

Publications of M.Tatshvili (2018-2023)

Title	Author/s	Publisher
The Big data for drought monitoring in Georgia	Marika Tatishvili, Ana Palavandishvili, Mariam Tsitsagi, Nikoloz Suknidze	Springer Nature ISBN978-3-031-45600-8 Chances and Challenges of Digital Management. ISPC 2022. Springer Proceedings in Business and Economics. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-45601-5_13">https://doi.org/10.1007/978-3-031-45601-5_13</a>
VARIABILITY OF THE MEAN MAX ANNUAL AIR TEMPERATURE IN 39 LOCATIONS OF GEORGIA IN 1956-2015	Amiranashvili A., Kartvelishvili L., Kutaladze N., Megrelidze L., Tatishvili M.	International Scientific Conference "Geophysical Processes in the Earth and its Envelopes" Proceedings, ISBN 978-9941-36-147-0, Tbilisi, Georgia, November 16-17, 2023 122-126
COMPARISON OF THE MEAN MAX ANNUAL, SEASONAL AND MONTHLY AIR TEMPERATURE VARIABILITY IN TBILISI AND SHOVI IN 1956-2022	Amiranashvili A., Kartvelishvili L., Kutaladze N., Megrelidze L., Tatishvili M	International Scientific Conference "Geophysical Processes in the Earth and its Envelopes" Proceedings, ISBN 978-9941-36-147-0, Tbilisi, Georgia, November 16-17, 2023 127-133
Atmospheric Periodic Oscillations	Marika R. Tatishvili, Ana M. Palavandishvili	Journal of the Georgian Geophysical Society, e-ISSN: 2667-9973, p-ISSN: 1512-1127 Physics of Solid Earth, Atmosphere, Ocean and Space Plasma, v. 26(1), 2023, pp. 49-62 <b>DOI:</b> <a href="https://doi.org/10.60131/ggs.1.2023.6961">https://doi.org/10.60131/ggs.1.2023.6961</a>
For certain regions of Georgia, assessment of the role of local orography in the dynamics of air turbulence in the atmosphere surface layer	Khvedelidze Z, Tatishvili M, Zotikishvili N, Samkharadze I.	The collection of scientific reference works of the Hydrometeorological Institute of the Georgian Technical University, Tbilisi, 2023.N 133, pp.112–116. ISSN 1512-0902. <a href="https://doi.org/10.36073/1512-0902">doi.org/10.36073/1512-0902</a>
Weather, climate and regularities of their change in Georgian conditions	L. Kartvelishvili, M. Tatishvili, A. Amiranashvili, L. Megrelidze, N. Kutaladze	<a href="http://openlibrary.ge/handle/123456789/10319">http://openlibrary.ge/handle/123456789/10319</a> doi: <a href="https://doi.org/10.52340/mng.978">10.52340/mng.978</a>  <a href="http://dspace.gela.org.ge/handle/123456789/10319">http://dspace.gela.org.ge/handle/123456789/10319</a>

<b>AGROCLIMATIC RESOURCES CHANGING IN MOUNTAINOUS AND HIGHMOUNTAINOUS REGIONS OF GEORGIA IN TERMS OF GLOBAL WARMING</b>	<b>Giorgi Meladze, Marika Tatishvili, Maia Meladze</b>	<b>ATLAS INTERNATIONAL CONFERENCE ON RESEARCH IN APPLIED SCIENCES</b> ISBN: 978-625-367-017-7 IKSAD GLOBAL Publications – 2023 pp156-164 <b>www.atlasconference.org</b>
RELATIONSHIP BETWEEN NORMALISED DIFFERENCE VEGETATION INDEX, PRECIPITATION AND DROUGHT INDICES (CASE OF KAKHETI, GEORGIA)	Mariam Tsitsagi; Zaza Gulashvili; Nana Bolashvili; Marika Tatishvili; Nikoloz Suknidze	<b>Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022/STEF92 Technology/v.22.issue4.1</b>
Structured data for wind variability in Georgia	Marika Tatishvili; Inga Samkhaaze, Mariam Tsitsagi,	IKSAD Publications/INTERNATIONAL INTERDISCIPLINARY CONGRESS OF WOMEN IN SCIENCE January 13-14, 2023 / Sivas-TURKIYE ( THE PROCEEDINGS BOOK)/ 689-698
Impact of short-term geomagnetic activity on the variability of meteorological parameters	Marika Tatishvili, Nana Bolashvili, Ana Palavandishvili	GeorgianGeographicalJournal#2 Vol.2 (1) 45-50 <b>E-ISSN: 2667-9760</b> doi:http://.org/1052340/ggj
The Use of Structured Data for Drought Evaluation in Georgia	Marika Tatishvili, Ana Palavandishvili, Mariam Tsitsagi, Nikoloz Suknidze	Journal of the Georgian Geophysical Society, Physics of Solid Earth, Atmosphere, Ocean and Space Plasma, v. 25(1), 2022, pp.45-51 e-ISSN: 2667-9973, p-ISSN: 1512-1127 <a href="https://openjournals.ge/index.php/GGS/article/view/4806/4980">https://openjournals.ge/index.php/GGS/article/view/4806/4980</a>
Applying Machine Learning (ML) and Big Data (BD) to Innovative Environmental Solutions	Tatishvili M., Palavandishvili A.	Proceedings of the Institute of Geophysics of Mikheil Nodia, v. LXXV, 2022 ISSN 1512-1135 <a href="http://openlibrary.ge/bitstream/123456789/10302/1/8_Tr_IG_75_2022.pdf">http://openlibrary.ge/bitstream/123456789/10302/1/8_Tr_IG_75_2022.pdf</a>
Drought evaluation based on SPEI, SPI indices for Georgian territory	Marika Tatishvili, Ana Palavandishvili, Mariam Tsitsagi, Zaza Guliashvili, Nikoloz Suknidze	International Conference of Young Scientists "Modern Problems of Earth Sciences" Proceedings, ISBN 978-9941-36-044-2, Tbilisi, Georgia, November 21-22, 2022 ISBN 978-9941-36-044-2 <a href="https://doi.org/10.48614/ggs2520225963">doi.org/10.48614/ggs2520225963</a>

