CURRICULUM VITAE

MARIOS-STATHIS SPILIOTOPOULOS

Physicist - Ph.D.

Jan 2015

1 Personal

SURNAME: Spiliotopoulos

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DATE OF BIRTH: 30/11/1970

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2 Education - Activities

B.Sc. Degree: *Physics*, Physics Department, Athens University, Greece (1994). During the studies a thesis was made entitled: *Contribution to the forecast of thunderstorms at Athens Basin.*

M.Sc. Degree: *Physics of Atmospheric Environment (Meteorology),* Physics Department, Athens University, Greece (1997): Two years postgraduate Diploma. During the studies a master thesis was made entitled: *Contribution to the study of drought in the wide region of Aegean Sea.*

Ph.D. Degree: University of Thessaly, Greece. Doctoral Dissertation entitled: *Water Resources Management in Agricultural Watersheds using Remote Sensing.* Supervised by Prof. Athanasios Loukas.

Foreign Languages*: English*. Level C1

Special training – Participation in Research Activities*:*

1. COST Training School Support COST 718 "Meteorological Applications for Agriculture", University of Thessaly, 4-8 July 2005, Volos, Greece.

2. COST Training School Support, COST 719 "Application of GIS in Meteorology and Climatology", Institute of Biometeorology/National Research Council, 26-30 September 2005, Florence, Italy.
3. COST 725 (Establishing a European Phenological Data Platform for Climatological Applications) 5th Management Committee Meeting and Working Groups meetings in Dublin, Ireland, 27th to 28th April 2006.
4. ERASMUS Staff Training. University of Limerick International Week: 23 to 27 April 2012, Limerick, Ireland.
5. COST ES1106 (ESSEM COST Action ES1106: Assessment of EUROpean AGRIculture WATer use and trade under climate change (EURO-AGRIWAT): Working Subgroup on Remote Sensing meeting in Elvas, Portugal 20-21/3/2013.
6. ERASMUS Staff Training. University College Dublin: 22 to 26 July 2013, Dublin, Ireland.
7. COST ES1106 (ESSEM COST Action ES1106: Assessment of EUROpean AGRIculture WATer use and trade under climate change (EURO-AGRIWAT) Management Committee Meeting and Working Groups meetings in Universitat Autònoma de Barcelona, Spain, 19 to 28 November 2013.
8. Short Term Scientific Mission: "Computation of Evapotranspiration using Remote Sensing techniques in Ireland".COST ES1106 (ESSEM COST Action ES1106: Assessment of EUROpean AGRIculture WATer use and trade under climate change (EURO-AGRIWAT). 24/3/2014 – 19/4/2014. University College Dublin (UCD), Ireland. Host Prof. Nick Holden.
9. COST ES1106 (ESSEM COST Action ES1106: Assessment of EUROpean AGRIculture WATer use and trade under climate change (EURO-AGRIWAT). Joint WGs and MC meeting, Triq Kordin, Paola Pla 9032, Malta,12-13 September 2014.
10. "An integrated system development for monitoring and managing the quantity and quality of water resources in agricultural water basins under climate change conditions. Application in Karla watershed – ΥΔΡΟΜΕΝΤΩΡ – In Greek", General Secretariat of Research and Technology (G.S.R.T.) – Greece. Scientific Coordinator, N. Mylopoulos. Budget: 500,000 € (**2010-2013**).
11. "Sustainable Use of Irrigation Water in the Mediterranean Region (SIRRIMED)" – FP7-KBBE-2009-3 – Proposal Reference Number: FP7-245159. Scientific Coordinator: Dr. Juan José Alarcón. Budget: 4,050,000 € (**2010-2013**).
12. "MAthematical Modeling of Microcystis aeruginosa as a KEy-player in Lakes under Reconstruction (LAKEREMAKE)". General Secretariat of Research and Technology (G.S.R.T.) – Greece. Scientific Coordinator: Dr. Ch. Laspidou, Budget 200,000 € (**2014-2015**).

Military Services: 1998, June - 1999, December (Service is obligatory according to Greek Law).

Past Professional Activities: Scientific - Research Associate at the Laboratory of Agrometeorology, School of Agriculture, University of Thessaly, Greece (2001-2007).

Present Position: Scientific - Research Associate at the Laboratory of Hydrology and Aquatic Systems Analysis, Department of Civil Engineering, University of Thessaly, Greece (2007-).

