

The Eugene



Curriculum Vitae of Evgueni Rozanov

Personal information:

Name: Evgueni Rozanov

Birthday: 12.03.1955

From the Greek εὐγενής (eugenēs):
"noble", literally "well-born"

**Eugene was smart and
beautiful from the very
beginning 😊**



Education

1979, M.S. in Physics and Mathematics, Leningrad State University, Leningrad, Russia.

1986, Ph.D. in Physics and Mathematics, Main Geophysical Observatory, Leningrad, Russia.

Prizes, awards, fellowships

1986, Award (best young scientist of the year) received from A.I. Voeikov Main

1987 Geophysical Observatory/Russian Federation

During the finalization of his PhD thesis (it was handwriting back in the days), its first complete version was destroyed by a cat, so he had to redo it from scratch very fast, and he didn't have cats till his retirement after that 😊

Nevertheless, he was then awarded a “best young scientist award” that and the following year. And if you look at the chapters of his thesis below, you will see that Eugene was addressing so many question we are studying now back in 1986!



Eugene's cat Max

USSR STATE COMMITTEE FOR HYDROMETEOROLOGY AND ENVIRONMENTAL CONTROL ORDER OF THE RED BANNER OF LABOR MAIN GEOPHYSICAL OBSERVATORY named after A. I. Voeikov As a manuscript ROZANOV Eugene Vladimirovich 1986, Leningrad, 1985 DOK. 50.51.03.01.02 STUDY OF CLIMATIC EFFECTS OF ATMOSPHERIC COMPONENTS USING A SINGLE-SPACE RADIATION-CONVECTION MODEL DOK. 50.51.03.01.02 Old Geophysics Dissertation for an academic degree candidate of physical and mathematical sciences Scientific supervisor: Doctor of Physical and Mathematical Sciences, C.S.S.S. I. L. Karol Temporary Leningrad, 1985	TABLE OF CONTENTS Introduction 5 Chapter 1. Calculation of long-wave (LW) radiation in the Earth's atmosphere 40 1.1. Review of the main methods for calculating the LW radiation in the Earth's atmosphere 40 1.2. Description of the basic calculation model 47 1.3. Optimization of the basic calculation model 25 1.4. Comparison of calculation results obtained by experimental and model 34 Chapter 2. Calculation of shortwave (SW) radiation in the Earth's atmosphere 42 2.1. Derivation of the one-dimensional coefficient of radiance radiation in the Earth's atmosphere 42 2.2. Description of the basic calculation model 49 2.3. Optimization of the base model calculation 54 2.4. Calculation of HF radiation in cloud conditions 67 2.5. Comparison of calculation results with other model and experimental data 84 Chapter 3. Study of the influence of components atmosphere to its temperature and radiation characteristics 88 3.1. Modern modeling methods thermal structure of the atmosphere 88	- 5 - 3.2. Model of radiative disequilibrium by a convective adaptation 92 3.3. Sensitivity study of 0 parameters 99 3.3.1. Albedo of the underlying surface (Ad) 99 3.3.2. Chiratic vertical temperature gradient (y) 404 3.3.3. Duration of light day (D) 404 3.3.4. Cosine of the zenith angle Sd's (a) 404 3.3.5. View atmospheric spectral density of solar radiation (R) 404 3.3.6. Cloudiness 404 3.3.7. Water vapor (H2O) 404 3.3.8. Carbon dioxide (CO2) 404 3.3.9. Ozone (O3) 404 3.3.10. Min or gases (N2O, CH4, C2H6, N2O5) 404 3.3.11. Aerosol 404 3.3.12. Model study of some climate system feedbacks and their influence on sensitivity 404 4.1. Study of the temperature relationship tropospheric vertical gradient to temperature 470	- 6 - 4.2. Study of the relationship between temperature and albedo of the atmosphere 490 4.3. Study of the relationship between temperature and photochemical processes 490 4.4. Study of the relationship between temperature and humidity in the troposphere 490 4.5. Study of the relationship between temperature and cloud parameters 490 4.6. Assessing the joint influence of feedbacks and cloud parameters 490 Chapter 5. Study of the climatic effect of changes in the aerosol and gas composition of the atmosphere 495 5.1. Evaluation of the effect of changing the gas atmospheric composition 495 5.2. Impact assessment changes in CO2 concentration 495 5.3. Evaluation of the impact of products volcanic eruptions 495 5.4. Assessing the impact of possible nuclear war 495 Conclusion 495 Literature 495 Bibliography 495
---	--	--	---



Employment history

1979-1988: Research Scientist, Main Geophysical Observatory, Leningrad, Russia.

