

SANDRA SILVIA LUQUE

Curriculum Vitae

Postal Address: (1) School of Biology /Centre for Biological Diversity (CBD) University of St Andrews Dyers Brae Building, St Andrews, Fife KY16 9TH Scotland, UK (2) IRSTEA - National Research Institute of Science and Technology for Environment and Agriculture, France 2, rue de la Papeterie, BP 76 F-38402 St-Martin-d'Hères, cedex. France	<i>Email(1):</i> sl208@st-andrews.ac.uk <i>Email(2):</i> Sandra.luque@irstea.fr Office: +44 1334 463381 Skype : sandra.luque2 Google+ sluque25@gmail.com http://biology.st-andrews.ac.uk/contact/staffProfile.aspx?sunid=sl208 Linked In Research Gate Google Scholars
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Citizenship : French - Argentine

EXPERTISE

Landscape Ecology
Biodiversity assessment / Habitat modelling / Biodiversity Indicators
Global Change
Ecosystem services
Natural Resources Monitoring and Management/Conservation planning
Remote Sensing / GIS
Sustainable development & human dimension

As a landscape ecologist, my research interests are interdisciplinary, covering a broad range of areas including geography, ecology, global change (terrestrial ecosystems), landscape change dynamics, biodiversity indicators, ecosystem services and conservation and management of natural resources. The main focus of my research is on spatio-temporal dynamics and disturbances at the landscape level. I look at biodiversity and habitat quality at different scales and its implications for ecosystem processes and planning. I focus also on the key role that the human dimension imprints on the obvious and subtle impacts on ecosystems and cross-cutting issues in relation to sustainable development concepts and tools.

EDUCATION

- Octobre 2008 **HDR « Habilitation à Diriger des Recherches »** Université Joseph Fourier **Grenoble I**, France. Ecole Doctoral Sciences de la Terre – Univers – Environnement. Dissertation : « *Patterns and Processes in a Changing World : A forest landscape perspective* »
- 2006 « **Agrément à diriger des thèses** » Conseil Scientifique de l'Université Joseph Fourier (UJF) Grenoble, France.
- 1996 **PhD Geography**. Specialization: **Landscape Ecology**. Rutgers The State University of New Jersey (USA). **PhD Thesis:** *Structure and Dynamics of the New Jersey Pine Barrens*

Landscape. Rutgers, The State University of New Jersey. New Brunswick, NJ, USA 275 pages.

- 1992 **MSc Geography.** Specialization: **Remote sensing/GIS.** Rutgers The State University of New Jersey (USA). **MSc Thesis:** *Natural and Human Processes Interacting to Cause Landscape Change in the New Jersey Pinelands.* **Rutgers, The State University of New Jersey.** New Brunswick, NJ, USA 105 pages.
- 1992 NASA, **Diploma** Summer School for Earth Sciences - Processes of Global Change. California Space Institute/Jet Propulsion Laboratory. University of California, San Diego, USA.
- 1987 **Diploma Integrated Rural Development.** United Nations Program for Development (UNPD-UNESCO)/Universidad Nacional de Mar del Plata (UNMP) (Argentina).
- 1986 Geography. Specialization: **Natural Resources Planning.** Universidad Nacional del Sur, Bahía Blanca (Argentina). **(eq. Master 2):** *“Evaluación de la Degradación de los Suelos en un Area Bajo Riego en el Valle Inferior del Rio Chubut, Patagonia”.* **Universidad Nacional del Sur.** Bahía Blanca, Argentina.

ACADEMIC AWARDS AND HONOURS

Appointments to Distinguished Councils

- 2014-2018 Nominated IUFRO **Deputy Coordinator Division 8** Forest Environment
- 2014 **FAO Expert Panel** Member in support of the Evaluation of the **CGIAR Research Program** on Forest, Trees and Agro-Forestry
- 2014-2015 Nominated Expert (UK) for the **Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)**. Deliverable 2(a) of the work programme, on the development of a guide to the production and integration of assessments from and across all levels
- 2012-Present Nominated **IUFRO Office Holder: Coordinator IUFRO 8.01.02 Working Party (Division 8): Forest Landscape Ecology (720 members** <http://iufrole.wordpress.com/>)
- 2005 – 2013 **Elected Vice-President** of the IALE (International Association of Landscape Ecology), member of IALE Executive Committee
- 2009-2012 Nominated **“Deputy Coordinator” IUFRO 8.01.02 Working Party (Division 8) : Forest Landscape Ecology**

Scholarships, Fellowships & Nominations

- 2007-13 PhD supervision and Research Award, National Ministry of Education, France
- 2005 –2006 Foreign high-level scientific Research contract, National Ministry of Education, France
- 2002 Journal 'Landscape Ecology' (D. Mladenoff, R.H. Gardner and F. Golley) selected: Luque, *et al* 1994. Temporal and Spatial Changes in the New Jersey Pine Barrens Landscape. *Landscape Ecology* 9(4):287-300 -listed as one of the **'influential papers within the field of Landscape Ecology'**.

- 2000 – 2001 Daphne Jackson Memorial Trust - **Research Fellowship for Women in Science** (on competitive bases). Host Institution: Lucy Cavendish College, **University of Cambridge**, United Kingdom.
- 1992 California Space Institute/Jet Propulsion Laboratory **Scholarship** (on competitive bases) to attend the Summer School for Earth Sciences - Processes of Global Change. **University of California** - San Diego, USA.
- 1991-1994 **NASA** PhD Graduate Student Fellowship (on competitive bases) in **Global Change Research. EOS (Earth Observing System) Program**, USA.
- 1990-1991 Graduate Fellowship Centre for Remote Sensing and Spatial analysis Laboratory. **Rutgers, The State University of New Jersey**. New Brunswick, NJ
- 1988-89 **Research Fellowship** (on competitive bases). National Council of Scientific and Technical Research (**CONICET**). Argentina
- 1987 **Graduate Fellowship** (on competitive bases). Council of Scientific Research of Buenos Aires Province (**SIC**). Argentina & PNUD (Programme de Nations Unis pour le Développement).
- 1983 **Student Fellowship**. Argentine Association Against Air Pollution.

Awards

- 2015** **Distinguished Services to the Society - IALE Award** (International Association for Landscape Ecology)
- 1996 International Association for Landscape Ecology (IALE) **Honorable Mention** - Best graduate student paper presentation at the 11th Annual U.S. Landscape Ecology Symposium, USA. For the work: *The Impact of Management Practices on the Landscape of a Natural Reserve: The New Jersey Pine Barrens, a case study*.
- 1987 **Honorable mention** - National Academy of Agricultural and Veterinary Sciences (Argentina). "Jose Maria Bustillo Prize" for the work '*Agricultural Policy for the Patagonia Region*'. 205pp.
- 1975 National Prize "Saint-Exupéry". Awarded by Aliance Française, Argentina

PROFESSIONAL POSITIONS

Jan 2015 - Present **Senior Visiting Researcher University of Saint Andrews, School of Biology, UK**
Centre for Biological Diversity (CBD) <http://biology.st-andrews.ac.uk/staff/sl208>
<http://synergy.st-andrews.ac.uk/diversity/dr-sandra-luque/>

Sept 2013-Dec 2014 Senior Visiting Researcher University of Saint Andrews *Department of Geography and Sustainable Development, Centre for Geoinformatics (CGI) UK*

January 2007 - present Research Director (DR, IRSTEA - Ministère de la Recherche). **IRSTEA** (former Cemagref), Grenoble, **France**

April 2005 – Dec. 2006 **Senior Research Scientist** (Ministère de la Recherche (contrat Scientifique étranger haut niveau). Cemagref, Grenoble, France

- 2001 – April 2005 **Senior Research Scientist - METLA** Finnish Forest Research Institute, Helsinki, Finland
- 2000-2001 **Research Fellow - Lucy Cavendish College Cambridge** - Daphne Jackson Trust. Geography Department, **University of Cambridge**, Cambridge, UK.
- 1997-May 2001 **GIS/Remote Sensing expert** - Department for International Development (DFID) **University of Wales, Bangor**, UK.
- 1997-1998 **Professional Consultant. UNCTAD** (United Nations Conference on Trade and Development). Switzerland. *GIS Application for Natural Resources*.
- 1991-1994 **NASA Research Fellow - EOS Program (USA)**. Theme: *Global Change: Terrestrial Ecosystems*.
- 1990-1991 **Graduate Assistant**. Natural Resources Department, **Rutgers University (USA)**. *Coupling Vegetation Models using LAI and TM data*.
- 1989-1990 **Technical Assistant**. Plant Pathology Department, **Rutgers University (USA)**. *Plant Fungi Studies*.
- 1988 **Research Fellow** National Council of Scientific and Technical Research (**CONICET-Argentina**). Research Project: *"Range Hydrology and Grassland Structure Relationships in the Pampa Deprimida Region"*.
- 1986-87 **Professional Consultant. Grimaux Consult** (Argentina). Project: *Integral Development of an Area of 500,000 ha in the Chaco Province, Argentina*.
- 1983 **Technical Assistant**. "Centro National Patagónico" (**CENPAT-CONICET**), Puerto Madryn, Chubut (Argentina). Project: *Arid lands degradation*. Training on photointerpretation as applied to Natural Resources.

LANGUAGES

Spanish (mother tongue)
 English (excellent)
 French (excellent)
 Italian (fair)
 Portuguese (reading knowledge)

PROJECTS COORDINATION & COORDINATION ACTIVITY (Grants)

- 2015 -2018 **ESMERALDA** EU H2020 Enhancing ecoSysteM sERvices mApping for poLicy and Decision mAking, Concerted Action – Partner Representative for France
- 2012-2016 **OpenNess** OPERATIONALISATION OF NATURAL CAPITAL AND ECOSYSTEM SERVICES: FROM CONCEPTS TO REAL-WORLD APPLICATIONS EU FP7-ENV-2012. Collaborative project. Coordination of the Forest Cluster study sites <http://www.openness-project.eu/> Coordinator of the French study site in the Vercors Mts range.
- 2012-2014 **MOCHAB** Modélisation de la distribution des espèces : un outil pour l'évaluation, la conservation des **habitats** d'espèces et des continuités écologiques. Financed by DEB- MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité), France. Project **Coordinator**
- 2011-2016 **CarHab** Cartographie nationale des végétations naturelles et semi-naturelles terrestres en France. Financed by MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité, France). **Coordination action**: « Apports de la

télédétection pour la cartographie des végétations naturelles et semi-naturelles terrestres (milieux ouverts d'altitude) »