Conference preparations and committees:
Participation in:

1 Management Committee participation of COST Action 725: *Establishing a European Phenological Data Platform for Climatological Applications*.
2 Member of the local organizing committee of the *International Symposium in GIS and Remote Sensing: Environmental Applications*, University of Thessaly, 7-9 November 2003, Volos Greece.
3 Organizing and scientific committee of the event: *Agrometeorology for the FARMER*, Friday 20 May 2005, School of Medicine, Larissa, Greece. Organized by Laboratory of Agrometeorology, University of Thessaly, Greece (In Greek).
4 Member of the local organizing committee of the International Conference on: *Information Systems in Sustainable Agriculture, Agroenvironment & Food Technology,* 20-23 September 2006, University of Thessaly, Volos, Greece.
5 Local Organizing committee of the *ESF (European Science Foundation) Exploratory Workshop*: *PHENOLOGY AND AGROCLIMATOLOGY*, 20-23 September 2006, Volos, Greece).
6 Management Committee Substitute of COST ES1106 (ESSEM COST Action ES1106: Assessment of EUROpean AGRIculture WATer use and trade under climate change (EURO-AGRIWAT).

3 Academic activities

A) University of Athens - Physics Department:
1. Laboratory of Basic Physics (Thermodynamics) (1996-1997).

B) **University of Thessaly – Department of Management of Rural Environment and Natural Resources:**
1. Meteorology-Climatology (2001-2002).
2. Agrometeorology (2002-2003).
3. Atmospheric Pollution (2002-2003),
4. Agriculture Production Systems (2002-2003),
5. Biomass for Energy Production (2002-2003)
6. Energy saving to the agricultural environment (2002-2003).
7. Environmental Remote Sensing (2002-2003, 2003-2004).

C**) University of Thessaly – Greek-French program of postgraduate studies Management of Hydrometeorological Hazards - Hydrohasards:**

1. GIS and Remote Sensing Applications in Hydrohazards Analysis - Laboratory Work (2010-2011, 2011-2012).
2. Storms – Teaching Assistant (2010-2011, 2011-2012).

4 Other Activities:

a) Collaboration with National Observatory of Athens: Supervision of Magnesia Meteorological Stations.
b) Semi-professional music employment. Playing with national and international blues performers (Michael Dotson, Louisiana Red etc).

5 Publications:

5.1 Theses

1. Chrysoulakis, N., and **Spiliotopoulos, M. (**1993): Contribution to the forecast of thunderstorms at Athens Basin, B.Sc. Thesis, Department of Applied Physics, National and Kapodistrian University of Athens.

2. **Spiliotopoulos, M.,** (1997): Contribution to the study of drought in the wide region of Aegean Sea, M.Sc. Thesis, Department of Applied Physics, National and Kapodistrian University of Athens.

3. **Spiliotopoulos, M**., (2014): Water Resources Management in Agricultural Watersheds using Remote Sensing. Doctoral Dissertation, University of Thessaly, Volos, Greece.

5.2 Refereed Journals

1. Domenikiotis, C., **Spiliotopoulos, M.,** Tsiros, E., and Dalezios, N.R., 2004. Early Cotton Yield Assessment by the use of the NOAA/AVHRR derived drought vegetation condition index in Greece, International Journal of Remote Sensing, Vol.25, Number 14, pp 2807 - 2819.
2. Domenikiotis, C., **Spiliotopoulos, M**., Tsiros, E., and Dalezios, N.R , 2004. Early cotton production assessment in Greece based on the combination of the drought vegetation condition index (VCI) and Bhalme and Mooley drought index (BMDI), International Journal of Remote Sensing, Vol 25, pp 5373–5388.
3. Domenikiotis, **Spiliotopoulos, M.,** Tsiros, E., and Dalezios, N.R., 2004. Remotely sensed estimation of annual cotton production under different environmental conditions in Central Greece, Physics and Chemistry of the Earth, Vol. 30, Issues 1-3, pp. 45-52.

