

CURRICULUM VITAE



Personal Data:

Name: Mostafa Mohamed Kotb
Family Name: KHEDR
Place and date of birth: Giza, 1963.
Marital status: Married, 3 sons.
Present Position: Professor Researcher
Field of Research: Soil Sciences
Specialization Field: Pedology, soil survey and land evaluation, desertification, land degradation, sand dunes, soil mapping, application of remote sensing and GIS
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Division: Biological and Agricultural Division.
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Qualifications:

- 1- B.Sc. Agric. (Soils) Cairo Univ. 1985.
- 2- M.Sc. in Eremology (Desert Science) International Center for Eremology, Faculty of Agric., State Univ. of Ghent, Belgium (1993).
- 3- Ph.D. (Soil Sciences) Faculty of Agric., Ain Shams Univ., Cairo Egypt (2000).

Personal Occupation:

Professor at Soils and Water Use Dept., National Research Centre, Cairo.

Employment Data:

Time	Position	Place
26/02/1989	Researcher Assistant	Soils and Water Use Dept., National Research Centre (NRC), Cairo, Egypt
13/02/1994	Assistant Researcher	Soils and Water Use Dept., National Research Centre (NRC), Cairo, Egypt
31/07/2000	Researcher	Soils and Water Use Dept., National Research Centre (NRC), Cairo, Egypt
31/08/2005	Associate Professor	Soils and Water Use Dept., National Research Centre (NRC), Cairo, Egypt
31/08/2010	Professor	Soils and Water Use Dept., National Research Centre (NRC), Cairo, Egypt

The Field of Interest:

Pedology, Soil Survey, Land Evaluation, Soil Mapping, Desertification, Soil Erosion, Sand Dunes, Land Degradation, Application of Remote Sensing and GIS on Land Resources.

Training Courses:

- 1- Certificate of a course in "an introduction to BASIC Language", National Research Centre (NRC), Cairo, Egypt, 16 April -15 May (1994).
- 2- Certificate of a short course in "desertification", 17 - 29 Sept. (1995), National Research Centre (NRC), Cairo, Egypt.
- 3- Certificate of a course in "Introduction of GIS and ARCVIEW", 31 March – 4 April (2002), National Authority of Remote Sensing and Space Science, Cairo, Egypt.
- 4- Certificate of a short course in "A scientific writing", Sept. (2002), National Research Center, Cairo, Egypt.
- 5- Certificate of a course in "Application of Remote Sensing on Hydrology and Hydrogeology", 4 – 8 May 2008. National Authority of Remote Sensing and Space Science, Cairo, Egypt.
- 6- Certificate of a course in "Bibliography: How to right a Curriculum Vitae", 8 – 12 June 2008. Tanning Center, National Research Centre (NRC), Cairo, Egypt.
- 7- Certificate of a course in "Desertification and its control in developing countries", sponsored by the Chinese Academy of Sciences and organized by Cold and Arid Regions Environment and Engineering Research Institute (CAREERI), September 11th to 26th 2011, Lanzhou, China.
- 8- Certificate of a course in "GIS", 23 – 31 October 2011. Training & Capabilities Development Center, National Research Center, Cairo, Egypt.

Membership of Scientific Societies:

1. Egyptian Society of Soil Sciences
2. Egyptian Geographical Society
3. Egyptian Society for Remote Sensing
4. Egyptian Meteorology Specialists Association
5. Society for Developing Clean Farming Systems
6. Association of Egyptian American Scholars
7. Global Soil Partnership (GSP)

Scientific Visits:

1. State University of Gent, Belgium 1991 - 1993.
2. Cold and Arid Regions Environment and Engineering Research Institute (CAREERI), September 11th to 26th 2011, Lanzhou, China.
3. Amman – Jordan from 1 – 5 April / 2012. During participate in initial Meeting of (Global Soil Partnership Project).
4. Amman – Jordan from 13 – 17 January / 2013. During participate in Training Workshop on "Soil Legacy Database and World Reference Base (WRB)" and MENA Soil Partnership and MENA Soil Information System.
5. Islamabad, Pakistan from 15 – 19 December 2014. During participate in (1) International Workshop on Application of ICTs in Education, Healthcare and Agriculture, December 15 - 16, 2014, Islamabad, Pakistan. (2) 12th International conference on Frontiers of information technology December 17-19 2014, Islamabad, Pakistan.
6. Djerba Island, Tunisia during The International Conference "Integrated Land & Water Resources Management in the Dry Areas under Climate Change" ILDAC2015, to be held 11-14 May in Djerba Island, Tunisia

Contribution to Research Projects:

