

Elias Milios

Professor in <<Silviculture>>, Department of Forestry and Management of the Environment and Natural Resources /Democritus University of Thrace, Greece.

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Education

University Degree: Aristotle University of Thessaloniki, Department of Forestry and Natural Environment, Greece (July 1992) – five years of study.

Ph.D. in Silviculture: 2000 Aristotle University of Thessaloniki, Department of Forestry and Natural Environment, Greece.

Ph. D. Thesis: Dynamics and evaluation of the Rhodope mixed stands in the region of Xanthi (in Greek).

Research interests

Treatment – manipulation of forest ecosystems, natural regeneration, forest stand structure, dynamics of forest ecosystems, growth ecology, growth of forest trees, disturbances and forest ecosystems, facilitation – competition processes in forest ecosystems, restoration of degraded forests ecosystems.

Teaching in the Department of Forestry and Management of the Environment of the Democritus University of Thrace

Undergraduate

<<General Silviculture - Forest Ecology>> (mandatory course), <<Nurseries – Reforestations>> (mandatory course in co-teaching), <<Ecology>> (mandatory course in co-teaching), <<Climate change and Forest Ecosystems>> (mandatory course in co-teaching), <<Applied Silviculture>> (mandatory course), <<Nature Conservation and Landscape Architecture of Natural areas>>, (mandatory course in co-teaching), <<Urban Silviculture (Urban Forestry)>> (optional course in co-teaching).

Postgraduate

Teaching in courses of the Postgraduate Programme: <<Conservation and Restoration of Terrestrial Natural Ecosystems>>.

Scientific publications

International scientific journals

Milios E. (2000) Dynamics and development patterns of *Pinus sylvestris* L. - *Fagus sylvatica* L. stands in central Rhodope. *Silva Gandavensis*, 65: 154-172.

Milios E. (2000) Structure and development patterns analysis of the *Ostrya carpinifolia* pure and mixed stands in the western part of Nestos valley. *Silva Gandavensis*, no 65, 128-153.

Milios E., Smiris P. (2001) Structure and development patterns analysis of *Fagus sylvatica* s.l. - *Quercus dalechampii* Ten. stands in two areas in the Rhodope mountains of Xanthi region. *Silva Gandavensis*, 66: 1-15.

Milios E. (2004) The influence of stand development process on the height and volume growth of dominant *Fagus sylvatica* L. s.l. trees in the central Rhodope Mountains of north-eastern Greece. *Forestry* 77:17-26.

Smiris P., Pipinis E., Aslanidou M., Mavrokordopoulou O., Milios E., Kouridakis A. (2006) Germination study on *Arbutus unedo* L. (Ericaceae) and *Podocytisus caramanicus* Boiss. & Heldr. (Fabaceae). *Journal of Biological Research* 5: 85-91.

Milios E., Pipinis E., Petrou P., Akritidou S., Smiris P., Aslanidou M. (2007) Structure and regeneration patterns of the *Juniperus excelsa* Bieb. stands in the central part of the Nestos valley in the northeast of Greece, in the context of anthropogenic disturbances and nurse plant facilitation. *Ecological Research* 22: 713-723.

Milios E., Pipinis E., Smiris P., Aslanidou M. (2008) The influence of overhead shade on the shade mortality of *Abies xborisii* – regis Mattf. seedlings and saplings in the central Rhodope mountains of North-eastern Greece. *Plant Biosystems* 142: 219-227.

Milios E., Papalexandris C. (2008) The influence of shade and site productivity on the seedling density in low elevation stands of *Fagus sylvatica* L. s.l. located in north-eastern Greece. *Lesnicky casopis - Forestry Journal (special Issue)* 54 (1): 13-20.

Pipinis E., Milios E., Aslanidou M., Mavrokordopoulou O., Smiris P. (2009) The Effect of Stratification on Seed Germination of *Jasminus fruticans* L. (Oleaceae): A Contribution to a Better Insight on the Species Germination Ecology. *International Journal of Botany* 5(2): 181-185.