1988-1997: Senior Research Scientist, Main Geophysical Observatory, St. Petersburg, Russia.

Institutional responsibilities

1981-1990: Deputy chief of the Main Geophysical Observatory department.

Even being a young scientist, Eugene was already widely involved in the organizational life of his institute



Eugene with his PhD supervisor I.L. Karol

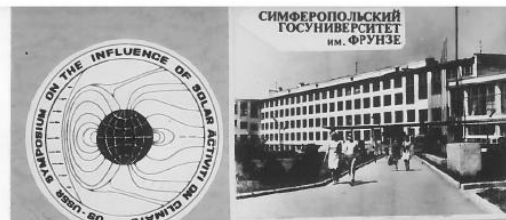


With his colleagues in MGO



And with Tanya

For example, he was one of the main organizers of the first USA-USSR symposium on solar influence on climate! (Try to find him at the photo)



СОВЕТСКО – АМЕРИКАНСКИЙ СИМПОЗИУМ КРЫМ, ЯЛТА, НОЯБРЬ 1987 год.
„ВЛИЯНИЕ СОЛНЕЧНОЙ АКТИВНОСТИ НА КЛИМАТ”
US – USSR SYMPOSIUM ON THE INFLUENCE OF SOLAR ACTIVITY ON CLIMATE



Employment history

1997-2000: Research Assistant Professor, Department of Atmospheric Sciences,
University of Illinois, Urbana-Champaign, USA.

In late 90s, Eugene and Tanya moved to the University of Illinois



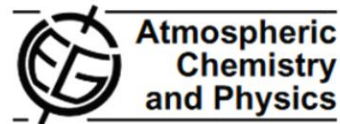
Their boss Prof. Michael Schlesinger

Employment history

2001- Senior Research Scientist, Project Manager, IAC ETH, Zurich and
2022 PMOD/WRC, Davos, Switzerland.
Senior Scientist, Head of climate group, PMOD/WRC

In 2001, Eugene visited Davos for the position interview by PMOD director Prof. Werner Schmutz, who told that there is btw a proposal deadline in a few days. And Eugene wrote a model development project within that short time, it got funded, and the great PMOD research journey began...

Atmos. Chem. Phys., 5, 1557–1576, 2005
www.atmos-chem-phys.org/acp/5/1557/
SRef-ID: 1680-7324/acp/2005-5-1557
European Geosciences Union



Chemistry-climate model SOCOL: a validation of the present-day climatology

T. Egorova^{1,2}, E. Rozanov^{1,2}, V. Zubov³, E. Manzini⁴, W. Schmutz², and T. Peter¹

¹Institute for Atmospheric and Climate Science ETH, Zurich, Switzerland

²Physical-Meteorological Observatory/World Radiation Center, Davos, Switzerland

³Main Geophysical Observatory, St.-Petersburg, Russia

⁴National Institute for Geophysics and Volcanology, Bologna, Italy

Received: 15 December 2004 – Published in Atmos. Chem. Phys. Discuss.: 1 February 2005

Revised: 2 May 2005 – Accepted: 9 May 2005 – Published: 21 June 2005

First version of the SOCOL model published shortly after

✓ News-Letter Nr. 5

Förderverein SFI

Schweizerisches Forschungsinstitut für
Hochgebirgsklima und Medizin Davos

Ein Forscherpaar aus St. Petersburg am Davoser PMOD/WRC



Die Forscher aus St. Petersburg: Evgeni Rozanov und seine Frau Tatjana Egorova

Seit Anfang dieses Jahres arbeiten der 46jährige Atmosphärenphysiker Evgeni Rozanov und seine 33jährige Ehefrau Tatjana Egorova, eine Hydrobiologin, am Physikalisch-Meteorologischen Observatorium und Weltstrahlungszentrum (PMOD/WRC) Davos. Als Leiter eines ETH-Polyprojekts unter Mitwirkung des Davoser Instituts erforscht Rozanov allfällige Zusammenhänge zwischen der Sonnenaktivität und dem globalen Klima.

