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Research papers

Tavartkiladze K., Kikava A. Annual amplitude regime of ground surface Temperature in Georgia. Online journal Georgian Geographical Journal, 2021 # 1(1), p.63-69. ISSN 2667-9701.
<https://journals.4science.ge/index.php/GGJ/article/view/260>

Tavartkiladze K., Bolashvili N., Ananidze M., Suknidze N., Chartolani G. Climate change assessment by negative extreme deviations of surface temperature field (case study: Tbilisi). Scientific Research Publishing, Open Journal of Geology, 2020, Vol.10, #05, p. 491-500. ISSN Online: 2161-7589, ISSN Print: 2161-7570. DOI: 10.4236/ojg.2020.105021

Tavartkiladze K., Bolashvili N., Begalishvili N. Selective Absorption of the Atmospheric Aerosols of Sea Coast Zone in 0.52-0.80 Microns Spectral Range. Collection of scientific peer-reviewed works of the Institute of Hydrometeorology of the Georgian Technical University, 2019, v. #125, pp. 39-47. ISSN 1512-0902

Tavartkiladze K., Ananidze M., Suknidze N. Extreme temperature regime in Georgia and the impact of global warming on it. Proceedings of the International Scientific Conference Natural Disasters in Georgia: Monitoring Prevention, Mitigation, Tbilisi, 2019, pp. 260-266. ISSN 1512-0902

Tavartkiladze K., Mumladze D., Bolashvili N. Prediction of Temperature Regime of Aridity on the Example of Tbilisi. Georgian Academy Press, Bulletin of the Georgian National Academy of Sciences, 2019, Vol.13, # 3, p. 77-83. ISSN - 0132 – 1447

Tavartkiladze K., Kikava A. The influence of total cloudiness on temperature field of the atmosphere near the earth surface. Published by I.E. Mariam Iobadze, Kutaisi, Works of Alexandre Javakhishvili Geographical Society of Georgia, 2018, new series I (XIX), pp. 111-116. ISSN 2587-5450

Tavartkiladze K., Mumladze D. Direct Solar Radiation Distribution over the Territory of Georgia at Apparent Noon of Summer Solstice. Bulletin of the Georgian National Academy of Sciences, 2017, v.11, # 2; pp. 81-85. ISSN 132-1447

Tavartkiladze K., Bolashvili N. Influence of Temperature and Precipitation Changes on the Desertification. World Academy of Science, Engineering and Technology International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, 2017, Vol: 10, No:11, p.p.1063-1066. ISNI: 0000000091950263, DOI: <https://zenodo.org/record/1130691#.Yod9GIRByUk>

Tavartkiladze K. Climate change impact on the atmospheric precipitation regime. Transactions of the Institute of Hydrometeorology of Georgian Technical University, Tbilisi, 2016, #123; pp. 17-29. ISSN 1512-0902

Tavartkiladze K., Bolashvili N. Influence of Temperature and Precipitation Changes on the Desertification. 18 World Academy of Science Engineering and Technology Conference Proceedings; London, 2016, pp. 1808-1812

Tavartkiladze K., Begalishvili N., Tsintsadze T., Begalishvili N.N., Tsintsadze N.T Impact of global warming on atmospheric precipitation in Georgia. Transactions of the Institute of Hydrometeorology of Georgian Technical University, Tbilisi, 2015, #121, pp. 38-42. ISSN 1512-0902

Tavartkiladze K., Metreveli G. Sea surface and ground air temperature regime of the Black Sea eastern coast. TSU publishing, Modern problems of geography and anthropology, Proceedings of the International Conference. 2015, vol.4, number 5, pp. 176-182. ISSN 978-9941-13-457-9

Amiranashvili A., Tavartkiladze K., Kirilenko A., Kortunova #., Povolotskaya N. , Senik A. Variability of general atmospheric pollution in Kislovodsk and some regions of Georgia in 1941-1990. Proceedings of the Moscow International Conference Atmospheric Optics of Aerosols, dedicated to the 100th anniversary of the birth of G. Rozenberg, 2014, p. 10

