical motion in the tropical upper troposphere
10:50– 11:20	M. Yamamoto, Kyoto Univ., Japan	Vertical wind observation by VHF wind profiler installed at Sumatra, Indoensia (0.2S, 100.32E)
11:20– 11:50	N. Hashiguchi, Kyoto Univ., Japan	Spatial structure of semiannual component in tropical tropopause temperature and height
11:50– 12:10	H. Hoang, AMO, Vietnam	Meteorological observations in Vietnam
12:10– 13:10	(Lunch)	

< Cloud Physics/Lidar Observations 1 >

13:10– 13:40	F. Immler, AWI, Germany	Subvisual cirrus and dehydration in the tropical tropopause layer: Observations from Paramaribo/Suriname
13:40– 14:10	P. Fortuin, DWW, Netherland	Origin and transport of tropical cirrus clouds observed over Paramaribo station, Surinam (6N, 55W)
14:10– 14:40	H. Okamoto, Tohoku Univ., Japan	Retrieval results of ice clouds by cloud profiling radar and lidar
14:40– 15:00	K. Sato, Tohoku Univ., Japan	Microphysics and sedimentation velocity of ice clouds
15:00– 15:30	N. Eguchi, NIES, Japan	Impact of the 2002 stratospheric warming in the southern hemisphere on the tropical cirrus clouds and convective activity
15:30– 16:00	(Break)	
16:00– 17:00	All participants	Discussion about papers by Warick Norton* * Kerr–Munslow and Norton, 2006: Tropical Wave Driving of the Annual Cycle in Tropical Tropopause Temperatures. Part I: ECMWF Analyses, JAS, 63, 1410– 1419. Norton, 2006: Tropical Wave Driving of the Annual Cycle in Tropical Tropopause Temperatures. Part II: Model Results, JAS, 63, 1420– 1431.

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< Cloud Physics/Lidar Observations 2 >

8:30– 9:00	A. Gettelman, NCAR, USA	Global observations of ice supersaturation and the implications for cloud microphysics and chemistry
9:00– 9:30	S. Hamdi, LAPAN, Indonesia	Vertical distribution of subvisible cirrus cloud over Bandung, Indonesia
9:30– 10:00	T. Shibata, Nagoya Univ., Japan	Lidar observed cirrus clouds over Bandung and Biak, Indonesia
10:00– 10:30	(Break)	
10:30– 11:00	M. Shiotani, Kyoto Univ., Japan	Cirrus cloud and temperature variations around the tropical tropopause observed from the lidar measurement on board the research vessel "MIRAI"
11:00– 11:30	S. Iwasaki, NDA, Japan	Characteristics of subvisual cirrus clouds measured with a lidar in
11:30– 12:00	K. Suzuki, Yamaguchi Univ., Japan	Videosonde observations in the tropics
12:00– 13:00	(Lunch)	

< Modeling and Water Isotope >

13:00– 13:30	Y. Tsushima, JAMSTEC, Japan	Clouds and water vapor in the upper troposphere in GCMs, observations and a global cloud resolving model
13:30– 14:00	T. Nasuno, JAMSTEC, Japan	Development of Nonhydrostatic ICosahedral Atmospheric Model (NICAM) – a challenge to global cloud-resolving climate simulation
14:00– 14:20	Y. Kubokawa, Hokkaido Univ. Japan	Tropical tropopause layer in NICAM under an aqua planet condition
14:20– 14:50	(Break)	
14:50– 15:20	A. Gettelman, NCAR, USA	Stable istotopes of water in the Tropical Tropopause Layer and implications for dehydration
15:20– 15:50	Y. Kasai, NICT, Japan	Water vapor and ice cloud observation by satellite-born submillimetre radiometer
15:50– 16:20	N. Kurita, JAMSTEC, Japan	The feature of GCM simulated vertical isotopic profile in the tropical
16:20– 16:50	All participants	Discussion about the next SOWER campaign
16:50– 17:00	Closing	