4. Marinaki, A., **Spiliotopoulos, M**., and Michalopoulou, H., 2006. Evaluation of atmospheric instability indices in Greece, Advances in Geosciences, Vol. 7, pp 131 – 135.
5. Laspidou, C.S., Liakopoulos, A., **Spiliotopoulos, M.G.,** 2012. A 2D cellular automaton biofilm detachment algorithm Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 7495 LNCS , pp. 415-424.
6. **M. Spiliotopoulos**, and A. Loukas, 2014. An alternative methodology for the estimation of daily crop coefficients using NDVI relationships derived from in-situ observations. European Journal of Remote Sensing (submitted).

5.3 Conference Proceedings

1. **Spiliotopoulos, M.E.,** Michalopoulou,.H., 2000. Contribution to the study of drought in the Aegean region, Greece. *Proceedings of 5th Hellenic Conference in Meteorology, Climatology & Atmospheric Physics*, 25-28 September 2000, Thessaloniki, Greece, edited by Th. Karakostas (Ziti, Thessaloniki Greece), pp. 305-312, (In Greek).
2. Domenikiotis, C., **M. Spiliotopoulos**, E. Tsiros, and N.R. Dalezios 2002. Application of NOAA/AVHRR VCI for drought monitoring in Thessaly. *6th International Conference of Protection and Restoration of the Environment*, 1-5 July 2002, Skiathos, Greece, 1663-1670.
3. **Spiliotopoulos, M**, Kontou, E., Michalopoulou, H., 2002. Contribution to the study of drought in Greece. *6th Hellenic Conference in Meteorology, Climatology & Atmospheric Physics*, 25-28 September, Edited by B.D. Katsoulis (In Greek), Ioannina, Greece, pp. 422-429.
4. Loukas, A., Vasiliades L., **Spiliotopoulos M.,** Bampzelis D., Domenikiotis C., & Dalezios N.R.,2002. An Assessment of Regional Droughts in Greece using two Meteorological Drought Indices. *6th Hellenic Conference in Meteorology, Climatology & Atmospheric Physics*, 25-28 September, Edited by B.D. Katsoulis, Ioannina, Greece, pp. 708-716.
5. Domenikiotis, C., **Spiliotopoulos, M.**, Tsiros, E., and Dalezios, N.R., 2003. Remotely-Sensed innovative approach for the cumulative meteorological effects on cotton production, *Proceedings of International Society for Optical Engineering (SPIE)*, Remote Sensing for Agriculture, Ecosystems, and Hydrology V (Edited by M. Owe, G. D'Urso, J.F. Moreno and A. Calera), 8-10 September 2003, Barcelona, Spain, pp.151-161.
6. Chrysoulakis N., **Spiliotopoulos, M.,** Feidas, H., Domenikiotis, C., and Dalezios, N.R., 2004. Assessment of atmospheric static stability using Remote Sensing. *5th Panhellenic (International) Conference in Meteorology, Climatology & Atmospheric Physics*, 28-30 September 2004, University of Cyprus, Nicosia, vol. A΄, pp. 100-108.
7. Domenikiotis C., **Spiliotopoulos**, **M.,** Kanelou, E., Dalezios, N.R., 2004. Mapping of temperature related regions in Greece for the study of radiation frost, *Proceedings of the 7th Panhellenic Geographic Conference (Edited by: P. Kanaroglou, Mytilene, 14-17 October 2004,* pp.74-81 (in Greek).

