

# Curriculum Vitae

## Personal information

First name / Surname Luca Ongaro  
Address  
Mobile  
E-mail ongaro@iao.florence.it  
Nationality Italian  
Date of birth 14.09.1957



## Work experience

Dates 01.03.1985 - present  
Occupation or position held Technical Director  
Name and address of employer Ministry of Foreign Affairs  
*Istituto Agronomico per l'Oltremare(IAO)*  
Via A. Cocchi, 4  
50131 Florence, Italy  
Type of business or sector International Development Cooperation in the Rural Sector  
Main activities and responsibilities

- I designed and setup the Remote Sensing and GIS Laboratories;
- I collaborated to the creation of the Natural Resources Working Group;
- I have been responsible for the technical and scientific organization and management of seventeen editions of the Post-graduate Course (Professional Master Degree) "Geomatics and Natural Resources Evaluation", in collaboration with the University of Florence, Faculty of Agriculture; during these Courses, every year I coordinated complex case studies abroad (GIS design, setup and utilisation), including field surveys;
- I have been the tutor of several Italian and foreign research fellows, as well as of many students for their M.Sc. and Ph.D. thesis;
- I took part in the process of identification, formulation and evaluation of many development initiatives, both bi-lateral and multi-lateral;
- in the framework of the bi-lateral cooperation project "*Sviluppo rurale integrato e lotta alla desertificazione nel Governatorato di Kebili (Sud Tunisia)*" (Integrated rural development and desertification control in Southern Tunisia), I was in charge of the natural resources inventory, and I also participated in the realization of the regional agro-meteorological network;
- in the framework of the bi-lateral cooperation project "*Creazione di una unità agro-pastorale a Djibouti*" (Creation of a rangeland research unit in Djibouti), I prepared some research programs concerning the local flora and vegetation, and the natural resources inventory;
- in the framework of the bi-lateral cooperation project "*Ricerca applicata grano duro e lenticchia nella regione di Tiaret (Algeria)*" (Applied research project on durum wheat and lentil in Algeria), I took part in the program for natural resources inventory and land suitability evaluation for durum wheat and lentil, using GIS and Remote Sensing;
- in the framework of the bi-lateral cooperation project "*Sviluppo della pioppicoltura in Anatolia, Turchia*" (Poplar plantation development in Anatolia, Turkey) I have been in charge of a Remote Sensing and GIS lab installation in Ankara, as well as of the training of the local staff;
- I have been responsible for the IAO operational unit of the EU-funded project COALTA2, concerning the evaluation of alternative crops as replacement of tobacco;
- I carried out several collaborations with the FAO's Remote Sensing Centre and other FAO's departments, performing satellite digital image processing and/or interpretation in different projects:
  - IRA/86/003 (Forest mapping in Northern Iran)
  - ECLO/INT/004/BEL (Desert locust monitoring in Niger)
  - BHU/85/016 (Remote sensing applications in Bhutan)
  - NECP/LEB/001/SAU (Land use map of Lebanon)

- DDC/IFAD/MYANMAR (Poppy areas identification in the 'golden triangle')
- FRA2000 (Global Forest Resources Assessment)
- AFRICOVER (Land Cover Mapping of East Africa)
- GCP/TUN/028/ITA (Soil and Water Conservation in Tunisia)
- other projects in which I took part:
  - Management plan of the Regional Park "Lomas de Arena", Santa Cruz, Bolivia, funded by the Patiño Foundation (1998-1999);
  - Regional Integrated Information System for the IGAD Region (RIIS), funded by the Italian Development Cooperation and USAID (1999-2000);
  - "Carboafrika", funded by EU, 6<sup>th</sup> Framework Programme (2006-2010);
  - Programme Parc W / ECOPAS (Niger, Burkina Faso, Benin), funded by EU, FED (2007-2008);
  - Decentralized Development Cooperation Secretariat of Regione Toscana ("CDT"), funded by Regione Toscana (2002-2008);
- I have been involved in several research activities, concerning GIS and Remote Sensing applications in developing countries;
- I took part in many Conferences, Congresses and Workshops both in Italy and abroad;
- I have been several times on mission in Africa (Tunisia, Algeria, Djibouti, Morocco, Kenya, Eritrea, Ethiopia, Senegal), South America (Bolivia, Argentina), Asia (Turkey, China) and Europe;
- from 1990 to 1993 I have been member of an EU Working Group (DG XII) on "Remote sensing research and technology transfer in Developing Countries";
- I am the designer and manager of all the IAO's IT structures and activities, including IAO's web servers and mail servers. My role also included website structure and content design and management, including backend databases;
- from 1997 to 2006 I have been the Italian National Node for the EARD-InfoSys, the European-wide multi-level information network of the EIARD (European Initiative for Agricultural Research for Development). I have also been involved in the activities of the European Forum for Agricultural Research for Development (EFARD) and the Global Forum for Agricultural Research (GFAR);
- since 2003 I have been involved in the activities of the FAO/UNEP/Italy Global Land Cover Network (GLCN) program, specially dealing with the LCCS Land Cover Classification System development and website creation and maintenance;
- I am an active member of the Italian Remote Sensing Society (AIT) since 1987. From 1999 to 2002, and from 2006 to 2009 I have been a member (elected) of the executive board of AIT;
- since 2011 I am the Editor-in-Chief of the "Journal of Agriculture and Environment for International Development", edited by the IAO.