Tavartkiladze K., Begalishvili N., Tsintsadze T. Horizontal prevalence of precipitation and its seasonal changes. Transactions of the Institute of Hydrometeorology of Georgian Technical University, Tbilisi, 2014, #120, pp. 5-9. ISSN 1512-0902

Kikava A., Tavartkiladze K., Diogidze O., Ananidze M. The Influence of Climate Change on the Variations of Land Surface Temperature Field. International Journal of Emerging Technology and Advanced Engineering; 2014, V. 4; Issue 12 December, pp. 195-198

- Tavartkiladze K., Meladze G., Gagua G. Effect of the microclimate regime on tea productivity and its prediction. TSU publishing, Collected papers of the Vakhushiti Bagrationi Institute of Geography, 2014, New series #6 (85), pp. 183-190. ISSN 2233-3347
- Tavartkiladze K., Kikava A., Ananidze M. Negative Precipitation anomalies favorable for droughts and desertification in Georgia. TSU publishing, Collected papers of the Vakhushiti Bagrationi Institute of Geography, 2014, New series #6 (85), pp. 128-133. ISSN 2233-3347
- Tavartkiladze K., Gagua G., Gogitidze V. Physical-geographical conditions of Shiga Kakheti and wine quality. Bulletin of the Academy of Agrarian sciences of Georgia, 2014, # 33, pp. 53-58. ISSN 1512-2743
- Amiranashvili A., Kirilenko A., Kortunova Z., Povolotskaya N., Senik A., Tavartkiladze K. Changeability of the aerosol pollution of atmosphere in Tsalka and Kislovodsk in 1941-1990 y. y. TSU publishing, Collected papers of the Vakhushiti Bagrationi Institute of Geography, 2013, New series # 5 (84), pp. 178-181. ISSN 2233-3347
- Tavartkiladze K., Kikava A., Ananidze M. Period of intense Growth of surface temperature field in Georgia and its statistical structure. TSU publishing, Collected papers of the Vakhushiti Bagrationi Institute of Geography, 2013, New series # 5 (84), pp. 164-169. ISSN 2233-3347
- Amiranashvili A., Tavartkiladze K., Kirilenko A., Kortunova Z., Povolotskaya N., Senik A. Dynamics of the aerosol pollution of atmosphere in Tbilisi and Kislovodsk. Transactions of the Institute of Hydrometeorology of Georgian Technical University, 2013, # 119, pp. 218-222. ISSN 1512-0902
- Tavartkiladze K., Mumladze D., Lomidze N. Seasonal Shearing of temperature regime. Transactions of the Institute of Hydrometeorology of Georgian Technical University, 2013, # 119, pp. 74-80. ISSN 1512-0902
- Tavartkiladze K., Begalishvili N., Tsintsadze T., Kikava A. Influence of Global Warming on the Near-Surface Air Temperature Field in Georgia. Bulletin of the Georgian National Academy of Sciences, 2012, v.6, #3, pp. 55-60. 0132-1447