8. Domenikiotis, C., Tsiros, E., **Spiliotopoulos, M.,** Dalezios, N.R., 2004. Use of NOAA/AVHRR-based Vegetation Condition Index (VCI) and Temperature Condition Index (TCI) for drought monitoring in Thessaly, Greece. *Proceedings of EWRA Symposium - Water Resources Management: Risks and Challenges for the 21st Century*, Izmir, Turkey, 2-4 September 2004 (Edited by: N.B. Harmancioglu, O.Fistikoglu, Y. Dalkilic and A. Gul), pp 769-782.
9. Chrysoulakis N., **Spiliotopoulos, M.**, Domenikiotis, C., and Dalezios, N.R., 2005. Towards Monitoring of Regional Atmospheric Instability Through MODIS/AQUA Images, In: N.R. Dalezios and H. Dobesch (Editors), *Proceedings of the International Symposium on GIS and Remote Sensing*: Environmental Applications, Volos, Greece, 7-9 November 2003, pp. 155-166.
10. Domenikiotis C., **Spiliotopoulos, M.**, Galakou, E., and Dalezios, N.R. 2005. Assessment of the Cold Cloud Duration (CCD) Methodology for Rainfall Estimation in Central Greece, In: N.R. Dalezios and H. Dobesch (Editors), *Proceedings of the International Symposium on GIS and Remote Sensing*: Environmental Applications, Volos, Greece, 7-9 November 2003, pp. 185-194.
11. Domenikiotis C., **Spiliotopoulos, M.**, Kanellou, E. and Dalezios, N.R., 2005. Classification of NOAA/AVHRR images for mapping of frost affected areas in Thessaly, Central Greece, In: N.R. Dalezios and H. Dobesch (Editors), *Proceedings of the International Symposium on GIS and Remote Sensing*: Environmental Applications, Volos, Greece, 7-9 November 2003, pp. 25-32.
12. Domenikiotis C., Tsiros, E., **Spiliotopoulos, M.**, and Dalezios, N.R., 2005. Zoning of cotton production areas based on NOAA/AVHRR images, In: N.R. Dalezios and H. Dobesch (Editors), *Proceedings of the International Symposium on GIS and Remote Sensing*: Environmental Applications, Volos, Greece, 7-9 November 2003, pp. 119-132.
13. **Spiliotopoulos M.**, Marinaki A, Michalopoulou H., 2006. Drought estimation for Crete island, Greece, In: N.R. Dalezios, S. Tzortzios and N. Samaras (Editors), *Proceedings of International Conference on: Information Systems in Sustainable Agriculture, Agroenvironment and Food Technology*, Volos, Greece, 20-23 September (ISBN 960-8029-42-2), pp. 823-829.
14. Bampzelis D., Domenikiotis C., **Spiliotopoulos M.,** Dalezios N.R., 2008. Cloud climatology of convective clouds in central Greece. Proceedings of 9th Conference of Meteorology, Climatology and Atmospheric Physics, 28-31 May 2008, Edited by: Aristotle University of Thessaloniki, Department of Meteorology-Climatology – Hellenic Meteorological Society, pp. 449-456.
15. **M. Spiliotopoulos**, A. Loukas, L. Vasiliades, 2009. Actual evapotranspiration estimation from satellite-based surface energy balance model in Thessaly, Greece. Proceedings of the common conference between Greek Committee for Water Resources Management and Hellenic Hydrotechnical Association: «Total water resources management under climate change conditions», Volos, 27-30 May 2009 (p.p. 789-796).
16. S. Spanos and **M. Spiliotopoulos**, 2010. A climatic investigation of precipitation amount associated with 500 hPa cyclones which are affecting the Greek territory during warm period of the year. Proceedings of the XIX Carpathian Balkan Geological Association (CBGA) Congress, Thessaloniki, Greece, Special Volume 99, pp. 429-434.

17. **M. Spiliotopoulos**, A. Karioti, A. Loukas και N. Mylopoulos, 2012. Land use study for Karla lake watershed with the use of Remote Sensing. First Thessaly Environmental Conference pp. 813-818 (In Greek).
18. **M. Spiliotopoulos,** N. Adaktylou, A. Loukas, H. Michalopoulou, N. Mylopoulos, L. Toulios, 2013. A spatial downscaling procedure of MODIS derived actual evapotranspiration using Landsat images at central Greece. First International conference on Remote Sensing and Geoinformation of Environment. Paphos Cyprus *RSCy 2013* 8-10 April 2013.
19. **M. Spiliotopoulos,** A. Loukas, and H. Michalopoulou, 2013. Contribution to the study of regional actual evapotranspiration with the use of surface energy balance and remote sensing for central Greece. Advances in Meteorology, Climatology and Atmospheric Physics Eds Helmis, Costas G.; Nastos, Panagiotis. Springer Atmospheric Sciences Berlin Heidelberg, 2013, XXX, 309-315.
20. L. Toulios, G. Stancalie, P. Struzik, P. Nejedlik, **M. Spiliotopoulos**, 2013. Sources of remote sensing data used for estimating variables in environmental change studies in agriculture. In: (Ed.: B. Šiška, P. Nejedlík, L. Hájková, V. Kožnarová) International Scientific Conference: Environmental Changes and Adaptation Strategies, 9th - 11th September 2013, Skalica, Slovakia. ISBN 978-80-552-1066-7.
21. G. Stancalie, A. Nertana, L. Toulios, **M. Spiliotopoulos**, 2014. Potential of using satellite based vegetation indices and biophysical variables for the assessment of the water footprint of crops. Proc. SPIE 9229, Second International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2014), 92290K (August 12, 2014); doi:10.1117/12.2066392.
22. **M. Spiliotopoulos**, A. Loukas, N. Mylopoulos, L. Toulios, G. Stancalie, 2014. Investigation of spatial relationships between crop coefficients and specific ground based vegetation indices for Karla watershed, Greece. Proc. SPIE9229, Second International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2014), 92290J (August 12, 2014); doi:10.1117/12.2066095.
23. M. Romanguera, L. Toulios, G. Stancalie, **M. Spiliotopoulos**, P. Struzik, E. Calleja, 2014. Identification of the key variables that can be estimated using remote sensing data and needed for Water Footprint (WF) assessment. Proc. SPIE 9229, Second International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2014), 922912 (August 12, 2014); doi:10.1117/12.2066120.
24. Loukas, J. Tzabiras, **M. Spiliotopoulos**, N. Mylopoulos, 2014. Development of a district information system for water management planning and strategic decision making. Second International Conference on Remote Sensing and Geoinformation of Environment in Paphos, Cyprus, April 7-10, 2014 (pending).
25. Vasiliades, L., **Spiliotopoulos, M.,** Tzabiras, J., Loukas, A., Mylopoulos, N., 2015. Estimation of crop water requirements using remote sensing for operational water resources management. Third International Conference on Remote Sensing and Geoinformation of the Environment 2015, 16-19 March 2015, Cyprus (submitted).