Dates	01.01.2012 – today
Occupation or position held	External collaborator
Name and address of employer	Gismap Borgo Albizi, 14 50123 Florence, Italy
Type of business or sector	International Co-operation
Main activities and responsibilities	<ul style="list-style-type: none"> <li>▪ Teaching in the Training Course on "Production of Suitability Maps for Strategic Crops in Iraq (AEZ)", from 7/2/2012 to 6/3/2012, for a group of technicians of the Iraqi Ministry of Agriculture;</li> <li>▪ co-ordination of the design and implementation activities of a system for Land Suitability Evaluation in Iraq (36 main industrial and food crops), by the application of innovative techniques to the FAO GAEZ Framework (Global Agro-Ecological Zoning);</li> <li>▪ advice and guidance on various projects of training and technical assistance, with special focus to the creation and setup of Geographical Information System.</li> </ul>
Dates	Academic years 2011/2012 and 2012/2013
Occupation or position held	Adjunct Professor
Name and address of employer	<i>Università di Firenze – Facoltà di Lettere e Filosofia</i> <i>Dipartimento di Studi Storici e Geografici</i> Via San Gallo 10

Type of business or sector	50129 Florence, Italy Academic Education
Main activities and responsibilities	▪ Professor of “Remote Sensing Applications” in the Professional Master Course “ <i>Strumenti informativi geografici per il monitoraggio e la gestione del territorio</i> ” (“GIS for Land Monitoring and Management”)
Dates	Academic years from 2007/2008 to 2013/2014
Occupation or position held	Adjunct Professor
Name and address of employer	<i>Università di Firenze – Scuola di Agraria (formerly Facoltà di Agraria)</i> <i>Various Departments</i> Piazzale delle Cascine, 18 50144 Firenze
Type of business or sector	Academic Education
Main activities and responsibilities	▪ Professor of “Elements of Information and Communication Technology” and “Photointerpretation” in the Professional Master Course “Geomatics and Natural Resources Evaluation”, in English, during the last six editions of the Master Course
Dates	Academic Year 2014/2015
Occupation or position held	Adjunct Professor
Name and address of employer	<i>Università di Firenze – Scuola di Agraria</i> <i>DISPAA</i> Piazzale delle Cascine, 18 50144 Firenze
Type of business or sector	Academic Education
Main activities and responsibilities	▪ Professor of “Agricultural Geomatics” (9 ECTS) in the Master’s Degree Course “Natural Resources Management for Tropical Rural Development”, in English.

### Education and training

Dates	1985
Title of qualification awarded	Post-graduate Course “ <i>Aerofotogrammetria e fotointerpretazione per la gestione delle risorse territoriali</i> ” (Aerophotogrammetry and Photointerpretation for Land Resources Management).
Name and type of organisation providing education and training	Ministry of Foreign Affairs, <i>Istituto Agronomico per l’Oltremare</i> , Florence, Italy.
Dates	1976-1981
Title of qualification awarded	<i>Laurea in Scienze Agrarie</i> (M.Sc. in Agricultural Science)
Name and type of organisation providing education and training	Faculty of Agriculture, University of Florence, Italy

### Personal skills and competences

Mother tongue Italian

Other languages

Self-assessment

European level

**English**

**French**

**Spanish**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user

Social skills and competences I acquired intercultural skills while travelling, teaching and training to many people from different