Milios E., Smiris P., Pipinis E., Petrou P. (2009) The growth ecology of *Juniperus excelsa* Bieb. trees in the central part of the Nestos valley (NE Greece) in the context of anthropogenic disturbances. *Journal of Biological Research – Thessaloniki* 11:83-94.

Adamopoulos S., Milios E., Doganos D., Bistinas I. (2009) Ring width, latewood proportion and dry density in stems of *Pinus brutia* Ten. *European Journal of Wood Products* 67: 471-477.

Diamantopoulou M., Milios E., Doganos, D., Bistinas I. (2009) Artificial Neural Network modeling for reforestation design through the dominant trees bole – volume estimation. *Natural Resource Modelling* 22(4): 511-543.

Diamantopoulou M., Milios E. (2010). Modeling total volume of dominant pine trees in reforestations via multivariate analysis and artificial neural network models. *Biosystems Engineering* 105(3): 306-315.

Papalexandris C., Milios E. (2010). Analysis of natural *Fagus sylvatica* L. s.l. regeneration in low elevation stands located in the central part of Evros region in the Northeast of Greece. Is sprout origin regeneration significant for the species maintenance? *Plant Biosystems* 44: 784-792.

Milios E., Bountis D. (2010) Analysis of shade conditions of *Pinus nigra* Arnord stands in the island of Thasos in Greece. *Forestry Ideas* 16(1): 75-82.

Stampoulidis A., Milios E. (2010) Height structure analysis of pure *Juniperus excelsa* stands in Prespa National Park in Greece. *Forestry Ideas* 16(2): 239-244.

Kitikidou K., Bountis D., Milios E. (2011) Site index models for calabrian pine (*Pinus brutia* Ten.) in Thasos island, Greece. *Ciencia Florestal* 21: 125-131.

Pipinis E., Milios E., Smiris P., Gioumousidis Ch. (2011) Effect of Acid Scarification and Cold Moist Stratification on the Germination of *Cercis siliquastrum* L. Seeds. *Turkish Journal of Agriculture and Forestry* 35: 259-264.

Milios E., Petrou P., Andreou E., Pipinis E. (2011) Is facilitation the dominant process in the regeneration of the *Juniperus excelsa* M. Bieb. stands in Cyprus? *Journal of Biological Research – Thessaloniki* 16: 296-303.

Pipinis E., Milios E., Smiris P. (2011) Effect of sulfuric acid scarification, cold moist stratification and gibberellic acid on germination of *Paliurus spina-christi* Mill. seeds. *Forestry Ideas* 17(1): 45-52.

Kitikidou K., Kaymakis M., Milios E. (2012) Site index curves for young *Populus tremula* stands on Athos Peninsula (northern Greece). *Turkish Journal of Agriculture and Forestry* 36: 55-63. doi:10.3906/tar-1006-1075

Petrou P., Milios E. (2012) Establishment and survival of *Pinus brutia* Ten. seedlings over the first growing season in abandoned fields in central Cyprus. *Plant Biosystems* 146: 522-533.

Kitikidou K., Petrou P., Milios E. (2012) Dominant height growth and site index curves for Calabrian pine (*Pinus brutia* Ten.) in central Cyprus. *Renewable & Sustainable Energy Reviews* 16: 1323-1329.

Adamopoulos S., Wimmer R., Milios E. (2012) Tracheid length – growth relationships of young *Pinus brutia* Ten. grown on reforestation sites. *IAWA Journal* 33(1): 39-49.

Pipinis E., Milios E., Kiamos N., Mavrokordopoulou O., Smiris P. (2012) Effects of stratification and pre-treatment with gibberellic acid on seed germination of two *Carpinus* species. *Seed Science. & Technology*. 40: 21-31.

Milios E., Pipinis E., Petrou P., Akritidou S., Kitikidou K., Smiris P. (2012) The Influence of Position and Site on the Height Growth of Young *Populus tremula* L. ramets in Low Elevation Formations in Northeastern Greece. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 40: 302-307.

