

## APPENDIX B

### Participants and their Affiliations

Tom **Ackerman**, Pacific Northwest National Laboratory, 902 Battelle Boulevard, P.O. Box 999 Richland, Washington 99352 U.S.A., phone: +1-814-865-2915, fax: +1-814-865-3663, e-mail: Ackerman@pnl.gov

Kenji **Akaeda**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052, Japan, phone: +81-298-53-8579, fax: +81-298-56-0644, e-mail: kakaeda@mri-jma.go.jp

Kazuhiro **Asai**, Faculty of Engineering, Tohoku Institute of Technology, 35-1 Yagiyama-kasumi, Taihaku-ku, Sendai 982-0831, Japan, phone: +81-22-229-1151, fax: +81-22-228-2452, e-mail: asai@titan.tohtech.ac.jp

Shoji **Asano**, Center for Atmospheric and Oceanic Studies, Tohoku University, Aoba-ku Sendai 980-8578, Japan, phone: +81-22-217-6741, fax: +81-22-217-5797, e-mail: s-asano@mail.cc.tohoku.ac.jp

Kultegin **Aydin**, Pennsylvania State University, Department of Electrical Engineering, 314 EE East University Park, PA 16802, U.S.A., phone: +1-814-865-2355, fax: +1-814-863-8457, e-mail: k-aydin@psu.edu

J. P. V. Poiares **Baptista**, D/TOS-EEP, European Space Agency/ESTEC, Keplerlaan 1 NL-2200 AG Noordwijk, The Netherlands, phone: +31-71-565-4319, fax: +31-71-565-4999, e-mail: pedro@xe.estec.esa.nl

Gerhard **Ehret**, DLR Oberpfaffenhofen (Deutsches Zentrum fuer Luft- und Raumfahrt- German Aerospace Center) LIDAR Gruppe, Postfach 1116 D-82230 Wessling, Germany, phone: +49-8153-28-2509, fax: +49-8153-28-1271, e-mail: gerhard.ehret@dlr.de

Yasushi **Fujiyoshi**, Institute of Low Temperature Science, Hokkaido University, N10W5, Kita-ku, Sapporo 060-0810, Japan, phone: +81-11-706-5491, fax: +81-11-706-5491, e-mail: fujiyo@lowtem.hokudai.ac.jp

Kazuo **Gotoh**, Solar-Terrestrial Environment Laboratory, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-0814, Japan, phone: +81-52-789-4304, fax: +81-52-789-4301, e-mail: kgotoh@stelab.nagoya-u.ac.jp

Kyosuke **Hamazu**, Mitsubishi Electric Corporation, 2-2-3 Marunouchi Chiyoda-ku Tokyo 100-8310, Japan, phone: +81-3-3218-9128, fax: +81-3-3218-9492, e-mail: kyosuke.hamazu@hq.melco.co.jp

Kiyoyuki **Hata**, Mitsubishi Electric Corporation, 8-1-1 Tukaguchi-honmachi, Amagasaki 661-0001, Japan, phone: +81-6-6495-6167, fax: +81-6-6495-6330, e-mail: k.hata@cew.melco.co.jp

Tadahiro **Hayasaka**, Center for Atmospheric and Oceanic Studies, Tohoku University, Aoba-ku Sendai 980-8578, Japan, phone: +81-22-217-6742, fax: +81-22-217-6739, e-mail: hayasaka@mail.cc.tohoku.ac.jp

Katsunori **Hirayama**, TOSHIBA Co., 1 Toshiba-cho, Komukai, Saiwai-ku, Kawasaki 210-8581, Japan, phone: +81-44-548-5074, fax: +81-44-548-5859, e-mail: katsunori.hirayama@toshiba.co.jp

Hiroaki **Horie**, Kashima Space Research Center, Communications Research Laboratory, 893-1 Hirai, Kashima 314-0012, Japan, phone: +81-299-84-7120, fax: +81-299-84-7157, e-mail: horie@crl.go.jp

Huanling **Hu**, Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences, P. O. Box 1125, Hefei Anhui 230031, China, phone: +86-551-5591012, fax: +86-551-559-1572, e-mail: hlhu@aiofm.ac.cn