Disaster risk reduction and climate resilience in Nature Based Solutions using in-situ and satellite data for Georgia sustainable development	Marika Tatishvili, Ana Palavandishvili, Inga Samkharadze	Proceedings of the International Conference of Young Scientists "Modern Problems of Earth Science".119-121გგ. . ISBN 978-9941-36-044-2 <a href="https://doi.org/10.48614/ggs2520225963">doi.org/10.48614/ggs2520225963</a>
Triggering factors of dangerous hydrometeorological events	Marika Tatishvili, Ana Palavandishvili	Landscape dimension of sustainable development: research - mapping - planning - management" materials, TSU Publishing House.ISBN 978-9941-36-030-5. <a href="http://icldscartogis.tsu.ge/en">http://icldscartogis.tsu.ge/en</a>
RELATIONSHIP BETWEEN NORMALISED DIFFERENCE VEGETATION INDEX, PRECIPITATION AND DROUGHT INDICES (CASE OF KAKHETI, GEORGIA)	Mariam Tsitsagi; Zaza Gulashvili; Nana Bolashvili; Marika Tatishvili; Nikoloz Suknidze	Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022/STEF92 Technology/v.22.issue4.1 ISSN -1314-2704 .ISBN 978-619-7603-44-6 <a href="https://doi.org/10.5593/sgem2022/4.1/s19.46">DOI:10.5593/sgem2022/4.1/s19.46</a>
Use of machine learning (Machine Learning) and big data (Big Data) for environmental monitoring.	Marika Tatishvili, Ana Palavandishvili, Inga Samkharadze, Mariam Tsitsagi, Nikoloz Suknidze	Proceedings of the International Scientific Conference "Modern Problems of Ecology".ISSN 1512-1976
Study of the mean and extreme values, intensity and recurrence variability of meteorological elements based on the 1956-2015 observation data	M.Tatishvili, L.Megrelidze. A.Palavandishvili	Journal of the Georgian Geophysical Society, Physics of Solid Earth, Atmosphere, Ocean and Space Plasma/2021/ v. 24(2) <b>-ISSN: 2667-9973,ISSN: 1512-1127</b> DOI: <a href="https://doi.org/10.48614/ggs2420213325">https://doi.org/10.48614/ggs2420213325</a>
Influence of atmospheric circulation anomalies on weather and climate in Georgia".	M.Tatishvili, Z. Khvedelidze,I. Samkharadze,A. Palavandishvili	The collection of scientific reference works of the Institute of Hydrometeorology of the Georgian Technical University /2021/ ტ.131 ISSN 1512-0902 <a href="https://dspace.nplg.gov.ge/handle/1234/335798">https://dspace.nplg.gov.ge/handle/1234/335798</a>
On some considerations of cloud particles and photons interaction	Marika Tatishvili	Journal of the Georgian Geophysical Society, Physics of Solid Earth, Atmosphere, Ocean and Space Plasma/21/ v. 23(2) e-ISSN: 2667-9973, p-ISSN: 1512-1127 DOI: <a href="https://doi.org/10.48614/ggs2420213324">https://doi.org/10.48614/ggs2420213324</a>
Holiday Climate Index in Some Mountainous Regions of Georgia.	Amiranashvili, A. G., Kartvelishvili, L. G. Kotaladze, N. B., Megrelidze, L. D., & Tatishvili, M. R.	JOURNAL OF THE GEORGIAN GEOPHYSICAL SOCIETY/2021/ 24(2). ISSN: 1512-1127;E-ISSN: 2667-9973 DOI: <a href="https://doi.org/10.48614/ggs2420213327">https://doi.org/10.48614/ggs2420213327</a>