Pipinis E., Milios E., Mavrokordopoulou O., Gkanatsiou C., Aslanidou M. and Smiris P. (2012) Effect of pretreatments on seed germination of *Prunus mahaleb* L. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 40(2): 183-189.

Stampoulidis A., Milios E., Kitikidou K. (2013) The regeneration of pure *Juniperus excelsa* Bieb. stands in Pespa National Park in Greece. *Šumarski list* 3-4: 163-172.

Kitikidou K., Milios E., Stampoulidis A., Papageorgiou A. (2013) Application of Meta-Analysis in Forestry Related Topics. Short Communication. *Forest Systems* 22(2): 578-581. <http://dx.doi.org/10.5424/fs/2013223-04766>

Kitikidou K., Milios E., Iliadis L., Kaymakis M. (2013) Pilot neural modeling of the inside bark tree diameter. A comparative study with robust regression. *Engineering Intelligent Systems*, 2, 1-11.

Milios E., Pipinis E., Kitikidou K., Batziou M., Chatzakis S., Akritidou S. (2014) Are sprouts the dominant form of regeneration in a lowland *Quercus pubescens*-*Quercus frainetto* remnant forest in Northeastern Greece? A regeneration analysis in the context of grazing. *New Forests* 45(2): 165-177. DOI 10.1007/s11056-013-9399-z

Pipinis E., Milios E., Mavrokordopoulou O., Lozos P. and Smiris P. (2014) Effect Dormancy-breaking requirements and germination for seeds of *Ostrya carpinifolia* Scop. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 42(1): 209-213.

Pipinis E., Milios E., Tomazos N. and Smiris P. (2014) Breaking dormancy and germination of *Cotinus coggygria* Scop. seeds by means of sulfuric acid scarification, cold stratification and gibberellic acid. *Silva Balcanica*, 15(1): 38-46.

Kitikidou K., Papageorgiou A., Milios E., Stampoulidis A. (2014) A bark thickness model for *Pinus halepensis* in Kassandra, Chalkidiki (Northern Greece). *Silva Balcanica* 15(1): 47-55.

Kitikidou K., Milios E., Lipiridis I. (2014) Tree volume model estimates and nearest neighbor analysis in the stands of Scots pine (*Pinus sylvestris* L.) in the central part of Rodope Mountain. *Šumarski list*, 138(11-12): 573-582.

Kitikidou K., Milios E., Tsirekis E., Pipinis E., Stampoulidis A. (2015). Site quality assessment of degraded *Quercus frainetto* stands in central Greece. *iForest-Biogeosciences and Forestry*, 8: 53-58. doi:10.3832/ifor1069-007

Dimou V., Milios E. (2015) Harvest-inflicted wounds on residual trees. *Wood Research* 60(6): 995-1004.

Pipinis E., Mavrokordopoulou O., Milios E., Diamanta A., Kotili I. and Smiris P. (2015) Effects of dormancy-breaking treatments on seed germination of *Koeleria paniculata* and *Mahonia aquifolium*. *Dendrobiology*, 74: 149-155.

Angelaki E., Kitikidou K., Milios E. (2015) Volume tables for Aleppo pine of Tatoi forest of Parnitha Attica (Greece). *Forestry Ideas*, 21(1): 17-27.

Pipinis E., Milios E., Georgiou M., Smiris P. (2015) Effects of gibberellic acid and cold stratification on seed germination of two *Sorbus* species. *Forestry Ideas*, 21(1), 107-114.