- 1- UNDP consultant for the project of "Social Rehabilitation and Economic Development at El Katta Prison Farm", National Research Centre, Cairo, Egypt, (1989).
- 2- Sand dune fixation in a small area (El-Rawafa Area), North Sinai. National Research Centre (NRC), Cairo, Egypt (1996-1997)
- 3- Assessment and Evaluation of Land and Water Resources of Um Sheihan Village Area in North Sinai, National Research Centre, Cairo, Egypt (1995 - 1998).
- 4- Study of Land Resources Capabilities on Halaib and El-Shalaten, Southeast of Egypt. National Research Centre (NRC), Cairo, Egypt, (1997-1999).
- 5- Water Efficiency in Natural Vegetation and Agricultural Areas by Remote Sensing in the Mediterranean Basin (WATERMED). National Authority of Remote Sensing and Space Science,

- Cairo, Egypt, (2000 - 2002).
- 6- Egyptian sulfur project. National Research Centre (NRC), Cairo, Egypt, (2002 +).
 - 7- Environmental Monitoring for Land and Water Resources Adjacent to Some Lakes in Egypt. National Research Centre (NRC), Cairo, Egypt, (2002 - 2004).
 - 8- Digital Soil Map of Egypt (Scale 1: 250,000), National Authority of Remote Sensing and Space Science, Cairo, Egypt, (2002).
 - 9- Spectroscopic investigation of pollutant elements: accumulated in soil and plants from fertilizers and pesticides. National Research Centre (NRC), Cairo, Egypt, (2002 - 2005).
 - 10- Evaluation of some promising grape species in the new reclaimed areas in Egypt. National Research Centre (NRC), Cairo, Egypt, (2002 -2005).
 - 11- Optimum land use of some selected areas in Egypt. National Authority of Remote Sensing and Space Science, Cairo, Egypt, (2004 - 2006).
 - 12- Assessment of Hydroenvironmental and control of areas affected by Hydrodynamic system of Nile Delta, Egypt. National Authority of Remote Sensing and Space Science, Cairo, Egypt, (2006 - 2007).
 - 13- Growing and improving some Bio-fuel crops in less fertile soils using waste water. National Research Centre (NRC), Cairo, Egypt, (2013 +).

Conferences:

1. All Conference of Egyptian Soc. Soil Sci. 1990-2003.
2. The Annual Meetings of Egyptian Geographical Society since 1994.
3. The Second International Conference on Earth Observation and Environmental Information, 11-14 November (2000), Cairo, Egypt.
4. The Sixth Conference "Meteorology and Sustainable Development" 2-4 April 2001, Cairo, Egypt.
5. The Seven Conference "Meteorology and Sustainable Development" April 2002, Cairo, Egypt.
6. The 3rd International Symposium on Sustainable Agro-Environmental Systems: New Technologies and Applications" 26 - 29 October (2002), Cairo, Egypt.
7. The 6th AARSE International conference on EARTH Observation and Geoinformation Science in Support of Africa's Development. 30th October – 2nd November (2006), Cairo, Egypt.
8. The workshop on Organic agriculture between theoretical and applicable. Hold on Fayoum 7-9 may 2006. Under Supervision The Society For Developing Clean Farming Systems, National Research Centre (NRC) and Fayoum Governorate, Egypt.
9. The 4th Scientific Conference of the Agricultural and Biological Research Division. Under the theme, "Safe Agriculture Products for Health and Environment by Using Recent Technologies". May 5 – 6, 2008 National Research Centre (NRC), Cairo, Egypt.
10. A Conference of the development of sustainable agriculture. 27 April 2009. Under Supervision Society For Developing Clean Farming Systems, National Research Centre (NRC) and Fayoum Governorate, Egypt.
11. The 2nd International Conference of Natural Resources in the Nile Basin Countries. On "Sustainable Development of Natural Resources in the Nile Basin Countries". 11-12 May 2009. Institute of African Research & Studies, Cairo University, Cairo Egypt.
12. The 4th Conference on Recent Technologies in Agriculture "Challenges of Agriculture Modernization", 3-5 November 2009. Faculty of Agriculture, Cairo University, Cairo, Egypt.
13. Revolution of Nanotechnology. Egyptian National Commission for UNESCO. 27-29 Nov. 2011. Cairo, Egypt
14. The First International Conference on Sinai for New Egypt (SNE). Cairo University, Conference Centre, Tharout St., Giza, January 16-18, 2012.
15. Participate in initial Meeting of Global Soil Partnership Project in Amman – Jordan from 1 – 5 April / 2012.
16. The 10th International Conference of Egyptian Soil Sciences Society (ESSS), 4th International Conference of on-Farm Irrigation Agroclimatology 4-8 Nov. 2012, America, Alexandria, Egypt.
17. Workshop in the Agricultural Development in Sinai, Egypt. Dec. 10 – 11, 2012 National Research Center, Cairo (NRC), Egypt.
18. Training Workshop on "Soil Legacy Database and World Reference Base (WRB)" and MENA Soil Partnership and MENA Soil Information System. Amman – Jordan from 13 – 17 January / 2013.
19. The International Workshop on Application of ICTs in Education, Healthcare and Agriculture, December 15 - 16, 2014, Islamabad, Pakistan.