Changeability of the Meteorological Parameters Associated with Holiday Climate Index in Different Mountainous Regions of Georgia in 1956-2015	Amiranashvili, A. G., Kartvelishvili, L. G., Kutaladze, N. B. Megrelidze, L. D. Tatishvili, M. R.	JOURNAL OF THE GEORGIAN GEOPHYSICAL SOCIETY, /2021/24(2). ISSN: 1512-1127; E-ISSN: 2667-9973 DOI: <a href="https://doi.org/10.48614/ggs2420213326">https://doi.org/10.48614/ggs2420213326</a>
On some weather forecasting models in Georgia	Marika R. Tatishvili, Zurab V. Khvedelidze, Demur I. Demetrashvili	JOURNAL OF THE GEORGIAN GEOPHYSICAL SOCIETY, /2021/24(2). ISSN: 1512-1127; E-ISSN: 2667-9973 DOI: <a href="https://doi.org/10.48614/ggs2320202727">https://doi.org/10.48614/ggs2320202727</a>
Impact of Short-Term Geomagnetic Activity on Weather and Climate Formation in Georgian Region	Marika R. Tatishvili, Ana M. Palavandishvili	Journal of the Georgian Geophysical Society, Physics of Solid Earth, Atmosphere, Ocean and Space Plasma/2020/ v. 23(2) ISSN: 1512-1127 DOI: <a href="https://doi.org/10.48614/ggs2320202730">https://doi.org/10.48614/ggs2320202730</a>
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Air microcirculation processes and climate features in the territory of Tbilisi	Marika Tatishvili, Zurab Khvedelidze, Inga Samkharadze	The collection of scientific reference works of the Institute of Hydrometeorology of the Georgian Technical University 2019/
Impact of Short-Term Geomagnetic Activity on Weather and Climate Formation in Georgian Region	Marika R. Tatishvili, Ana M. Palavandishvili	Journal of the Georgian Geophysical Society, Physics of Solid Earth, Atmosphere, Ocean and Space Plasma/2019/ v. 23(2) ISSN: 1512-1127 <a href="https://openjournals.ge/index.php/GGS/issue/view/577">https://openjournals.ge/index.php/GGS/issue/view/577</a>

Impact of Weather and Climate Extremes on Landscapes in Georgia	Marika Tatishvili, Liana Kartvelishvili, Givi Meladze, Maia Meladze, Nato Kutaladze, Inga Samkharadze, Ana Palavandishvili	.Proceedings of International Multidisciplinary Conference “Actual Problems of Landscape Sciences/2019/ . ISBN 978-9941-13-868-3
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Mountain environment and population in Georgia: case study of Upper Svaneti	Mariam Eliabarashvili. Tamar Khardziani, Roman Maisuradze, Marika Tatishvili	Taylor & Francis/International Journal of Sustainable Development & World Ecology /2018/25 (4) ISSN: 1350-4509 Online ISSN: 1745-2627 <a href="https://doi.org/10.1080/13504509.2017.1417182">DOI:10.1080/13504509.2017.1417182</a>
Landscapes of Samtskhe-Javakheti region, transformation degree and forms	Roman Maisuradze, Tamar Khardziani, Marika Tatishvili	International Multidisciplinary Scientific Geoconference SGEM/2018/ v.18, issue 5.1.pp.487-494 <a href="https://doi.org/10.5593/sgem2018/5.1">DOI.org/10.5593/sgem2018/5.1</a>
Dynamics and statistical distribution of hail and lightning processes in Georgia against the backdrop of global climate change	M. Tatishvili, L. Kartvelishvili, I. Mkurnalidze, R. Meskhyia	Mtsignobari/2018/150 ISBN 978-9941-473-72-2 <a href="http://opac.gtu.ge/cgi-bin/koha/opac-detail.pl?biblionumber=34413">http://opac.gtu.ge/cgi-bin/koha/opac-detail.pl?biblionumber=34413</a>
Application of Satellite Imaginary in Forestry for Georgia	Marika R. Tatishvili, Irine P. Mkurnalidze, Inga G. Samkharadze, Lasha N. Chinchaladze	Journal of the Georgian Geophysical Society/ 2018/v21(1)/18-25 ISSN: 1512-1127 <a href="https://openjournals.ge/index.php/GGS/article/view/2484">https://openjournals.ge/index.php/GGS/article/view/2484</a>
ROLE OF MOUNTAINOUS RELIEF IN THE STUDY OF AIR CURRENT LOCAL CIRCULATION	Z.Khvedelidze, M.Tatishvili, N.Zotikishvili, I.Samkharadze	Reviewed Electronic Scientific Journal GESJ: Physics, No,1(19)/2018/21-32 ISSN 1518-1461 ( <a href="http://gesj.Internet-academy.Org.ge/physics/">http://gesj.Internet-academy.Org.ge/physics/.</a> )
The connection of GEOMagnetic activity and weather formation in Georgian region	Tatishvili M., Khvedelidze Z., Mkurnalidze I., Samkharadze I., Kokosadze Kh	International Scientific Conference „Modern Problems of Ecology“ Proceedings/2018/ v. 6  ISSN 1512-1976,
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Wind field distribution in Georgia	Marika Tatishvili, Demur Demetrashvili, Inga Samkharadze	Journal of Fundamentals of Renewable Energy and Applications. v.7, issue 5, pp.1-4. ISSN:2090-4541 DOI:10.4172/2090-4541.10002389
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