- Tavartkiladze K., Begalishvili N., Tsintsadze T., Pipia G. The Natural solar refrigerator and possibility of its artificial creation. TSU publishing, Collected papers of the Vakhushiti Bagrationi Institute of Geography, 2012, New Series, # 4 (83), pp. 120-125. ISSN 2233-3347
- Tavartkiladze K., Begalishvili N., Kikava A. Influence of humidity on the optical character of atmospheric aerosols. Bulletin of the Academy of Agricultural Sciences, Tbilisi, 2012 т.10, #1, pp. 54-57. ISSN 1512-1887
- Tavartkiladze K., Kikava A. Empirical connection between atmospheric aerosols optical density and scattered solar radiation. TSU publishing, Collected papers of the Vakhushiti Bagrationi Institute of Geography, 2011, New Series # 3 (82), pp. 46-51. ISSN 2233-3347
- Tavartkiladze K. Extreme deviations in the variations terrestrial temperature field and its relation to climate change (on the example of Tbilisi). TSU publishing, Collected papers, 2011, # 3 (82), New Series Vakhushiti Bagrationi Institute of Geography, pp. 39-45. ISSN 2233-3347
- Tavartkiladze K., Kikava A., Solomonidze R., Gogatishvili N. Peculiarities of air surface temperature change in Georgia. TSU publishing, Collected papers of the Vakhushiti Bagrationi Institute of Geography, 2011, New Series # 3 (82), pp. 35-38. ISSN 2233-3347
- Tavartkiladze K., Kikava A., Solomonidze R. Forecast of atmosphere surface temperature field in the territory of Adjara until 2030. Khandzta - Periodical Scientific Journal; Kutaisi, Tbilisi; 2011 # 4 (9); pp. 67-78. ISSN 1512-3812
- Tavartkiladze K., Elizbarashvili M. Transformation of Optical Properties of Tropospheric Aerosols after Rain. Bulletin of the Georgian National Academy of Sciences, 2011, vol. 5, #1, pp. 77- 80. 0132-1447
- Tavartkiladze K. Aerosol optical density of atmosphere and possibility, its definitions on integrated radiation of the sun. Journal of Georgian Geophysical Society Issue B, Atmosphere, Ocean and Space Plasma; 2010, # 14, pp. 146-153. ISSN 1512-1127
- Tavartkiladze K., Kikava A. Regime structure of temperature and precipitation contributing to drought and desertification and the impact of climate change. Bulletin of the Academy of Agrarian sciences of Georgia, 2010, # 28, pp. 309-317. ISSN 1512-2743
- Tavartkiladze K., Amiranashvili A. Expected change in air temperature in Tbilisi. Transactions of the Institute of Hydrometeorology of Georgian Technical University, 2008, Vol. 115, pp. 57-65. ISSN 1512 - 09 02
- Davitashvili T., Khvedelidze Z. Khantadze A., Tavartkiladze K., Samxaradze I. Investigation of Some Climate Singularities on the Territory of Georgia By Mathematical Modeling. Transactions of the Institute of Hydrometeorology, 2008; v.115; pp. 7-18. ISSN 1512-0902

