[POSTER 5]

Date / Time	(Fri.) October 8, 2021 / 14:00-14:50 (UTC)
Session Code	FRI3
Session Chair	Corinne Vigouroux, Valerie Thouret

[FRI3_1] 14:00-14:02

Two Complementary Tropospheric Ozone Column Data Records based on Total Columns from GOME, SCIAMACHY, GOME-2, OMI and TROPOMI and Stratospheric Columns from BASCOE/MLS

Klaus-Peter Heue[1,2], Diego Loyola[1], Fabian Romahn[1], Melanie Coldewey-Egbers[1], Christophe Lerot[3], Simon Chabrillat[3], and Quentin Errera[3]

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[FRI3_2] 14:02-14:04

Tropospheric Ozone Column Dataset Derived by Combination of Nadir and Limb Satellite Measurements

Viktoria F. Sofieva[1], Risto Hänninen[1], Mikhail Sofiev[1], Monika Szelag[1], Hei Shing Lee[1], Johanna Tamminen[1], and Christian Retscher[2]

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[FRI3_3] 14:04-14:06

Inter-Comparison and Evaluation of Tropospheric Ozone Reanalysis Products from CAMS, and TCR

Vincent Huijnen[1], Kazuyuki Miyazaki[2], Johannes Flemming[3], Antje Inness[3], and Takashi Sekiya[4]

[1]KNMI, The Netherlands, [2]NASA, USA, [3]ECMWF, UK, [4]JAMSTEC, Japan

[FRI3_4] 14:06-14:08

Evaluation of Tropospheric Ozone Reanalyses with Independent Ozonesonde Observations in East Asia

Sunmin Park[1], Seok-Woo Son[1], Myung-Il Jung[1], Jinkyung Park[1], and Sang Seo Park[2]

[1]Seoul National University, Republic of Korea, [2]UNIST, Republic of Korea

[FRI3_5] 14:08-14:10

Evaluation of the Total Column Ozone and Tropospheric Ozone in the CCMI1 Models over East Asia

Seo-Yeon Kim[1], Sunmin Park[2], and Seok-Woo Son[1]

[1]Seoul National University, Republic of Korea, [2]Korea University, Republic of Korea

V. Program Schedule

[FRI3_6] 14:10-14:12

Improving the Current Understanding of Tropospheric Ozone Processes with Coordinated Ozone Profiling by the Tropospheric Ozone Lidar Network (TOLNet)

John T. Sullivan[1], Michael J. Newchurch[2], Timothy A. Berkoff[1] Guillaume Gronoff[1,3], Shi Kuang[2], Andrew O. Langford[4], Christoph J. Senff[4,5], Raul J. Alvarez II[4], Thierry Leblanc[6], Fernando Chouza[6], Jia Su[7], M. Patrick McCormick[7], Matthew S. Johnson[1], Kevin Strawbridge[8], Fred Moshary[5], Michael Shook[1], and Gao Chen[1]

[1]NASA, USA, [2]University of Alabama, USA, [3]Science Systems and Applications Inc., USA, [4]NOAA, USA, [5]CIRES, USA, [6]CalTech, USA, [7]Hampton University, USA, [8]Environment and Climate Change Canada, Canada

[FRI3_7] 14:12-14:14

Stratosphere-Troposphere Exchange of Ozone and Carbon Monoxide over the North Pacific Ocean in Northern Winter using Two Chemical Reanalysis Data Sets

Haosen Xi and Masamoto Fujiwara

Hokkaido University, Japan

[FRI3_8] 14:14-14:16

Effect of Synoptic Scale Dynamics on the Vertical Distribution of Ozone over the Arabian Sea and Indian Ocean During the Boreal Winter of 2018

P. R. Satheesh Chandran[1,2], S. V. Sunilkumar[1], M. Muhsin[1,3], Maria Emmanuel[1,2], and Hemanth Kumar[4]

[1]VSSC, India, [2]University of Kerala, India, [3]National Institute of Technology, India, [4]NARL, India

[FRI3_9] 14:16-14:18

Comparison between Two Events with Ozone-Poor Masses Originating from the South Pole and the Tropics over the City of Durban, South Africa

Fabio Henrique Corrêa[1], Gabriela Dornelles Bittencourt[1], Damaris Kirsch Pinheiro[1], and Hassan Bencherif[2]

[1]UFSM, Brazil, [2]LACy, France

[FRI3_10] 14:18-14:20

Origin of Tropospheric Air Masses in the Tropical West Pacific Inferred from Balloon-Borne Ozone and Water Vapour Observations from Palau

Katrin Müller, Ingo Wohltmann, Peter von der Gathen, Ralph Lehmann, and Markus Rex

Alfred-Wegener-Institute, Germany

[FRI3_11] 14:20-14:22

Multi-Year of Dynamics of Vertical Ozone Distribution in the Troposphere over the South of Western Siberia

P.N. Antokhin, V.G. Arshinova, M.Yu. Arshinov, B.D. Belan, S.B.Belan, D.K. Davydov, A.V.Fofonov, T. M. Rasskazchikova, D.E. Savkin, D.V. Simonenkov, T.K. Sklyadneva, and G.N. Tolmachev