Organisational skills and competences	<p>countries and different education, religion and cultural background. I have a long experience of group work from many different field activities and project teams, at national and international level.</p> <p>I have a strong capacity of organization, as demonstrated by the long series of Master Courses I leaded since the late 80's. I also have a wide knowledge about internet-based communication and networking.</p>
Computer skills and competences	<ul style="list-style-type: none"> <li>▪ Very good knowledge of MS/Windows (all flavors) and GNU/Linux operating systems; in the past also MS-DOS, VMS and OpenVMS.</li> <li>▪ Very good knowledge of LAN networking under TCP/IP, and management of heterogeneous hardware/software multi-user systems.</li> <li>▪ Very good knowledge of Internet and related technologies, such as web and mail servers, proxy, firewall. Knowledge of TCP/IP routing over WANs.</li> <li>▪ Good knowledge of open source server software: Apache, MySQL, PostgreSQL, Qmail, Squid and many others.</li> <li>▪ Very good knowledge of BASIC (various versions). Good knowledge of FORTRAN and Python.</li> <li>▪ Good knowledge of HTML and PHP. Knowledge of XML and Java. Good knowledge of some common CMS software: Wordpress, Drupal, Typo3, and others</li> <li>▪ Excellent knowledge of the main office automation packages, database, word-processing, desktop publishing, Internet browsing and e-mailing.</li> <li>▪ Excellent knowledge of image processing, digital mapping and GIS. Software used: Gemstone35, PCI EASI/Pace, ENVI, Geosys, Mapinfo, Idrisi and many others. Good knowledge of ArcGIS and ArcView 3.x, as well as of the Avenue scripting language. Good knowledge of web-based GIS applications.</li> <li>▪ Good knowledge of open source GIS software: Quantum GIS, GVSig, Mapwindows.</li> </ul>
Other skills and competences	<p>I run my family farm by myself. Activities include organic farming (mostly vegetables) and animal husbandry (sheep, goats, pigs and poultry).</p>
<b>Additional Information</b>	<p><b>Scientific papers</b></p> <ul style="list-style-type: none"> <li>▪ L. Ongaro, (ed.) - "Studio integrato delle risorse naturali del Nefzaoua (Tunisia): carta delle unità di terre dell'area Kebili-Douz". Riv. Agric. Trop. e Subtrop.; LXXX, 2. 1986.</li> <li>▪ Belli, L. Ongaro, P. Sarfatti - "Effetti degli stress idrici sulla germinazione di due graminacee tropicali da pascolo: <i>Andropogon gayanus</i> Kunth (Gamba grass) e <i>Cenchrus ciliaris</i> L. (buffel grass)". Riv. Agric. Trop. e Subtrop.; LXXX, 3. 1986.</li> <li>▪ P. Sarfatti, L. Ongaro - "The continental oases of southern Tunisia and the agrometeorological network of the Nefzaoua Project". 'Application of meteorology to agroforestry systems planning and management', 9-13 febbraio 1987, ICRAF, Nairobi (Kenya).</li> <li>▪ C.M. Marini, L. Ongaro - "Cartografia da immagini da satellite in Paesi in Via di Sviluppo". XXIV Convegno nazionale Associazione Italiana di Cartografia, 25-28 maggio 1988, L'Aquila, Italy.</li> <li>▪ C.M. Marini, L. Ongaro - "La carta delle oasi del Nefzaoua (Tunisia): un esempio di analisi digitale di immagini da satellite". Riv. Agric. Trop. e Subtrop.; LXXXI, 1-2. 1988.</li> <li>▪ V. Alessandro, M.C. Marchetti, C.M. Marini, L. Ongaro, P. Sarfatti - "Cartografia da dati telerilevati: alcuni esempi in Tunisia". Atti del II Convegno Nazionale AIT, 9-11 novembre 1988, Bolzano, Italy</li> <li>▪ C.M. Marini, L. Ongaro - "Thematic cartography through digital satellite imagery at the Istituto Agronomico per l'Oltremare (IAO)". 14th World Conference of the International Cartographic Association, 17-24 agosto 1989, Budapest, Hungary.</li> <li>▪ Di Gregorio, L. Ongaro, P. Sarfatti - "Analisi multitemporale di dati telerilevati per il monitoraggio della copertura forestale nel Bhutan sud-occidentale". Atti del IV Convegno Nazionale AIT, 27-30 novembre 1990, Pisa, Italy</li> <li>▪ C.M. Marini, L. Ongaro - "Thematic cartography through digital satellite imagery combining SPOT P with Landsat 5 TM multispectral data". Riv. Agric. Trop. e Subtrop.; LXXXV, 1. 1991.</li> <li>▪ A.M.I. Barkhadle, L. Ongaro - "Chemical composition and nutritive value of some browse species in Somalia". Riv. Agric. Subtrop. e Trop.; LXXXVI, 4. 1992.</li> <li>▪ L. Ongaro - "Il XVI° Corso post-laurea 'Telerilevamento e Valutazione delle Risorse Naturali'". Atti del VI° Convegno Nazionale AIT, Roma, 1-4 Marzo 1994, Italy</li> <li>▪ A.M.I. Barkhadle, L. Ongaro, S. Pignatti - "Pastoralism and plant cover in the lower Shabelle Region, Southern Somalia". Landscape Ecology, 9 (2), 79-88, 1994.</li> <li>▪ L. Ongaro - " Il Corso di Telerilevamento e Valutazione delle Risorse Naturali dell'Istituto Agronomico per</li> </ul>