Via E-Mail hat sich der russische Naturwissenschaftler Dr. Evgeni Rozanov im vergangenen Jahr um die Leitungsposition für das erwähnte PMOD/WRC-Projekt, einem Vorschlag von Institutsleiter Werner K. Schmutz, beworben. Damals lebte er allerdings bereits nicht mehr in seiner Heimatstadt St. Petersburg, sondern in den Vereinigten Staaten. An der University of Illinois in Urbana-Champaign war er als Forschungs-Assistenzprofessor im Department für Atmosphärenwissenschaft tätig.

Erst nach der Wende im Osten, nach dem Zusammenbruch des kommunistischen Systems, habe er ins Ausland reisen und als „Visiting Scientist“ an verschiedenen Forschungsstätten internationale Erfahrung sammeln können, sagt Rozanov.

So weilte er 1988/89 für einige Monate an der New York University, New York. In den Jahren 1994 und 1995 machte er Stages am Max-Planck-Institut für Chemie in Mainz sowie an der amerikanischen University of Illinois in Urbana-Champaign, wo er 1996 erstmals während vier Monaten als Forschungs-Assistenzprofessor tätig war.

Vom März 1997 bis zu seinem Umzug nach Davos zu Beginn dieses Jahres war Evgeni Rozanov an dieser US-Universität als Wissenschaftler und Dozent angestellt. Im Forscherteam hätten erstaunlicherweise russische Experten dominiert: „Vier meiner Kollegen waren Russen, einer ein Chinese. Nur der Professor selbst war Amerikaner“, erzählt Rozanov.

Employment history

2001- Senior Research Scientist, Project Manager, IAC ETH, Zurich and
2022 PMOD/WRC, Davos, Switzerland.
Senior Scientist, Head of climate group, PMOD/WRC



A 20-year collaboration between Thomas, Eugene, and Werner resulted in numerous projects, model developments, famous papers, satellite missions, students, organized conferences etc.

An unstoppable trio: Prof. Thomas Peter, Eugene, and Prof. Werner Schmutz

Memberships in panels, boards, etc., and individual scientific reviewing activities

1990–2020: Paper reviewer for Russian Academy of Sciences USSR Atmospheric and Oceanic Physics, Geophysical Research Letter, Atmospheric Environment, Journal of Geophysical Research, Atmospheric Physics/Chemistry, Journal of Climate, Geoscientific Model Development, Environmental Research Letters, Space Science Review, Space Weather and Space Climate, Earth and Planetary Sciences, Nature, Quarterly Journal of the Royal Meteorological Society, Climate Dynamics, Solar Physics, JAMES.

Since 1998: Proposal reviewer for NASA, NSF USA, National science foundations of Germany, Nederland, Belgium, Finland, Czech Republic, UK, and Russia.

1992-2006: Contributor to WMO Assessments on Ozone depletion and IPCC special report on the aviation effects on ozone and climate.

2006: Reviewer of the IPCC report.

2008-2014: Associated Editor, Advances in Meteorology.

2009-2010: Lead author of WMO Assessments on Ozone depletion (Chapter 3).

2009-2010: Co-author of SPARC CCMVAL-2 report (Chapter 3).

2008-2015: Member of International Commission on the Middle Atmosphere (ICMA).

2012-2015: National representative to the European COST action ES1005 TOSCA (“Towards a more complete assessment of the impact of solar variability on the Earth’s climate”) and co-leader of its WG1.

2013-2019: Associated Editor, Frontiers in Earth Science, Atmospheric Science.

