

Publications

➤ Peer Reviewed Papers

1. **M. Gerontidou**, A. Vassilaki, H. Mavromichalaki and V. Kurt :*"Frequency distributions of solar proton events"* Jour. Atmosph. Solar-Terrestr. Phys. 64, 489-496, **2002**
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3. H. Mavromichalaki, G. Souvatzoglou, C. Sarlanis, G. Mariatos, **M. Gerontidou**, A. Papaioannou, C. Plainaki, S. Tatsis, A. Belov, E. Eroshenko, V. Yanke *"The new Athens Center on data processing from the Neutron Monitor Network in real time"*, Annales Geophysicae, 23, 3103-3110, **2005**
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5. H. Mavromichalaki, **M. Gerontidou**, G. Mariatos , C. Plainaki, A. Papaioannou, C. Sarlanis, G. Souvatzoglou, A. Belov, E. Eroshenko, V. Yanke and S. Tsitomenas *"Space Weather forecasting at the new Athens Center: The recent extreme events of January 2005"*, IEEE TRANSACTIONS for Nuclear Science 52, 6, 2307-2312, **2005**
6. H. Mavromichalaki, G. Souvatzoglou, C. Sarlanis, G. Mariatos, C. Plainaki, **M. Gerontidou**, A. Belov, E. Eroshenko, V. Yanke *"Space weather prediction by cosmic rays"* Adv. Space Res. 37, 1141-1147, **2006**
7. H. Mavromichalaki, C. Plainaki, **M. Gerontidou**, C.Sarlanis, G. Souvatzoglou, G. Mariatos, A. Belov, E. Eroshenko, E. Klepach and V.Yanke *"GLEs as a Warning Tool for Radiation Effects on Electronics and Systems: A new Alert System based on Real-Time Neutron Monitors"* IEEE TNS 54, 1083-1088, **2007**
8. A. Belov, V. Kurt, H. Mavromichalaki, **M. Gerontidou**: *"Peak Size Distributions of Proton Fluxes and Associated Soft X-ray Flares"*, Solar Physics 246, 457-470, **2007**
9. H. Mavromichalaki, **M. Gerontidou**, G. Mariatos, M. Papailiou, A. Papaioannou, C. Plainaki, C. Sarlanis, G. Souvatzoglou *"Athens Neutron Monitor Data Processing Center-ANMODAP Center "*, Adv. Space. Res., 44, 1237-1246, **2009**
10. **M. Gerontidou**, H. Mavromichalaki, A. Belov, V. Kurt *"Solar proton enhancements and coronal mass ejections during the last solar cycle"*, Advances in Space Research, 43, 687-693, **2009**

11. H. Mavromichalaki, G. Souvatzoglou, Ch. Sarlanis, G. Mariatos, A. Papaioannou, A. Belov, E. Eroshenko, and V. Yanke for the NMDB team "Implementation of the Ground Level Enhancement Alert Software at NMDB database" *New Astronomy*, 15, 744-748, **2010**
12. K.Kudela, H. Mavromichalaki, A. Papaioannou, **M. Gerontidou**: "On mid term periodicities in cosmic rays" *Solar Physics*, 266, 173-180, **2010**
13. H. Mavromichalaki, A. Papaioannou, C. Plainaki, C. Sarlanis, G. Souvatzoglou, **M. Gerontidou**, M. Papailiou, E. Eroshenko, A. Belov, V. Yanke, E. O. Flückiger, R.Bütikofer, M. Parisi, M. Storini, K – L. Klein, N. Fuller, C. T. Steigies, O. M. Rother, B. Heber, R. F. Wimmer – Schweingruber, K. Kudela, I. Strharsky, R. Langer, I.Usoskin, A. Ibragimov, A. Chilingaryan, G. Hovsepyan, A. Reymers, A. Yeghikyan, O. Kryakunova, E. Dryn, N. Nikolayevskiy, L. Dorman, L. Pustil'nik: "Applications and usage of the Real – time Neutron Monitor database", *Advances in Space Research*, 47, 2210-2222, **2011**
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15. P. Paschalis, H. Mavromichalaki, V. Yanke, A. Belov, E. Eroshenko, **M. Gerontidou**, I. Koutroumpi: "Online application for the barometric coefficient calculation of the NMDB stations", *New Astronomy*, 19, 10-18, **2013**
16. H. Mavromichalaki, A. Papaioannou, **M. Gerontidou**, M. Papailiou. C. Plainaki, A. Belov, E. Eroshenko, A. Abunin, M. Abunina, V. Yanke: 'Cosmic ray events in the beginning of 2012', *Journal of Physics* 409, 012206 , **2013** doi:10.1088/1742-6596/409/1/012206
17. M. Abunina, A. Papaioannou, **M. Gerontidou**, P. Paschalis, A. Abunin, S. Gaidash, I. Tsepakina, A. Malimbayev, A. Belov, H. Mavromichalaki, O. Kryakunova, P. Velinov: 'Forecasting Geomagnetic Conditions in near-Earth space', *Journal of Physics* 409, 012197, **2013** , doi:10.1088/1742- 596/409/1/012197
18. A. Papaioannou, G. Souvatzoglou, P. Paschalis, **M. Gerontidou**, H. Mavromichalaki: 'The first ground level enhancement of solar cycle 24 on 17 May 2012 and its real- time detection', *Solar Physics*, DOI 10.1007/s11207-013-0336-2, 289, 423-436, **2014**
19. Christina Plainaki, Helen Mavromichalaki, Monica Laurenza, **Maria Gerontidou**, Anastasios Kanellakopoulos, Marisa Storini: 'The Ground Level Enhancement of 2012 May 17: Derivation of solar proton event properties through the application of the NMBANGLE PPOLA model', *The Astrophysical Journal*, 785:160, **2014**.
20. H. Mavromichalaki, Ch. Papageorgiou, **M. Gerontidou**: "Solar cycle and 27-day variations of diurnal anisotropy of cosmic rays during the solar cycle 24", *Astrophysics and Space Science*, Space Science, 361, 69-77, DOI: 10.1007/s10509-016-2661-z, **2016**