l'Oltremare". Rivista italiana di Telerilevamento, 5, 9-12, 1995.

- L. Ongaro - "Studio e valutazione del pascolo nella Tunisia meridionale". Riv. Agric. Subtrop. e Trop.; LXXXIX, 2, 1995.
- C. Calzolari, L. Ongaro, P. Sarfatti, P. Magazzini - "Use of Landsat TM and DEM data in reconnaissance scale soil surveys". Int. Symposium 'Rs and GIS as tools for monitoring soils in the environment', Ouagadougou, Burkina Faso, 6-10 February 1995.
- L. Ongaro, P. Sarfatti - "Utilizzazione di dati telerilevati e GIS per la produzione della carta delle unità di terre del bacino dell'Alo Mareb (Eritrea)". Atti del VII° Convegno Nazionale AIT, 17-20 ottobre 1995, Chieri (TO), Italy.
- M.L. Viti, G. Delli, L. Ongaro - "Stima della biomassa legnosa dell'alto bacino del Mareb (Eritrea) utilizzando dati SPOT". Atti del VII° Convegno Nazionale AIT, 17-20 ottobre 1995, Chieri (TO), Italy.
- L. Ongaro - "Il 18mo Corso Remote Sensing and Natural Resources Evaluation". Atti della I° Conferenza nazionale ASITA, 30 settembre 1997, Parma, Italy.
- L. Ongaro - "The 18th Post-Graduate Course 'Remote Sensing and Natural Resources Evaluation'". Proceedings of the ISPRS workshop 'International Cooperation and Technology Transfer', Bahia Blanca, Argentina, 27-31 October 1997.
- P. Sarfatti, G. Delli, L. Ongaro, D. Mollicone - "Using Landsat TM Data for Poplar Cultivated Areas Estimation in Konya-Eregli Region (Anatolia, Turkey)". Symposium on "Operational Remote Sensing for Sustainable Development", 11-14 May 1998, Enschede, The Netherlands.
- P. Sarfatti, L. Ongaro, D. Mollicone - "Aspetti ecologico-ambientali delle aree forestali degli ambienti aridi e semiaridi". Forum "Deforestazione e sviluppo sostenibile nei paesi tropicali e sub-tropicali", 26 maggio 1998, Firenze, Italy.
- L. Ongaro - "Land Unit mapping for Land Evaluation". Relazioni e Monografie Agrarie Tropicali e Subtropicali n° 115. Istituto Agronomico per l'Oltremare, Firenze, 1998.
- G. Rodolfi, Vigiak O., L. Ongaro - "An application of De Ploey's Es model for a quick appraisal of the gully erosion activity in a small watershed in the eritrean highlands (Halhale, Debarwa)". Geogr. Fis. Dinam. Quat. 21 1998, 255-266.
- Pardini A., Lombardi P., Longhi F., Ongaro L. - "Animal stocking rate in tropical and subtropical rangelands - I. Pastoral value of the forage species". J. of Agr. and Env. for Int. Development, 94, 4, 237-256, 2000.
- L. Ongaro, V. Alessandro, G. Ramat - "La 21ma edizione del Corso 'Remote Sensing and Natural Resources Evaluation'. Atti della 5° Conferenza Nazionale ASITA, Rimini, Italy, 9-12 ottobre 2001.
- L. Ongaro, G. Ramat - "Analysis of the cork forest of Ben Slimane (Morocco), using multitemporal images". IUFRO Conference, Palermo, Italy, 4-7 dicembre 2001.
- L. Ongaro, V. Alessandro, G. Ramat - "Training activity at the Istituto Agronomico per l'Oltremare: The course on Geomatics and Natural Resources Evaluation". 2nd EARSeL Workshop on Remote Sensing for Developing Countries, Bonn, Germany, 18-20 September 2002.
- M. Di Costanzo, L. Ongaro - "The Land Cover Classification System (LCCS) as a formal language: a proposal". J. of Agr. and Env. for Int. Development, 98, 3/4, 117-164, 2004
- W. Wu, J. Zou, L. Ongaro - "Extracting Digital Elevation Data Model from ASTER Data". In "Resources Remote Sensing and Digital Agriculture", 197-207, Chinese Agricultural Science and Technology Press, Beijing, China, 2005.
