ANDREAS J. KARAMANOS

SHORT CURRICULUM VITAE

I. BIOGRAPHICAL NOTES

Born in Athens, 13/09/1946

- 1964-1969: Undergraduate studies, Agricultural College of Athens (now Agricultural University of Athens). Degree with honours (excellent, 9/10).
- 1970-1971: Military service.
- 1971-1973: Employed at the "A.G. Petzetakis S.A.", Department of planning of irrigation works.
- 1973-1978: Lecturer, Laboratory of General Botany, University of Athens.
- 1973-1976: Postgraduate studies at the University of Reading, Department of Agricultural Botany, led to a Ph.D. (July 1977).
- 1978-1981: Lecturer, Laboratory of Plant Physiology and Morphology, Agricultural University of Athens.
- Since 1981: Professor of Crop Production, Agricultural University of Athens.
- 1981-2004, 2008-2013: Director of the Laboratory of Agronomy, Agricultural University of Athens (AUA).
- 1988-1989: Head of the Department of Crop Science, AUA.
- 1991-1997: Vice Rector for Economic Affairs and Development and Chairman of the Research Committee, AUA.
- 1993-1997: Chairman of the Executive Committee of the Centre of Continuing Education, AUA.
- 1997-2000: Member of the Executive Committee at the National Centre for the Recognition of Academic Degrees.
- 2000-2004: Rector of the Agricultural University of Athens.
- 2003: Chairman of the Greek Rectors Conference.
- 2003-2004: Member of the High Board for Disciplinary Affairs of Greek Academics.
- 2003-2004: Delegate of the Rectors' Conference at the National Council of Education.
- 2004-2007: Secretary General at the Ministry of Education and Religious Affairs.
- 2005-2011: Chairman of the UNECE Steering Committee and Bureau for Education for Sustainable Development.
- 2005-2006: Chairman of the Hellenic Interministerial Committee for the preparation of the law for research (3653/2008).
- 2006-2007: Chairman of the National Committee for Lifelong Learning.
- 2006-2007: Chairman of the National Committee for Education for Sustainable Development.
- 2009-2013: Chairman of the Faculty of Crop Science, AUA.

- 1-9-2013: Retired from the AUA, Emeritus Professor since March 2014.
- From June-November 2015: Member of the Executive Board of the Cypriot Council for the Recognition of Academic Degrees (KY.S.A.T.S.).
- Since November 2015: Member of the Executive Board of the Agency for Quality Assurance and Accreditation of Higher Education Institutions of Cyprus (DIPAE).
- Since November 2016: Fellow of the Hellenic Agricultural Academy. Vice-President since 2020.

Foreign languages: English (fluently), German (very good), French (very good).

Married to Georgia Xanthaki, Em. Professor of Classics, University of the Peloponnese. One daughter, philologist, Associate Professor at the Faculty of Philology, Aristotle University of Thessaloniki. One son, Psychiatrist.

II. DOCTORATE THESIS

An analysis of the effect of water stress on leaf area growth in *Vicia faba*. L. in the field. Ph.D Thesis, Department of Agricultural Botany, University of Reading, U.K. (1977).

III.LIST OF PUBLICATIONS

- 1. Καραμάνος, A.I. (1972). Drip irrigation using multivalve. *Bulletin of the Hellenic Commission on Irrigation and Drainage*, 60/61, 10-27 (in Greek).
- 2. Karamanos, A.J. (1974). The "Multivalve" irrigation method. *Bulletin of the International Commission on Irrigartion and Drainage* Jan. 1974, 42-59.
- 3. Elston, J., Karamanos, A.J., Kassam. A.M. & Wadsworth, R.M. (1976). The water relations of the field bean crop. *Philosophical Transactions of the Royal Society of London* B 273, 581-591.
- 4. Margaris, N.S., Karamanos, A.J. & Adamantiadou, S. (1976). Changes of some soluble constituents during the release from apical dominance. In: *Plant Growth Regulation* (ed. P.E. Pilet), pp. 242-245, Springer Verlag, Berlin.
- 5. Karamanos, A.J. (1978a). Water stress and leaf area growth of field beans (*Vicia faba* L.) in the field. Leaf number and total leaf area. *Annals of Botany* 42, 1393-1402.
- 6. Karamanos, A.J. (1978b). Understanding the origin of the responses of plants to water stress by means of an equilibrium model. *Prakika Academy of Athens* 53, 308-341.