- 2012-2014 **CHAMOIS**: Cartographie HAute résolution des Milieux Ouverts d'altitude (pelouses, prairies, landes) de l'Isère. In co-ordination with LECA CNRS funded by Conseil de l'Isère (CG38) Pôle départemental de Recherches sur la biodiversité en Isère <https://www.isere.fr/environnement/> The project aims at the development of high resolution mapping (5-10 m) of three test zones in Vercors, Belledonne & Ecrins.
- 2009-2011 EU-INTERREG IV Alpine Space Program: Projet **ECONNECT** Improving ecological connectivity in the Alps_ France. **Coordination** for France WP4 & WP5; Terrestrial Barriers and Corridors: Alpine wide approach
- 2010-2012 **ECOTRAM** - MEEDDM-DEB Biodiversité (DEB) Comparaison de méthodes pour l'application de la Trame verte et bleue » à l'échelle locale dans des zones test Région Rhône-Alpes – ECOTRAM. Scientific coordinator
- 2010-2012 ANR Systerra : Projet **FORGECO** « Du diagnostic à l'action : vers une gestion intégrée et viable des écosystèmes forestiers sur les territoires ». France. **Coordination Activity**: Habitat modelling and spatio-temporal changes in forest landscapes
- 2009-2010 **CartoVege** « Elaboration d'une méthodologie de cartographie des habitats naturels et semi-naturels sur l'ensemble du territoire national, France » - coordination Habitats forestières- France (**Coordination** natural and semi-natural forest habitats in territorial France) MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité, France)
- 2008-2011 Project participation : Influence de l'abandon de l'exploitation sur la structure des forêts de montagne – Implications sur la qualité des habitats et sur leur fonction de protection contre les risques naturels. Projet **HABRIS**. France (**Coordination** : Habitat modelling, landscape level activity)
- 2005 - 2007 S. Luque Cemagref, **project coordinator**. Partenaires: ILESas, CEH, Alterra for the project: *Indicators to monitor changes and conservation in Natura 2000 sites: A focus on Drivers, Pressures and States*. **ALTER-Net project** (A Long-term Biodiversity, Ecosystem and Awareness Research Network – EU-FPVI) Internal funded project. Cemagref Grenoble, France.
- 2005 - 2006 S. Luque Cemagref, **project coordinator**, **Ministère de l'écologie et du développement durable (MEDD)**. Service de la recherche et de la prospective, France. Project: "*Développement d'un réseau scientifique autour de la problématique de la fragmentation forestière en Amérique du Sud et de ses implications en matière de biodiversité*". Eight partners from France, Chile & Argentina
- 2003 - 2005 S. Luque METLA project leader, National level Finland. **A Hierarchical Approach to Protect Forest Biodiversity and to Assess Habitat Suitability in the Finnish Forest (PROHAB)**. **MMM MOSSE Program**; Finnish Ministry of Environment. Research Assistants: Johanna Joensuu, Nina Rautjärvi. Euros 214,712
- 2002 - 2005 **EU 5th Framework Program / EESD-GMES** (end users) - **'BIOPRESS' Linking pan - European landcover change to pressures on biodiversity** (International Consortium of seven partners lead by CEH UK (project co-ordinator: F. Gerard)) - (<http://www.creaf.uab.es/biopress/>). **S. Luque METLA Country co-ordinator** (METLA-Finland) Adjusted contribution from the Community Euros 1,421,632 (Metla-Finland Euros 374,870 share costs)
Technical Assistants to S. Luque: Hanna Huitu, Sakari Tuominen, Saara Lentonen, Markus Haakana. METLA, Finland.

- 2003 **CIMO** International Mobility Program - Target country: Argentina - Funding for Educational Exchange and **Building Capacity: 'Module on Landscape Ecology and Natural Resources Monitoring and Management: Understanding Processes from Patterns'** - April-May 2003 Post Graduate course, Universidad Nacional de Buenos Aires (UBA), Argentina. **Dir. S. Luque** Euros 1,870
- 2001 - 2003 FIBRE-TEKES-Finnish Federation of Forest Industries /**TEMPOS Consortium - Biodiversity FIBRE Program** - Project: **Temporal and Spatial Diversity of Boreal Forest and Peatland Vegetation (S. Luque METLA Activity co-ordinator: 'Landscape Ecology of Boreal Forests'** - Project Head: Prof. Erkki Tomppo - METLA)
- 2000-2001 S. Luque coordinator;. University of Cambridge. **Forest Monitoring and Restoration for the Mediterranean Region**. Lucy Cavendish College-Daphne Jackson Trust. Geography Department, Cambridge, UK.
- 1998 - 2000 S. Luque Leading Remote Sensing/GIS expert team. **DFID/ERP R7112** - Department for International Development (United Kingdom). Environment Research Program. Project: **"Development and promotion of improved methods for identification, assessment and evaluation of biodiversity for tropical mountain environment"**. Forestry Department, University of Wales at Bangor - Department of Geography, University of Cambridge, UK. (Sterling Pounds £193,536)
Two research assistants to S. Luque: Eleri Jones and Wadson Makari. Two local Field Assistants in Cameroon
- 1991-1994 **NASA - EOS** Global Change Program. Project: **Temporal Changes in Landscape Patterns and Conditions and their Relation with Human Impact and Natural Disturbances**. Center for Remote Sensing and Spatial Analysis, Rutgers University, New Jersey, USA. Research Fellowship Program to **S. Luque**. 150,000 US dollars
One research assistant, John Bognar, and one technical assistance to S. Luque
- 1988 - 1989 S. Luque project Leader. National Council of Scientific and Technical Research (**CONICET - Argentina**). Research Project: **Range Hydrology and Grassland Structure Relationships in the Pampa Deprimida Region, Argentina**. INTA/UNMP (Instituto Nacional de Tecnología Agropecuaria Universidad Nacional de Mar del Plata), Balcarce, Argentina.

RESEARCH PROJECTS PARTICIPATION

- 2012-2014 DIACOFOR Test d'outils de diagnostic de la connectivité fonctionnelle potentielle de la trame forestière. Financed by DEB- MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité) France
- 2012-2014 TVB Analyse multi-échelle des cartographies des réseaux écologiques : quelles articulations possibles ? Financed by DEB- MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité) France
- 2007-2010 **Scientific Adviser** for FPVI EU-Rubicode : "Rationalising Biodiversity Conservation in Dynamic Ecosystems - Ecosystem Services and Drivers of Biodiversity Change". Proposal/contract number: 036890 FPVI Global Change and Ecosystems
- 2005 – 2008 Participation **Ecosystem functions in managed Forest catchments areas** ManForest project - **AlterNET** (A Long-term Biodiversity, Ecosystem and Awareness Research Network – EU-FPVI) Internal funded project co-ordinated by Lars Lundin, SLU, Swedish University of Agricultural Sciences, Sweden; with 10 EU partners.
- 2005 – 2007 Participation in the Project: **"Economic Impacts of forest biodiversity conservation in Southern Finland (Etelä-suomen metsien biodiversiteetin suojelun taloudelliset vaikutukset)** Project funded by Finnish Ministry of Environment. Project co-ordinated by Maarit Kallio; One GIS Technical Assistant, Daisy L. Englert-Duursma to S.Luque. Euros 12,000

- 2004 – 2006 Participation in the Project: **"Cost-Efficient Approach for Forest Species Conservation: A case of Eastern Finland"** (Kustannustehokas metsien suojelu etelä-suomessa). Project funded by Finnish Ministry of Environment Project co-ordinated by Mikko Mönkkönen, Artti Juutinen; Sandra Luque collaborator with Nina Rautjärvi. Euros 120,000
Research Assistants to S. Luque: Terhi Riutta, and Johanna Joensuu METLA, Finland
- 1990-1991 **Coupling vegetation models using LAI and TM data.** Natural Resources Department, **Rutgers University**, USA. S. Luque Research Assistant; R. Lathrop Coordinator
Two technical assistants for field work and laboratory soil analyses to S. Luque
- 1987 Council of Scientific Research of Buenos Aires Province (**SIC - Argentina**).
Participation in the Project: **Grassland Management in the Pampa Deprimida Region.** Dir. M. Cauhepe INTA, Balcarce.
- 1986-87 S. Luque Professional Consultant. **Integral Development of an Area of 500,000 ha in the Chaco Province**, Argentina. Grimaux Consult, Argentina.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Executive Committees

- 2014-2015 Expert for the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (**IPBES**). Deliverable 2(a) of the work programme, on the development of a guide to the production and integration of assessments from and across all levels
- 2014-2018 Nominated IUFRO **Deputy Coordinator Division 8** Forest Environment
- 2014 Expert Panel Evaluator **CGIAR Research Program** on Forest, Trees and Agro-Forestry, FAO
- 2014-2016 Global Observation of Forest Cover and Land Dynamics (GOFC-GOLD) Land Cover Office (LC PO¹) and the Biodiversity Observation Network (BON²) of the Group on Earth Observations (GEO)
- 2009-Present **IUFRO Officeholder** Nominated **"Deputy Coordinator" IUFRO 8.01.02 Working Party (Division 8) : Forest Landscape Ecology** <http://iufrole.wordpress.com/>
<http://www.iufro.org/science/divisions/division-8/80000/80100/80102/>
- 2005 - 2013 **Elected Vice-president of IALE** (International Association of Landscape Ecology), <http://www.landscape-ecology.org/> Member of IALE Executive Committee (EC)
Representative of IALE Argentina in the EC
Co-Coordinator L-NET IALE Education and building capacity Network
Elected EC Representative of IALE French Chapter 2005-06.
- 2012-present **Board member** ELI European Land Institute <http://www.eli-web.com/> (LAND Project)
- 2013-present **Leader of the ESP BIOME Expert Group** Temperate & Boreal Forest Expert (a platform for researchers and practitioners to exchange information and discuss ideas and experiences on Assessment of Ecosystem Services provided by the various types of temperate and boreal forest ecosystems) <http://www.fsd.nl/esp/79210/5/0/50>
- 2011-Present Member of the Council **ELI European Land-use Institute** <http://www.eli-web.com/>
- 2007-present Co-founder and IALE official representative for the Working Group **IUFRO-IALE « Forest Landscape Ecology»** <http://www.greenspace.it/iale-iufro/>

¹ <http://www.gofcgold.wur.nl/>

² <http://www.earthobservations.org/geobon.shtml>

- 2006 – 2012 **Scientific Coordinator** and co-founder of a network of Latin American experts on Forest Fragmentation and Biodiversity Loss: **FragforNET**
<http://fragfor.net.grenoble.cemagref.fr/>
- 2007- 2012 Coordinator member of the **Task Force Group for the European educational initiatives for landscape ecology**
- 2008/2010 Chairperson Selection committee IUFRO – **NASA young researchers Fellowship Program** to assist the IUFRO Working Party related Conferences "**Forest Landscape Ecology**"
- 2007-08 Preparation of the **Memorandum of Understanding** between the University of Wales, Bangor (UK), CENPAT, INTA (Argentina) and the Universidad Nacional de la Patagonia San Juan Bosco (Trelew and Puerto Madryn campuses, Argentina). (**British Council and Welsh Commission**)
- 1997-1998 **Co-PI Earth System Science Education and Training Program**: Building Capacity, within the IAI (Inter American Institute, USA) Collaborative Research Network (funded by NSF-NASA) (<http://ww3.iai.int/> <http://w6.alimar.com/iai/crnwtpaper.html> <http://www.usra.edu/iai/sandiego.html>)

Affiliations

IALE - International Association for Landscape Ecology – IALE UK, IALE Europe
 IUFRO - International Union of Forestry Research Organizations (Union Internationale des Instituts de Recherche Forestière)
 IUFRO Directory of Experts
<http://hermes.wsl.ch/didado/iterpw.showfterms?fi=any&la=any&co=any&na=any>
 IALE-IUFRO Co-founder and co-coordinator for the Working group on Forest Landscape Ecology <http://iufrole.wordpress.com/>
 ESP – Network Ecosystem Services Partnership, coordinator of the temperate forest Biome
<http://www.fsd.nl/esp>
 PAGES - Member of Past Global Changes Network <http://www.pages-igbp.org/about/general-overview> (NSF, IGBP, NOAA)
 EsCom network on Ecosystem Services for Scotland <http://escomscotland.wordpress.com/> working group on futures and scenarios <http://escomscotland.wordpress.com/working-groups/>
 ELI European Land-use Institute <http://www.eli-web.com/> Board member
 Landscape Europe <http://www.alterresearch.nl/pls/portal30/docs/>
AlterNet A Long-Term Biodiversity, Ecosystem and Awareness Research Network
www.alter-net.info
 PEER member of the Partnership of European Environmental Research Institutes
<http://www.peer.eu/>
 ESSE Earth System Scholars Network (Former & present NASA-EOS fellows)
http://www.earthsystemsolars.org/member_home/

EVALUATION FOR FUNDING AGENCIES
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| 2003-present | EU- Directory of Experts |
| 2003 | EU-New and emerging science and technology (NEST) |
| 2004 | EU-Sustainable development, global change and ecosystems Call FPVI |
| 2005 | EU-Area III.1.1 of the Global-4 Call FPVI |
| 2008 | EU-FPVI – Cooperation Theme 6, Environment including Climate Change |
| 2008 | EU-FPVI – Cooperation Theme 2, Agriculture and Forest |
| 2009 | INRA-France contrats d'attachés scientifiques contractuels (ASC) et des contrats jeunes scientifiques (CJS) |