20. The 12th International conference on Frontiers of information technology December 17-19 2014, Islamabad, Pakistan.
21. The International Conference "Integrated Land & Water Resources Management in the Dry Areas under Climate Change" ILDAC2015, to be held 11-14 May in Djerba Island, Tunisia.
22. The International Conference on "Agriculture and Environment for Sustainable Development". May 25-27, 2015. Holed in the National Research Centre (NRC), Dokki, Cairo, Egypt

Other skills:

- 1- Speak Arabic and English fluently.
- 2- I am good dealing with the following programs
 - Word processing using Word Perfect, Microsoft Office and some Microsoft work under windows.
 - Spreadsheet using the latest version of Lotus, Excel, Quattro Pro, Adobe Photoshop and Power Point
 - Statistical analysis using Microstat, Statgraphic and others.

Prizes:

- 1- Outstanding paper award for the paper entitled: **Study of sand dunes South El-Bardawil Lake, North Sinai, Egypt using aerial photographs.** 2nd International Conference on Earth Observation and Environmental Information, 11 - 14 November (2000), Cairo, Egypt.
- 2- Outstanding paper award for the paper entitled: **Optimum land use of some selected areas in Egypt.** Conference of Egyptian Soil Science Society, (2004), Cairo, Egypt.

List of Publications:

1. **Kotb, M.M.** (1993). Study of water repellency along a soil chronosequence in the coastal dunes of the Westhoek National Reserve (Province of West-Flanders, Belgium). M.Sc. thesis, Faculty of Agric., State Univ. of Ghent, Belgium.
2. **Kotb, M.M.** (2000). Sand dunes in North Sinai, their characteristics and effect on the agricultural development. Ph D. Theses, Faculty of Agric., Ain Shams Univ., Cairo, Egypt.
3. Hanna, F.S.; F.H. Rabie; S.I. Abdel Rahman and **M.M. Kotb**, (2000). Study of sand dunes migration hazard and their effect on the agricultural development in North Sinai, Egypt using remote sensing. 2nd International Conference on Earth Observation and Environmental Information, 11 – 14 November (2000), Cairo, Egypt.
4. Rabie, F.H.; S.I. Abdel Rahman; F.S., Hanna and **M.M. Kotb**, (2000). Study of sand dunes South El-Bardawil Lake, North Sinai, Egypt using aerial photographs. 2nd International Conference on Earth Observation and Environmental Information, 11 - 14 November (2000), Cairo, Egypt.
6. Ibrahim; M.S.; A. Abd El-galil and **M.M. Kotb**, (2001). Total and Available Fe, Mn, Zn and Cu in Some Soils of Sohag Governorate and their association with some soils Properties. Assiut Journal of Agricultural Sciences. Vol. 32, No. 5.
7. **Kotb, M.M.**; Ibrahim; M.S. and A. Abd El-galil, (2002). Pedological Studies and Assessment of Land Suitability for Crops of the Soils in Sohag Governorate, Egypt. The 3rd International Symposium on Sustainable Agro-Environmental Systems: New Technologies and Applications" 26 - 29 October (2002), Cairo, Egypt.
8. Abd El-Hady, A.A. and **M.M. Kotb**, (2003). Assessment of Land Suitability for Crops at North of Wadi El-Natron Area, Egypt. Mansoura University Journal of Agricultural Sciences.
9. Abou Yuossef, M.F.; **M.M. Kotb** and A.A., Ali, (2005). Assessment of Actual Soil Erosion Risk Using CORINE Model in North Western Coast of Egypt. Egyptian Journal of Applied Sciences Vol. 20, No. 5.
10. **Kotb, M.M.** (2005). Soil Quality Assessment of Kafr Al-Zayyat Area, in the Nile Delta, Egypt. Egyptian Journal of Applied Sciences Vol. 20, No. 5.
11. Elewa, H.H.; A.Z.A., Hassan and **M.M. Kotb**, (2006). Possibility of the agricultural expansion based on land and water resources potentialities at the southern part of Wadi Qena, Central Eastern Desert, Egypt. Egypt. J. Soil Sci. 46, No. 2 pp 153-174.
12. **Kotb, M.M.** and A.A. Abd El-Hady, (2006). Land Suitability Assessment of a New Reclaimed Area, South Giza, Eastern Desert, Egypt. Egypt. J. Soil Sci. 46, No. 4 pp 357-375.
13. El-Taweel, M.I. and **M.M. Kotb**, (2006). Land Resources in Wadi Hodein Area, Southeastern Desert of Egypt. The 2nd International Conference on Water Resources and Arid Environment (2006). From Sunday 26 to Wednesday 29 November 2006, 6 to 9 Dhu Al-Qa'dah 1427 H.