- Tavartkiladze K. Temperature Spreading and the Possibility of its use. *Universali, Vakhushti Bagrationi Institute of Geography, Collected papers, New Series, 2008, # 2 (82), pp. 236-245. ISBN 99940-61-19-4*
- Tavartkiladze K. Peculiarities of climate Change of Georgia. *Universali, Vakhushti Bagrationi Institute of Geography, Collected papers, 2008, New Series # 2 (82), pp. 221-235. ISBN 99940-61-19-4*
- Tavartkiladze K., Mumladze D. The propagation of the horizontal homogeneity of surface – air temperature field in mountainous (the case of Georgia). *Bulletin of the Georgian National Academy of Sciences, 2008, vol. 2, #2, pp. 56-58. ISSN0 132-1447*
- Tavartkiladze K. Extreme variations in air temperature against the background of climate change in Georgia. *Transactions of the Institute of Hydrometeorology, 2007, #111, pp. 168-180. ISSN 1512-0902*
- Begalishvili N., Tavartkiladze K., Vachnadze. Modern climate change in Georgia. Centuries-old in water content change in the atmosphere and its impact on water circulation. *Tbilisi, 2007, p. 123. ISBN 978-1-40-20-6475-3*
- Amiranashvili A., Tavartkiladze K. The Influence of relative Humidity on the Changeability of the Atmospheric Aerosol Optical Depth. *Proceedings 17th International conference on Nucleation Atmospheric Aerosols; Goluy, 2007, pp. 761-765. ISBN-1-4020-6474-6*
- Amiranashvili A., Amiranashvili V., Kirkitadze D., Tavartkiladze K. Weekly Distribution of the Aerosol Pollution of the Atmosphere in Tbilisi. *Proceedings of 17th International conference on Nucleation Atmospheric Aerosols. Goluy, 2007, pp. 756-760. ISBN-1-4020-6474-6*
- Amiranashvili A., Amiranashvili V., Kirkitadze D., Tavartkiladze K. Connection between Atmospheric Aerosol Optical Depth and Aerosol Particle Number Concentration in the Air in Tbilisi. *Proceedings of 17th International conference on Nucleation Atmospheric Aerosols, Goluy, 2007, pp. 865-870. ISBN-1-4020-6474-6*
- Tavartkiladze K. The snow cover regime variations against the background of climate change during second half of the 20th century in Georgian territory. *Метеорология и гидрология, 2007, #5, pp. 88-94. ISSN 0130-2906*
- Tavartkiladze K. The change of snow cover regime in Georgia. *Universali, Collected papers of the Vakhushti Bagrationi Institute of Geography, 2006, # 1 (80), New Series, pp. 328-339. ISBN99940-61-19-4*
- Tavartkiladze K., Shengelia I. Some peculiarities of air temperature variation in the territory of Georgia. *Universali, Collected papers of the Vakhushti Bagrationi Institute of Geography, 2006, # 1 (80), New Series, pp. 321-327. ISBN99940-61-19-4*
- Tavartkiladze K. Major trends of rational use of climatic resources of Georgia. *Universali, Collected papers of the Vakhushti Bagrationi Institute of Geography, 2006, # 1 (80), New Series, pp. 310-320. ISBN99940-61-19-4*
- Tavartkiladze K., Begalishvili N., Khartchilava J., Mumladze D., Amiranashvili A., Vachnadze J., Shengelia I., AmiranaSvili V. Modern climate change in Georgia odes of some parameters defining the climate and their variability. Regime of some parameters defining the climate and their variability. *Tbilisi, 2006, p. 177*
- Tavartkiladze K., Aladashvili I. Variability of Radiation Balance in Tbilisi City in the Period of Global Warming. *Bulletin of the Georgian National Academy of Sciences, 2005, vol. 171, #2, pp. 275- 277. 0132-1447*
- Amiranashvili A., Amiranashvili V., Tavartkiladze K., Gzirishvili T., Kharchilava J. Modern Climate Change in Georgia. *Radioactively Active Small Atmospheric Admixtures. Tbilisi, 2005, p. 128. ISSN 1512-1135*
- Amiranashvili A., Amiranashvili V., Tavartkiladze K. Effect of the Variability of Atmospheric Aerosols on the Short-Wave Radiation Fluxes. *Proceedings of the 16th international Conference on Nucleation-Atmospheric Aerosols; 2004, Kyoto; pp. 706-709*
- Amiranashvili A., Amiranashvili V., Kirkitadze D., Tavartkiladze K. Some results of investigation of variations of the atmospheric aerosol optical depth in Tbilisi. *Proceedings of the 16th international Conference on Nucleation-Atmospheric Aerosols; 2004, Kyoto; pp. 416-419*
- Tavartkiladze K., Mumladze D. The mode of snow cover in Georgia. *Journal of Georgian Geophysical Society Atmosphere, Ocean and Space Plasma; Tbilisi, 2004; Issue B, #8, pp. 58-69. ISSN 1512-1127*
- Tavartkiladze K., Aladashvili I. Effective Radiation Field on the Territory of Georgia. *Bulletin of the Georgian National Academy of Sciences, 2003, vol. 168 #3, pp. 473- 475. ISSN 0132-1447*
- Tavartkiladze K., Mestiashvili G. Peculiarities of atmosphere Background and Anthropogenic pollution in the coastal zone. *Media Servisi, Transactions of the Vakhuchti Bagrationi Institute of geography, 2003, #21, pp. 160-168. USSN 1512 - 1224*
- Tavartkiladze K., Shengelia I. Relation between the water storage in the atmosphere and total cloudiness. *Media Servisi, Transactions, of the Vakhushti Bagrationi Institute of geography, 2003, #21, pp. 128-133. USSN 1512 - 1224*