- 2010 ANR (Agence National de la Recherche, France) SYSTERRA 2010- Ecosystèmes, territoires, ressources vivantes et agricultures
- 2008/2010 Chairperson Selection committee IUFRO – NASA young researchers Fellowship Program to assist the IUFRO Working Party related Conferences "**Forest Landscape Ecology**"
- 2011 EU Biodiversa (evaluator for ANR, France)
- 2011 Appel Projets Recherche Biodiversité, Conseil Régional Nord-Pas de Calais, France
- 2011-2013 Programa Ibero-americano CYTED (Project Proposals LAC region)
- 2012 INRA-France Sujets de thèses doctorales
- 2014 NERC ESPA Program Proposals Evaluator
- 2014 OT-MED Projects Labex
- 2014 CGIR-FAO Program Evaluator
- 2014 EU HORIZON 2020 Evaluator & rapporteur

EDITORIAL EXPERIENCE

- 2014-2016 Contribution to the Development of a sourcebook for biodiversity monitoring in tropical forests Initiative: Global Observation of Forest Cover and Land Dynamics **GOFC-GOLD / GEO BON**.
- 2012-2016 Appointed at the **board of editors** for *Landscape Ecology*, Springer, Coordinator editor
- 2013-14 Invited Editor **Landscape Ecology: Special Issue: Ecosystem Services in Changing Landscapes**". Volume 29, Issue 2, February 2014 ISSN: 0921-2973 (Print) 1572-9761 DOI 10.1007/s10980-014-9993-2
- 2011-12 Invited Editor **Landscape Ecology: Special Issue: "Landscape connectivity analysis for conservation: insights from combining new methods with ecological and genetic data"** (2012) 27:153-157. DOI 10.1007/s10980-011-9700-5.
- 2013-Present Editorial Board **CASES** Change and Adaptation in Socio-Ecological Systems Journal <http://www.degruyter.com/view/j/cass> Open Access
- 2006-present IALE **Bulletin** editorial board
- 2006-2010 IALE - **Editorial board** for *IALE Landscape Research and Management papers series*. Digital journal for documents on landscape ecology and its applications.
- 2009 **Editor** for the proceedings of the Conference: **First Latin American IALE Conference**. Landscape Ecology in Latin America: Challenges and Perspectives (Campos do Jordão, São Paulo, Brazil)
- 2008 **Editor** for the proceedings of the Conference: Biannual Conference **Working Group IUFRO "Forest Landscape Ecology"** Conference Topic: "Forest Landscape Ecology and Forest Management Challenges and Solutions". Chengdu, Sichuan P.R. China
- 2005-present IUFRO **Directory of Experts**. http://www.wsl.ch/forest/risks/iufro/directory_update.ehtml.
- 2006 IUFRO Landscape Ecology Working Group. **Editor** for the proceedings of the Conference: **Patterns and Processes in Forest Landscapes: Consequences of Human Management**. Locorotondo, Bari, Italy
- 1991-96. **Conservation Biology**, Associate Editor for Spanish Translations.

REVIEWER FOR:

1)Landscape Ecology, 2) Landscape and Urban Planning, 3)Forest Ecology & Management, 4)Forest Science (Society of American Foresters), 5)Environmental Monitoring and Assessment, 6) International Journal of Geographical Information Science, 7)Southern Journal of Applied Forestry, 8)Ecological Modelling, 9) Acta Zoologica Sinica (Academy of Sc. China), 10) Geographical Journal, 11) International Journal of Remote Sensing, 12) Biodiversity and Conservation, 13) International Journal of Biodiversity Science, Ecosystem Services & Management, 14) Canadian Journal of Forest Research, 15) Environmental Conservation, 16) Forest Policy and Economics, 17) Journal of Applied Ecology, 18)Biological Conservation 19) Conservation Biology, 20)OIKOS, 21) Plos, 22) IJGIS, 23) Ecology and Society, 24) CASES, 25) Ecosystem Services, 26) Ecological Applications, 27) OIKOS, 28) Remote Sensing

TEACHING EXPERIENCE

- 2014-2015/2015-16 Master classes in Sustainable Development (SD5003) Module on **Biodiversity and Ecosystem Services: New concepts and Challenges for the future**. 15hs/term, Department of Geography and Sustainable Development, University of St Andrews, UK
- 2014 Module **Sustainable Development: Ecological and Environmental Aspects** 6hs, Department of Geography and Sustainable Development, University of St Andrews, UK
- 2014 Sustainable Development (SD) degree: Priorities and Pathways (at both sub-honours and honours levels Lectures on **Biodiversity and Ecosystem services: concepts and challenges for conservation** 12hs Department of Geography and Sustainable Development, University of St Andrews, UK
- 2014 Coordinator Review essays Honours students Department of Geography and Sustainable Development, University of St Andrews, UK
- 2012 Module on "**key concepts on Landscape dynamics, land-use change and biodiversity**" In **PhD's IALE Europe Graduate School**: "Agricultural landscapes responding to Multiple Drivers: Challenges for Landscape Ecology in Europe" Évora, Portugal from the 24th to the 29th June 2012
- 2008-2010 Coordinator & lecturer «Ecologie du paysage» Unité d'Enseignement Licence "Géographie et Aménagement". Institut Géographie Alpine, Université Joseph Fourier, France (30 hs in French cours magistral)
- 2007 Organisation pre-conference international level course IALE 2007 Wageningen, Pays Bas (July 2007). International level course for young scientists and PhD's "*Module on Landscape Ecology: Understanding Processes from Patterns*" with the participation of Santiago Saura (Universidad de Lleida – Spain)
- 2006 Invited lecturer. Seminar on Use of GIS in Landscape Ecology. Department of Environmental, Social and Spatial Change (ENSPAC) Roskilde University. Denmark, 19th November
- 2005-2012 Coordinator & lecturer Module for **Master 2** (BIO584) « Écologie du Paysage », Biology Department, Université Joseph Fourier (LECA - UJF), Grenoble, France (32 hs in French + coordination)
- 2004 Co-lecturer Master 2 - Module « Écologie du Paysage », Laboratoire d'Ecologie Alpine, Université Joseph Fourier (Biology Department/LECA - UJF), Grenoble, France – November-December – (32 hs in French)
- 2003 Lecturer Post graduate-course: 'Module on Landscape Ecology and Natural Resources Monitoring and Management: Understanding Processes from Patterns' - Universidad Nacional de Buenos Aires (UBA), Argentina. 21-30 April – (65 hours in Spanish).

- 2001-2002 Lecturer 'GIS Applications for Natural Resources Management' - Department of Forest Resource Management, University of Helsinki, Finland (95 hours/year in English)
- 2001-2002 Invited Lecturer 'Ecological Applications of GIS', Department of Ecology and Systematic, University of Helsinki, Finland. (5 hours/year in English)
- 2001-2002 Lecturer: Module on Landscape Ecology and GIS Applications – MSc Program - Department of Environmental Management. Mediterranean Agronomic Institute of Chania (*EU Program, building capacity for countries in conflict-MAICH*). Crete, Greece. (45 hs/year in English)
- 2000-2001 Lecturer and MSc students Supervisor - MSc Remote Sensing/GIS Program. Geography Department, University of Cambridge, UK (32 hs in English + supervisions)
- 1999 Facilitator for the training and capacity building Module on Biodiversity Information Management for Hull University. *Darwin Initiative Training in Biodiversity Information Management*. UNEP-World Conservation Monitoring Centre 28-30 September, Cambridge UK. (8 hours in English)
- 1998 Lecturer for the Ecology MSc Program. Lecturing on Remote Sensing and GIS Applications to Natural Resources. School of Biological Sciences, University of Wales, Bangor. UK. (45 hs in English)
- 1997-1998 Lecturer for the Environmental Forestry MSc. Program. Lecturing on Landscape Ecology and Earth System Science. Supervision of Graduate students. School of Agricultural and Forest Sciences, University of Wales, Bangor. UK.
- 1990-1991 Teaching Assistant. Analytical Methods in Environmental Planning and Management. Department of Natural Resources, Cook College Rutgers University, USA.
- 1987 Teaching Assistant in Ecology. Department of Natural Sciences; Universidad Nacional de Mar del Plata. Mar del Plata (Bs. As.) Argentina.

GRADUATE STUDENTS ADVISER ON RESEARCH TO

- 2008-2011 Redon Mathilde (Direction) - *MODELISATION DE LA QUALITE DES HABITATS FORESTIERS DU VERCORS : UNE APPROCHE MULTI-ECHELLES*. **PhD** student. Ecole Doctorale numéro 216 : INGENIERIE POUR LA SANTE, LA COGNITION, L'ENVIRONNEMENT - Ecole doctorale EDISCE : Université Joseph Fourier (UJF) Grenoble I.
- 2008-2012 Walla Adra (Direction) - *Modélisation de la qualité de l'habitat de la Gélinoite des bois (Bonasa Bonasia) dans un contexte de changement anthropique en Chartreuse* **PhD** student Ecole Doctorale numéro 216 : INGENIERIE POUR LA SANTE, LA COGNITION, L'ENVIRONNEMENT - Ecole doctorale EDISCE : Université Joseph Fourier (UJF) Grenoble I
- Marco Duriavig - *Integrated analysis of landscape changes in three tropical forest areas (Brazil, China and Tanzania)* **PhD student** co-direction Prof. Enrico Feoli, Dipartimento di Biologia. Università degli studi di Trieste, Italy 2005-2007
- Miguel Angel Martinez-Morales - *Forest fragmentation effects on bird communities of tropical montane cloud forests in eastern Mexico*. **PhD January 2001 (Committee member)** Wolfson College/ Conservation Biology Group, Zoology Department, University of Cambridge.
- Rafaella Donatello - *Multitemporal landscape analysis using remote sensing and GIS: a case study in central Italy (Monti Lepini)*. **PhD (candidate)** 2000-2001 (**Committee member**). Geography Department, University of Cambridge

Simon Roberts- *An investigation into the relations between water resources and NDVI of the semi natural vegetation of Crete. PhD (candidate) 2000-2001 (Committee member).* Trinity Hall/Geography Department, University of Cambridge

Supervision Post-doctoral Fellows

2015- **Guillermo Martín Svendsen.** Temporal and Spatial patterns of Biodiversity Changes and the Evaluation of Ecosystem Services. Concejo Nacional de Investigaciones Científicas y Técnicas (**CONICET**), **Argentina** – CBD, University of St Andrews, UK

2014-2016 **Patrizia Tenerelli** OpenNess Project Operationalisation Of Natural Capital And Ecosystem Services: From Concepts To Real-World Applications EU FP7-Env-2012

2012-2015 **Denis Marechal** Modeling vegetation communities in the French Alps. Financed by DEB-MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité), France.