Toshio **Iguchi**, Global Environment Division, Communications Research Laboratory, 4-2-1 Nukui-Kitamachi, Koganei, Tokyo 184-8795, Japan, phone: +81-42-327-7543, fax: +81-42-327-6666, e-mail: iguchi@crl.go.jp

Anthony **Illingworth**, JCMM, Dept. of Meteorology, University of Reading, Reading RG6 6BB, U.K., phone: +44-118-9316508, fax: +44-118-9318905, e-mail: A.J. Illingworth@reading.ac.uk.

Tadashi **Imai**, Electronic and Information Technology Laboratory, Office of Research and Development, Tsukuba Space Center, National Space Development Agency of Japan (NASDA), 2-1-1 Sengen, Tsukuba 305-0047, Japan, phone: +81-298-52-2440,

fax: +81-298-52-2299, e-mail: imai.tadashi@nasda.go.jp

Ryoichi **Imasu**, National Institute for Resources and Environment, 16-3 Onogawa, Tsukuba 305-0053, Japan, phone: +81-298-61-8386, fax: +81-298-61-8358, e-mail: imasu@nire.go.jp

Paul **Ingmann**, D/TOS-EEP, European Space Agency/ESTEC, Keplerlaan 1 NL-2200 AG Noordwijk, The Netherlands, phone: +31-71-565-4459, fax: +31-71-565-5675, e-mail: pingmann@jw.estec.esa.nl

Toshiro **Inoue**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8669, fax: +81-298-55-2683, e-mail: tinoue@mri-jma.go.jp

Hiroshi **Ishimoto**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052, Japan, phone: +81-298-53-8576, fax: +81-298-56-0644, e-mail: hishimot@mri-jma.go.jp

Mitsuo **Ishizu**, Electronic and Information Technology Laboratory, Office of Research and Development, National Space Development Agency of Japan(NASDA), Tsukuba Space Center, 2-1-1 Sengen, Tsukuba 305-0047 Japan, phone: +81-298-52-2440, fax: +81-298-52-2299, e-mail: ishizu.Mitsuo@nasda.go.jp

Koyuru **Iwanami**, Atmospheric and Hydrospheric Science Division, National Research Institute for Earth Science and Disaster Prevention, 3-1 Tennodai, Tsukuba 305-0006, Japan, phone: +81-298-51-1611 (ext.543), fax: +81-298-51-6451, e-mail: iwanami@ess.bosai.go.jp

Suginori **Iwasaki**, Graduate School of Science and Technology, Kobe University, 1-1 Rokkodai-cho, Nada-ku, Kobe 657-8501, Japan, phone: +81-78-803-5740, fax: +81-78-803-5349, e-mail: iwasaki@mint.planet.kobe-u.ac.jp

Toshiki **Iwasaki**, Geophysical Institute, Graduate School of Science, Tohoku University, Aoba-ku, Sendai 980-8578 Japan, phone: +81-22-217-5779, fax: +81-22-217-7758, e-mail: iwasaki@wind.geophys.tohoku.ac.jp

Yasuaki **Kawamura**, Electronic and Information Technology Laboratory, NASDA,

2-1-1 Sengen, Tsukuba 305-0047 ,Japan, phone: +81-298-52-2264, fax: +81-298-52-2299, e-mail: kawamura.yasuaki@nasda.go.jp

Takahisa **Kobayashi**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8585, fax: +81-298-56-0644, e-mail: kobay@mri-jma.go.jp

Akira **Kodato**, Mitsubishi Electric Corporation, 2-2-3 Marunouchi Chiyoda-ku Tokyo 100-8310 Japan, phone: +81-3-3218-2778, fax: +81-3-3218-2779, e-mail: akira kodato@hq.melco.co.jp

Naomi **Kuba**, Frontier Research System for Global Change, SEAVANS N7F 1-2-1 Sibaura, Minato-ku, Tokyo 105-6791 Japan, phone: +81-3-5765-7100 (436), fax: +81-3-5232-2440, e-mail:kuba@frontier.esto.or.jp