- Tavartkiladze K., Shengelia I. Influence of Cloudiness on the Near-surface Temperature of the Atmosphere. Media Servisi, Transactions, of the Vakhushti Bagrationi Institute of geography, 2003, #21, pp. 31-45. USSN 1512 - 1224
- Shengelia I., Tavartkiladze K. Cyclic changes of the Troposphere. Media Servisi, Transactions, of the Vakhushti Bagrationi Institute of geography, 2003, #21, pp. 5-15. USSN 1512 - 1224
- Amiranashvili A., Amiranashvili V., Kharchilava J., Tavartkiladze K., Toroshelidze T., Gabedava V. Assessment of the influence of biologically active ultraviolet solar radiation on long-term variations in total ozone content in Georgia. Materials of the III Kislovodsk international conference dedicated to the 200th anniversary of the Caucasian Mineral Waters, 2003, Kislovodsk, pp. 76-77
- Amiranashvili A., Amiranashvili V., Gagua P., Matiashvili T., Nodia A., Kharchilava J., Khunjua A., Chikhladze V., Tavartkiladze K., Gabedava V. Assessment of the risk of some meteorological and geophysical factors for human health in Eastern Georgia (case study Tbilisi). Materials of the III Kislovodsk international conference dedicated to the 200th anniversary of the Caucasian Mineral Waters, 2003, Kislovodsk, pp. 74-76
- Amiranashvili A., Amiranashvili V., Tavartkiladze K. Some characteristics of aerosol pollution of the atmosphere in Eastern Georgia. Materials of the III Kislovodsk international conference dedicated to the 200th anniversary of the Caucasian Mineral Waters, 2003, Kislovodsk. pp. 17-18
- Amiranashvili A., Bregvadze A., Tavartkiladze K., Toroshelidze T., Kharchilava J., Melkoiani D., Krasovski A., Desiatkov G., Semionov V Aranikova R. Monitoring of total ozone content in Georgia. Perspectives of international cooperation to improve the ozonometric stations network operation and organization of solar terrestrial ultraviolet radiation measurements. Transactions of the Institute of Hydrometeorology, 2002, Tbilisi, #108, pp. 45-51. ISSN 1512-0902
- Amiranashvili A., Amiranashvili V., Tavartkiladze K. Monitoring of aerosol pollution in Georgia. Transactions of the Institute of Hydrometeorology, 2002, Tbilisi, #108, pp. 19-23. ISSN 1512-0902
- Tavartkiladze K., Mestiashvili G., Sajaia E., Beroshvili L. Desertification supporting process in Georgia and analytical criteria for its evaluation. Transactions of the Institute of Hydrometeorology, 2002, Tbilisi, #107, pp. 186-193. ISSN 1512-0902
- Tavartkiladze K. Statistical structure of precipitation distribution in Georgia. Transactions of institute of Hydrometeorology, 2002, Tbilisi, # 105, pp. 117-137. ISSN 1512-0902
- Tavartkiladze K. Soil surface temperature regime in Georgia. Transactions of institute of Hudometeorology, 2002, Tbilisi, #105, pp. 52-82. ISSN 1512-0902
- Tavartkiladze K., Mestiashvili G., Sajaia E., Beroshvili L. Climate System Changeability in Possible Regions of Desertification in Georgia. Bulletin of the Georgian National Academy of Sciences, 2002, vol. 166 #2, pp.268-271. ISSN 0132 -1447
- Tavartkiladze K., Mestiashvili G., Sajaia E., Beroshvili L. On Estimation Method of Desertification Process. Bulletin of the Georgian National Academy of Sciences, 2002, vol. 165 #2, pp.289- 292. ISSN 0132 -1447
- Elizbarashvili E., Tavartkiladze K., Khantadze A. Vachnadze J., Papinashvili L., Mumladze D., Elizbarashvili M. Modern climate change in Georgia. Universal, Caucasian Geographical Review, 2002, Tbilisi, #1, pp. 35-37