➤ **Selected Conferences Proceedings (last 5 years) (Total number 60)**

1. H. Mavromichalaki, **M. Gerontidou**, P. Paschalis, E. Paouris: 'The ANeMoS federated products to the SSA Space Radiation Expert Service Centre (R-ESC)', ESWW13 Ostende (14-18 November 2016) *submit*
2. E. Paouris, H. Mavromichalaki, **M. Gerontidou**, Th. Kolydas, I. Kouroutzoglou: ' Contribution of the geomagnetic activity monitoring by the Athens Space Weather Forecasting Center to the Hellenic National Meteorological Service', ESWW13 Ostende (14-18 November 2016) *submit*
3. H. Mavromichalaki, **M. Gerontidou**, P. Paschalis: 'Facilities of Athens neutron Monitor Station to Space Weather' 24th European Cosmic ray Symposium 2016, Turin (4-9 September 2016), SH 102
4. P. Paschalis, A. Tezari, **M. Gerontidou**, H. Mavromichalaki, P. Nikolopoulou: 'Space Radiation Exposure calculations during extreme solar and cosmic ray activities', 24th European Cosmic ray Symposium 2016, Turin (4-9 September 2016), SH 88
5. H. Mavromichalaki, **M. Gerontidou**, P. Paschalis, E. Paouris : 'Space Situational Awareness Programme P2-SWE-1 "Space Weather Expert Service Centres: Definition and Development' ESA ITT AO/1-7699/13/D/MRP 'GLE Alert service and Multi station Neutron Monitor data' ESA SSA Thematic Workshop Darmstadt (10-12 May 2016)
6. P. Paschalis, A. Tezari, **M. Gerontidou**, H. Mavromichalaki: 'A new tool for radiation exposure calculations in aircraft flights during disturbed solar activity periods' EGU General Assembly, Geophys. Res. Abstr.18, EGU2016-5480, 2016
7. E. Paouris, **M. Gerontidou** and H. Mavromichalaki: 'The geomagnetic storms of 2015: Statistical analysis and forecasting results', EGU General Assembly, Geophys. Res. Abstr.18, EGU2016-11753, 2016
8. H. Mavromichalaki, **M. Gerontidou**, E. Paouris, A. Belov, E. Eroshenko, V. Yanke, D. Lingri, A. Laoutaris, A. Kanellakopoulos, A. Abunin, M. Abunina: 'A study of the polar and middle latitude neutron monitors during the extended geomagnetic storm of March 17, 2015', ESWW12, Ostende (23-27 Nov. 2015)
9. H. Mavromichalaki, **M. Gerontidou**, E. Paouris, A. Belov, E. Eroshenko, V. Yanke, D. Lingri, A. Laoutaris, A. Kanellakopoulos, A. Abunin, M. Abunina: 'A study of the polar and middle latitude neutron monitors during the extended geomagnetic storm of March 17, 2015', ESWW12, Ostende (23-27 Nov. 2015), S15 / P14
10. H. Mavromichalaki, **M. Gerontidou**, P. Paschalis, E. Paouris: The role of UoA as expert group of the ESA/SSA P2-SWE-1 program', ESWW12, Ostende (23-27 Nov. 2015), S3/ P3
11. **M. Gerontidou**, J. Platanos, P. Paschalis, H. Mavromichalaki: "Pressure correction of the Neutron Monitor data during the last solar cycle", ESWW12, Ostende (23-27 Nov. 2015), S15 / P15
12. H. Mavromichalaki, **M. Gerontidou**, E. Paouris, P. Paschalis, D. Lingri, A., Laoutaris, A. Kanellakopoulos : 'The extended geomagnetic storm of March 17, 2015', Proc. 12th HELAS Conference 2015 (Thessaloniki, July 2015)
13. J. Platanos, **M. Gerontidou**, P. Paschalis, H. Mavromichalaki: "Long term variation of the Barometric Coefficient of the neutron component of cosmic rays" Proc. 12th HELAS Conference 2015 (Thessaloniki, July 2015)
14. M. Laurenza, F. Berrilli, D. Del Moro, V. Di Felice, **M. Gerontidou**, A. Kanellakopoulos, M. Martucci, H. Mavromichalaki, M. Mergè, L. Narici, C. Plainaki, R. Sparvoli, M. Storini 'Multiplatform Observations of the Earth's Particle Radiation Environment during the 17 May 2012 SEP Event', ESWW11, Liege, (17-21 November 2014) Session - Solar Energetic Particle Events: from forecast to radiation impact