Hiroshi **Kumagai**, Kashima Space Research Center, Communications Research Laboratory, 893-1 Hirai, Kashima 314-0012 Japan, phone: +81-299-84-7105, fax: +81-299-84-7155, e-mail:kumagai@crl.go.jp

Hiroshi **Kuroiwa**, Kashima Space Research Center, Communications Research Laboratory, 893-1 Hirai, Kashima 314-0012 Japan, phone: +81-299-84-7117, fax: +81-299-84-7157, e-mail:kuroiwa@crl.go.jp

Shoji **Kusunoki**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8595, fax: +81-298-55-2552, e-mail: skusunok@mri-jma.go.jp

Andre van **Lammeren**, Royal Netherlands Meteorological Institute, P.O. Box 201 3730 AE De Bilt, The Netherlands, phone: +31-30-220-6385, fax: +31-30-221-0407, e-mail: lammeren@knmi.nl

C. C. **Lin**, ESTEC (APP-FPE), PO Box 299 2200 AG Noordwijk, The Netherlands, phone: +31-71-565-5813, fax: +31-71-565-4696, e-mail:clin@estec.esa.nl

Zhaoyan **Liu**, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba 305-0053 ,Japan, phone: +81-298-50-2459, fax: +81-298-51-4732, e-mail:

liu@nies.go.jp

Gerald **Mace**, Meteorology Department, University of Utah, 135 S 1460 E Rm 819 (819 WBB), Salt Lake City, UT 84112-0110 U.S.A., phone: +1-801-585-9489, fax: +1-801-585-3681, e-mail:mace@met.utah.edu

Ken-ichi **Maruyama**, Frontier Research System for Global Change, SEAVANS N7F 1-2-1 Sibaura, Minato-ku, Tokyo 105-6791, Japan, phone: +81-3-5765-7100 (431), fax: +81-3-5765-7103, e-mail: maruyama@frontier.esto.or.jp

Kazuhiko **Masuda**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8577, fax: +81-298-56-0644, e-mail: masuda@mri-jma.go.jp

Harunobu **Masuko**, Global Environment Division, Communications Research Laboratory, 4-2-1 Nukui-Kitamachi, Koganei, Tokyo 184-8795 Japan, phone: +81-42-327-7541, fax: +81-42-327-6665, e-mail: masuko@crl.go.jp

Sergey Y. **Matrosov**, NOAA/Environmental Research Laboratories /Environmental Technology Laboratory, 325 Broadway, R/E/ET6 Boulder, CO 80303, U.S.A., phone: +1-303-497-6201, fax:+1-303-497-6181, e-mail:smatrosov@etl.noaa.gov

Ryohei **Misumi**, National Research Institute for Earth Science and Disaster Prevention, 3-1 Tennodai, Tsukuba 305-0006 Japan, phone: +81-298-51-1611, fax: +81-298-51-1622, e-mail:misumi@ess.bosai.go.jp

Takashi **Moriyama**, Strategic Planning Manager, Earth Observation Planning Department, Office of Earth Observation Systems, NASDA, World Trade Center Bldg. 2-4-1 Hamamatsu-cho, Minato-ku, Tokyo 105-8060 Japan, phone: +81-3-3438-6332, fax: +81-3-5401-8702, e-mail: Moriyama.Takashi@nasda.go.jp

Natsuhiko **Motomura**, Earth Science and Technology Organization (ESTO), SEAVANS N7F 1-2-1 Sibaura, Minato-ku, Tokyo 105-6791 Japan, phone: +81-3-5418-7182, fax: +81-3-5418-7170, e-mail:motomura@hq.esto.or.jp

Teruyuki **Nakajima**, Center for Climate System Research, The University of Tokyo,

4-6-1 Komaba, Meguro-ku, Tokyo 153-8904 Japan, phone: +81-3-5453-3959, fax: +81-3-5453-3964, e-mail: teruyuki@ccsr.u-tokyo.ac.jp