- 7. Karamanos, A.J. (1979). Water stress: a challenge for the future of agriculture (plenary lecture). In: *Plant Regulation and World Agriculture* (ed. T.K. Scott), pp. 415-455, Plenum Publ. Corp., New York.
- 8. Karamanos, A.J. (1980). Response in plant water status to integrated values of soil matric potential calculated from soil water depletion by a field bean crop. *Australian Journal of Plant Physiology* 7, 51-66.
- 9. Tyree, M.T. & Karamanos, A.J. (1981). Water stress as an ecological factor. In: *Plants and their Atmospheric Environment* (eds J. Grace *et al.*), pp. 237-261, Backwell, Oxford.
- 10. Karamanos, A.J. & Niavis, C.A. (1981). A contribution to the study of the water relations of olive-trees. Seasonal and diurnal fluctuations of plant water status (in Greek). *Panhellenic Congress of Geotechnical Research* 66, 43-44.
- 11. Karamanos, A.J., Elston, J. & Wadsworth, R.M. (1982). Water stress and leaf growth of field beans (*Vicia faba* L.) in the field: Water potentials and laminar expansion. *Annals of Botany* 49, 815-826.
- 12. Karamanos, A.J., Drossopoulos, J.B. & Niavis, C.A. (1983). Free proline accumulation during development of two wheat cultivars with water stress. *Journal of Agricultural Science* 100, 429-439.
- 13. Karamanos, A.J. (1983). Ways of detecting adaptive responses of cultivated plants to drought. An agronomic approach. In: *Being Alive on Land* (eds N.S. Margaris *et al.*), pp. 91-101, Dr W. Junk, The Hague.
- 14. Karamanos, A.J. (1983). Leaf touching and some growth characteristics of faba bean crops subjected to different degrees of water stress. *FABIS Newsletter* No 7, 33-36.
- 15. Karamanos, A.J. (1984). Effects of water stress on some growth parameters and yields of field bean crops. In: *Vicia faba: Agronomy, Physiology and Breeding* (eds P.D. Hebblethwaite *et al.*), pp.47-59, Martinus Nijhoff/ Dr W. Junk, The Hague.
- 16. Drossopoulos, J.B., Karamanos, A.J. & Niavis, C.A. (1985). Changes in free amino compounds during the development of two wheat cultivars subjected to different degrees of water stress. *Annals of Botany* 56, 291-305.
- 17. Drossopoulos, J.B., Karamanos, A.J. & Niavis, C.A. (1987). Changes in ethanol soluble carbohydrates during the development of two wheat cultivars subjected to different degrees of water stress. *Annals of Botany* 59, 173-180.
- 18. Karamanos, A.J. (1986). Effects of plant water status on leaf area development and yield of the *Vicia faba* crop. *Vorträge zur Pflanzenzüchtung* 11, 25-39.
- 19. Karamanos, A.J. & Papatheochari, Y. (1987). Understanding the mechanisms of drought resistance of some crop plants. In: *Drought Resistance in Plants* (eds L. Monti & E. Porceddu), pp. 95-109, EEC, Luxembourg.

- 20. Karamanos, A.J. & Drossopoulos, J.B. (1987). Water stress-induced alterations in nitrogen and carbohydrate metabolism of cereals and their possible ecological implications (plenary lecture). In: *Plant Metabolism Regulation* (eds T. Kudrev *et al.*), pp.24-36, Bulgarian Academy of Sciences, Sofia.
- 21. Karamanos, A.J. and Theodorou, T.G. (1988). Growth and yields of the single maize hybrids "Aris", "Alexandros" and "Nickerson-702". *Agricultural Research* (in Greek) 12, 5-19.
- 22.Zacharopoulos, Z.D. and Karamanos, A.J. (1989). Association among agrometeorological variables, yields and malting quality characters of two-rowed barley (*Hordeum sativum* Jess, cv. Beka) in climatic zones of Greece. *Praktika Academy of Athens* 64, 101-133 (in Greek).
- 23. Karamanos, A.J. and Avgoulas, C.E. (1989). Plant characteristics of faba bean (*Vicia faba* L.) cultivars associated with broomrape (*Orobanche crenata* Forsk.) attack in a naturally infested field. *FABIS Newsletter* 25, 40-45.
- 24. Karamanos, A.J. (1990). Parameters of tissue water relations and drought response of some crop plants (plenary lecture). In: *Plant Metabolism Regulation* (eds E. Karanov and V. Alexieva), pp.3-12, Bulgarian Academy of Sciences, Sofia.
- 25. Drossopoulos, J.B., Karamanos, A.J. & Kouchaji, A. (1992). A survey of selected nutrient levels at different leaf positions of oriental field-grown tobacco plants. *Tobacco Science* 36, 10-15.
- 26. Papadopoulos, G., Karamanos, A., Karountzou, E. and Avgoulas, C. (1991). Dietatic assessment of faba bean seeds in fattening broilers. *Praktika Academy of Athens* 66, 224-238 (in Greek).
- 27. Karamanos, A.J. & Gimenez, C. (1991). Physiological factors limiting growth and yield of faba beans. *Options Mediterranneènes* 10, 79-90.
- 28. Podimatas, C. & Karamanos, A.J. (1991). Present status and future prospects of faba bean production and improvement in Greece. *Options Mediterranneènes* 10, 139-42.
- 29. Economou, G., Avgoulas, C.E., Karamanos, A.J. and Papastylianou, P. (1992). Morphological variation of *Sorghum halepense* in Greece. *Zizaniology* 2, 233-241 (in Greek).
- 30. Karamanos, A. J., Papadopoulos, G., Avgoulas, C.E. and Papastylianou, P (1994). Chemical composition of seeds of 11 field-grown faba bean cultivars in two cultivation periods. *FABIS Newsletter* 34/35, 39-47.
- 31. Karamanos, A. J., Peppa, A. and C. Avgoulas (1995). A comparative study of the water relations and productivity of contrasting faba bean (*Vicia faba L.*) cultivars. In: *Improving Production and Utilization of Grain Legumes*, (Proc. 2nd European Conference of Grain Legumes), pp.124-125, AEP, Copenhagen.
- 32. Papastylianou, P. and Karamanos, A. J., (1995). Field evaluation of the photothermal requirements for flowering of three lentil cultivars (*Lens culinaris*