2011-2015 **Vincent Thierion (CarHab Project)** Cartographie nationale des végétations naturelles et semi-naturelles terrestres en France. Financed by MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité, France). Apports de la télédétection pour la cartographie des végétations naturelles et semi-naturelles terrestres (milieux ouverts d'altitude)

2011-12 **Mathilde Redon** expériences de modélisation de la végétation en Europe et en France. Funded MEEDDM-DEB Biodiversité (DEB), FCBN, France

2010-11 **Samuel Decout.** Développement d'une méthodologie intégrant les approches paysage-échelle-métrique-processus et les approches de génétiques des paysages. Post_doctoral Financement EU-INTERREG IV Alpine Space Program (Projet ECONNECT) & ECOTRAM - MEEDDM-DEB Biodiversité (DEB)

2010-11 **Vincent Thierion.** Modélisation de l'habitat et modèles spatio-temporelles en forêt. Post - doctoral Fellow ANR Systerra (Projet FORGECO)

2002-2003 **Raúl Romero-Calcerrada** - Instituto de Economía y Geografía - **Post doctoral fellow.** CSIC Madrid (Spain), financed by EU Scientific exchange program and National Research Council of Spain - Research Topic: 'Weights of Evidence Models for territory evaluation of Three-toed woodpecker (*Picoides tridactylus*) as species indicator of landscape quality' -

PhD Thesis committees

2014-2016 Alessandra Rocha Kortz *Science without Borders Programme* from Brazil Program Biodiversity and species invasion effects in Itirapina Ecological Station (Itirapina, São Paulo). University of St Andrews, School of Biology, UK

2012-2014 Aleix Puente Vila-Masana "Analysis of the effects of changes in land use and biodiversity in the dynamics of the Pyrenean subalpine forest communities" Universidad de Barcelona, Facultad de Biología Vegetal, Spain

2012-2015 Marine BOULOGNE «Vulnérabilité des paysages forestiers en relation avec les dynamiques agro-démographiques et la variabilité climatique. Etude comparative à Madagascar et à La Réunion». IGA, TUE, Grenoble I

2011-2013 Thao DO « APPORT DE LA TELEDETECTION SPATIALE POUR L'ETUDE MULTISCALEAIRE DES INTERACTIONS CLIMAT-SURFACE EN AFRIQUE DE L'OUEST. Etude du bassin versant de l'Ouémé Supérieur (Bénin)». LTHE, TUE, Grenoble I

2006-2007 Julien Pottier « Analyse multi échelles de l'émergence et des effets des structures spatiales végétales dans un paysage linéaire d'origine anthropique : les digues du Rhône canalisé » UJF, Grenoble I, France

2006-2007 Samuel Decout Effets des patrons d'organisation spatiale du paysage sur l'habitat d'une espèce animale à gestion conservatoire : le cas de l'habitat de reproduction du tétras-lyre (*Tetrao tetrix* L.) dans un contexte d'expansion des aulnaies vertes (*Alnus alnobetula* (Ehrh.) C. Koch) Edisce, UJF, Grenoble, France

Master Students

Julen Gonzalez. 2014. "Using a Spatial Bayesian Belief Network Software to Integrate Conservation and Productivity in Land Use Planning" 2014 Master (MRes) Sustainable Development. University of St Andrews UK

Clément Parmentier 2013. Modélisation prospective des changements d'occupation du sol sur le territoire des « Quatre Montagnes à l'horizon 2050. Mention « Géographie et Aménagement Spécialité « Géomatique appliquée aux études urbaines et aux risques » UNIVERSITE de CERGY-PONTOISE. Département Géographie et Histoire. co-encadré Vincent Thierion (Master 2)

MONDESIR Jacques Philémon Utilisation et évaluation des outils de la télédétection pour la cartographie des milieux ouverts d'altitude Master 2 SIA Univeristé Paul Sabatier, Toulouse, France 2012 co-encadré Vincent Thierion

Vincent Thierion – « *Les indicateurs pour le suivi des changements et de la conservation des sites Natura 2000 : une approche centrée sur les facteurs de régulation, de pression et d'état, basée sur l'observation de la terre et les SIG. Application aux habitats pastoraux de montagne (Parc national du Mercantour, France)* » **Stage Master2 SIGMA** 2005-2006 (MSc) France

Eleri Jones - *The identification of change in forest cover in the Bamenda Highlands, Cameroon.* **MPhil** 2000 (co-superviser) – GIS and Remote Sensing Program. Wolfson College / Geography Department, University of Cambridge.

Anthi Gkaraveli – *Woodlands fragmentation in the Snowdonia National Park.* MSc 2000. Environmental Forestry **MSc. Program** 2000 - School of Agricultural and Forest Sciences, University of Wales, Bangor.

Catherine Kendall – *Reserve management in Uganda, Africa.* **MPhil** 2000 GIS and Remote Sensing Program. Geography Department, University of Cambridge.

Terrence Simbiwen - *Conservation of traditional food crop varieties, forest conservation, land management and rehabilitation issues in Papua New Guinea.* GIS and Remote Sensing Program. **MPhil** 2001 Geography Department, University of Cambridge.

Thomas Sitbon « Cartographie physionomique des milieux ouverts d'altitude alpins : Approche multi-échelle et multi-temporel » Master Professionnel et Recherche 1er année Mention: Science des Territoires ; Spécialité : Télédétection Géomatique Appliquée à l'Environnement . Université de Paris 7 – Diderot. France 2013. Co encadré V. Thierion

Clément Parmentier « Analyse diachronique (sur 150 ans) des changements paysagers sur le territoire des "Quatre Montagnes" Master Professionnel Université de Cergy-Pontoise UFR

Lettres et Sciences Humaines Domaine Sciences Humaines et Sociales Département Géographie et Histoire, France 2012. Co encadré V. Thierion (Master 1)

SCHRODER Julien *Habitat de la Gélinothe des bois (Bonasa Bonasia) et changement anthropique en Chartreuse*. Licence Géographie et aménagement du territoire - Option : Environnement Université Grenoble 1, France 2010 VERGER Romain *Etude comparative de la valeur écologique des peuplements forestiers du massif du Vercors*. Licence professionnelle Agro-ressources et Environnement option Forêt et Environnement ; Université de Reims, France 2010 Co-encadre M. Redon

Thomas Chaumont *Etude de la pression anthropique sur la répartition de la gélinothe des bois et prise en compte de la biodiversité en forêt de Chartreuse*. Licence professionnelle « valorisation de produits produits et espaces montagnards » UNIVERSITE DE SAVOIE CISM EPLEFPA de Savoie, France 2010

Julien Schroder *Habitat de la Gélinothe des bois (Bonasa Bonasia) et changement anthropique en Chartreuse*. Licence Géographie et aménagement du territoire - Option : Environnement Université Grenoble 1, France 2010

Thomasset David *Echantillonnage et caractérisation de différents types de peuplements forestiers dans le massif du Vercors*. Master 1^{ère} année Biodiversité Ecologie Environnement. Université Grenoble 1, France 2010

Direction of Research Fellows

2012-2014 **Marie Le Roux** « **Modélisation de la distribution des espèces : un outil pour l'évaluation, la conservation des habitats d'espèces et des continuités écologiques** ». Financed by DEB-MEEDDEM (Ministère de l'Ecologie, Direction de l'eau et de la biodiversité), France.

2005 – 2007 Englert-Duursma " **Economic Impacts of forest biodiversity conservation in Southern Finland** (*Etelä-suomen metsien biodiversiteetin suojelun taloudelliset vaikutukset*) "Project funded by Finnish Ministry of Environment, France

2004 – 2006 Nina Rautjärvi " **Cost-Efficient Approach for Forest Species Conservation: A case of Eastern Finland** " (*Kustannustehokas metsien suojelu etelä-suomessa*). " Project funded by Finnish Ministry of Environment, Finland

2002-2005 Hanna Huitu Temporal Changes across Finland 'BIOPRESS' *Linking pan - European landcover change to pressures on biodiversity*GMES-EUFP5

2000-2001 Eleri Jones " *Development and promotion of improved methods for identification, assessment and evaluation of biodiversity for tropical mountain environment*". Environment Research Program. Project: Target country: Cameroon Africa DFID/ERP R7112 - Department for International Development (United Kingdom).

2000-2001 Wadson Makari Biodiversity Assessment: A case study for Tropical Mountain Regions Environment Research Program. Project: Target country: Cameroon Africa DFID/ERP R7112 - Department for International Development (United Kingdom).

EXTERNAL THESES EXAMINER

2014 María Cruz Mateo Sánchez PhD Thesis “Brown Bear Connectivity Assessed Through Habitat Models And Landscape Genetics”. **Universidad Politécnica De Madrid** Escuela Técnica Superior De Ingenieros De Montes, Spain. PhD Directors Santiago Saura Martínez De Toda (Spain) - Samuel Cushman (USA)

2013 Pierline Tournant PhD thesis « Caractérisation de la connectivité fonctionnelle des habitats du petit rhinolophe en Franche-Comté : apport de la modélisation par les graphes paysagers et de la génétique du paysage ». **Université de Franche-Comté – CNRS Sciences de la Vie et de l’environnement**

2011 Marina Garcia Llorente PhD thesis “Visibilizando los vinculos entre Naturaleza y Sociedad/ evaluación de los servicios de ecosistemas”. **Universidad Autonoma de Madrid. Laboratorio de Socio-ecosistemas, Madrid**

2011 **Oponent** Andreas Zetterberg PhD Thesis. Department of Land- and Water Resources Engineering. **School of Architecture and the Built Environment KTH (Royal Institute of Technology). Stockholm, Sweden**

2007- Juan Peña Lopis, PhD Thesis “Efectos ecológicos de los cambios de coberturas y usos del suelo en la Marina Baixa (Alicante). Departamento de Geografía; **Universidad de Alicante, Spain**

2004- Cristian Echeverría, PhD Thesis "Fragmentation of temperate rain forests in Chile: patterns, causes and impacts". **Department of Plant Sciences, University of Cambridge, Fitzwilliam College. UK**

2002 Michael Balshi, Monitoring Circumpolar Arctic vegetation distribution in response to environmental variables and anthropogenic forcing using an 8-km AVHRR NDVI dataset **Program: MPhil Polar Research Institute - Cambridge UK -**

MEMBER OF SCIENTIFIC COMMITTEE, CHAIR & ORGANIZER OF INTERNATIONAL SYMPOSIA AND WORKSHOPS
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2015-2016 Member of Scientific Committee EcoSUMMIT 2016 Ecological Sustainability, Montpellier 29 August -2 September, France

2015 Session organizer & chair “Ecosystem Services in Changing Landscapes: How to assess tradeoffs and land use options at different scales?” 4° Congreso Internacional de Servicios Ecosistémicos en los Neotrópicos, Mar del Plata 30/09-03/10, Argentine

2014-15 Member of Scientific Committee 17th International Symposium “Landscape and Landscape Ecology” organized by the Slovak Academy of Sciences, 26-28 May, Slovakia 2015

2015 Symoisum organizer & chair “Ecosystem Services in Changing Landscapes: How to assess tradeoffs and land use options?” 17th International Symposium “Landscape and Landscape Ecology” organized by the Slovak Academy of Sciences, 26-28 May, Slovakia 2015

2013-14 Organizer & Chair Technical Session “The benefits of introducing the Ecosystem Service concept in forest management and planning at different spatial scales” **IUFRO WC: Sustaining Forests, Sustaining People: The Role of Research** Salt Lake City, Utah, USA: October 5-11, 2014

- 2014 Co-organizer Technical Session “Forest owners and climate change adaptation” IUFRO WC: *Sustaining Forests, Sustaining People: The Role of Research* Salt Lake City, Utah, USA: October 5-11, 2014
- 2014 Chairperson Session “Ecosystem services evaluation and policy making” *The Global Change Research Symposium*. Ostuni, Brindisi, Southern Italy on September 16-18, 2014
- 2014 Member of Scientific committee *The Global Change Research Symposium*. Ostuni, Brindisi, Southern Italy on September 16-18, 2014.
- 2014 Member of Scientific Committee REGIORESOURCES 2014 A cross-disciplinary dialogue on future perspectives for a sustainable development of regional resources Conference Regions in Transition – Restoring Environment, Landscapes and Services. September, 15 - 17 Katowice, Poland
- 2013 Symposium organizer: *Adaptive forest management approaches: A landscape Ecology Holistic view* (IALE-IUFRO WG) with João Azevedo. IALE European Congress *Changing European Landscapes: Landscape Ecology local to global*. September, Manchester UK
- 2013 Symposium organizer: *Geographic location matters: the potential of landscape functioning and trade-offs to contribute to ecosystem services provision* (EU FP7 OpenNess-Operas) with Marta Perez Soba IALE European Congress *Changing European Landscapes: Landscape Ecology local to global* ,. September, Manchester UK
- 2013 Member of Scientific Committee REGIORESOURCES 21 Conference - A cross-disciplinary dialogue on sustainable development of regional resources. September 18-20, 2013 Department of Architecture, University of Catania (Italy)
- 2012 Symposium organizer “Structure matters – the potential of land-use pattern to contribute to ecosystem services provision”. 4th International ECOSUMMIT Ecological Sustainability Restoring the Planet Ecosystem Services. Columbus, Ohio USA 30 Sept.-5 Oct. <http://www.ecosummit2012.org/>
- 2012-13 Member of Scientific Committee **16th AGILE International Conference on Geographic Information Science**, Leuven (Belgium) **14-17 May 2013**
- 2011-12 Member of Scientific Committee **The 15th AGILE International Conference on Geographic Information Science** . Avignon 24-27, France <http://agile2012.imag.fr/index.php/call-for-paper>
- 2011-2012 Member of Scientific Committee: Biannual Conference **IUFRO Working Party Forest Landscape Ecology: Sustaining Humans and Forest in changing landscapes: Forest, Society and Global Change**. Symposium organizer: **The impact of land-use and land-use change pattern on the provision of ecosystem services**. Universidad de Concepcion, Chile, 5-12 November, 2012. <http://www.iufrole2012.cl/>
- 2012 Member of Scientific Committee IALE-ASADEP (Argentine Association for Landscape Ecology – IALE Chapter) Annual Conference
- 2011 Member of Scientific Committee the 8th **IALE WC landscape ecology for sustainable environment and culture** Beijing, China 18-23 August. Symposium Organization & Chair: **Landscape Connectivity and its implications for Conservation Management and planning**