**Hirotaka Nakatsuka**, TOSHIBA Co., 1 Toshiba-cho, Komukai, Saiwai-ku, Kawasaki 210-8581 Japan, phone: +81-44-548-5074, fax: +81-44-548-5859, e-mail: hirotaka.nakatsuka@toshiba.co.jp

**Atusi Numaguti**, Graduate School of Environmental Earth Science, Hokkaido University, N10W5, Kita-ku, Sapporo 060-0810 Japan, phone: +81-11-706-2365, fax: +81-11-706-4865, e-mail: numa@ees.hokudai.ac.jp

**Hajime Okamoto**, Kashima Space Research Center, Communications Research Laboratory 893-1 Hirai, Kashima 314-0012 Japan, phone: +81-299-84-7119, fax: +81-299-84-7157, e-mail: hokamoto@crl.go.jp

**Tomoaki Ose**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8596, fax: +81-298-55-2552, e-mail: ose@mri-jma.go.jp

**Yoshiyuki Otake**, Earth Science and Technology Organization, SEAVANS N7F 1-2-1 Sibaura, Minato-ku, Tokyo 105-6791 Japan, phone: +81-3-5418-7175, fax: +81-3-5418-7170, e-mail: otake@hq.esto.or.jp

**Sang-Goon Park**, Atmospheric and Hydrospheric Division, National Research Institute for Earth Science and Disaster Prevention, 3-1 Tennodai, Tsukuba 305-0006 Japan, phone: +81-298-51-1611 (ext.543), fax: +81-298-51-6451, e-mail: sgpark@ess.bosai.go.jp

**Ehrhaed Raschke**, GKSS Forschungszentrum Institute for Atmospheric Physics, Max-Planck-Strasse, D-21502, Geesthacht, Germany, phone: +49-4152-871533, fax : +49-4152-872020, e-mail: raschke@gkss.de

**Masayuki Sasaki**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8748, fax: +81-298-56-0644, e-mail: msasaki@mri-jma.go.jp

**Yasuhiro Sasano**, National Institute for Environmental Studies, 16-2 Onogawa,

Tsukuba 305-0053 Japan, phone: +81-298-50-2444, fax: +81-298-50-2575, e-mail: sasano@nies.go.jp

Guang-Yu **Shi**, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing 100029, China, phone: +86-10-6204-0674, fax: +86-10-6204-6358, e-mail: shigy@linux2.jap.ac.cn

Kunio **Shimizu**, Department of Mathematics, Faculty of Science and Technology, Keio University, 3-14-1 Hiyoshi, Kohoku-ku, Yokohama 223-8522, Japan, phone: +81-45-563-1141 (3730), fax: +81-45-563-5948, e-mail: shimizu@math.keio.ac.jp

Atsushi **Shimizu**, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba 305-0053 Japan, phone: +81-298-50-2489, fax: +81-298-51-4732, e-mail: shimizua@nies.go.jp

Masataka **Shiobara**, National Institute of Polar Research, 1-9-10 Kaga, Itabashi-ku, Tokyo 173-8515 Japan, phone: +81-3-3962-4740, fax: +81-3-3962-4914, e-mail: shio@nipr.ac.jp

Graeme L. **Stephens**, Atmospheric Science Department, Colorado State University, Fort Collins, CO 80523-1371, U.S.A., phone: +1-970-491-8550, fax: +1-970-491-8449, e-mail: stephens@reef.atmos.colostate.edu

Nobuo **Sugimoto**, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba 305-0053 Japan, phone: +81-298-50-2459, fax: +81-298-51-4732, e-mail: nsugimot@nies.go.jp

Kiyotoshi **Takahashi**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8670, fax: +81-298-55-2552, e-mail: ktakahas@mri-jma.go.jp

Tamio **Takamura**, Center for Environmental Remote Sensing, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522 Japan, phone: +81-43-290-3877, fax: +81-43-290-3857, e-mail: takamura@rsirc.cr.chiba-u.ac.jp

Yukari N. **Takayabu**, National Institute for Environmental Studies, 16-2 Onogawa,



Tsukuba 305-0053 Japan, phone: +81-298-50-2472, fax: +81-298-51-4732, e-mail:yukari@nies.go.jp