15. H. Mavromichalaki, A. Kanellakopoulos, C. Plainaki, M. Laurenza, M. Gerontidou, M. Storini, M. Andriopoulou : GLE60 & GLE71 Modeling and SEP Properties using Different Magnetospheric Models and Ground-Based Data' ESWW11, Liege, (17-21 November 2014) Session - Solar Energetic Particle Events: from forecast to radiation impact
16. H. Mavromichalaki, **M. Gerontidou**, P. Paschalis, A. Papaioannou, E. Paouris, G. Souvatzoglou 'Research applications of the Athens Neutron Monitor Station' , ECRS 2014, Kiel (1-5 September 2014) SI 457, 62 J. Phys.: Conf. Ser. 632, 012071, 2015
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19. Anastasios Kanellakopoulos, Christina Plainaki, Helen Mavromichalaki, Monica Laurenza, **Maria Gerontidou**, Marisa Storini, Maria Andriopoulou 'Relevance of near-Earth magnetic field modeling in deriving SEP properties using ground-based data' Geophysical Research Abstracts, 16, EGU2014-461, 2014, EGU General Assembly 2014 (<http://meetingorganizer.copernicus.org/EGU2014/EGU2014-461.pdf>)
20. **M. Gerontidou**, E. Paouris, P. Paschalis, A. Papaioannou, H. Mavromichalaki: 'Geomagnetic Conditions Forecasting Using Solar Activity Parameters' , European Space Weather week 10, Antwerp (18-22 November 2013), 140 (http://www.stce.be/esww10/ESWW10_Abstractbook.pdf)
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23. **M. Gerontidou**, H. Mavromichalaki, C. Plainaki, M. Laurenza, M. Storini , A. Belov, E. Eroshenko, V. Yanke: 'The first solar proton event of the current solar cycle recorded by satellites and ground based detectors', Proc. 11th HELLAS 2013, Athens (http://www.helas.gr/conf/2013/posters/S_1/gerontidou.pdf)
24. S. Petris, M-I. Chrysafeli, A. Papaioannou, **M. Gerontidou**, H. Mavromichalaki , A. Belov, E. Eroshenko, V. Yanke: 'An Overview of the ground level enhancement of cosmic rays on May 17, 2012', Proc. 11th HELLAS 2013, Athens (http://www.helas.gr/conf/2013/posters/S_1/mavromichalaki_3.pdf)
25. H. Mavromichalaki, A. Papaioannou, G. Souvatzoglou, J. Dimitroulakos, P. Paschalis, M. **Gerontidou** and E. Paouris: 'Implementing the European Neutron Monitor Service for the ESA SSA Program', Proc. 11th HELLAS 2013, Athens (http://www.helas.gr/conf/2013/posters/S_1/mavromichalaki_5.pdf)
26. A. Papaioannou, H. Mavromichalaki, G. Souvatzoglou, P. Paschalis, C. Sarlanis, J. Dimitroulakos and **M. Gerontidou**: 'Space Environment Forecasting with Neutron Monitors: Establishing a novel service for the ESA SSA Program', EGU Geophys. Res. Abstracts, 15, EGU2013-11784, 2013, EGU General Assembly 2013
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30. Α. Παπαϊωάννου, **Μ. Γεροντίδου**, Π. Πασχάλης, Μ. Abunina, Α. Belov, Ε. Μαυρομιχαλάκη: 'Κέντρο πρόγνωσης γεωμαγνητικών διαταραχών στο Γεωδιάστημα', 14^ο Πανελλήνιο Συνέδριο ΕΕΦ (Καμένα Βούρλα), 88, Μάρτιος 2012
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