Petrou P., Kitikidou K., Milios E., Koletta J., Mavroyiakoumos A. (2015) Site index curves for the golden oak species (*Quercus alnifolia*) *BOSQUE* 36(3): 497-503. DOI: 10.4067/S0717-92002015000300016

Kitikidou K., Milios E., Katsogridakis S. (2016) Meta-analysis for the volume of *Pinus sylvestris* in Europe. *Revista Chapingo Serie Ciencias Forestales y del Ambiente*, 23(1): 23-34. doi:10.5154/r.rchscfa.2015.11.052

Pipinis E., Milios E., Kitikidou K. and Radoglou K. (2016) Treatments for seed germination improvement in *Prunus azorica*, *Frangula azorica* and *Morella faya*, three native species of Azores Islands. *Botany Letters* 163(3): 329-335. <http://dx.doi.org/10.1080/23818107.2016.1206035>

Milios E., Kitikidou K., Dalakouras, V., Pipinis E. (2016) Diameter at breast height estimated from stumps in *Quercus frainetto* in the region of Evros in northeastern Greece. *CERNE*, 22(3): 337-344. doi: 10.1590/01047760201622032193

Kitikidou K., Papageorgiou A., Milios E., Stampoulidis A. (2016) Preliminary individual tree growth model, site index model «mortality» model for aleppo pine (*Pinus halepensis* Mill.) in chalkidiki (northern greece) *Ciencia Florestal* 26(4): 1247-1257.

Batzio M., Milios E., Kitikidou K. (2017) Is diameter at the base of root collar a key characteristic of seedling sprouts in a *Quercus pubescens* - *Quercus frainetto* grazed forest in Northeastern Greece? A morphological analysis. *New Forests*, 48(1), 1-16. doi:10.1007/s11056-016-9552-6

Pipinis E., Stampoulidis A., Milios E., Kitikidou K. and Radoglou K. (2017) Effects of cold stratification and GA3 on germination of *Arbutus unedo* seeds of three provenances. *African Journal of Traditional, Complementary and Alternative medicines* 14(1): 318-323. doi:10.21010/ajtcam.v14i1.34

Bountis D., Milios E. (2017) Does crown class classification improve the initiation and development analysis of post-fire *Pinus brutia* stands? *CERNE*, 23(1): 61-68. DOI: 10.1590/01047760201723012260

Kitikidou K., Milios E., Palavouzi P. (2017) Development of an ensemble classifier with data from description sheets of the Dadia - Lefkimi - Soufli forest (north-eastern Greece). *Šumarski list*, (3-4): 131-137.

Pipinis E., Milios E., Aslanidou M., Mavrokordopoulou O., Efthymiou E. and Smiris P. (2017) Effects of sulfuric acid scarification, cold stratification and plant growth regulators on the germination of *Rhus coriaria* L. seeds. *Journal of Environmental Protection and Ecology*, 18(2): 544-552.

De Meo I., Agnelli AE., Graziani A., Kitikidou K., Lagomarsino A., Milios E., Radoglou K., Paletto A. (2017) Deadwood volume assessment in Calabrian pine (*Pinus brutia* Ten.) peri-urban forests: Comparison between two sampling methods. *Journal of Sustainable Forestry* 21 pages, DOI: 10.1080/10549811.2017.1345685

Milios E., Kitikidou K., Andreadou P. (2017). Sprouting characteristics of *Quercus pubescens* Willd. And *Quercus frainetto* Ten. trees after a wildfire: to cut or not to cut

the burned trees? *European Journal of Forest Research* 136:971–979. DOI 10.1007/s10342-017-1085-9

Kitikidou K., Milios, E., Radoglou K. (2017). Single-entry volume table for *Pinus brutia* in a planted peri-urban forest. *Annals of Silvicultural Research*, 41(2), 74-79. doi:<http://dx.doi.org/10.12899/asr-1437>

Milios E., Kitikidou, K., Pipinis, E., Stampoulidis, A., Akritidou, S., Smiris, P. (2018). Site quality assessment for *Pinus sylvestris* L. in mixed forests of the central part of "Rhodope Mountains" in northeastern Greece. *Annals of Silvicultural Research* 42(2): 79-84.

Milios E., Kitikidou K., Pipinis E., Stampoulidis A., Gotsi, M. (2018). Estimating tree bole height with Bayesian analysis. *Mathematical and Computational Forestry and Natural-Resource Sciences* 10(2): 58-67.

Pipinis E., Milios E., Mavrokordopoulou O., Smiris P. (2018). Effect of sowing date on seedling emergence of species with seeds enclosed in a stony endocarp. *Journal of Sustainable Forestry* 37(4): 375-388.