- Medic.). In: *Improving Production and Utilization of Grain Legumes* (Proc. 2nd European Conference of Grain Legumes), p. 145, AEP, Copenhagen.
- 33. Karamanos, A. J., and Podimatas, C. J. (1995). A study of the water relations of faba beans (*Vicia faba* L.) at different crop densities. In: *Proceedings of the 2nd STRESSNET Conference* (eds R.A. Leigh and M.M.A. Mechteld Blake-Kalff), pp. 117-123, European Commission.
- 34. Karamanos, A. J. (1995). The involvement of proline and some metabolites in water stress and their importance as drought resistance indicators. *Bulgarian Journal of Plant Physiology* 21 (2-3), 98-110
- 35. Avgoulas C., Economou, G. and Karamanos, A.J. (1996). Effects of several factors on the dormancy and germination ability of seeds of *Sorghum halepense*. *Zizaniology* 3, 29-36 (in Greek).
- 36. Avgoulas, C. and Karamanos, A.J. (1998). The field crops and their importance on Greek agriculture in the 21st century. In: (A. Karamanos, ed.) *The Agricultural Problem of Greece*, pp. 85-102, Agricultural University of Athens (in Greek).
- 37. Karamanos, A.J. & Papatheochari, A.Y. (1999). The assessment of drought resistance of crop genotypes by means of the water potential index. *Crop Science* 39, 1792-1797.
- 38. Karamanos, A.J. (2001). New tendencies in agricultural science. European developments and the Greek perspectives. In: *The Agronomist in the Next two Decades (Proceedings of a Conference of the Geotechnical Chamber of Greece, 16-18/5/2001)*, pp. 29-32, Geotechnical Chamber of Greece (in Greek).
- 39. Karamanos, A.J., Bilalis, D. and Sidiras, N. (2004). Effects of reduced tillage and fertlization practices on soil characteristics, plant water status, growth and yield of upland cotton. *Journal of Agronomy and Crop Science* 190, 1-17.
- 40. Karamanos, A.J. (2004). Education and the development of the primary economic sector. In: *Education and Development. The Case of the District of Sterea Hellas (Conference Proceedings, 9-11/1/2004)*, pp. 45-52, Lamia (in Greek).
- 41. Karamanos, A. & S. Aggelides (2004). Participatory water management and cultural heritage in Greece. *Options Méditerranéennes*, Ser. B, 48, 133-141.
- 42. Papastavrou, A., Livanos, G., Economou, G., Avgoulas, C. and Karamanos, A. (2004). Assessment of the drought resistance of 20 bread and durum wheat landraces. In: *Proceedings of the 10th Panhellenic Conference of the Greek Society of Plant Breeding*, pp. 180-187, Athens (in Greek).
- 43. Efthymiades, P. and Karamanos, A.J. (2005). Ancestors of some crop species in the islands of the Eastern Aegean. In: *Theophrastus 2000. Biodiversity and Natural Heritage in the Aegean* (A. J. Karamanos and C.A. Thanos, eds), pp. 213-233, Athens (in Greek).

- 44. Karamanos, A., S. Aggelides & P. Londra (2005). Irrigation systems performance in Greece. *Options Méditerranéennes*, Ser. B, 52, 99-110.
- 45. Karamanos, A., S. Aggelides & P. Londra (2005). Non-conventional water use in Greece. *Options Méditerranéennes*, Ser. B, 53, 265-269.
- 46. Travlos, I. & A. J. Karamanos (2006). Effects of soil texture on vegetative growth of the tropical legume Marama bean (*Tylosema esculentum*). *Journal of Agronomy* 5, 609-612.
- 47. Tsakalis, N., Vahamides, P., Voloudakis, D., Sanidas, K., Papastavrou, A., Economou, G. and Karamanos, A. (2006). The effect of water stress on spike ontogenesis in bread and durum wheat landraces. In: *Proceedings of the 11th Panhellenic Conference of the Greek Society of Plant Breeding*, pp. 368-375, Athens (in Greek).
- 48. Karamanos, A., N. Dercas, P. Londra & S. Aggelides (2007). Agricultural water saving in Greece. *Options Méditerranéennes*, Ser. B, 225-234.
- 49. Karamanos, A.J. (2007). Eleftherios Venizelos and the rural refugee settlement. In: *The Greek Rural Society and Economy during the Venizelos Era (Conference Proceedings, 3-5/11/2004)*, pp. 41-48, Ellinika Grammata, Athens (in Greek).
- 50. Gerasopooulos, E., Zerefos, C.S., Tsagouri, I., Founda, D., Amiridis, V., Bais, A.F., Belehaki, A., Christou, N., Economou, G., Kanakidou, M., Karamanos, A., Petrakis, M., Zanis, P. (2007). The total solar eclipse of March 2006: Overview. *Atmospheric Chemistry and Physics Discussions* 7, 17 663-17 704.
- 51. Derkas, N. Londra, P. and Karamanos, A.J. (2007). Suggestions for improving irrigation water management in the framework of the 2000/60 directive. *Proceedings of the 5th National Conference of Agricultural Engineering* (18-20 October 2007), pp. 328-336., Greek Society of Agricultural Engineers (in Greek).
- 52. Travlos, I.S., G. Economou & A.J. Karamanos (2007). Germination and emergence of the hard seed coated *Tylosema esculentum* (Burch) A. Schreib in response to different pre-sowing seed treatments. *Journal of Arid Environments* 68, 501-507.
- 53. Economou, G., I.S. Travlos, A. Folinas & A.J. Karamanos (2007). Greek oregano (*Origanum vulgare* spp. *hirtum*) as allelopathetic plant. *Journal of Food, Agriculture and Environment* 5, 84-87.
- 54. Travlos, I.S. and A.J. Karamanos (2007). Influence of heat on seed germination and seedling emergence of Chaste Tree (*Vitex agnus castus* L.). *Journal of Agronomy* 6 25-28.
- 55. Travlos, I.S., G. Economou and A.I. Karamanos (2007). Seed germination and seedling emergence of *Spartium junceum* L. in response to heat and other pre-sowing treatments. *Journal of Agronomy*, 6, 152-156.