Since 2014: Member of WG1 of SCOSTEP VarSITI ROSMIC project (<http://www.varsiti.org/>)

Since 2017: Co-leader of WG3 of SPARC SOLARIS/HEPPA project (<http://solarisheppa.geomar.de/workinggroups>)

2015: Managing editor of Journal of Solar-Terrestrial Physics special issue on Solar wind influence on the atmosphere

Since 2015: Member of Swiss national SCOSTEP committee

2016-2019: National representative to the European COST Action CA15211

Since 2017: Editorial board member, Physics of the atmosphere and ocean, Russian academy of science.

Since 2017: Editorial board member, “Proceedings of Main Geophysical observatory”

2019-2020: Chief editor of the “Frontiers in Earth Sciences”, Atmospheric science section

2019-2020: Guest editor of the special issue on ozone evolution in the “Atmosphere” journal.

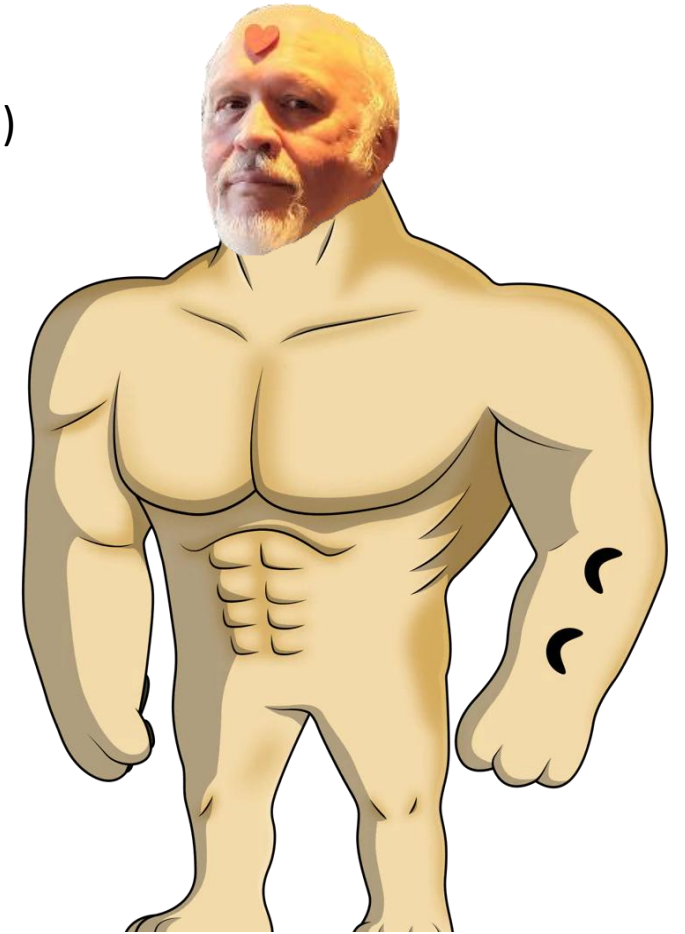
2020-2021: Co-leader of SCOSTEP PRESTO project Pilar 3.

Since 2020: SCOSTEP Science Discipline Representative (SDR).

2021-2022: Co-chair of SCOSTEP PRESTO project.

H-index = 62 (Web of Science)

One of Eugene’s goals was to surpass the H-index of 60, which he recently achieved. This is even more impressive, given that Soviet papers haven’t been properly integrated into the international databases and he had a break from research during Russian dark 1990s.



Organization of conferences

IGAC/SPARC CCM workshop, Davos, May 21-24, 2012 (LOC member).

IAPSO-IAMAS-IAGA, Cape Town, South Africa, 08.2017 (session convener).

ISARD, St.-Petersburg, Russia, 06.2017 (session convener).

IUGG-Mathematical geophysics, 06.2018, Nizhny Novgorod, Russia, (session convener).

IUGG, Montreal, Canada, 2019-01-17 (session convener)

ISARD, St.-Petersburg, Russia, 06.2019 (session convener).

AOGS, S. Korea, 06.2020 (session convener)

STP-15, India, 03.2022, (session convener)

GEOSMOS, Russia, 10.2022 (session convener)

Supervision of junior researchers at graduate and postgraduate level

Adviser to 10 PhD students: C. Hoyle, T. Egorova, M. Schraner, P. Henckeldorn, M.