Organized by King Saud University represented by Prince Sultan Research Center for Environment, Water and Desert. Arabi, Saudi Arabia.

14. K.M. Darwish, **M.M. Kotb** and R.R. Ali (2007). Establishing spatial variability of soil salinity using Cokriging in Bahariya Oasis, Egypt. *Egypt. J. Soil Sci.* 47, No. 2 pp 99-116.
15. Abd El-Hady, A.A.; **M.M. Kotb** and Khater, H.H.; (2007). Soil Characteristics under Different Management of a New Reclaimed Area, East of the Nile Valley, Giza Governorate, Egypt. *Egypt. J. Soil Sci.* 47, No. 2 pp 155-180.
16. Ageeb G.W., **M.M. Kotb** and I.S. Rahim (2007). Soil mapping of Wadi Hodein Area, Southeastern Egypt Using Remote Sensing and GIS Techniques. *Australian Journal of Basic and Applied Sciences.* (AJBAS), 1(4): 793-800, 2007
17. **Kotb, M. M.**, I.S. Rahim and G.W. Ageeb, (2008). An approach to sustainable landuse and land suitability indices of Delta Wadi Hodiien, Southeast Egypt. *Egypt. J. Appl. Agric. Res. (NRC)*, Vol. 1, No.2, pp. 83-95 (2008).
18. **Kotb, M.M.** and Elewa, H.H (2009). The Global Climate Changes and Humane Practice Effects on the Land-use & Land-cover, Northern Nile Delta, Egypt. The Second International Conference on the Sustainable Development of Natural Resources in the Nile Basin, 11-12 May, 2009 at Institute of African Research & Studies, Cairo University, Cairo, Egypt.
19. **Kotb, M.M.** and Elewa, H.H (2009). Effect of global climate changes on the coastal line of the Nile Delta: a case study of the Nile Mouths. Proceedings of the 4th Conference on Recent Technologies in Agriculture "Challenges of Agriculture Modernization", 3-5 November 2009. Faculty of Agriculture, Cairo University, Cairo, Egypt.
20. Rahim I.S., G. W. Ageeb, and **M. M. Kotb**, (2010). Arsenic in soil and its relationship with paddy soil environment in Egypt. *Egypt. J. Soil Sci.*, (In press).
21. Ali, R.R. and **M.M. Kotb** (2010). Use of Satellite Data and GIS for Soil Mapping and Capability Assessment. *Nature and Science* 2010;8(7):104-115.
22. Ali, R.R.; **M.M. Kotb** and A.A. Abdel Hady (2010). Using Satellite Data and GIS for Establishing a Soil Database: A Case Study Middle Egypt. *Nature and Science* 2010;8(7):116-124.
23. Ibrahim, M.S.; M.H.M. Ali & **M.M. Kotb** (2010) Soil Properties as Affected by Different Land Management Practices in the Sohag Region, South Egypt. *New York Science Journal*, 2010;3(7): 8-19.
24. **Kotb, M.M.**; R.R. Ali and E.F. Abd El-Salam (2012). Using Remote Sensing and GIS Techniques for Monitoring Wetlands of Some Areas Adjacent to Manzala Lake, Egypt. The 10th International Conference of Egyptian Soil Sciences Society (ESSS), 4th International Conference of on-Farm Irrigation Agroclimatology 4-8 Nov. 2012, America, Alexandria, Egypt.
25. Ali, R.R. and **Kotb, M.M** (2012). Use of remote sensing for Mapping of the land use/cover of North Sinai, Egypt. Workshop in the Agricultural Development in Sinai, Egypt. Dec. 10 – 11, 2012 National Research Center, Cairo (NRC), Egypt.
26. **Kotb, M.M.** (2013). Country Report of Egypt. In; Yigini, Y., Panagos, P. and Montanarella, L. (2013). Soil Resources of Mediterranean and Caucasus Countries; Extension of the European Soil Database. Report EUR 25988 EN. European Commission, Joint Research Centre, Institute for Environment and Sustainability.
27. Wahab, M.A., Ageeb, G.W., **Kotb, M.M.** and Essa, E.F. (2014) Landform Classification and Soil Distribution of Sidi Barrani Area, North-Western Coast of Egypt. *Middle East Journal of Agriculture Research*, 3(3): 670-676, 2014.
28. Wahab, M.A., Ageeb, G.W., **Kotb, M.M.** and Essa, E.F. (2014) Sensitivity to Desertification at Sidi Barrani Area, the North-Western Coast of Egypt. *Middle East Journal of Applied Sciences*, 4(3): 733-739, 2014.
29. Wahab, M.A., Ageeb, G.W., **Kotb, M.M.** and Essa, E.F. (2014) Vegetation cover and erosion resistance in Mediterranean ecosystems. *Middle East Journal of Agriculture Research*, 3(4):859-868.2014.
30. **Kotb M.M.** Ali, R.R. and El-Semary M.A.M. (2015). Using Remote Sensing and GIS Techniques for Monitoring of the Water Bodies and their Effect on the Land Resources in Siwa Oasis, Egypt. *Global Journal of Current Research* Vol. 3 No.2. 2015. Pp.53-60