- 56. Travlos, I.S., G. Economou and A.J. Karamanos (2007). Effects of heat and soil texture on seed germination and seedling emergence of Marama Bean, *Tylosema esculentum* (Burch) A. Schreib. *Journal of Food, Agriculture & Environment* 5, 153-156.
- 57. Travlos, I.S. and A.J. Karamanos (2007). Growth responses of Marama Bean (*Tylosema esculentum* (Burch) A. Schreib.) to water deficit conditions. *International Journal of Agricultural Research* 3, 155-160.
- 58. Travlos, I.S., G. Liakopoulos, G. Karabourniotis, C. Fasseas and A.I. Karamanos (2007). Endogenous leaflet movements of *Tylosema esculentum* (Burch) A. Schreib and relevant potassium effects. *Journal of Arid Environments* 72, 1745-1750.
- 59. Travlos, I.S., G. Economou and A.I. Karamanos (2008). Inhibitory effects of marama (*Tylosema esculentum*) on the growth of oat (*Avena sativa*) and barley (*Hordeum vulgare*). *Journal of Biological Sciences* 8, 970-973.
- 60. Gikas, E., Alesta, G., Economou, G., Karamanos, A. and Tsarbopoulos, I. (2008). Determination of isoflavones in the aerial part of red clover by HPLC-diode array detection. *Journal of Liquid Chromatography and Related Technologies* 31, 1181-1194.
- 61. Travlos, I.S., G. Economou , V.E. Kotoulas , P.J. Kanatas, A.N. Kontogeorgos and A.I. Karamanos (2009). Potential effects of diurnally alternating temperatures and solarization on purple nutsedge (*Cyperus rotundus*) tuber sprouting. *Journal of Arid Environments* 73, 22-25.
- 62. Economou, G., Christou, E.D., Giannakourou, A., Gerasopoulos, E., Georgopoulos, D., Kotoulas, V., Lyra, D., Tsakalis, N., Tziortziou, M., Vahamidis, P., Papathanassiou, E. & Karamanos, A. (corresponding author) (2008). Eclipse effects on field crops and marine zooplankton: The 29 March 2006 total solar eclipse. *Atmospheric Chemistry and Physics* 8, 4665-4676.
- 63. Karamanos, A.J. (2008). Traditional soil cultivation techniques and their sustainable character. In: *The Earth as Craddle of Life and Creativity (Conference Proceedings* 19-21/3/2004), pp. 29-33, Museum of Greek Folklor Art, Athens (in Greek).
- 64. Panagopoulos, G., Economou, G., Tarantilis, P., Kalyvas, D. and Karamanos, A. (2008). Spatial distribution and chemotypic analysis of the aromatic and medicinal flora of the islands Ikaria and Fournoi. *Proceedings of the 12th Panhellenic Conference of the Greek Society of Plant Breeding*, pp. 411-415 (CD-ROM ISBN 978-960-87129-2-8) (in Greek).
- 65. Travlos, I.S., Kontogeorgos, A., G. Economou and A.J. Karamanos (2009). Outstanding mechanisms of drought adaptation of wild or underutilized plants of arid and semiarid regions. *In: Droughts: Causes, Effects and Prediction* (Ed. J.M. Sanchez), pp. 277-290, Nova Science Publishers, Inc., Hauppauge, New York.
- 66. Karamanos, A.J. (2009). The use of the Water Potential Index and some ecophysiological and morphological parameters as reliable indicators of crop adaptation to drought (plenary lecture). In: (F. Feldmann *et al.* eds) *Crop Plant*

- Resistance to Biotic and Abiotic Factors: Current Potential and Future Demands, pp. 33-46, DPG Selbstverlag, Braunschweig.
- 67. Karamanos, A., Papastylianou, P., Stavrou, Y and Avgoulas, C. (2009). Effects of water shortage and air temperature on seed yield and seed performance of lucerne (*Medicago sativa* L.) in a Mediterranean environment. *Journal of Agronomy and Crop Science* 195, 408-419.
- 68. Sotiropoulou, D.E. and Karamanos, A.J. (2010). Field studies of nitrogen application on growth and yield of Greek oregano (*Origanum vulgare* ssp. *hirtum* (Link) Ietswaart). *Industrial Crops and Products* 32, 450-457.
- 69. Bilalis, D.J. and Karamanos, A.J. (2010). Organic maize growth and mycorrhizal root colonization response to tillage and organic fertilization. *Journal of Sustainable Agriculture* 34, 836-849.
- 70. Economou, G., Panagopoulos, G., Tarantilis, P., Kalivas D., Kotoulas, V., Travlos, H. and Karamanos, A. (2011). Variability in essential oil content and composition of *Origanum hirtum L., Origanum onites L., Coridothymus capitatus* (L.) and *Satureja thymbra L.* populations from the Greek island of Ikaria. *Industrial Crops and Products* 33, 236-241.
- 71. Bresta, P., Nikolopoulos, D., Economou, G., Vahamidis, P., Lyra, D., Karamanos, A. & Karabourniotis, G. (2011). Modification of water entry (xylem vessels) and water exit (stomata) orchestrates long term drought acclimation of wheat leaves. *Plant and Soil* 347, 179-193.
- 72. A. Karamanos, M. Skourtos, D. Voloudakis, A. Kontogianni & A. Mahleras (2011). The impact of climate change on agriculture. In: *The Environmental, Economic and Social Impacts of Climate Change in Greece*, pp. 184-196, Climate Change Impacts Study Committee, Bank of Greece.
- 73. Karamanos, A.J. & Travlos, I.S. (2012). The water relations of the marama Bean (*Tylosema esculentum* (Burch) A. Schreib) and its drought tolerance traits. *Agronomy Journal* 104, 65-72.
- 74. Papastylianou, P.T. & Karamanos, A.J. (2012). Effect of osmopriming treatments with mannitol on cottonseed germination performance under suboptimal conditions. *Seed Science and Technology* 40, 248-258.
- 75. Karamanos, A.J., Economou, G., Papastavrou, A. Travlos, I.S. (2012). Screening of Greek wheat landraces for their yield responses under arid conditions. *International Journal of Plant Production* 6, 225-238.
- 76. Karamanos, A.J. & Sotiropoulou, D.E. (2013). Field studies of nitrogen application on Greek oregano (*Origanum vulgare* ssp. *hirtum* (Link) Ietswaart) essential oil during two cultivation seasons. *Industrial Crops and Products* 46, 246-252.