- P. Tenerelli et al. - "Scenario di conservazione della vegetazione naturale e riforestazione nella Conta di Shouyang (Provincia di Shanxi, Cina) mediante l'uso di dati di osservazione della Terra". Atti della 9° Conferenza Nazionale ASITA, Catania, Italy, 15-18 November 2005.
- E. Fiorillo, D. Mattina, L. Ongaro - "Geomorphologic classification using DEM and GIS in the Loess Plateau (China)". J. of Agr. and Env. for Int. Development, 99, 3/4, 147-157, 2005.
- L. Ongaro, P. Tenerelli, F. Ugolini - "Woodland Cover Planning and Changes Scenario in the Shouyang County (Shanxi Province, China)". Proceedings of the IUFRO Landscape Ecology Conference, Sept. 26-29, 2006 - Locorotondo, Bari, Italy.
- V. Alessandro, S. Minelli, L. Ongaro - "Stima dell'accuratezza di DEM ottenuti da dati satellitari e da cartografia topografica". Atti della 10° Conferenza Nazionale ASITA, Bolzano, Italy, 14-17 November 2006.
- S. De Santis, L. Ongaro - "Scenario di evoluzione dell'uso del territorio agricolo nella contea di Danling (Sichuan, Cina) attraverso dati telerilevati". Atti della 10° Conferenza Nazionale ASITA, Bolzano, Italy, 14-17 November 2006.
- L. Ongaro e P. Sarfatti - "Valutazione delle terre per i Paesi in Via di Sviluppo". In: "Metodi di valutazione dei suoli e delle terre", CRA-Istituto Sperimentale per lo Studio e la Difesa del Suolo, Firenze, Edizioni Cantagalli, 2006, 237-251.
- W. Wu et al. - "Regional Variability of Effects of Land Use System on Soil Properties" (in cinese). Scientia Agricultura Sinica, 2007, 40(8), 1697-1702.
- G. Vaglio Laurin, L. Ongaro - "Mapping the suitability of potential conservation sites a case study in Northern Tunisia". J. of Agr. and Env. for Int. Development, 100, 1/2, 3-28, 2006.
- W. Wu et al. - "Validation and comparison of 1km global land cover products in China". International Journal of

Remote Sensing, Vol. 29, No. 13, 10 July 2008, 3769–3785.

- W. Wu, L. Ongaro, R. Shibasaki. - "Regional Variability of Soil Properties under different Land Use Systems" (in cinese). *Agricultural Sciences in China*, Volume 6, Issue 11, 2007, 1369-1375.
- E. Fiorillo, P. Magazzini, L. Ongaro - "Utilizzo di un GIS per la valutazione di colture alternative al tabacco in Italia". *Atti della 11° Conferenza Nazionale ASITA*, Torino, Italy, 6-9 November 2007.
- L. Ongaro, P. Sarfatti – "Land Evaluation in Developing Countries". In: Edoardo A. C. Costantini. *Manual of Methods for Soil and Land Evaluation*. Taylor & Francis, New York, 2009
- Y. He, L. Ongaro, L. Zhang, D. Li, X. Xu – "Regional Land Suitability Assessment for Tree Crops Using Remote Sensing and GIS". *Proceedings of the Workshop "Agricultural Land Use and its Effect in APEC Member Economies"*. Beijing, 19-22 October, 2009.
- M.A Signorini, E. Della Giovampaola, L. Ongaro, L. Vivona, P. Bruschi, B. Foggi. – "Introduction And Spread Of The Exotic Invasive Species *Oxalis Pes-Caprae* L. In Italy And The Mediterranean Area Of Europe. An Attempt At Historical Reconstruction". In: *Società Botanica Italiana, Atti del 106° Congresso Nazionale SBI*, Genova, Italy, 21-23 September 2011.
- G. A. Abesha, L. Ongaro – "Analysis of ecotourism development in Sant'Antioco island, southern Sardinia, Italy". *International Journal of Ecosystems and Ecology Science (IJEES)*, Vol.3, No. 4, 2013.