Presentations:

1. Some presentation about sand dunes in Egypt, (2003-2007) Soils and Water Use Dept., National Research Centre (NRC).
2. A basic information about sand dunes in Egypt, Soils Dept., Faculty of Agric., Ain Shams Univ., Cairo Egypt (2008).
3. The effect of human on sand dunes environment in Egypt, Soils Dept., Faculty of Agric., Ain Shams Univ., Cairo Egypt (2009).
4. The Global Climate Changes and Humane Practice Effects on the Land-use & Land-cover, Northern Nile Delta, Egypt. The Second International Conference on the Sustainable Development of Natural Resources in the Nile Basin, 11-12 May, 2009 at Institute of African Research & Studies, Cairo University, Cairo, Egypt.
5. Effect of global climate changes on the coastal line of the Nile Delta: a case study of the Nile Mouths. Proceedings of the 4th Conference on Recent Technologies in Agriculture "Challenges of Agriculture Modernization", 3-5 November 2009. Faculty of Agriculture, Cairo University, Cairo, Egypt.
6. Soil forming factors in a training course for students from Nile Basin Countries, (2009). Tanning Center, National Research Center, Cairo, Egypt.
7. Presentation in land resources, soil formation, land evaluation and management, for some African students in training courses (2007-2010). Tanning Center, National Research Centre (NRC), Cairo, Egypt.
8. Sand dunes management in Egypt, through the training course on Desertification and its control in developing countries, September 11th to 26th 2011, Cold and Arid Regions Environment and Engineering Research Institute (CAREERI), Lanzhou, China.
9. The history of soil mapping of Egypt during the last century. During participate in initial meeting of (Global Soil Partnership Project) in Amman – Jordan from 1 – 5 April / 2012.
10. Digital soil mapping of some new reclaimed areas for Agricultural uses in Egypt. During The International Workshop on Application of ICTs in Education, Healthcare and Agriculture, December 15 - 16, 2014, Islamabad, Pakistan.
11. Presentation entitled (Use of Remote Sensing and GIS for Land Degradation Assessment of Qarun Lake Coastal Area, El-Fayoum, Egypt). During participating of the International Conference "Integrated Land & Water Resources Management in the Dry Areas under Climate Change" ILDAC2015, to be held 11-14 May in Djerba Island, Tunisia.
12. Digital Map of the Calcareous Soils in Egypt. During participating of the International Conference on "Agriculture and Environment for Sustainable Development". May 25-27, 2015. Holed in the National Research Centre (NRC), Dokki, Cairo, Egypt

Editor in scientific Journals:

- 1- Global Research Journal of Agricultural and Biological Sciences.
- 2- International Journal of Agricultural Economics and Extension.
- 3- International Journals of Basic and Applied Science_ Centre for Rural Development, Ecology and Environment Protection (CRDEEP).

Reviewed Journal Articles:

I had been reviewed some manuscripts for some international journals as the follows:

1. Academia Journal of Environmental Sciences
2. African Journal of Agricultural Research
3. Agricultural Research and Reviews
4. Archives of Agronomy and Soil Science
5. International Journal of Agricultural Sciences (IJAS)
6. International Journal of Physical Sciences
7. Journal of Agricultural Science and Technology