- 77. Karamanos, A.J. (2013). Ecophysiological parameters of drought resistance and their importance for crop productive potential. A case study on wheat indigenous landraces of Greece (in Greek) (invited lecture). In: (A. N. Polydoros, ed.) *Plant Breeding Responds to Contemporary Challenges: Sustainability, Environmental Stress, Biodiversity* (Proceedings of the 14th National Conference of the Hellenic Society of Plant Breeding and Genetics, Thessaloniki, 12-14 October 2012), pp. 7-21, Thessaloniki.
- 78. Voloudakis, D., Karamanos, A., Economou G., Vahamidis, P., Kotoulas, V., Kapsomenakis, J., Zerefos, C. Prediction of climate change impacts on cotton yields in Greece under eight climatic models using the AquaCrop simulation model (oral presentation in the 1st CIGR Inter-Regional Conference on Land and Water Challenges, Bari, 10-14/9/2013).
- 79. Vahamidis, P., Karamanos, A., Economou, G., Fasseas, C. (2014) A new scale for the assessment of wheat spike morphogenesis. *Annals of Applied Biology* 164, 220-231.
- 80. Economou, G., G. Panagopoulos, A. Karamanos, P. Tarantilis, D. Kalivas, V. Kotoulas (2014). An assessment of the behavior of carvacrol-rich wild *Lamiaceae* species from the eastern Aegean under cultivation in two different environments. *Industrial Crops and Products* 54, 62-69.
- 81. Kotoulas, V., Karamanos, A., Economou, G., Aggelides, S. (2014). Deficit irrigation effects on growth, water status, and yield of cotton cultivated in Central Greece (oral presentation in the 73d Plenary Meeting of the ICAC, Thessaloniki 2-7/11/2014), https://www.icac.org/mtgs/Plenary/73rd-Plenary/Agenda/OS6-Kotoulas.pdf.
- 82. Voloudakis, D., Karamanos, A., Economou G., Kalivas, D., Vahamidis, P., Kotoulas, V., Kapsomenakis, J., Zerefos, C. (2015). Prediction of climate change impacts on cotton yields in Greece under eight climatic models using the AquaCrop simulation model and discriminant function analysis. *Agricultural Water Management* 147, 116-128.
- 83. Karamanos, A.J., Economou, G., Sotirakoglou, K., Lyra, D., Papastavrou, A. (2017). Assessing Greek bread wheat landraces for their drought resistance strategies. *Crop Science* 57, 416-426.
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- 85. Voloudakis, D., Karamanos, A., Economou, G., Kapsomenakis, J. & Zerefos, C. (2018). A comparative estimate of climate change impacts on cotton and maize in Greece. *Journal of Water and Climate Change* 9, 643-656.

86. Vahamidis, P., Karamanos, A.J., Economou, G. (2019). Grain number determination in durum wheat as affected by drought stress: An analysis at spike and spikelet level. *Annals of Applied Biology* 1-19.

IV. ABSTRACTS IN CONFERENCES

- 1. Economou, G., Avgoulas, C. and Karamanos, A. (1992). Adaptation of populations of *Sorghum halepense* L. Pers. In different environmental conditions. *Abstracts of the 8th Conference of the Greek Weed Research Society*, p. 29 (in Greek).
- 2. Economou, G. and A.J. Karamanos (1997). Variability of Johnsongrass (*Sorghum halepense*) biotypes according to their sensitivity to the herbicides glyphosate and haloxyfop. *Abstracts of the 10th Conference of the Greek Weed Research Society*, p. 29 (in Greek).
- 3. Economou, G., M. Loucas & A. Karamanos (1999) Phenotypic plasticity and genetic similarity in five populations of *Sorghum halepense*. In: *Proceedings of 11th Symposium of European Weed Research Society*, Basel, Switzerland.
- 4. Economou, G., V. Kotoulas, V. Vlachos, I. Travlos and A. Karamanos (2007). The role of water resources management in weed control A case study of cotton crop in Greece. *International Conference: Novel and Sustainable Weed management in Arid and Semi-Arid Agro-Ecosystems*, Hebrew University of Jerusalem, 7-12 October 2007.
- 5. Travlos, I.S., G. Economou and A.J. Karamanos (2007). Potential effects of fire on seed germination and seedling emergence of Spanish broom (*Spartium junceum L.*) and Chaste tree (*Vitex agnus castus L.*). *Proceedings of 14th Symposium of the European Weed Research Society*, Hamar, Norway 2007.
- 6. Vahamides, P., Kotzamanides, S., Economou, G. and A. Karamanos (2008). Field performance of durum wheat cultivars under water stress. *Abstracts of the 12th Panhellenic Conference of the Greek Society of Plant Breeding* (in Greek).
- 7. Panagopoulos, G., Kotoulas, B., Economou, G., Tarantilis, P., Kalyvas, D. and A. Karamanos (2008). Spatial distribution and chemotypic analysis of the aromatic and medicinal flora of the Ikaria and Fournoi islands. *Abstracts of the 12th Panhellenic Conference of the Greek Society of Plant Breeding* (in Greek).
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- 9. Panagopoulos, G., Kotoulas, B., Economou, G., Tarantilis, P., Kalyvas, D. and A. Karamanos (2010). Adaptation of natural landraces of aromatic and medicinal plants containing carvacrole under non-intensive cultivation. *Abstracts of the 13th Panhellenic Conference of the Greek Society of Plant Breeding* p. 35 (in Greek).
- 10. Bresta, P., Nikolopoulos, P., Vahamides, P., Economou, G., Karamanos, A. and G. Karabourniotis (2010). Investigation of the effects of water stress on structural and functional characteristics of three durum wheat genotypes. *Abstracts of the 13th Panhellenic Conference of the Greek Society of Plant Breeding*, p. 36 (in Greek).
- 11. Vahamides, P. Kotzamanides, S., Economou, G. and Karamanos, A. (2010). Yield assessment of durum wheat cultivars and landraces under water stress gradients in the field. *Abstracts of the 13th Panhellenic Conference of the Greek Society of Plant Breeding*, p. 100 (in Greek).
- 12. Karamanos, A. and Voloudakis, D. (2017). Predictions and adaptation measures of climate change impacts on the principal field crops of Thessaly. *1st Panhellenic Conference: Climate Change. Local Governance and Thessaly Facing the Global Challenge* (Karditsa, 9-10 June 2017).