- 2011 Member of Scientific Committee «5^{èmes} Journées d'Ecologie du Paysage – IALE France» Aix-en-Provence , 7-10 Novembre
- 2011 Member of Scientific Committee **RegioResources** – A cross disciplinary dialogue on sustainable development of regional resources Member of Scientific Committee; BOKU, Dresden, Germany (May 17-20)
- 2011 Member of Scientific Committee & Chair of the Scholarships Committee: The **8th IALE World Congress 2011** <http://www.iale2011.org/page.asp?id=109> Bijing, China
- 2010 Organisation Workshop : « Méthodologies de monitoring, de gestion forestière et de conception/construction d'indicateurs environnementaux complexes », Grenoble, France
- 2010 **XXIII IUFRO World Congress Forests for the Future: Sustaining Society and the Environment.** Organisation with Dr K. Sugimura (Japan) **Technical session:** "Assessing the effects of forests management on biodiversity over large landscapes: tools, trends and implications for conservation" In - Seoul – August 22-28 -
- 2010 Member of Scientific Committee: LandMod **2010 International Conference on Integrative Landscape Modelling** <http://www.umn-lisah.fr/rtra-projects/landmod2010>. Montpellier France Feb 3-5. Chairperson session: « *Modelling biodiversity in landscapes* »
- 2010 Chairperson session: « Modelling biodiversity in landscapes » **LandMod 2010 International Conference on Integrative Landscape Modelling** <http://www.umn-lisah.fr/rtra-projects/landmod2010>. Montpellier France Feb 3-5. Chairperson session: « *Modelling biodiversity in landscapes* »
- 2010 Member of Scientific Committee & Chair of the Scholarships Committee: Biannual Conference **Working Group IUFRO "Forest Landscape Ecology"** Conference Topic: FOREST LANDSCAPES AND GLOBAL CHANGE, New Frontiers in Management, Conservation and Restoration. Bragança, Portugal.
- 2009 Organisation Terrestrial corridors Symposium within the framework of ECONNECT Interreg EU-PROJECT. Presentation: connectivity & connectedness: state of the art, existing knowledge & gaps BERNIN, Isere, France - 3-6 November
- 2008-2009 Member of Scientific Committee and Organisation Committee: 2009 **First Latin American IALE Conference.** Landscape Ecology in Latin America: Challenges and Perspectives (Campos do Jordão, São Paulo, Brazil, 4-7 of October 2009)
- 2007-08 Member of Scientific Committee & Chair of the Scholarships Committee: Biannual Conference **Working Group IUFRO "Forest Landscape Ecology"** Conference Topic: "Forest Landscape Ecology and Forest Management Challenges and Solutions" September 16--18, 2008. Chengdu, Sichuan P.R. China
<http://research.eeescience.utoledo.edu/lees/IUFRO/2008MTG/>
- 2007 Member of Scientific Committee and Session Chair. Session: Biodiversity and Landscape Ecology as Applied to Remote Sensing. Biannual Conference: **ForestSAT' 07.** November 5-7 Montpellier, France <http://forestsat.teledetection.fr/>
- 2007 Organisation & Chair Session IALE World Conference, session topic: « **Forest fragmentation and biodiversity loss: The forgotten native forests** ». **IALE World Congress: Scientific**

Principles in Practice. July 2007, Wageningen, Netherlands. <http://www.landscape-ecology.org/>

- 2007 Scientific Committee & Session Chair ForumAlpinum 2007. **Plenary Session 3: Cooperation and decision-making in landscape management** *Luque S., Weixlbaumer N.* International Scientific Committee on Alpine Research (ISCAR) Engelberg, Switzerland. April 2007 www.iscar-alpineresearch.org
- 2007 Organisation Séminaire écologie des populations et modélisation: "Modelling animal populations in space and time: an IBM approach". Cemagref, Grenoble 2007
- 2007 Organisation programme des échanges et Séminaire Rutgers University-Cemagref: "forest change and bio-regional conservation planning in the Highlands of the MidAtlantic" (Prof. Richard Lathrop, Director CRSSA) Cemagref, Grenoble 2007
- 2007 Organisation de la réunion de travail à Cemagref Grenoble de l'IALE Comité exécutive. Cemagref, Grenoble 2007
- 2006 Session Chair: **Species Diversity in Forest landscapes. IUFRO** : Landscape Ecology Specialty Group Conference: "*Patterns and Processes in Forest Landscapes: Consequences of Human Management*". Locorotondo, September 26-29; Bari, Italy.
- 2006 Scientific Committee ISCAR, in preparation of the *ForumAlpinum*. Reunion International Scientific Committee on Research in the Alps ISCAR, Zurich Switzerland 1-2 September 2006.
- 2006 Organisation Alter-Net (EU-FPVI) Workshop sub project R3 : indicators to monitor changes and conservation in Natura 2000 sites : a focus on drivers, pressures and states GRENoble - 16-18 octobre
- 2006 Organisation **Workshop R3 "Meta-analysis – Activity Group" Grenoble, France 3-5 April 2006** AlterNET (A Long-term Biodiversity, Ecosystem and Awareness Research Network – EU-FPVI)
- 2006 Coordination & Organisation International Workshop: "**Understanding Biodiversity Loss A Workshop on Forest Fragmentation in South America** " 26 – 30 June San Carlos de Bariloche, Argentina. http://www.grenoble.cemagref.fr/workshop_bariloche
- 2006 Organisation of Preliminary Workshop : "**Mobilisation de l'expertise scientifique en appui aux négociations internationales**" (funded by Ministère de l'écologie et du développement durable **MEDD**) Grenoble, France 16 – 17 May, participation Cemagref Grenoble, Cemagref/ENGREF Montpellier, IFN France, Universidad Nacional del Comahue, Bariloche, Argentina, Universidad Austral de Chile, Valdivia, Instituto Multidisciplinario de Biología Vegetal Universidad Nacional de Córdoba, Argentina.
- 2005 Organisation Committee 1st IALE Conference in Argentina " PRIMERAS JORNADAS ARGENTINAS DE ECOLOGÍA DE PAISAJES" Buenos Aires, GEPAMA, UBA, IALE. November 2005
- 2005 PEER (Partnership for European Environmental Research) Seminar. Global Earth Observation and Environmental Monitoring: The role of geoinformation. Sandra Luque (Cemagref) **session co-ordinator & rapporteur: "Biodiversity and ecosystem modelling"**. Montpellier, FRANCE.

- 2005 BIOPRESS Final meeting - Key findings, recommendations and GMES Lessons Learnt. **Biodiversity Pressures** (Luque, S. representing WP4300 - Oral presentation). Royal Museum for Central Africa Leuvensesteenweg Tervuren, 14 December Belgium <http://www.creaf.uab.es/biopress/outputs/Key%20findings-pressures.pdf>
- 2004 **Joint internal seminar** EU Projects BIOPRESS & EON2000+ organized by S. Luque (BIOPRESS) and Bernard-Brunet, J. (EON2000+). Cemagref, Groupement de Grenoble, France
- 2004 Organisation of **Steering Group Meeting** in relation to the project: '**A Hierarchical Approach to Protect Forest Biodiversity and to Assess Habitat Suitability in the Finnish Forest (PROHAB)**' – Dec 9th, Helsinki, Finland. 'Metsien monimuotoisuuden suojelu ja elinympäristöjen laadun määrittäminen - hierarkkinen lähestymistapa' - <http://www.metla.fi/hanke/3241/prohab/>
- 2004 METLA -Presentation for the NFI French Delegation (Including Claude Vidal, Director) hosted by METLA. S. Luque presentation: **Biodiversity indicators derived from NFI data**. Helsinki, Finland.
- 2004 METLA -Several Presentations for NFI delegations hosted by METLA from Korea, Japan, Chile. S. Luque presentation: **Landscape ecology biodiversity monitoring and related indicators derived from NFI data**. Helsinki, Finland.
- 2004 PEER (Partnership for European Environmental Research) Conference– “Use of Indicators for Sustainability”. November 17-18 2004 Helsinki, Finland- **Chairperson & rapporteur: Biodiversity session II :-Biodiversity Indicators within the DPSIR framework - presenter: Operationalisation of Biodiversity indicators from forest reporting systems based on NFI (National Forest Inventory) data**. Helsinki, Finland.
- 2003 METLA 2003, Presentation for a visiting group at METLA interested in Forest Inventory methods from INDIA Presentation held at METLA, Helsinki, May 22. Topic presented : **MS-NFI Data in Landscape Ecology**; Helsinki, Finland.

KEYNOTE SPEAKER & INVITED SPEAKER MEETINGS & SYMPOSIA
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- 2015 **Invited Seminar presenter** “Scaling up: Understanding Landscape Patterns into processes in answer to conservation needs” Centre for Biological Diversity (CBD) University of St Andrews / School of Biology; April 2015
- 2014 **Keynote sub-plenary session** “Forest biodiversity, ecosystem services and human well-being – harnessing biodiversity for adaptation to global change” **IUFRO WC** presenting “Forest landscape heterogeneity and local plant species richness effects: A proxy for biodiversity monitoring?” Salt Lake City, Utah, USA: October 5-11, 2014
- 2014 **ESCom Working Group** Changes and Scenarios invited presentation entitled “Identification of ways to incorporate the notion of ecosystem services into regional management: models and scenarios”, at the Science Workshop on 29th April. Edinburgh Centre for Carbon Innovation 29th April – 1st May 2014
- 2014 Invited presentation Seminar Series **James Hutton Institute** “A spatial-explicit scenario analysis for assessing the effects of land cover changes on ecosystem services” April, Aberdeen, UK

