

Accepted Manuscript

Simultaneous observation of lightning emission in different wave ranges of electromagnetic spectrum in Tien Shan mountains

A.V. Gurevich, G.K. Garipov, A.M. Almenova, V.P. Antonova, A.P. Chubenko, O.A. Kalikulov, A.N. Karashtin, O.N. Kryakunova, V.Yu. Lutsenko, G.G. Mitko, K.M. Mukashev, R.A. Nam, N.F. Nikolaevsky, V.I. Osedlo, M.I. Panasyuk, M.O. Ptitsyn, V.V. Piscal, V.A. Ryabov, N.O. Saduev, T.Kh. Sadykov, K.Yu. Saleev, N.M. Salikhov, A.L. Shepetov, Yu.V. Shlyugaev, S.I. Svertilov, L.I. Vil'danova, N.N. Zastrozhnova, Z.S. Zhantaev, K.S. Zhilchenko, V.V. Zhukov, K.P. Zybin



PII: S0169-8095(17)31239-5
DOI: doi:[10.1016/j.atmosres.2018.04.018](https://doi.org/10.1016/j.atmosres.2018.04.018)
Reference: ATMOS 4238
To appear in: *Atmospheric Research*
Received date: 27 November 2017
Revised date: 19 April 2018
Accepted date: 24 April 2018

Please cite this article as: A.V. Gurevich, G.K. Garipov, A.M. Almenova, V.P. Antonova, A.P. Chubenko, O.A. Kalikulov, A.N. Karashtin, O.N. Kryakunova, V.Yu. Lutsenko, G.G. Mitko, K.M. Mukashev, R.A. Nam, N.F. Nikolaevsky, V.I. Osedlo, M.I. Panasyuk, M.O. Ptitsyn, V.V. Piscal, V.A. Ryabov, N.O. Saduev, T.Kh. Sadykov, K.Yu. Saleev, N.M. Salikhov, A.L. Shepetov, Yu.V. Shlyugaev, S.I. Svertilov, L.I. Vil'danova, N.N. Zastrozhnova, Z.S. Zhantaev, K.S. Zhilchenko, V.V. Zhukov, K.P. Zybin, Simultaneous observation of lightning emission in different wave ranges of electromagnetic spectrum in Tien Shan mountains. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Atmos(2017), doi:[10.1016/j.atmosres.2018.04.018](https://doi.org/10.1016/j.atmosres.2018.04.018)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Simultaneous observation of lightning emission in different wave ranges of electromagnetic spectrum in Tien Shan mountains

A. V. Gurevich^{1,*} alex@lpi.ru, G. K. Garipov², A. M. Almenova³, V. P. Antonova⁴, A. P. Chubenko¹, O. A. Kalikulov⁵, A. N. Karashtin⁶, O. N. Kryakunova⁴, V. Yu. Lutsenko⁴, G. G. Mitko¹, K. M. Mukashev⁵, R. A. Nam¹, N. F. Nikolaevsky⁴, V. I. Osedlo², M. I. Panasyuk², M. O. Ptitsyn¹, V. V. Piscal¹, V. A. Ryabov¹, N. O. Saduev⁵, T. Kh. Sadykov³, K. Yu. Saleev², N. M. Salikhov⁴, A. L. Shepetov¹, Yu. V. Shlyugaev⁷, S. I. Svertilov², L. I. Vil'danova¹, N. N. Zastrozhnova³, Z. S. Zhantaev⁴, K. S. Zhilchenko², V. V. Zhukov¹ and K. P. Zybin¹

¹P. N. Lebedev Physical Institute of the Russian Academy of Sciences (LPI), Leninsky pr., 53, Moscow, Russia, 119991

²D. V. Skobeltsyn Institute of Nuclear Physics of the M. V. Lomonosov Moscow State University, Vorob'yovy Gory, 1, str. 2, Moscow, Russia, 119234

³Institute for Physics and Technology, Ibragimova, 11, Almaty, Republic of Kazakhstan, 050032

⁴Institute of Ionosphere, Kamenskoye plato, Almaty, Republic of Kazakhstan, 050020

⁵Institute of Experimental and Theoretical Physics of al-Farabi Kazakh National University, al-Farabi pr., 71, Almaty, Kazakhstan, 050040

⁶Radiophysical Research Institute, Bolshaya Pechyorskaya, str., 25/12a, Nizhny Novgorod, Russia, 603950

⁷Institute of Applied Physics of RAS, Ul'yanova str., 46, Nizhny Novgorod, Russia, 603950

*Corresponding author.

Download English Version:

<https://daneshyari.com/en/article/8864568>

Download Persian Version:

<https://daneshyari.com/article/8864568>

[Daneshyari.com](https://daneshyari.com)