V. CHAPTERS IN COLLECTIVE BOOKS

1. Karamanos, A.J. (1981). The development of water deficits in plants. In: *Water Stress on Plants* (ed. G.M. Simpson), pp. 34-88, Praeger, N. York.

(invited)

2. Karamanos. A.J. (1981). Case examples of research progress in drought-stress physiology: *Vicia faba*. In: *Water Stress on Plants* (ed. G.M. Simpson), pp. 199-234, Praeger, New York.

- 3. Karamanos, A.J. (1999). The cultivation of sage. In: *Sage* (ed. S. Kintzios)., pp. 93-108, Harwood Academic Publishers, Switzerland.
- 4. Karamanos, A.J. (2003). Leaf water potential. In: *Encyclopedia of Water Science* (eds B. A. Stewart & T. A. Howell), pp. 579-587, Marcel Dekker Inc., N. York and Basel.

VI. MONOGRAPHS

Karamanos, A. J., Economou G., Livanos, G. & Papastavrou, A. (2008). Evaluating yield responses to water stress and drought resistance mechanisms of 20 local bread and durum wheat landraces, Athens, 239 pp. (Academy of Athens Award).

VII. BOOKS

Karamanos, A.J. (2010). *Texts on Education (Paideias keimena)*, Papazissis, Athens, 281 pp. (in Greek).

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VIII. EDITOR IN BOOKS / PROCEEDINGS

- 1. Karamanos, A.J. (1998). *The rural problem of Greece*. (Proceedings of Conference at the Agricultural University of Athens, 8-9/5/1997), Agricultural University of Athens, pp. 293.
- 2. Karamanos, A.J. (2002). Thoughts of the Patriarch on the Environment. (A Collection of the Ecological Speeches of the Ecumenic Patriarch Mr. Vartholomeos A'), Agricultural University of Athens, pp.184.
- 3. Karamanos, A.J. and Thanos, C.A. (2005). *Biodiversity and natural heritage in the Aegean (Proceedings of the International Conference "Theophrastus 2000"*), Athens, pp. 316.
- 4. Karamanos, A.J. (2020). Gleams of Creativity in Modern Greece. Life and Achievements of Ioannis Karamanos, Ed. Papazissis, Athens, pp. 144.

IX. UNIVERSITY TEXTBOOKS / HANDBOOKS

- 1. Karamanos, A.J. (1981). *Maize*, Athens, 179 pp.+ v (in Greek).
- 2. Karamanos, A.J. (1986). Temperate cereals, Athens, 319 pp.+ xiii (in Greek).
- 3. Karamanos, A.J. (1999). *Warm-weather cereals*, Papazissis, Athens, 384 pp (in Greek).
- 4. Karamanos, A.J., Avgoulas, C.E. and Vythopoulou, E. (1999). *Plant science* (Lyceum handbook), Athens, 541 pp. (in Greek).
- 5. Karamanos, A.J. (2012). *Principles of Field Crop Production*, Papazissis, Athens, 567 pp. (in Greek).

X. SUPERVISION OF DOCTORAL THESES

- Z. D. Zacharopoulos (1987). A contribution to the study of climatic and nutrient parameters on technological characteristics of two-rowed barley grains (*Hordeum sativum* Jess.)
- C. I. Podimatas (1994). A study on the effects of crop density on the water status, development and yield of faba beans (*Vicia faba L.*).
- A. Y. Papatheohari (1995). Studies on the responses to water shortage of three bread wheat cultivars (*Triticum aestivum* L. Em. Thell., cvs. Yecora, Generoso και Siete Cerros).

- G. Economou (1998). Biology and control of Greek biotypes of the weed *Sorghum halepense* (L.) Pers.
- P.– T. Papastylianou-Papasotiriou (2003). Studies on the effects of environmental factors on the development and yields of three lentil cultivars (*Lens culinaris* Med., cvs. Arachova, Demetra and Arcadia).
- E. Travlos (2005). Studies on the growth and adaptation to drought of the indigenous in south Africa legume marama bean (*Tylosema esculentum* (Burch) A. Schreib).
- D. E. Sotiropoulou (2008). A study on the development, yields and technological characteristics of Greek oregano (*Origanum heracleoticum* = *O. vulgare* ssp. h*irtum*) at different rates of nitrogen fertilization.
- A. Papastavrou (2009). Ecophysiological approach on the drought resistance of ten Greek bread wheat landraces (*Triticum aestivum* L. em Thell).
- V. Kotoulas (2010). A study of the effects of deficit irrigation on cotton (*Gossypium hirsutum* L. cv. Celia).
- P. Vahamidis (2013). A study of the effects of the different degree of water stress on the reproductive development of indigenous landraces and cultivars of durum wheat (*Triticum turgidum* ssp. *durum*).
- D. Voloudakis (2015). Predictions of the impacts of climate change on field crops in Greece.

He is also member of supervision boards and external examiner of doctoral theses in Greek and foreign universities.

XI. COORDINATOR OF RESEARCH PROGRAMMES

- 1. «Effects of factors of the aerial and soil environment on the development, nitrogen fixation and yield of lentil cultivars» (1985-1988, funded by the Greek Ministry of Agriculture).
- 2. «Water stress and productivity of faba bean cultivars» (1988-1990, funded by the Greek General Secretariat of Research and Technology)
- 3. «Water stress and seed production of lucerne» (1988-1989, funded by the Greek Ministry of Agriculture).
- 4. «Association of the temporal variability of crop yields with fluctuations in environmental parameters in Greece (1990, funded by the Greek General Secretariat of Research and Technology and the Agricultural Bank of Greece).
- 5. «Identification, Preservation, Adaptation and Cultivation of Selected Aromatic and Medicinal Plants Suitable for Marginal Lands of the Mediterranean Region» (1991-1996, PL 900422, No 8001-CT91-0104, CAMAR of the E.U.) (National coordinator).