26. **Spiliotopoulos, M.,** Loukas, A., Mylopoulos, N., 2015. A new remote sensing procedure for the estimation of crop water requirements. Third International Conference on Remote Sensing and Geoinformation of the Environment 2015, 16-19 March 2015, Cyprus (submitted).
27. Vasiliades, L., Sidiropoulos, P. Tzabiras, J., Kokkinos, K., **Spiliotopoulos, M.,** Papaioannou, G., Fafoutis, C., Michailidou, K., Tziatzios, G., Loukas, A., & Mylopoulos, N., 2015. An integrated monitoring and management system for quantity and quality assessment of water resources in rural basins. 9th World Congress of EWRA "Water Resources Management in a Changing World: Challenges and Opportunities" Istanbul, Turkey, 10th-13th June 2015.

5.4 Conference Presentations and Participations

1. Domenikiotis, C., **Spiliotopoulos, M.**, Tsiros, E., and Dalezios, N.R., 2003. Cotton Production Estimation Based on the Combination of NOAA/AVHRR Data and Bhalme and Mooley Drought Index Methodology in Thessaly Greece. EGS-AGU-EUG Joint Assembly, 6-11 April 2003, Nice, France. *Geoph. Research Abstracts*, Vol. 5, 2003.
2. Theoharatos, G., Mavrakis, A., **Spiliotopoulos, M.,** and Michalopoulou, H., 2005. The effects of solar activity on the precipitation and drought/flood conditions in Greece. European Geosciences Union, General Assembly 2005, Vienna, Austria, 24 - 29 April 2005.
3. Domenikiotis, C., Tsiros, E., **Spiliotopoulos, M.,** and Dalezios, N.R., 2005. Identification of cotton phonological features based on the Vegetation Condition Index (VCI). Workshop on Climatic Analysis and Mapping for Agriculture, 14-17 June 2005, Bologna, Italy.
4. A. Marinaki, **M. Spiliotopoulos** and H. Michalopoulou, 2005. Evaluation of atmospheric instability indices in Attica, Greece. 7th Plinius Conference on Mediterranean Storms. European Geosciences Union. 05 – 07 October 2005, Rethymnon, Crete, Greece.
5. Marinaki A., **Spiliotopoulos, M.** and Michalopoulou, H., 2007. A comparative performance analysis of three meteorological drought indices for Thessaly, Greece. European Geosciences Union, General Assembly 2007, Vienna, Austria, 15 - 20 April 2007.
6. **M. Spiliotopoulos**, A. Loukas and L. Vasiliades, 2008. Actual evapotranspiration estimation from satellite-based surface energy balance model in Thessaly, Greece. European Geosciences Union, General Assembly 2008, Vienna, Austria, 13 - 18 April 2008.
7. **M. Spiliotopoulos**, H. Michalopoulou and A. Loukas, 2009. Comparison of ground based and satellite derived regional actual evapotranspiration estimation for continental Greece. 6th EGU, General Assembly, Vienna, Austria, 19 - 24 April 2009, Geophysical Research Abstracts, Vol. 11, 2009 EGU2009-12585, EGU General Assembly 2009.
8. A. Loukas and **M. Spiliotopoulos**, 2010. Climate change implications on maximum monthly stream flow in Cyprus using fuzzy regression models. 12th

Plinius Conference on Mediterranean Storms. European Geosciences Union. Corfu Island, Greece. 1 – 4 September 2010.