Calisto, J. Anet, P. Arsenovic, J. Sheng, T. Sukhodolov, A.V. Shapiro, A. Karagodin-Doyennel



Eugene participated in lives of many students, who are now pushing the science further. But the one who inherited all that weight of being responsible for the SOCOL model was me... :D

He was a Lead Author of the WMO Ozone Assessments and contributed to the IPCC, whose efforts earned the 2007 Nobel Peace Prize. He also played key roles in numerous international scientific initiatives, including SCOSTEP, SPARC, and COST, and received the SCOSTEP Medal in 2023 for his outstanding scientific achievements in solar-terrestrial research.



Reference: Ozone-IPCC-MG/jn

Date: 22 January 2008

Dear Dr. Rozanov,

I wish to congratulate you on your excellent contribution to the scientific and technical reports that earned the Intergovernmental Panel on Climate Change (IPCC), the 2007 Nobel Peace Prize shared with Al Gore.

The Nobel citation for the IPCC praises two decades of scientific reports that have "created an ever-broader informed consensus about the connection between human activities and global warming."

Outstanding work relating to stratospheric ozone depletion and climate change have earned three Nobel Prizes. The first is the 1995 Nobel Prize in Chemistry awarded to Paul Crutzen, Mario Molina and F. Sherwood Rowland for the science of ozone formation and decomposition that warned CFCs destroy the ozone layer. The second is the 2007 Nobel Prize in Chemistry awarded to Gerhard Ertl for his studies of chemical processes on solid surfaces, which was instrumental in the scientific proof that CFCs caused the Antarctic Ozone Hole, and you are part of the team that has earned the third award, the Nobel Peace Prize, shared with Al Gore.

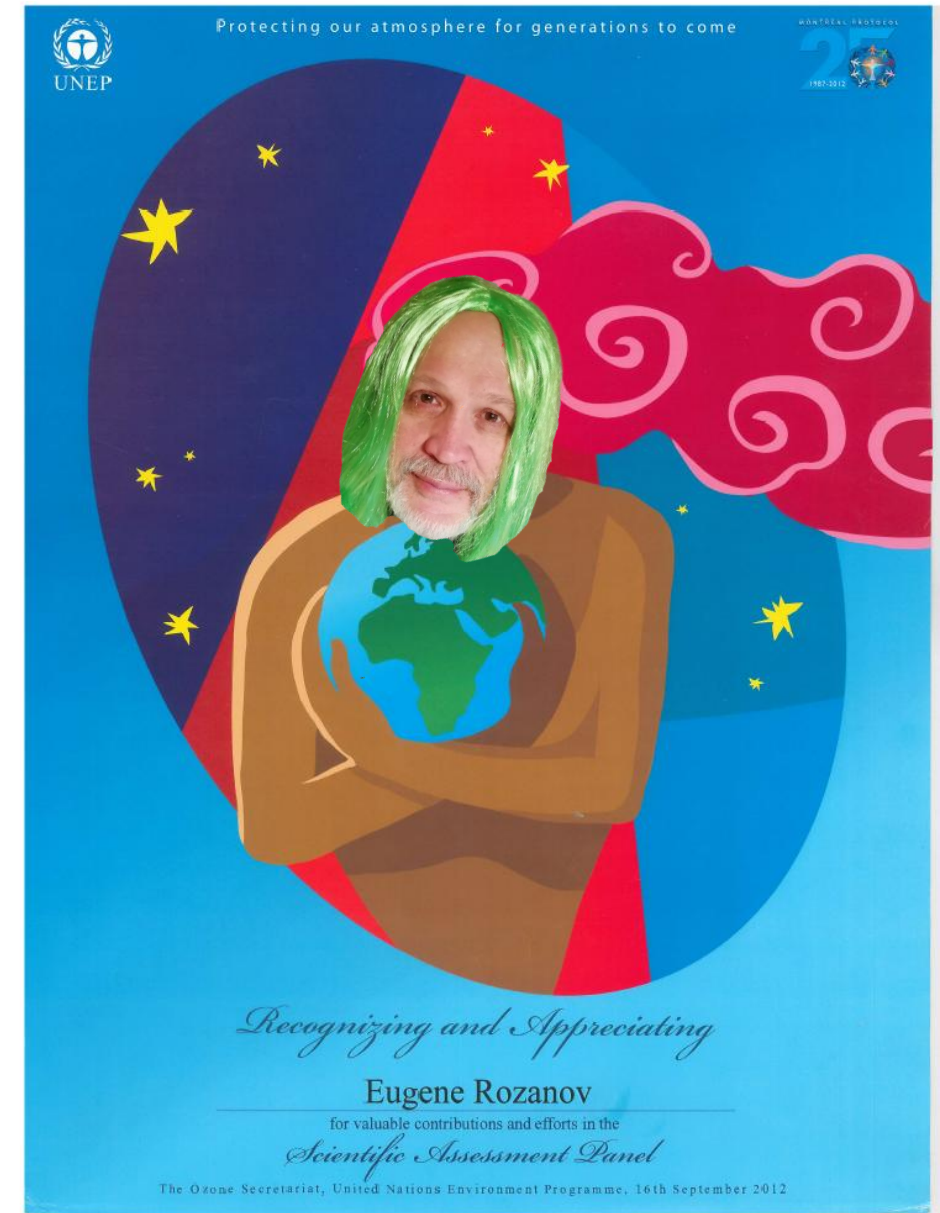
The Montreal Protocol is linked by institutions, individuals and actions to the IPCC. UNEP and WMO established the IPCC as UNEP is the umbrella for the Montreal Protocol. The individual linkage is that you and other members of the Protocol Assessment Panel contributed to the IPCC reports. The action linkage is that by 2010, the Montreal Protocol, in addition to succeeding brilliantly in its primary aim of phasing out ozone-depleting substances, will have contributed simultaneously to the mitigation of climate change.