- 6. «Demonstration of alternative crops for replacing non-marketable oriental tobacco cultivars in Greece» (1992-1995, 92 EL 06002 of the E.U.) (Coordinator in the Steering Committee of the project).
- 7. «The improvement of marama bean (*Tylosema esculentum* (Burch) A. Schreib), an underutilized grain and tuber producing legume for Southern Africa» (2001-2005, ICT–CT–2000–30010, INCO-DC of the E.U.) (National coordinator).
- 8. «Water saving in Mediterranean Agriculture (WASAMED)» (2003-2007, ICA3-CT2002-10013, INCO-MED of the E.U.) (National coordinator).
- 9. «Deficit irrigation for Mediterranean agricultural systems (DIMAS)» (2005-2008, INCO-CT-2004-509087 of the E.U.) (National coordinator).
- 10. "Climate change impacts on primary production" (2010-2011). Part of the interdisciplinary project "Economic, environmental, and social impacts of climate change in Greece" funded by the Bank of Greece.
- **11.** "Assessment of the effects of climate change on arable crops" (2009-2012) funded by the Agricultural Bank of Greece".

XII. REPORTS OF RESEARCH PROGRAMMES

- 1. Karamanos, A.J. (1991). Water stress and productivity of faba bean cultivars (71 pp.). Final report of the research programme 87 ED 116 of the General Secretariat of Research and Technology (in Greek).
- 2. Demonstration of alternative crops for replacing non-marketable oriental tobacco cultivars in Greece (1995) (161 pp. + Appendices), HELMICO S.A. Final report of the 92 EL 06002 E.U.-programme.
- 3. Karamanos, A.J. (1996). I. Comparative growth and yields of oregano (*Origanum heracleoticum* L.), sage (*Salvia fruticosa* L.), and savory (*Satureja thymbra* L.). II. Growth and yields of oregano, sage and savory at different rates of nitrogen application (26 pp.). Final report of the CAMAR research programme of the E.U. titled *Identification, Preservation, Adaptation and Cultivation of Selected Aromatic and Medicinal Plants Suitable for Marginal Lands of the Mediterranean Region.*
- 4. The improvement of marama bean (*Tylosema esculentum* (Burch) A. Schreib), an underutilized grain and tuber producing legume for Southern Africa (2005). Final report of the ICT-CT-2000-30010 E.U.-research programme.
- 5. "Climate change impacts on primary production". In: "Economic, environmental, and social impacts of climate change in Greece", pp. 204-216, Bank of Greece, Athens (in Greek).
- 6. "Preliminary assessment of the effects of the forest fires in August 2012 in the island of Chios" (2013) (Ministerial Expert Committee in collaboration with C. Zerefos, M. Arianoutsou, C. Kalambokidis, A. Xepapadeas, N. Margaris, A. Kontoyianni, A. Nastis, P. Gaganis, A. Kizos), 73 pp. (in Greek).

XIII. PROJECT STUDIES

1. Introduction of the fiber hemp and flax crops in Greece (with E. Emmanouilides and C. Avgoulas) (funded by the National Agricultural Research Foundation), Athens 2001 (in Greek).

- 2. Rational management of water resources in the Zagora region (with S. Aggelides, S. Rizos and P. Economou) (funded by Greek Agricultural Insurances Organization, ELGA), Athens 2003 (in Greek).
- 3. An assessment of the impacts of climate change on arable crops in Greece (funded by the Agricultural Bank of Greece), Athens 2012 (in Greek).

XIV. OTHER RESEARCH AND RELATED ACTIVITIES

- Research fellow in the Foundation of Biomedical Research of the Academy of Athens (2008).
- Member of the E.U.- funded research team for the common faba bean trials (1985-1990) and of the STRESSNET-network (1997-1998).
- Reviewer in international and Greek research journals.
- Member of the Editorial Board of the journal *Agricultural Research* of the National Agricultural Research Foundation.
- External examiner of doctoral theses in Greek and foreign universities.
- Evaluator of research proposals of the E.U. and of the General Secretariat of Research and Development.

XV. RECOGNITION

1. Citations

The publications have received more than 1100 citations in scientific journals and books, so far. Among the authors referring to my works are the following:

- + John L. Monteith, FRS, Em. Professor University of Nottingham, U.K.
- Paul G. Jarvis, FRS, Em. Professor University of Edinburgh, U.K.
- + Paul J. Kramer, Fellow of the National Academy of Sciences of the U.S.A., Em. Professor Duke University, N. Carolina, U.S.A.
- Janet Sprent, FRS of Edinburgh, Em. Professor University of Dundee, U.K.
- Melvin T. Tyree, Marcus Wallenberg Prize in Forestry, Em. Professor University of Alberta, Canada
- + Hugh A. Bunting, FIBiol, Em Professor University of Reading, U.K.
- Elias Fereres Castiel. Fellow of the Royal Academy of Engineering of Spain,
 f. Gen. Secretary of Research of Spain, Em. Professor University of Cordoba,
 Spain
- William J. Davies, Distinguished Professor University of Lancaster, U.K.
- John S. Boyer, Distinguished Professor University of Missouri, U.S.A.
- Neil C. Turner, Professor University of Western Australia (Perth), Australia
- Abraham Blum, Senior Scientist Em., The Volcani Centre, Israel
- Hanno Richter, Em. Professor Universität für Bodenkultur Wien, Austria

- Herbert Stützel, f. President European Society of Agronomy, Professor Leibniz Universität Hannover, Germany
- Ulrich Köpke, Professor Friedrich Wilhelms Universität Bonn, Germany
- David Lawlor, f. Senior Principal Research Scientist, Rothamsted Research, U.K., and others.