Participations in conferences

- 22-25 October, 2015. International Confer. Modern Problems of Geography and Anthropology. Dedicated to the 140th Birthday Anniversary of Academician Alexandre Javakhishvili. Sea surface and ground air temperature regime of the Black Sea eastern coast. Tbilisi (Georgia). Ivane Javakhishvili Tbilisi State University, Vakhushti Bagrationi Institute of Geography, Alexandre Javakhishvili, Geographical Society of Georgia
- 7-8 November, 2013. Modern Problems of Geography. Proceedings of the Conference Dedicated to the 80th Birthday Anniversary Since the Foundation of Vakhushti Bagrationi Institute of Geography. Period of intense Growth of surface temperature field in Georgia and its statistical structure. Tbilisi (Georgia). Ivane Javakhishvili Tbilisi State University, Vakhushti Bagrationi Institute of Geography
- 16-Nov 2012, Scientific Conference Dedicated to the 100th Birthday Anniversary of Professor Levan Maruashvili. The Natural solar refrigerator and possibility of its artificial creation. Tbilisi (Georgia). Ivane Javakhishvili Tbilisi State University, Vakhushti Bagrationi Institute of Geography
- 15-16 September, 2011. Peculiarities of air surface temperature change in Georgia. Tbilisi (Georgia). Ivane Javakhishvili Tbilisi State University, Vakhushti Bagrationi Institute of Geography

Other Activities

Atmospheric precipitation regime and variability in the background of global warming in Adjara. Master Thesis of D. Ladigin. Shota Rustaveli Batumi state university. Supervisor

Peculiarities of temperature change in Adjara against the background of global warming, Master Thesis of D. Bolkvadze. Shota Rustaveli Batumi state university. Supervisor

Radiation regime in Georgia and its variability, Master Thesis of I. Lezhava. Shota Rustaveli Batumi state university. Supervisor

Impact of cloudiness on atmosphere surface temperature regime in Adjara, Master Thesis of M. Sudadze. Shota Rustaveli Batumi state university. Supervisor

Statistical structure of optical characteristics of atmospheric aerosols of continental and marine origin. Candidate dissertation of Gela Mestiashvili to obtain scientific degree in Physics and Mathematics. Ivane Javakhishvili Tbilisi State University. Supervisor

Modeling in the seashore (case study Western Georgia), Candidate dissertation of Irakli Shengelia to obtain Scientific Degree in Physics and Mathematics. Ivane Javakhishvili Tbilisi State University. Supervisor

Radiation regime, change of its natural and anthropogenic regime in Georgia, Doctoral Thesis of Irakli Shengelia to obtain PhD. Ivane Javakhishvili Tbilisi State University. Supervisor

The Influence of External and Internal Factors on Atmospheric Pollution in Georgia, Eteri Sajaia's Candidate Thesis. Ivane Javakhishvili Tbilisi State University. Supervisor

Peculiarities of air pollution in Tbilisi, Candidate dissertation of Lia Beroshvili's dissertation, to obtain Scientific Degree in Geography. Ivane Javakhishvili Tbilisi State University. Supervisor

Investigation of aerosol pollution characteristics of the atmosphere In Tbilisi. Darejan Kirkitadze, Tsu, M. Nodia Institute of Geophysics. Supervisor

Influence of regional changes of temperature and precipitation on the desertification process in Georgia. Candidate dissertation of Maia Ananidze. Iakob Gogebashvili Telavi State University. Supervisor

Radation regime, its natural and anthropogenic changes in Georgia. Irakli Shengelia. Authorial. Georgia, 2020. Reviewer

The radiation regime of Northern slope of Greater Caucasus. Revaz Samukashvili. Georgian Technical University, Institute of Hydrometeorology. Georgia, 2016. Reviewer

Radiation regime and solar energy resources of the Caucasus territory. Revaz Samukashvili. Georgian Technical University, Institute of Hydrometeorology. Georgia, 2015. Reviewer

Collected papers of the Institute of Geography, 2011, New Series # 3 (82). Vakhushti Bagrationi Institute of Geography. Georgia, 2011. Reviewer

Collected papers of the Institute of Geography, 2006, New Series # 1 (80). Vakhushti Bagrationi Institute of Geography. Georgia, 2006. Reviewer

Contemporary change of climate of Georgia, correlation and variability of the weather elements. Georgia, 2003. Reviewer

Award

Laureate of the Georgian National Prize, 2009

American Bibliographic Institute Medal of Honor, 2002