9. John Tzabiras, **Marios Spiliotopoulos**, Kostantinos Kokkinos, Chrysostomos Fafoutis, Pantelis Sidiropoulos,Lampros Vasiliades, Athanasios Loukas, and Nikitas Mylopoulos, 2014. A GIS based district information system for water resources management and planning. Geophysical Research Abstracts Vol. 16, EGU2014-15446.
10. **M. Spiliotopoulos**, N. Holden, A. Loukas, 2014. Leaf Area Index for the estimation of Actual Evapotranspiration using the Surface Energy Balance and Remote Sensing SEBAL (model) for central Ireland. 2014 ASABE and CSBE | SCGAB Annual International Meeting, July 13 – 16, 2014. Montreal, Quebec Canada.

5.5 Journal Reviewer:

1. ISPRS Journal of Photogrammetry and Remote Sensing.
2. Fresenius Environmental Bulletin by Parlar Scientific Publications
3. WATER by MDPI
4. Toxicological & Environmental Chemistry
5. Atmospheric Research by Elsevier

6 Citations from scopus.com (Self citations of all authors are excluded)

A/A	Publication	Title and Source
1.	5.2-1	Kogan, F., Yang, B., Guo, W., Pei, Z., Jiao, X., 2005. Modelling corn production in China using AVHRR-based vegetation health indices. *International Journal of Remote Sensing* 26 (11), pp. 2325-2336.
2.	5.2-1	Zhang, P., Anderson, B., Tan, B., Huang, D.,Myneni, R.,2005. Potential monitoring of crop production using a satellite-based Climate-Variability Impact Index. *Agricultural and Forest Meteorology* 132 (3-4), pp. 344-358.
3.	5.3-1	Livada, I., Assimakopoulos, V.D., 2007. Spatial and temporal analysis of drought in Greece using the Standardized Precipitation Index (SPI). *Theoretical and Applied Climatology* 89 (3-4), pp. 143-153.
4.	5.2-1	Salazar, L., Kogan, F., Roytman, L., 2007. Use of remote sensing data for estimation of winter wheat yield in the United States,2007. *International Journal of Remote Sensing* 28 (17), pp. 3795-3811.
5.	5.2-1	Skianis, G.A., Vaiopoulos, D.,Nikolakopoulos, K.,2007. A probabilistic approach to the problem of assessing the efficiency of the transformed vegetation index, 2007. International Journal of Sustainable Development and Planning 2 (4), pp. 461-480.
6.	5.2-1	Salazar, L., Kogan, F., Roytman, L., 2008. Using vegetation health