2. Invited author / lecturer (plenary lectures) / Chairperson in Meetings and Conferences

- NATO Advanced Study Institute, Izmir 1978 (plenary lecture) (publ. III.7)
- 21st Symposium of the British Ecological Society, Edinburgh 1979 (publ. III.9).
- International Symposium on Adaptations to Terrestrial Environment, Chalkidiki 1982 (publ. III.13).
- Seminar in the EU- Programme of Coordination of Research on Plant Protein Improvement, Nottingham 1983 (publ. III.15).
- Workshop in the EU-Programme of Coordination of Agricultural Research, Göttingen 1986 (publ. III.18).
- EU-Conference on the Drought Resistance on Plants, Amalfi 1986 (publ. III.19).
- Plant Metabolism Regulation, Bulgarian Academy of Sciences, Varna 1986 (plenary lecture) (publ. III.20).
- International Conference "Working Together on Education for Sustainable Development", Bordeaux 2008. Invited lecture "La mise en oeuvre de la stratégie de la CEE pour l'éducation au développement durable: vision et évolution".
- UNESCO World Conference on Education for Sustainable Development, Bonn 2009. Plenary lecture: "Education for Sustainable Development in the United Nations Commission for Europe Region".
- 3d International Symposium on Plant Protection and Plant Health in Europe, Berlin 2009 (publ. III.66).
- International Workshop "Plant Genetic Resources for Food and Agriculture", Academia Nazionale dei Lincei, Rome 2009 (delegate of the Academy of Athens). Lecture "Drought resistance potentialities of Greek bread and durum wheat landraces".
- Invited lecturer (opening lecture) in the 14th Panhellenic Conference of the Hellenic Plant Breeding Society (Thessaloniki, 10-12 October 2012) (publ. III. 78).
- Invited lecturer in the 17th Panhellenic Conference of the Hellenic Weed Society (Athens, 22-24 November 2012). Opening lecture: "Possible impacts of climate change on crop weed interactions".
- Invited lecturer in the research seminars of the Department of Biology of the University of Athens (19 June 2013). Lecture: "Ecophysiological parameters of drought resistance and their importance for the productive potential of crops".
- Invited lecturer in the 7th EPSO (European Plant Science Organization) Conference "Plants for a Greening Economy" (Porto Heli, 1-3 September 2013). Lecture: "Strategies developed by crop germplasm facing water shortage in relation to production potential under drought".
- Invited lecturer (Keynote lecture) in Joint Workshop of the European Weed Research Society (Chania, 29 September-3 October 2013). Lecture: "Water management and crop-weed interactions under a changing climate in the Mediterranean basin".

- Chairperson at the Open Session "Enhancing the Mechanisms of Input Interaction in Cotton production" in the Annual Conference of the International Council of the Cotton Associations (ICAC 73d Plenary Meeting, Thessaloniki 2-7 November 2014).
- Coordinator at the special Meeting of French Institute of Greece «Viticulture facing the Challenge of Climate Change» (Athens, 23 April 2015).
- Coordinator and speaker of the Task Force for Agroforestry and Food Chain in the framework of the Climate Change Initiative of Cyprus in the Eastern Mediterranean and Middle East Region (Webinar), 15 October 2020.

3. Other distinctions

- Fellow and Vice-President (2020-2022) of the Hellenic Agricultural Academy.
- Honorary Doctor of the Department of Agricultural Development (School of Agriculture and Forestry) of the Democritus University of Greece (27-5-2019).
- Honorary volume titled *Praise of Demeter. Honorary Tribute to Professor Andreas J. Karamanos*, with 16 contributions of academics and researchers from Greece and abroad (Editions Papazissis, Athens, 2018, pp. 418).
- Honorary Distinction by the Minister Education and Culture of Cyprus for his services to Education and Cyprus (15-12-2014)
- Honorary Distinction by the Foundation of Hellenic Culture for his distinct services to Greece (15-12-2014).
- Chairman of the Steering Committee and the Bureau of the United Nations Economic Council for Europe (UNECE) for the Education for Sustainable Development, unanimously elected twice among delegates from 56 countries and International Organizations (2005-2011).
- E. Benaki Award by the Academy of Athens (2008).
- The monograph (see section VI above) has been included in the Scientific and Academic Excellence Project of the Hellenic Ministry of Education (www.excellence.minedu.gov.gr)
- Nominated candidate of Greece by the Academician Pericles Theocaris for the International Bertebo Prize of the Swedish Agricultural Academy (1996).
- Gold Medal of the "Parnassos" Literary Society (2010).
- International Evaluator of the proposals for the National Science Awards Competition organized by the National Science Foundation of the Republic of Georgia.
- Chairman of the Advisory Council of the Benaki Phytopathological Institute (2004-2014).
- Member of the Governing Board of the Mariolopoulos-Kanaginis Foundation (2012).
- Honorary Fellow of the "Eleftherios k. Venizelos" Research Foundation (2006).
- Invited key speaker by the Prefecture of Chania for the 67th Anniversary of the Battle of Crete (May 2008).
- "I. Sareyiannis" Prize as the student with the highest mark in Phytopathology (1969).
- State Scholarship for outstanding performance throughout the undergraduate studies
- "Stathatos" Scholarship during the postgraduate studies.

XVII. MEMBER OF SCIENTIFIC SOCIETIES

- New York Academy of Sciences
- American Society of Agronomy.
- Crop Science Society of America.
- European Society of Agronomy.
- Association Européenne des Protéagineux.
- Federation of the European Society of Plant Physiologists.
- Geotechnical Chamber of Greece.
- Hellenic Botanical Society.
- Hellenic Language Heritage.
- "Parnassos" Literary Society.