### **Monographs of the Master Course "Geomatics and Natural Resources Evaluation", under my technical and scientific coordination**

- Various Authors. - "Carta delle unità di terre della bassa e media valle del fiume Cedrino (Sardegna Orientale)". *Monografie agr. trop. e subtrop n°108*, 1990. Istituto Agronomico per l'Oltremare, Firenze, Italy.
- Various Authors. - "Carta delle unità di terre dell'Isola d'Elba". Istituto Agronomico per l'Oltremare, Firenze, Italy 1991.
- Various Authors. - "Land Unit Map of the Kebili Area (Southern Tunisia)". Istituto Agronomico per l'Oltremare, Firenze, Italy 1994.
- Various Authors. - "Land Evaluation in the Valley of Sacaba (Cochabamba, Bolivia)". Istituto Agronomico per l'Oltremare, Firenze, Italy 1998.
- Various Authors: - "Land Evaluation in the Province of Ben Slimane, Morocco". Istituto Agronomico per l'Oltremare, Firenze, Italy 2001.
- Various Authors. – "Land Resources of the Oued Lebna catchment (Tunisia)". Istituto Agronomico per l'Oltremare, Firenze, 2002.
- Various Authors. - "Land Evaluation in the Province of Thiès (Senegal)". Istituto Agronomico per l'Oltremare, Firenze, Italy 2003.  
<http://www.iao.florence.it/training/geomatics/Thies/senegal23.pdf>
- Various Authors – "Land Evaluation in the Oued Rmel catchment (Tunisia)". Istituto Agronomico per l'Oltremare, Firenze, Italy 2004. [http://www.iao.florence.it/training/geomatics/Zaghouan/Tunisia\\_24.pdf](http://www.iao.florence.it/training/geomatics/Zaghouan/Tunisia_24.pdf)
- Various Authors – "Land Evaluation in the Shouyang County (Shanxi Province, China)". Istituto Agronomico per l'Oltremare, Firenze, Italy 2005. [http://www.iao.florence.it/training/geomatics/Shouyang/China\\_25hq.pdf](http://www.iao.florence.it/training/geomatics/Shouyang/China_25hq.pdf)
- Various Authors– "Land Evaluation in Danling County, Sichuan Province (China)". Istituto Agronomico per l'Oltremare, Firenze, Italy 2006. [http://www.iao.florence.it/training/geomatics/Danling/China\\_26.pdf](http://www.iao.florence.it/training/geomatics/Danling/China_26.pdf)
- Various Authors– "Land Evaluation in Essaouira Province (Morocco)". Istituto Agronomico per l'Oltremare, Firenze, Italy 2007. [http://www.iao.florence.it/training/geomatics/Essaouira/Morocco\\_27.pdf](http://www.iao.florence.it/training/geomatics/Essaouira/Morocco_27.pdf)
- Various Authors– "Land Evaluation in Enderta District (Tigray, Ethiopia)". Istituto Agronomico per l'Oltremare, Firenze, Italy 2008. [http://www.iao.florence.it/training/geomatics/Mekele/28\\_Ethiopia.pdf](http://www.iao.florence.it/training/geomatics/Mekele/28_Ethiopia.pdf)
- Various Authors– "Land Evaluation in Kilte Awulaelo District (Tigray, Ethiopia)". Istituto Agronomico per l'Oltremare, Firenze, Italy 2009.
- Various Authors – "Land Evaluation in Elba Island, Southern Tuscany". Istituto Agronomico per l'Oltremare, Firenze, Italy 2010.
- Various Authors– "Land Evaluation in Sant'Antioco Island, Sardinia". Istituto Agronomico per l'Oltremare, Firenze, Italy 2011