		indices and partial least squares method for estimation of corn yield. *International Journal of Remote Sensing* 29 (1), pp. 175-189.
7.	5.2-1	Wall, L., Larocque, D., Léger, P.-M.,2008. The early explanatory power of NDVI in crop yield modelling. *International Journal of Remote Sensing* 29 (8), pp. 2211-2225.
8.	5.2-4	Walker, I., Chakrapani, V., Elmahboub, W., 2008. The development of a shape factor in stability index to guide severe weather forecasts for aviation safety. *Meteorological Applications* 15 (4), pp. 465-473.
9.	5.2-1	Menzhulin, G.V., Peterson, G.N., Shamshurina, N.V., 2008. Designing new regression models of crop productivity year-to-year anomalies based on satellite vegetation information. Vestnik Sankt-Peterburgskogo Universiteta, Seriya Geologiya i Geografiya 2008 (4), pp. 86-98.
10.	5.3-6	Cai, R., Jiang, D., Qu, Y., Wu, X.., 2008. Analysis of atmospheric stability using AIRS data. Proceedings of SPIE - The International Society for Optical Engineering 7148, art. no. 714803.
11.	5.2-1	Bryan, B.A., Hajkowicz, S., Marvanek, S.,Young, M.D., 2009. Mapping Economic Returns to Agriculture for Informing Environmental Policy in the Murray-Darling Basin, Australia. *Environmental Modeling and Assessment* 14 (3), pp. 375-390.
12.	5.2-4	Sánchez, J.L., Marcos, J.L., Dessens, J.,López, L., Bustos, C., García-Ortega, E., 2009. Assessing sounding-derived parameters as storm predictors in different latitudes. *Atmospheric Research* 93 (1-3), pp. 446-456.
13.	5.2-4	Dimitrova, T., Mitzeva, R., Savtchenko, A.,2009. Environmental conditions responsible for the type of precipitation in summer convective storms over Bulgaria. *Atmospheric Research* 93 (1-3), pp. 30-38.
14.	5.2-4	Nakano, F., Morimoto, T., Ushio, T., Kawasaki, Z.-I., 2009. An instability index for lightning prediction in typhoon. IEEJ *Transactions on Fundamentals and Materials* 129 (12), pp. 859-864.
15.	5.3-3	Nastos, P.T., Zerefos, C.S., 2009. Spatial and temporal variability of consecutive dry and wet days in Greece. *Atmospheric Research* 94 (4), pp. 616-628.
16.	5.2-1	Gu, X., He, X., Guo, W., Huang, W., Yan, R., 2010. Maize yield estimation at province scale by interpolation of TM and MODIS time-series images. *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering* 26 (SUPPL. 2), pp. 53-58.
17.	5.2-1	Gebrehiwot, T., van der Veen, A., Maathuis, B., 2011. Spatial and temporal assessment of drought in the Northern highlands of Ethiopia. *International Journal of Applied Earth Observation and Geoinformation* 13 (3), pp. 309-321.
18.	5.2-4	Chan, P.W., Hon, K.K. , 2011. Application of ground-based, multi-channel microwave radiometer in the nowcasting of intense convective weather through instability indices of the atmosphere. *Meteorologische Zeitschrift* 20 (4) , pp. 431-440.
19.	5.2-1	Manatsa, D., Nyakudya, I.W., Mukwada, G., Matsikwa, H. , 2011.

		Maize yield forecasting for Zimbabwe farming sectors using satellite rainfall estimates. *Natural Hazards* 59 (1) , pp. 447-463.
20.	5.2-1	Wang, P., Sun, R., Zhang, J., Zhou, Y., Xie, D., Zhu, Q., 2011. Yield estimation of winter wheat in the north china plain using the remote-sensing-photosynthesis-yield estimation for crops (RS-P-YEC) model. *International Journal of Remote Sensing* 32 (21) , pp. 6335-6348.
21.	5.2-3	Gao, Z., Xu, X., Wang, J., Jin, H., Yang, H., 2012. Cotton yield estimation based on similarity analysis of time-series NDVI. *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering* 28 (2) , pp. 148-153.
22.	5.2-1 5.2-2	Kanellou, E.C., Spyropoulos, N.V., Dalezios, N.R. , 2012. Geoinformatic Intelligence Methodologies for Drought Spatiotemporal Variability in Greece. *Water Resources Management* 26 (5) , pp. 1089-1106.
23.	5.2-1	Kogan, F., Salazar, L., Roytman, L., 2012. Forecasting crop production using satellite-based vegetation health indices in Kansas, USA. *International Journal of Remote Sensing* 33 (9), pp. 2798-2814.
24.	5.2-1	Shamseddin, A.M., Adeeb, A.M. , 2012. Using remotely sensed and ancillary data to predict spatial variability of rainfed crop yield. *International Journal of Remote Sensing* 33 (12) , pp. 3798-3815.
25.	5.2-4	Mitra, A.K., Sharma, A.K., Bajpai, I., Kundu, P.K. ,2012. An atmospheric instability derived with MODIS profile using real-time direct broadcast data over the Indian region. *Natural Hazards* 63 (2) , pp. 1007-1023.
26.	5.2-2	Mokhtari, M.H., Adnan, R., Busu, I., 2013. A new approach for developing comprehensive agricultural drought index using satellite-derived biophysical parameters and factor analysis method. *Natural Hazards* 65 (3) , pp. 1249-1274.
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