- 2014 Invited presentation Seminar Series **CREEM Centre for Research into Ecological and Environmental Modelling** “A landscape approach to habitat modelling: using GIS and high resolution remote sensing data in answer to conservation needs”. April, St Andrews. University of Saint Andrews, UK
- 2013 I-POWER Seminar Series “The Uses of Spatial Data” School of Geography and Geosciences, University of Saint Andrews. 20th November UK
- 2011 *Continuités entre milieux ouverts et milieux forestiers : exemple de la circulation des amphibiens*. **Invited speaker**: French Regional Parks Association. November. Paris, France
- 2011 *A holistic approach to evaluate forest biodiversity management strategies and related ecosystem services* **Invited speaker** IALE WC Symposium “Landscape services in a changing environment” organized by F. Kienast (WSL), Olaf Bastian (IOER Dresden) The 8th IALE WC *landscape ecology for sustainable environment and culture* Beijing, China 18-23 August
- 2011 *The challenge to forest adaptive management: operational tools for the maintenance of biodiversity value*. **Key note invited speaker** II Seminário Inventário Florestal, Apresentação dos resultados IFFSC, Fundação Universidade Regional de Blumenau – Furb, Blumenau, Estado do SC, Brazil, 4-6 May
- 2011 *Evaluation and Resources Assessment at the Landscape Level*. **Introductory Lecture**: Science and Practice - RegioResources – A cross disciplinary dialogue on sustainable development of regional resources Member of Scientific Committee; TU-Dresden, Germany, May 17-20.
- 2011 Invited Key Note Speaker “The challenge to forest adaptive management: operational tools for the maintenance of biodiversity value” Inventário Florístico Florestal de Santa Catarina (IFFSC) Conference Universidade Regional de Blumenau (FURBR) Recursos da Fundação de Amparo à Pesquisa e Inovação de Santa Catarina (FAPESC) e do Serviço Florestal Brasileiro (SFB). Blumenau 4 -6 May. Brazil
- 2010 “Mapping Forest Biodiversity Services” in PEER workshop (Partnership for European Environmental Research): **Novel methods to map ecosystem services**. ANTONY (PARIS) - December 9th. France
- 2010 An **Integrated Approach to evaluate biodiversity management strategies and related forest Ecosystem services**. In ALTER-Net (A Long-term Biodiversity, Ecosystem and Awareness European Research Network) seminar: Ecosystem services and Biodiversity: what is the link between the two? Vienna, Austria November 3-4.
- 2010 Luque, S. **A landscape approach to sustainable forest management**. Invited Symposium: “The challenge to adaptive management and the maintenance of biodiversity value” IUFRO Landscape Ecology Working Group International Conference: Forest Landscapes and Global Change - New Frontiers in Management, Conservation and Restoration. Forests Landscape Ecology International Conference IUFRO 2010, Bragança, Portugal.
- 2010 “An integrated approach to evaluate and design biodiversity management strategies and forest ecosystem services”. **Invited Session** “Scientific theory and practical realities in sustainable forestry” By US Forest service J. Barbour. In XXIII IUFRO World Congress Forests for the Future: Sustaining Society and the Environment- SEOUL , August 22-28.
- 2010 “Forest habitat quality assessment for planning conservation, and management strategies over European forest landscapes” **Invited Session**: Biodiversity Conservation and Sustainable

- Use of Forest Resources. In XXIII IUFRO World Congress Forests for the Future: Sustaining Society and the Environment- SEOUL , August 22-28.
- 2010 Luque, S. "Modelling forest and natural ecosystems: *A landscape approach to sustainable forest management and habitat quality modeling*" **Keynote** speaker session at the Modelling forest and natural ecosystems: **LandMod 2010** International Conference on Integrative Landscape Modelling <http://www.umn-lisah.fr/rtra-projects/landmod2010>. Montpellier France Feb 3-5.
- 2010 FORCOP Commission : « Forêt Mixte Finlande-France », Représentante France (Cemagref) « Forest Biodiversity Concepts and Principles » Soreze, France – (March 10-12)
- 2009 Luque, S. "A Landscape approach to Sustainable Forest Management using biodiversity conservation as a proxy. **Keynote In symposium:** A Forest Landscape perspective to management. Is a sustainable forest management possible? IALE 2009 Conference, Campos do Jordão, São Paulo, Brazil, 4-7 of October 2009
- 2009 Terrestrial corridors connectivity & connectedness: state of the art, existing knowledge & gaps. **Keynote** In *International workshop: Sharing knowledge for the implementation of an ecological continuum within and beyond the Alps*. ECONNECT Restoring the web of life, International Workshop Grenoble 3 - 6 November
- 2008 Invited speaker on **AlterNet** Meeting (R3: *drivers and pressures on biodiversity*). Progress on Project: **Indicators to monitor changes and conservation in Natura 2000 sites: a focus on drivers, pressures and states** Debrecen 05-08 February 2008.
- 2007 Indicators to Monitor changes and conservation in Natura 2000 sites: A focus on drivers, pressures and states. Invited speaker Session: *European Monitoring*. IALE World Conference, session topic: « **Forest fragmentation and biodiversity loss: The forgotten native forests** ». **IALE World Congress: Scientific Principles in Practice**. July 2007, Wageningen, Netherlands. <http://www.landscape-ecology.org/>
- 2006 Invited speaker on **AlterNet R3** Meeting (drivers and pressures on biodiversity). Progress on Project: **Indicators to monitor changes and conservation in Natura 2000 sites: a focus on drivers, pressures and states** Uppsala 18-21 September 2006..
- 2006 Luque, S. **Indicators to monitor changes and conservation in Natura 2000 sites: a focus on drivers, pressures and states**. Invited speaker, AlterNet (A Long-term Biodiversity, Ecosystem and Awareness Research Network - FPVI) workshop: Impacts of the main anthropogenic and natural drivers and pressures on biodiversity (Lead: Stefan Klotz & Lars Lundin). Hamburg, Germany. February 17-18.
- 2005 Luque, S. "**Quantifying pressures on biodiversity to Understand Spatial Patterns**". **Center for Environmental management** (CEM), School of Geography, University of Nottingham, UK. IALE Workshop "*Current Trends in Landscape Ecology*" Presented by IALE officers, S.Luque **Invited Speaker** as IALE Vice-President:
- 2005 BIOPRESS Final meeting - Key findings, recommendations and GMES Lessons Learnt. **Biodiversity Pressures** (Luque, S. representing WP4300 - Oral presentation). Royal Museum for Central Africa Leuvensesteenweg Tervuren, 14 December Belgium <http://www.creaf.uab.es/biopress/outputs/Key%20findings-pressures.pdf>
- 2005 International Conference on Biodiversity, Science and Governance. **Invited panelist** WORKSHOP 12: Biodiversity Indicators and the 2010 target: Scientific challenges in meeting and assessing progress towards the 2010 biodiversity targets and related goals – **Round-Table**. Indicators of sustainable development (panelist John Hutton, IUCN, T. Schaaff,

- Unesco, FAO, the CBD Global Strategy for Plant Conservation, B. Dias, Brazil, and S. Luque, Cemagref). Paris, UNESCO, January 24-28.
- 2004 PEER (Partnership for European Environmental Research) Conference– “Use of Indicators for Sustainability”. November 17-18 2004 Helsinki, Finland- **Chairperson & rapporteur: Biodiversity session II :-Biodiversity Indicators within the DPSIR framework - presenter: Operationalisation of Biodiversity indicators from forest reporting systems based on NFI (National Forest Inventory) data**
- 2004 PEER (Partnership for European Environmental Research) Conference– “Use of Indicators for Sustainability”. November 17-18 2004 Helsinki, Finland. **Land use and land cover SESSION:** France Gerard, Sandra Luque. **BIOPRESS: how to translate land cover change into pressures on biodiversity?** Presentation by S. Luque
- 2004 **Invited speaker**, Laboratoire d'Ecologie Alpine LECA-GPB, Seminar series: **'Biodiversity assessment, landscape patterns & spatio-temporal scales'**. Université Joseph Fourier, Grenoble France
- 2003 **Invited speaker** International Association for Landscape Ecology - Invited paper **Biodiversity Assessment and Patterns of Change in Boreal Landscapes**. (Oral presentation): Symposium 'Studying landscape change: indicators, assessment and application' - World Congress 2003, Crossing Frontiers - Landscape Ecology Down Under: Building Bridges Between Cultures, Disciplines and Approaches. Darwin, Australia July 13-17th July.
- 2003 **Invited speaker** , Plant Ecology Research Group seminar series: **'Multi-source forest inventory data for biodiversity monitoring and planning at the forest landscape level'**. University of Helsinki, Biocenter (Viiki). Finland
- 2002 **Invited speaker**, Plant Ecology Group - **'Landscape Indicators for Boreal Forest Assessment'**. METLA, Vantaa Research Centre. Finland
- 2000 **Invited speaker**, 'Environment Society and Development Group'. Lunch Seminar Series, Geography Department. University of Cambridge, Cambridge. UK.
- 1998 **Invited speaker**, Land-use Seminars - School of Agricultural and Forest Sciences, University of Wales, Bangor. UK
- 1997 **Invited speaker**, Remote Sensing/GIS Seminars Series. Geography Department. University of Cambridge, Cambridge. UK.
1997. **Invited speaker & participant**, USRA-IAI (Universities Space Research Association - Inter-American Institute for Global Change Research). Participant in the Education and Training Workshop (<http://www.usra.edu/iai/sandiego.html>). San Diego State University, California. January.

PUBLICATIONS (Peer review indexed)

- Lukas Bunse, Olivia Rendon , Sandra Luque (2015) What can deliberative approaches bring to the monetary valuation of ecosystem services? A literature review *Ecosystem Service* 14:88–97
- Christine Fürst, Paul Opdam, Luis Inostroza, Sandra Luque. (2014) *A balance score card tool for assessing how successful the ecosystem services concept is applied in participatory land use planning*. *Landscape Ecology* 29(8): 1435-1446 DOI 10.1007/s10980-014-0052-9
- Redon M., Luque S., Gosselin F. & Cordonnier T. (2014). **Is generalisation of uneven-aged management in mountain forests the key to improve biodiversity conservation within forest landscape mosaics?** *Annals of Forest Science: Volume 71(7): 751-760*
- Redon, M., Berges L., Cordonnier, T., Luque S. (2014). **Effects of increasing landscape heterogeneity on local plant species richness: how much is enough?** *Landscape Ecology*, 29(5): 773–787 DOI 10.1007/s10980-014-0027-x
- Iverson L.; C Echeverria; L Nahuelhual; S Luque (2014). **Ecosystem services in changing landscapes: An introduction**. *Landscape Ecology* 29(2): 181-186
- Luque S. 2014; Book Review: *Ecosystem Services, Biodiversity and Environmental Change in a Tropical Mountain Ecosystem of South Ecuador*. (edited by Bendix et al. ; *Ecological Studies*, Vol 221 Springer 438pp.). *Mountain Research and Development (MRD)* Vol 34(3)
- Thierion V., S. Alleaume, C., Jacqueminet, C. Vigneau, J. Renaud, K. Michel, V. Breton, S. Luque (2014). The potential of Pléiades imagery for vegetation mapping: an example of grasslands and pastoral environments *IEEE-Revue Française de Photogrammétrie et de Télédétection (RFPT)* 28 :105-110
- Adra W, Delcros P and Luque S 2013; **Landscape Structure Indicators as a Key Feature in Habitat Selection: an Operational Approach to Conservation Planning** *J Biodiversity & endangered species* 1(2):2-10 doi: 10.4172/jbes.1000107
- Luque S., Saura S., Fortin MJ. 2012. **Landscape connectivity analysis for conservation: insights from combining new methods with ecological and genetic data** *Landscape Ecology* 27:153-157 DOI 10.1007/s10980-011-9700-5
- Decout S., Manel S., Miaud C., Luque, S. 2012. **Integrative approach for landscape-based graph connectivity analysis: a case study with the common frog (*Rana temporaria*) in human-dominated landscapes**. *Landscape Ecology* 27:267-279 DOI 10.1007/s10980-011-9694z
- Paillet, Y. L. Bergès, J. Hjältén, P. Ódor, C. Avon, M. Bernhardt-Römermann⁵, R.J. Bijlsma, L. De Bruyn, M. Fuhr, U. Grandin, R. Kanka, L. Lundin, S. Luque, T. Magura, S. Matesanz, M.-T. Sebastià, W. Schmidt, T. Standovár, B. Tóthmérész, A. Uotila, F. Valladares, K. Vellak, R. Virtanen 2010. **Biodiversity response to forest management varies widely with taxonomic and ecological groups: a meta-analysis on species richness in Europe** *Conservation Biology* 24(1): 101-112
- Paillet, Y. L. Bergès, J. Hjältén, P. Ódor, C. Avon, M. Bernhardt-Römermann⁵, R.J. Bijlsma, L. De Bruyn, M. Fuhr, U. Grandin, R. Kanka, L. Lundin, S. Luque, T. Magura, S. Matesanz, M.-T. Sebastià, W. Schmidt, T. Standovár, B. Tóthmérész, A. Uotila, F. Valladares, K. Vellak, R. Virtanen 2010. **Biodiversity in managed and unmanaged forests: compromises in data selection for meta-analysis do not mean compromised results**. *Reply to Halme et al. Conservation Biology Comment* Volume 24(4), 1157–1160..
- F. Gerard, S. Petit, G. Smith, A. Thomson, N. Brown, S. Manchester, R. Wadsworth, G. Bugar, L. Halada, P. Bezák, M. Boltziar, E. De badts, A. Halabuk, M. Mojses, F. Petrovic, M. Gregor, G. Hazeu, C.A. Mücher, M. Wachowicz, H. Huitu, S. Tuominen, R. Köhler, K. Olschofsky, H. Ziese, J. Kolar, J. Sustera, S. Luque, J. Pino, X. Pons, F. Roda, M. Roscher, and J. Feranec **Land cover change in Europe between 1950 to 2000 determined employing aerial photography** 2010. *Progress in Physical*

Geography, vol. 34: pp. 183 - 205.