Garlemos A., Karanikolas A., Psilidou K., Pipinis, E., Stampoulidis, A., Kitikidou, K., Milios, E. (2019). Distance-dependent basal area models using stump height diameters for three tree species in Greece. *Austrian Journal of Forest Science*, 2019, 136(4): 373-386.

Milios E., Papalexandris C. (2019). Height growth of sprouts emerged from small stumps and seed origin saplings under shade, in low elevation *Fagus sylvatica* L. s.l. stands in Greece. *Dendrobiology* 82: 1-7.

Mazza G., Angelli A.E., Cantiani, P., Chiavetta, U., Doukalianou F., Kitikidou K., Milios E., Orfanoudakis M., Radoglou K., Lagomarsino A. (2019). Short term effects of thinning on soil CO₂, N₂O and CH₄ fluxes in Mediterranean forest ecosystems. *Science of the Total Environment* 651: 713-724.

Doukalianou F., Radoglou K., Agnelli A.E., Kitikidou K., Milios E., Orfanoudakis M., Lagomarsino A. (2019) Annual Greenhouse-Gas Emissions from Forest Soil of a Peri-Urban Conifer Forest in Greece under Different Thinning Intensities and Their Climate-Change Mitigation Potential. *Forest Science* 65: 387-400.

Milios E., Kitikidou K., Radoglou K. (2019). New Silvicultural Treatments for Conifer Peri-Urban Forests Having Broadleaves in the Understory - The First Application in the Peri-Urban of Xanthi in Northeastern Greece. *South-east European forestry* 10: 107-116.

Milios E., Kitikidou K., Chatzakis S., Batziou M. (2020). Structure analysis of a lowland grazed *quercus pubescens* - *Quercus Frainetto* forest in Northeastern Greece. *Forestry Ideas*, 2020, 26(1): 3-14.

Pipinis E., Stampoulidis A., Milios E., Kitikidou K., Akritidou S., Theodoridou, S., Radoglou, K. (2020). Effects of seed moisture content, stratification and sowing date

on the germination of *Corylus avellana* seeds. *Journal of Forestry Research* 31(3): 743-749.

Doukalianou F., Kitikidou K., Radoglou K., Milios E., Orfanoudakis M., Lagomarsino A. (2020) Carbon mitigation in the peri urban forest of Xanthi, Greece: a GIS mapping application. *Euro-Mediterranean Journal for Environmental Integration* 5(35) <https://doi.org/10.1007/s41207-020-00170-2>.

Zindros A., Radoglou K., Milios E., Kitikidou K. (2020). Tree line shift in the Olympus mountain (Greece) and climate change. *Forests* 11:(9), 985.

Greek scientific journals (Scientific Annals)

Milios E., Aslanidou M., Pipinis E., Ranis G., Berberidis TH. (2000). Dynamics of *Populus tremula* L. stands in central Rhodope in the region of Xanthi. *Sci Ann Depart Forestry and Natural Environ* 40(2): 648-663. (in Greek)

Milios E. (2001). Dynamics of *Abies borisii regis* Mattf. - *Fagus sylvatica* L. - *Pinus sylvestris* L. mixed stands in the central Rhodope mountains of Xanthi region. *Sci Ann Depart Forestry and Natural Environ* 41(1): 818-832. (in Greek)

Pipinis E., Aslanidou M., Milios E., Gioumousidis C., Karakosta C. (2005). Germination study on three legume species: *Calycotome villosa*, *Spartium junceum* and *Medicago arborea*. *Sci Ann Depart Forestry and Natural Environ* 43: 254-263. (in Greek)

Milios E., Akritidou S. (2008). Mycorrhizae - Forest ecosystems – Forest practice. *Scientific Annals of the Department of Forestry and Management of the Environment and Natural Resources* 1: 67-93. (in Greek)