V.E. Zuev Institute of Atmospheric Optics r SB RAS, Russia

[FRI3_14] 14:26-14:28

Ozone Observations over Open Oceans on R/V Mirai from 67°S to 75°N since 2012: Testing Global Chemical Reanalysis TCR-2 in terms of Arctic Processes and Low Ozone Levels at Low Latitudes

Yugo Kanaya[1], Kazuyuki Miyazaki[2,1], Fumikazu Taketani[1], Takuma Miyakawa[1], Hisahiro Takashima[1,3], Xiaole Pan[1,4], Saki Kato[3], Kengo Sudo[1,5], Takashi Sekiya[1], Jun Inoue[6], Kazutoshi Sato[7], and Kazuhiro Oshima[1,8]

[1]JAMSTEC, Japan, [2]CalTech, USA, [3]Fukuoka University, Japan, [4]Chinse Academy of Sciences, China, [5]Nagoya University, Japan, [6]National Institute of Polar Research, Japan, [7]Kitami Institute of Technology, Japan, [8]Rokkasho Institute of Environmental Sciences, Japan

[FRI3_15] 14:28-14:30

South America and Africa Biomass Burning Influence on the Seasonality of the Tropospheric Ozone over Natal, Brazil

Damaris Kirsch Pinheiro[1], Hassan Bencherif[2], Lucas Vaz Peres[3], Gabriela Dornelles Bittencourt[1], Nelson Bègue[2], Maria Paulete Pereira Martins[4], and Francisco Raimundo da Silva[4]

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[FRI3_16] 14:30-14:32

Surface Ozone Concentration over Russian Territory in 2020-2021

E.V. Stepanov[1], V.V. Andreev[2], M.Yu. Arshinov[3], B.D. Belan[3], S.B. Belan[3], Chelibanov[4], V.P. Chelibanov[4], D.K. Davydov[3], N.F. Elansky[5], G.A. Ivlev[3], A.V. Kozlov[3], S.N. Kotel'nikov[1], I.N. Kuznetsova[6], V.A. Lapchenko[7], E.A. Lezina[8], O.V. Postylyakov[5], D.E. Savkin[3], I.A. Senik[3], G.N. Tolmachev[3], A.V. Fofonov[3], and I.V. K.A. Shukurov[5]

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[FRI3_17] 14:32-14:34

Application of Adjacened-Avarage to Analysis of Longterm Surface Ozone Courses

Eugene V. Stepanov

A. M. Prokhorov General Physics Institute, RAS, Russia

[FRI3_18] 14:34-14:36

Variation of Surface Ozone, NOx, CO, BTEX, SO_2 and NH_3 in Kannur- A South Indian Coastal City

Nishanth T[1], Resmi CT[2], and Satheesh Kumar MK[3]

[1]Sree Krishna College Guruvayur, India, [2]Erode Arts and Science College, India, [3]MAHE, India

V. Program Schedule

[FRI3_19] 14:36-14:38
Preliminary Study of the Characterization of Surface Ozone in the Marambio Station for the Period 2012-2018
Gerardo Carbajal Benítez, María Elena Barlasina, and Lino Fabian Condori
National Meteorological Service (SMN), Argentina

[FRI3_20] 14:38-14:40
Long-Term Changes in Seasonal Cycle of Surface Ozone over Japan with Continuous Air Quality Monitoring Records for 1980-2015
Natsumi Kawano, Tatsuya Nagashima, and Seiji Sugata
National Institute for Environmental Studies, Japan

[FRI3_21] 14:40-14:42
Surface Ozone Trends over a 21-year Period at El Arenosillo Observatory: Emission Precursors, Weather Conditions and Implications on Air Quality
José A Adame[1], Isidoro Gutierrez-Alvarez [2], Paolo Cristofanelli[3], Alberto Notario[4,5], Jose A. Bogeat[1], Antonio Lopez[1], Alvaro Gómez[1], Juan P. Bolívar[2], and Margarita Yela[1]
[1]National Institute for Aerospace Technology (INTA), Spain, [2]University of Huelva, Spain, [3]National Research Council of Italy, Italy, [4]Universidad de Castilla-La Mancha, Spain, [5]ICCA-UCLM, Spain

[FRI3_22] 14:42-14:44
Patterns and Trends of Ozone and Carbon Monoxide at Ushuaia (Argentina) Observatory
José A Adame[1], Olga Puentedura[1], Laura Gómez[1], Lino Condorí[2], Gerardo Carbajal[2,4], María E. Barlasina[2], and Margarita Yela[1]
[1]National Institute for Aerospace Technology (INTA), Spain, [2]National Meteorological Service (SMN), Argentina, [4]Pontificia Universidad Católica Argentina, Argentina

[FRI3_23] 14:44-14:46
Introducing New Lightning Schemes to a Chemistry Climate Model CHASER (MIROC)
Yanfeng He[1], Kengo Sudo[1,2], and H.M.S. Hoque[1]
[1]Nagoya University, Japan [2]JAMSTEC, Japan

[FRI3_24] 14:46-14:48
Ozonesonde Profiles at Reunion Island (21.1°S, 55.5°E) in the Indian Ocean, and Impact of Convection on the Upper-Tropospheric Composition
Jerome Brioude[1], Stephanie Evan[1], Damien Héron[2], Jean-Marc Metzger[3], Kevin Lamy[1], and Françoise Posny[1]
[1]LACy, France, [2]LMD, CNRS-UMR8539, France, [3]OSU-R, UMS3365, CNRS, France