- Opdam, P., Luque, S., Jones, K. - 2009. **Changing landscapes to accommodate for climate change impacts: a call for landscape ecology**. *Landscape Ecology*, vol. 24, n° 6, p. 715 – 721
- Juutinen, A.; Luque, S.; Mönkkönen, M; Vainikainen, N. ; Tomppo, E. 2008. **Cost-effective forest conservation and criteria for potential conservation targets: A Finnish case study**. *Environmental Science & Policy* 11:613-626
- Kallio M., Hänninen R., Vainikainen N. and Luque S. 2008 **Biodiversity value and the optimal location of forest conservation sites in Southern Finland**. *Ecological Economics* 67:232-243
- Luque S., Pino J., Basnou C., Swetnam R., Múcher C.A., Hazeu G , Halada L. , Gerard F. 2007. **Indicators to Monitor changes and conservation in Natura 2000 sites: A focus on drivers, pressures and states**. In 25 Years of Landscape Ecology: Scientific Principles in Practice. Proceedings of the 7th IALE World Congress Part I. Bunce R.G.H., Jongman R., Hojas L., & Weel S. (eds). Pages 547-548.
- Luque S., Joensuu J., Romero R., Tomppo E. 2006. **Changes in the Finnish forest landscape: a multicriteria biodiversity assessment approach**. *Landscape and Urban Planning*. Special issue on Biodiversity Indicators
- Romero R., and Luque S. 2006. **Habitat quality assessment using Weights-of-Evidence based GIS modelling: The case of *Picoides tridactylus* as keystone species indicator of the biodiversity value of the Finnish forest**. *Ecological Modelling* 196: 62-76
- Rautjärvi N., Luque, S. 2005. A Hierarchical Approach to Protect Forest Biodiversity and to Assess Habitat Suitability in the Finnish Forest. In **ForestSAT Proceedings**: Sweden. Håkan Olsson (editor), pp 123-127. Life/IUFRO/ISPRS.
- Rautjärvi N., Luque, S., and Tomppo, E. 2004. Mapping spatial patterns from National Forest Inventory data: a regional conservation planning tool. In **GGRS Proceedings**: Göttingen GIS & Remote Sensing Days. Kleinn C., Nieschulze J., Sloboda B. (editors), **Remote Sensing and Geographical Information Systems for Environmental Studies – Applications in Forestry**. Pp. 293-302, Göttingen, Germany.
- Luque, S., Riutta, T., Joensuu, J., and Tomppo, E. 2004. Spatial Analysis and Remote Sensing for Biodiversity Monitoring and Planning at the Forest Landscape Level. In **Actes Hermes-science CASSINI'04** – 7ème Conference GDR SIGMA – Géomatique et Analyse Spatiale, pp 149-155
- Luque, S., Riutta, T., Joensuu, J., Rautjärvi, N. and Tomppo, E., 2004. **'Multi-source Forest Inventory Data for Biodiversity Monitoring and Planning at the Forest Landscape Level'**. In: M. Marchetti (Editor), **Monitoring and Indicators of Forest Biodiversity in Europe - From Ideas to Operationality**. *European Forest Institute Proceedings* N° 51 pp. 430-444. Joensuu, Finland
- Luque, S. 2000. **Evaluating Temporal Changes Using Multispectral Scanner and Thematic Mapper Data on the Landscape of a Natural Reserve: The New Jersey Pine Barrens, a Case Study**. *International Journal of Remote Sensing Special Issue Remote Sensing and Landscape Ecology: Landscape Patterns and Landscape Change* 21(13&14):2589-2611.
- Luque S. 2000. **The Challenge to Manage for the Biological Integrity of Nature Reserves: A Landscape Ecology Perspective**. *International Journal of Remote Sensing Special Issue Remote Sensing and Landscape Ecology: Landscape Patterns and Landscape Change* 21(13&14):2613-2643.
- Luque, S, R. G. Lathrop Jr, and J. A. Bognar. 1994. **Temporal and Spatial Changes in the New Jersey Pine Barrens Landscape**. *Landscape Ecology* 9(4):287-300.

BOOK CHAPTERS

- Luque Sandra and Louis Iverson (2016): Ecosystem Services in a Biome context: **Forest-related Ecosystem Services**. In: Haynes-Young, R., Potschin, M., Fish, R., Turner, R.K. Handbook of Ecosystem Services; Earthscan from Routledge 640 Pages
<https://www.routledge.com/products/9781138025080>
- Luque, S.; Martínez Pastur, G. Echeverría, C. Pacha. M.J. "**Overview of biodiversity loss in South America: A landscape perspective for sustainable forest management and conservation**". Pp. **357-384** In **Springer Series** (USA) 2010 **LANDSCAPE ECOLOGY AND FOREST MANAGEMENT Challenges and Solutions in a Changing Globe** Li, C., Laforteza R., and Chen J. (eds.).
- Luque, S. and Vainikainen N. 2008. **Habitat Quality Assessment and Modelling for Biodiversity Sustainability at the Forest Landscape Level**. Pp.241-264. In Laforteza R., Chen J., Sanesi G. and Crow T. (Eds) Patterns and Processes in Forest landscapes: Multiple Use and Sustainable management – Part III Landscape-scale indicators and projection models. **Springer publications** 370 pages.
- Pacha, M.J., Luque, S., Galetto, L. and Iverson, L (Eds.). 2007. **Understanding biodiversity loss: an overview of forest fragmentation in South America**, Pp. 252-379. **IALE Landscape Research and Management papers** ISSN: 1570-6532. International Association of Landscape Ecology (IALE). 155 p.
- Joachim Maes, Leon Braat, Kurt Jax, Mike Hutchins, Eeva Furman, Mette Termansen, Sandra Luque, Maria Luisa Paracchini, Christophe Chauvin, Richard Williams, Martin Volk, Sven Lautenbach, Leena Kopperoinen, Mart-Jan Schelhaas, Jens Weinert ,Martin Goossen, Egon Dumont, Michael Strauch, Christoph Görg, Carsten Dormann, Mira Katwinkel, Grazia Zulian, Riku Varjopuro, Jennifer Hauck, Martin Forsius, Geerten Hengeveld, Marta Perez-Soba, Faycal Bouraoui, Mathias Scholz, Christiane Schulz-Zunkel, Ahti Lepistö, Yuliana Polishchuk, Giovanni Bidoglio. 2011. **A spatial assessment of ecosystem services in Europe: methods, case studies and policy analysis**. PEER report, Italy. 162 Pp
- France Gerard, Mirko Gregor, Luque Sandra, Huitu Hanna, Raul Köhler, Konstantin Olschofsky, Gerard Hazeu, Sander Mucher Luboš Halada, Gabriel Bugár, Joan Pino. 2006. **Land cover change in Europe from the 1950'ies to 2000: Aerial photo interpretation and derived statistics from 59 samples distributed across Europe**. BIOPRESS LINKING PAN-EUROPEAN LANDCOVER CHANGE TO PRESSURES ON BIODIVERSITY. Edited by Raul Köhler, Konstantin Olschofsky. **University of Hamburg, World Forestry Institute**, Germany. 309 pages
- Luque, S., Riutta, T., Joensuu, J., Rautjärvi N., Tomppo Erkki, 2004 '**Multi-source Forest Inventory Data for Biodiversity Monitoring and Planning at the Forest Landscape Level**'. In: M. Marchetti (Editor), Monitoring and Indicators of Forest Biodiversity in Europe - From Ideas to Operationality. *European Forest Institute* Proceedings N° 51 pp. 430-444; Joensuu, Finland
- Luque, S. 1999. *Use of Geographic Information Systems for Mineral Resources and Environmental Management*. In **UNCTAD** manual on Mining, Environment and Development, edited by Brian Chambers. Conference des Nations Unies sur le Commerce et le Développement, Genève, Suisse. 160 pages.
- Luque, S. 1987 *Política Agropecuaria para la Region Pagónica* (Agricultural Policy for the Patagonia). National Academy of Agricultural and Veterinary Sciences; Buenos Aires, Argentina. 205 pages.

- Luque, S. Luque, J.A. 1987. *Caracterización y Zonificación de los Recursos Naturales de los Departamentos de General Güemes y General San Martín*. p. 48-61 & 3 maps In: "Plan de Desarrollo Integral de 500,000 ha, en los Departamentos de Gral. Güemes y Gral San Martín". 2 vols. Pp 215. *Grimaux Consult* (eds.). *Government of the Chaco Province*. Argentina.
- Luque, S. 1987. *Planificación para el Desarrollo*. p. 160-174 In: "Plan de Desarrollo Integral de 500,000 ha, en los Departamentos de Gral. Güemes y Gral San Martín". 2 vols. Pp 215. *Grimaux Consult* (eds.). *Government of the Chaco Province*. Argentina.
- Luque, J.A. and S. Luque. 1987. *Desarrollo de la Agricultura Regadía en el Área*. p 82-122 & 2 maps In: "Plan de Desarrollo Integral de 500,000 ha, en los Departamentos de Gral. Güemes y Gral San Martín". 2 vols. Pp 215. *Grimaux Consult* (eds.). *Government of the Chaco Province*. Argentina.

THESES AND DISSERTATIONS

- Luque, S. 2008 *Patterns and Processes in a Changing World : A forest landscape perspective*. **HDR** (Habilitation à Diriger des Recherches) Université Joseph Fourier Grenoble I, France. 117 pages + Annexes
- Luque S. 1996. *Structure and Dynamics of the New Jersey Pine Barrens Landscape*. **Ph.D. Dissertation**. *Rutgers, The State University of New Jersey*. New Brunswick, NJ, USA 275 pages.
- Luque, S. 1992. *Natural and Human Processes Interacting to Cause Landscape Change in the New Jersey Pinelands*. **MSc. Thesis**. *Rutgers, The State University of New Jersey*. New Brunswick, NJ, USA 105 pages.
- Luque, S. 1986. *Evaluación de la Degradación de los Suelos en un Área Bajo Riego en el Valle Inferior del Río Chubut, Patagonia*. **Thesis of "Licenciatura" (eq. MS2, France)-Universidad Nacional del Sur**. Bahía Blanca, Argentina. 45 pages.

A selection of PUBLICATIONS IN SCIENTIFIC PROCEEDINGS

Luque, S. 2015. Spatial-explicit changes on ecosystem services, tradeoffs and conflicts assessment for planning futures. In Symposium Ecosystem Services in Changing Landscapes: How to assess tradeoffs and land use options? Publisher Institute of Landscape Ecology, Slovak Academy of Sciences, Constantine the Philosopher University in Nitra 17th International Symposium Landscapes & Landscape Ecology 27 – 29 May, 2015

Tenerelli P., Thierion V., Parmentier C., Cordonnier T. , Gonzalez J. , Luque S., 2014. Mainstreaming ecosystem services: which needs and opportunities for mountain areas? 3rd International Conference: Biodiversity and Food Security – From Trade-offs to Synergies, October 29-31, 2014, Aix-en-Provence, France.