Toshihiko **Takemura**, Center for Climate System Research, The University of Tokyo, 4-6-1 Komaba, Meguro-ku, Tokyo 153-8904 Japan, phone: +81-3-5453-3950, fax: +81-3-5453-3964, e-mail:toshi@ccsr.u-tokyo.ac.jp

Koji **Terada**, Earth Observation Planning Department, Office of Earth Observation Systems, NASDA, World Trade Center Bldg. 2-4-1 Hamamatsu-cho, Minato-ku, Tokyo 105-8060 Japan, phone: +81-3-3438-6345, fax: +81-3-5401-8702, e-mail:terada.kohji@nasa.go.jp

Jacques **Testud**, CETP-UVSQ Center, Universitaire de Velizy, 10-12, Avenue de l'Europe 78140 Velizy, France, phone: +33-1-3925-4776, fax: +33-1-3925-4922, e-mail: testud@cetp.ipsl.fr

Yoko **Tsushima**, Frontier Research System for Global Change, SEAVANS N7F 1-2-1 Sibaura, Minato-ku, Tokyo 105-6791 Japan, phone: +81-3-5765-7100, fax: +81-3-5765-7103, e-mail: tsussi@frontier.esto.or.jp

Osamu **Uchino**, Atmospheric Environment Division, Japan Meteorological Agency, 1-3-4 Ote-machi, Chiyoda-ku, Tokyo 100-8122 Japan, phone: +81-3-3212-8341 (ext4196), fax: +81-3-3211-4640, e-mail: ouchino@met.kishou.go.jp

Akihiro **Uchiyama**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8605, fax: +81-298-55-2552, e-mail: uchiyama@mri-jma.go.jp

Deborah G. **Vane**, Observational Systems Division, Jet Propulsion Laboratory, Mail Stop 233-306, 4800 Oak Grove Drive, Pasadena, CA 91109, U. S. A., phone: +1-818-354-3708, fax: +1-818-393-9899, e-mail: Deborah.G.Vane@jpl.nasa.gov

Peter **Voelger**, Upper-Atmospheric Environment Section, Atmospheric Environment Division, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba 305-0053 Japan, phone: +81-298-50-2459, fax: +81-298-51-4732, e-mail: peter.voelger@nies.go.jp

Steven J. **Walter**, Observational Systems Division, Jet Propulsion Laboratory, JPL Mail Stop 246-101, 4800 Oak Grove Drive, Pasadena, CA 91109, U. S. A., phone: +1-818-354-1626, fax: +1-818-354-4341, e-mail: [steven.j.walter@jpl.nasa.gov](mailto:steven.j.walter@jpl.nasa.gov)

David M. **Winker**, Atmospheric Sciences MS/475, NASA Langley Research Center, Hampton, VA 23681, U. S. A., phone: +1-757-864-6747, fax: +1-757-864-2671, e-mail: [d.m.winker@larc.nasa.gov](mailto:d.m.winker@larc.nasa.gov)

Akira **Yamamoto**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8619, fax: +81-298-55-7240, e-mail: [ayamamot@mri-jma.go.jp](mailto:ayamamot@mri-jma.go.jp)

Takashi **Yamanouchi**, National Institute of Polar Research, 1-9-10 Kaga, Itabashi-ku, Tokyo 173-8515 Japan, phone: +81-3-3962-5680, fax: +81-3-3962-5701, e-mail: [yamanou@pmg.nipr.ac.jp](mailto:yamanou@pmg.nipr.ac.jp)

Akihiro **Yamazaki**, Meteorological Research Institute, 1-1 Nagamine, Tsukuba 305-0052 Japan, phone: +81-298-53-8607, fax: +81-298-55-2552, e-mail: [akyamaza@mri-jma.go.jp](mailto:akyamaza@mri-jma.go.jp)

Jiahua **Zhang**, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba 305-0053, Japan, phone: +81-298-50-2431, fax: +81-298-51-4732, e-mail: [zhang.jiahua@nies.go.jp](mailto:zhang.jiahua@nies.go.jp)