Papalexandris C., Milios E. (2009). Structure analysis and description of shade – light conditions in low elevation *Fagus sylvatica* L. s.l. stands located in the central part of the Evros region in Northeast of Greece. *Scientific Annals of the Department of Forestry and Management of the Environment and Natural Resources, Orestiada, Greece* 2: 83-97. (in Greek)

Pipinis E., Milios E. (2009). Effects of pretreatments on seed germination of *Albizia julibrissin* Durazz. and *Robinia pseudoacacia* L.. *Scientific Annals of the Department of Forestry and Management of the Environment and Natural Resources, Orestiada, Greece* 2: 69-82. (in Greek)

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Diamantopoulou M., Milios E., Bistinas I., Doganos D., Bakaloudis D. (2006). Multivariate analysis for the interpretation of the behaviour of some quantitative variables of reforestation pine - trees. CD-Rom Proceedings of the International Conference: Protection and Restoration of the Environment VIII, Chania – Crete – Greece, July 3-7. 8 p.

Milios E., Petrou P., Pipinis E. (2006). Silvicultural treatments aiming at the preservation and increase of *Juniperus excelsa* Bieb. presence in stands located in the slopes in the central part of Nestos valley. Proceedings of the International Conference: Sustainable Management and Development of Mountainous and Island Areas, Naxos Greece, 29th September – 1st October 2006. Vol 1 Pp. 327-332.

Milios E., Pipinis E., Petrou P. (2006). The Influence of shade conditions on the young radius (ring width) growth of *Juniperus excelsa* Bieb. trees in the central part of Nestos valley in northeast Greece. Proceedings of the International Conference: Sustainable Management and Development of Mountainous and Island Areas, Naxos Greece, 29th September – 1st October 2006. Vol 2 Pp. 282-286.

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Adamopoulos S., Milios E. (2007). Brutian pine wood properties from young reforestations. Proceedings of the International Conference: Wood Science and Engineering in the Third Millennium 6th edition, Brasov, Romania, 20-22 June 2007. Pp. 11-18.

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Kitikidou K., Milios E., Iliadis L., Kaymakis M. (2012). Combination of M-estimators and neural network model to analyze inside/outside bark tree diameters. Proceedings of 8th International Federation for Information Processing (IFIP) International Conference on Artificial Intelligence Applications & Innovations (AIAI). Chalkidiki, Greece, 27-30/09/2012, 381, Pp. 11-18.

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Pipinis E., Milios E., Karaoglanidou E. and Smiris P. (2012). Effects of Gibberellic Acid, Kinetin and Cold Stratification on Seed Germination of *Pyrus pyraeaster* Burgsd. and *Malus dasycarpa* Borkh. Species. Proceedings of the International Conference “Forests in future - sustainable use, risks and Challenges”, Belgrade, Serbia, 04-06/10/2012, 361-369.

Greek scientific conferences

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Milios E., Akritidou S. (2002). Growth patterns of beech (*Fagus sylvatica* s.l.) trees under different growth conditions. In: Proceedings of the 10th conference of Hellenic forestry society, pp 676–684. [in Greek]

Milios E., Akritidou S. (2003). Sprout propagation – Biology – Ecology – Forest Practice. In: Proceedings of the 11th conference of Hellenic forestry society, pp 663-673. [in Greek]

Akritidou S., Milios E. (2004). Mycorrhizae types and their characteristics. In: Proceedings of the 1th Greek Environmental Conference pp 770-777. [in Greek]

Akritidou S., Milios E. (2005). Inoculation techniques of seedlings with mycorrhizae in nursery and in greenhouse. In: Proceedings of the 12th conference of Hellenic forestry society, pp 137-142. [in Greek]

Milios E., Karali D., Bonicopoulou Ch. (2005). Evaluation of street trees in the city of Volos. In: Proceedings of the 12th conference of Hellenic forestry society, pp 115-125. [in Greek]

Sokos Ch., Birtsas P., Milios E., Maslarinou O. (2012). Design of plantings for wildlife with emphasis in food supply. In: Proceedings of the 14th conference of Hellenic forestry society, pp 897-906. [in Greek]