Luque, S., Redon, M., Cordonnier, T., Berges, L 2014. Forest landscape heterogeneity and local plant species richness effects: A proxy for biodiversity monitoring. In Parrotta, J.A., Moser, C. F., Scherzer, J., Koerth, N. and Lederle, D. (eds) *The International Forestry Review* Vol. 16(5):118 IUFRO WC Proceedings: Sustaining Forests, Sustaining People: The Role of Research" Salt Lake City, Utah, USA, October 5-11, 2014. Commonwealth Forestry Association www.cfa-international.org ISSN 2053-7778

Luque, S. 2014 Operationalization of the concepts of ecosystem services and natural capital: forest ecosystem functioning and trade-offs. In Parrotta, J.A., Moser, C. F., Scherzer, J., Koerth, N. and Lederle, D. (eds) *The International Forestry Review* Vol. 16(5):121 IUFRO WC Proceedings: Sustaining

Forests, Sustaining People: The Role of Research” Salt Lake City, Utah, USA: October 5-11, 2014
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Thierion, V., Luque, S., Parmentier, C., Marechal, D., Cordonnier, T. 2014 Forest planners’ perception of future landscape trajectories: case study in a French forested mountainous region. In Parrotta, J.A., Moser, C. F., Scherzer, J., Koerth, N. and Lederle, D. (eds) The International Forestry Review Vol. 16(5):527 IUFRO WC Proceedings: Sustaining Forests, Sustaining People: The Role of Research” Salt Lake City, Utah, USA, October 5-11, 2014. Commonwealth Forestry Association www.cfa-international.org ISSN 2053-7778

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Luque S. ; V Thierion, T Sanz, D. Marechal, M. Isenmann. 2014. The potential of remote sensing and modeling techniques for vegetation mapping in complex mountainous areas. In Spatial Ecology & Conservation 2 Conference, University of Birmingham (UK), 17 to 20 June 2014. THEME 1: Realizing the full potential of remotely sensed data for conservation. Page 3 Conference Proceedings <http://www.ert-conservation.co.uk/sec2-themes.php>

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Luque, S.; Thierion, V.; Parmentier, C. 2012. Estimating two centuries of forest landscape changes at different spatio-temporal scales: Pressures vs. Mitigation IALE UK LANDSCAPE ECOLOGY: LINKING ENVIRONMENT AND SOCIETY 4-6 September University of Edinburgh 4 pages

Luque, S. 2011. ***Evaluation and assessment of forest landscapes: The challenge to adaptive management strategies*** (page 18). In ELI-The European Land Use Institute Regio Resources 2011 Conference, A cross disciplinary dialogue on sustainable development of regional resources 65 pp. Dresden, may 17-20.

Luque, S. ***The challenge to adaptive management and the maintenance of biodiversity value.*** In Book of Abstracts of the 2010 IUFRO Forest Landscape Ecology Working Group International Conference: Forest Landscapes and Global Change - New Frontiers in Management, Conservation and Restoration. João Carlos Azevedo, Manuel Feliciano, José Castro & Maria Alice Pinto (Eds)., Bragança, Portugal. ISBN: 978-972-745-111-1

Renaud, J., V. Breton & S. Luque 2010. ***A combined method using expert knowledge and remote sensing for habitat interpretation and mapping: A national level effort to map temperate forest habitats in France.*** *Proceedings Papers Forests Landscape Ecology International Conference IUFRO 2010*, Bragança, Portugal. ISBN: 978-972-745-111-1

Redon, M & Luque, 2010. S. ***Tengmalm owl (Aegolius funereus) and Pygmy owl as a surrogate for biodiversity value in the French Alps.*** *Proceedings Papers Forests Landscape Ecology International Conference IUFRO 2010*, Bragança, Portugal. ISBN: 978-972-745-111-1

Redon, M & Luque, 2010. Presence-only modelling for species distribution : Biodiversity monitoring in the French Alps. ***Proceedings Papers*** Conférence SAGEO (Geomatics and Spatial Analysis International Conference). TOULOUSE Nov. 17-19

Luque, S. 2010. An integrated approach to evaluate and design biodiversity management strategies and forest ecosystem services. In John Parrota and Mary A. Carr (Eds.) *The International Forestry Review. Forest for the Future: Sustaining Society and the Environment.* XXIII IUFRO World Congress, Seoul, Republic of Korea. Commonwealth Forestry Ass. ISSN 1465 5489, 508P

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DECOUT, S., MANEL, S., MIAUD, C., LUQUE, S. – 2010. **Connectivity loss in human dominated landscape: operational tools for the identification of suitable habitat patches and corridors on amphibian's population.** ***Proceedings Papers*** Landscape Ecology International Conference IUFRO 2010, Bragança, Portugal.

LUQUE, S., KALLIO, M. - 2009. **Approaches to Ecosystem services assessment and drivers of change in forest ecosystems.** *IOP Conference Series: Earth and environmental science*, vol. 6, 2 p.

LUQUE, S. - 2009. **A Landscape approach to sustainable forest management using biodiversity conservation as a proxy.** Latin American IALE Congress: Native forest fragmentation: effects on biodiversity loss and ecological processes. Is a sustainable forest management possible?, 05/10/2009 - 08/10/2009, Campos do Jordão, BRA. 1 p.

Luque, S. **Approaches to Ecosystem services assessment and drivers of change in forest ecosystems.** In IARU Proceedings (CD) Session 30 - Impact of Climate Change on Ecosystem. Climate Change Conference, Copenhagen 10-11 March 2009

REGOLINI, A., LUQUE, S. - 2009. **A Content Management System (CMS) to optimise the information and the communication between a North-South expert's network on forest fragmentation and biodiversity loss in South America.** XIII^o World Forestry Congress, 18-23 October, 2009, Buenos Aires, Argentina

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structures, functions and management: response to global ecological change”; CZ-IALE: 3-6th September 2009, Prague and Brno, Czech Republic. 608 pages.

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PACHA, M.J., LUQUE, S. - 2009. **La ecología del paisaje y su aplicabilidad a la conservación y manejo de bosques nativos en Sud América**. II jornadas ecología del paisaje ASADEP, 05/05/2009 - 08/05/2009, Cordoba, ARG. Cambios en la cobertura y uso de la tierra. Causas, consecuencias y mitigación : libro de resúmenes. p. 70 -

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Modelling the distribution and connectivity of bats in lowlands and mountain environments: A spatial operational approach towards conservation planning ". In Spatial Ecology & Conservation 2 Conference, University of Birmingham (UK), 17 to 20 June 2014.

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Modélisation de la distribution des espèces : Un outil pour l'évaluation, la conservation des habitats d'espèces et des continuités écologiques. Colloque Naturalité 18 septembre 2013 Chambéry, France (Projet Mochab) Poster

Intégration de la connectivité dans la planification et la conservation. Séminaire Irstea Trame Verte et Bleue des 20 et 21 juin, Antony France 2013

Participation Network Conference 4th ESP Conference - Ecosystem Services: Integrating Science and Practice 4- 7 October, 2011 Wageningen, The Netherlands.

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PEER seminar : "Concepts, methods and tools for the assessment of favourable conservation status of European habitats and species" Luque, S. ***Indicators to monitor changes and conservation in Natura 2000 sites***. Roskilde 23-25 May 2007.

AlterNET All Parties Conference- Palma Mallorca Presentation: **Thematic Session: Emerging issues in biodiversity research and challenges for ALTER-Net-** Indicators to monitor changes and conservation in Natura 2000 sites: A focus on Drivers, Pressures and States. 5-9 February 2007.

Mapping spatial patterns from National Forest Inventory data: A tool for a sustainable forest. Session: Modelling Forest Landscapes Across Regions and Scales. **IUFRO** : Landscape Ecology Specialty Group Conference: ***"Patterns and Processes in Forest Landscapes: Consequences of Human Management"*** . Locorotondo, September 26-29, 2006; Bari, Italy.

Participation on Open Conference Perspectives for the Future: Environmental, social and spatial change in a landscape ecological perspective. Department of Environmental, Social and Spatial Change (ENSPAC). Roskilde University. 17th November 2006

Reunion **IALE Executive Committee Meeting**, Roskilde University Denmark 16-20 November 2006. Invited as IALE Vice-President (International Association of Landscape Ecology). Representing IALE France, Argentine

Participation on **AlterNet Workshop Forest Core projects** Meeting. Goettingen, Germany 4-6 December 2006

Participation on **AlterNet R3** Meeting (drivers and pressures on biodiversity) Uppsala 18-21 September 2006.

Scientific Committee ISCAR, in preparation of the *ForumAlpinum* 2007. Reunion International Scientific Committee on Research in the Alps ISCAR, Zurich Switzerland 1-2 September 2006.

Reunion IALE Executive Committee Zurich 8-10 June 2006, as IALE Vice-President (International Association of Landscape Ecology). Representing IALE France, Brazil, Argentine

Participation **ECOFOR GROUP Meeting** « working group on forest biodiversity indicators » kick off meeting, Paris 23 May 2006.

Quantifying pressures on biodiversity to Understand Spatial Patterns: A temporal and Spatial approach. (oral presentation) Conférence **IALE France. Patrons et processus, Quels acquis pour l'Ecologie du Paysage ? Quelles orientations futures ?** 16-18 novembre, 2005. Marseille, France.

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BIOPRESS Brainstorm Workshop 2004. Wageningen, The Netherlands 29-30 January

Kick off meeting **EU-BIOPRESS Project**. Center for Ecology and Hydrology, Monks Wood England. 25-28 February 2003.

Final Presentation with steering Group Research consortium Tempos -Temporal and spatial diversity of boreal forest and peatland vegetation. Sandra Luque presented 'Analysis of structure and quality of forest landscape in Finland' - Metla, Helsinki, April 8 2003

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Assessing Habitat Suitability in Finnish Forests by Mapping Spatial Patterns Oral presentation & Poster, METSIEN MONIMUOTOISUUS - SESSIO 1 **MOSSE puolimatkassa**, Ministry of Environment. Hanasaari, Espoo, Finland. November 16-17, 2004.

Landscape Monitoring and Habitat Modelling - Novel Applications of Multi-source Forest Inventory Data. (Poster - Luque presented) **International Association for Landscape Ecology - World Congress 2003, Crossing Frontiers - Landscape Ecology Down Under: Building Bridges Between Cultures, Disciplines and Approaches.** Darwin, Australia 13-17th July 2003.

Improved methods of biodiversity assessment: comparison of spatial landscape metrics by pixel and image segment based approaches (Oral presentation). **ForestSAT Symposium on Operational Tools in Forestry using Remote Sensing Techniques**, Forestry Commission UK, Remote Sensing and Photogrammetry Society, LIFE/EU Project. Edinburgh 5 - 9 August 2002.

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The Identification of Patterns of Change and Vegetation Structure in the Bamenda Highlands, Cameroon, Africa. (Oral presentation) in Special session: B5 - **The Terrestrial Biosphere and Global Change - The Global Change Open Science Conference - Building Towards a New Science for Global Sustainability.** 10-13 July, 2001 Amsterdam

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Participation 26th Annual Conference of the UK Remote Sensing Society. **RSS2000 Adding Value to Remotely Sensed Data.** University of Leicester, Leicester UK. 12-14th September 2000.

Participation Spatial Modelling of the Terrestrial Environment. **Modelling and Advanced Techniques (MATSIG) and Geographical Information Systems (GISSIG) Remote Sensing Society Groups.** Birkbeck College, London, 17th, November 2000.

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Participation **Third Meeting on Landscape Planning**. Ministry of Agricultural Affairs. Universidad Nacional del Sur. Bahía Blanca, Argentina 1983.

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