With deep appreciation.

Yours sincerely,

A handwritten signature in black ink, which appears to read "Achim Steiner".

Achim Steiner
Executive Director

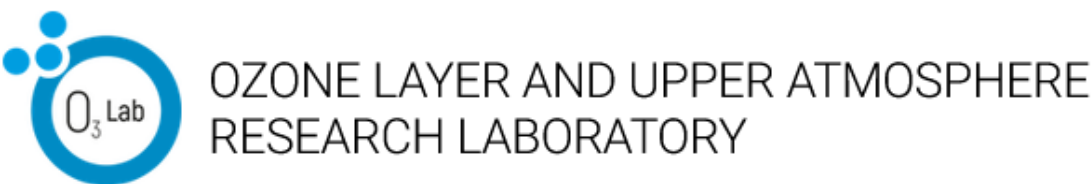


1992-2006: Contributor to WMO Assessments on Ozone depletion and IPCC special report on the aviation effects on ozone and climate.

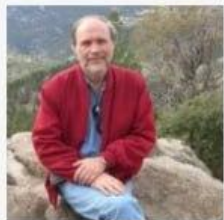
Eugene retired in 2022; however, he didn't stop working as you might have thought from a totally documentary photo below



He continued working as emeritus scientist at PMOD, but also established a new lab in Saint-Petersburg State University



And became the best Russian environmental scientist of 2025 and 2026



Eugene Rozanov

Saint Petersburg State University
Russia



Research.com Recognitions

2026 - Research.com Environmental Sciences in Russia Leader Award
2025 - Research.com Environmental Sciences in Russia Leader Award

D-Index & Metrics

Discipline name	D-Index	World Ranking	Current World Ranking	National Ranking	Current National Ranking	Publications	Citations
Environmental Sciences	74	1359	1290	1	1	338	17637

His long-standing collaboration with the Oulu University led to the ERC Synergy project GERACLE, where several of his former students are currently involved from different countries



Eugene, Prof. Ilya Usoskin, and Ksenia Golubenko (same order in both photos)

Eugene was working till his very last days and even asked to bring him his laptop, when he was moved to palliative care.

But all his work achievements seem unimportant compared to his personality, that we will miss.

Sleep well, Eugene. You are forever in the hearts of your beloved ones.

