

Section OLD. Ozone Layer Dynamics

04.10.2022

Chair: A. Divin

9:00-9:30	Pavel Vargin , Sergey Kostykin, Evgeni Volodin	Arctic stratosphere dynamics changes in XXI century in simulations of INM CM5
9:30-10:00	Natalia Chubarova , Sergey Smyshlyaev, Anna Pastukhova, Vener Galin, Ekaterina Zhdanova	Long-term variability of ozone, cloudiness and UV irradiance over Northern Eurasia according to satellite measurements, re-analysis and model simulations
10:00-10:20	Arseniy Karagodin , Eugene Rozanov, Timofei Sukhodolov, Tatiana Egorova, Jan Sedlacek, Thomas Peter	The historical ozone trends simulated with the SOCOLv4 chemistry-climate model and their comparison with observations and reanalyses
10:20-10:40	Vladimir Zubov , Eugene Rozanov, Andrey Mironov	Annual cycle of polar ozone in the Southern Hemisphere. Model study with CCM SOCOL-3
10:40-11:00	Coffee break	
11:00-11:20	Victor Frolkis , Andrey Kiselev	Is there a correlation between the atmosphere Quasi Biennial Oscillation and total ozone and temperature in Antarctica changes?
11:20-11:40	Polina Pikulina , Irina Mironova, Eugene Rozanov, Timofei Sukhodolov, Arseniy Karagodin	Effect of solar activity on ozone-depleting gases and ozone in September 2017
11:40-12:00	Anastasia Imanova , Sergey Smyshlyaev, Eugene Rozanov	Analysis of factors affecting the interannual variability of polar ozone
12:00-12:20	Pavel Bezruchenko , Sergei Smyshlyaev	The impact of the Planetary Boundary Layer parameterization schemes on ozone and its precursors distribution.
12:20-12:40	Vladimir Guryanov , Anna Ionova	Ozone changes and circulation relationships from ERA5 reanalysis
12:40-14:00	Lunch break	

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Chair: S. Smyshlyaev

14:00-14:30	Alexander Uspenskiy , Alexey Rublev, Julia Kiseleva	Atmospheric ozone measurements from Russian weather satellites
14:30-15:00	Alexander Lukyanov , Vladimir Yushkov	Lagrangian studies of ozone loss inside the stable Arctic stratospheric vortex 2019-2020
15:00-15:20	Yuri Timofeyev , Georgy Nerobelov	Inverse problems in atmospheric physics

15:20-15:40	Alexander Polyakov , Yana Virolainen, Anatoly Poberovsky, Maria Makarova, Anastasiia Nikulina, Svetlana Akishina	Measurements of halogen-containing gases in the atmosphere at the St. Petersburg NDACC site
15:40-16:00	Coffee break	
16:00-16:20	Yana Virolainen , Alexander Polyakov, Yury Timofeyev, Georgy Nerobelov	Analysis of the variability of stratospheric gases near St. Petersburg using ground-based FTIR measurements
16:20-16:40	Andrej A. Popov , Nikolai M. Gavrillov, Vladimir I Perminov, Nikolay N. Pertsev, Irina V. Medvedeva, Petr P. Ammosov, Galina A Gavrilyeva, Igor I. Koltovskoi	Coherent and Non-Coherent Mesoscale Temperature Variances in OH Nightglow Observations
16:40-17:00	Matvey M. Efimov , Nikolai M. Gavrillov	Automated Search for Sudden Stratospheric Warming Events in a Reanalysis Database
17:00-17:20	Alexander Polyakov , Yana Virolainen, Georgy Nerobelov, Yury Timofeyev	Measurements of the total ozone columns from the spacecraft of the Meteor M N2 series
17:20-17:40	Iuliia Bordovskaia , Iurii Timofeev, Anatolii Poberovskii, Khamud Imkhasin	MW ozone measurements near Saint-Petersburg
17:40-18:00	Georgy Nerobelov , Yuri Timofeyev, Yana Virolainen, Alexander Polyakov, Anna Solomatnikova, Anatoly Poberovskii, Oliver Kirner, Omar Al-Subari, Sergei Smyshlyaev, Eugene Rozanov	Monitoring of total ozone columns near St. Petersburg, Russia
18:00-18:05	Yana Virolainen , Dmitry Ionov, Georgy Nerobelov, Alexander Polyakov	Ozone measurements at SPBU site in Peterhof, Russia
18:05-18:10	Irina Artamonova , Vladislav Alekseev, Nikolay Makarenko	Analysis of total ozone field anomalies using Jacobi sets
18:10-18:15	Dmitry Grankin , Irina Mironova, Eugene Rozanov	Impact of energetic particle precipitation on mesospheric ozone
18:15-18:20	Eugene Rozanov , Tatiana Egorova	The ozone layer state during Sun transition to higher activity mode