

Cecilia Polansky

Participatory natural resource inventory, mapping, training English and French including French-to English translation

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Professional experience since 1982:

- *Indigenous forest management plan writing, mapping support*
- *Technical document translation French-English*
- *Timber and nontimber forest product inventory training, data collection, and analysis*
- *Environmental compliance documentation and evaluations*

Degrees:

Master of Science in Forest Resource Inventory - 2002 (University of Vermont)
 Bachelor of Science in Forest Management - 1990 (University of Vermont)
 Associate in Applied Science in Forest Technology - 1981 (State of Washington)

2018 <i>4 weeks</i>	Cocoa agroforestry shade tree quantification (<i>ACDI-VOCA/FIFES/ Climate Smart Cocoa</i>) Visited cocoa agroforestry fields to quantify and map timber shade trees for potential valuation as assistance to post-war farmers who need increased production.
2016 <i>6 weeks</i>	REDD+ strategy document development (<i>UNDP Congo-Brazzaville, under the direction of a consultant in charge of assembly and final content</i>) Research and synthesis of Country documents concerning REDD+ compliance, planning, and technical content for a multi-year integrated strategy
2013 - July 2016	Technical specialist on environment, governance, documentation, and M&E (Niger and Burkina Faso) (<i>USAID REGIS-ER resilience project</i>) Environmental documentation for water quality assurance, environmental examination, mitigation planning, pesticide review; governance and local convention natural resource management planning and mapping; monitoring and evaluation database design and implementation; assurance of documentation archiving.
2010 - 2012 <i>5 months</i>	Environmental compliance assessment (Senegal, Ethiopia, Niger) (<i>for USAID-funded Agric Projects under CLUSA and International Resources Group</i>) Programmatic Environmental Assessment for Feed the Future projects; Initial Environmental Examinations for project proposals; and Environmental Review documentation for various USAID-funded projects. Wrote chapters on potential area- and ecology-based impacts for assessment of agriculture-based work: small irrigation, rice, livestock, valley development. Provided basis for environmental indicators in project targets; recommended means to achieve compliance through mitigation plans.
2010 - 2011 <i>2 months</i>	Forest inventory and management specialist (Sierra Leone) (<i>for USAID PAGE project</i>) Advised on inventory integrated into community forest management planning; trained team in plot data collection and processing; supervised fieldwork; wrote terms of reference for mapping and botanical collection; provided image-based maps
2010 <i>1 month</i>	Forest management specialist (Mali) (<i>for U.S. Forest Service International Programs</i>) Participated on team to evaluate deforestation and solutions in rice irrigation resettlement scheme funded by MCC-Mali, for USAID Mali; recommended actions to improve access to fuelwood
2009 - 2011 <i>3months+</i>	GIS and aerial photography utilization consultant (Republic of Congo) (<i>for Winrock International under contract with ITTO</i>) - Used data from high-resolution photography for biomass inventory, wildlife conservation support, and forest exploitation monitoring. Proposed and executed scenarios to recuperate work with imagery from initial 2 year,s to calculate biomass/carbon.
2006 - 2009 <i>4 years</i>	Community-based forest management and biodiversity (Senegal) (<i>for Projet AG/GRN Wula Nafaa, BP 25-740, Dakar-Fann and Tambacounda</i>) <ul style="list-style-type: none"> ▪ Advised on content and analysis of Socio-economic studies; compiled, formatted, and translated technical presentations on project activities in forest, wildlife, fisheries

<p>2006-07 3 months</p>	<p>Forest inventory and management plan consultant (Senegal) (for USFS, USAID Agric/NRM)</p> <ul style="list-style-type: none"> ▪ Assisted US Forest Service in management plan guide and inventory advisory capacity
<p>2006 1 month</p>	<p>Forest management certification trainee and pre-assessment team member (Cameroun) (for Smartwood/Rainforest Alliance)</p> <p>Received and utilized training in forest certification; participated in pre-certification assessment in southern Cameroun; wrote a technical report.</p>
<p>2006 - 2009</p>	<p>Technical and documentation support provider (Senegal - French-speaking)</p> <ul style="list-style-type: none"> ▪ French and English translations, report and brochure design - Projet Wula Nafaa ▪ Agricultural programs synopsis written for Catholic Relief Services
<p>1999 - 2005 Full-time for 2 years; Part-time for 3 years</p>	<p>Participatory forest mgmt specialist for CBNRM projects (Zambia) (CLUSA-NRM, CARE Food Security Program; Zambia Trade/Investment; Provincial Forestry Action Program)</p> <ol style="list-style-type: none"> 1. Forestry office management for 2 years: Developed and supported field program with village-based facilitators, analyzed and integrated field data for 32,000 ha 2. Capacity-building for Forestry Department and facilitators included these topics: <ul style="list-style-type: none"> ▪ Inventory methods and mapping of results using participatory approaches that include input from villager forest users and SPOT imagery ▪ Village resource assessment techniques combining local knowledge, user group input, inventory data to write mgmt plans & calculate allowable annual cut 3. Assessment of Western Province forestry issues/ potential for USAID intervention 4. Assisted in drafting Zambia's National Joint Forest Management Guidelines booklet
<p>2003 1 month</p>	<p>Participatory inventory specialist (Senegal) (Senegal Agric/NRM Project, USAID/IRG)</p> <ul style="list-style-type: none"> ▪ Assessed informational and organizational prerequisites to inventory semi-arid <i>Combretum</i> and <i>vène</i> co-managed forest products in eastern Senegal ▪ Guided sensitization, GPS, and mapping procedures for moving the field program ahead
<p>2001-2002 2 months</p>	<p>Inventory issues consultant (Guinea- Conakry) (Projet Elargi de Gestion des Ressources Naturelles, USAID/Winrock) - 3 visits</p> <ul style="list-style-type: none"> ▪ Appraised work quality of sawyers, Forest Service, and University inventory crews ▪ Recommended improved, adapted field and analysis methods to help user groups ▪ Set up mapping office and provided GPS field training to forestry officers
<p>1996-2000 2 years</p>	<p>Researcher in forest fragmentation sampling and mapping methods (Graduate thesis, University of Vermont)</p> <ul style="list-style-type: none"> ▪ Data collection and analysis using aerial photography interpretation with GIS mapping ▪ Used index calculations to show trends in forest cover change 1941 to 1995
<p>1992-1996 4 years</p>	<p>Technical advisor to mapping and inventory unit (Benin) (Projet de Gestion des Ressources Naturelles, Volet Amgmt Forestier, World Bank)</p> <ul style="list-style-type: none"> ▪ Integrated sawyer input for forest surveys on 300,000 ha of national forest ▪ Trained Forest Service field crews in assembly and interpretation of photomosaics ▪ Assured inventory and mapping quality control ▪ Assembled multiple-use forest management plan with CLUSA-organized user groups ▪ Produced brochures and displays of participatory forest mgmt steps and activities
<p>1991-1992 2 years</p>	<p>State Lands Forester, Vermont (USA) State Agency of Natural Resources</p> <ul style="list-style-type: none"> ▪ Independently completed multiresource inventories and timber cruises; marked boundaries ▪ Worked with community-based Rails-to-Trails and Conservation Corps ▪ Assessed forest health for national surveys; performed aerial surveys

1988-1989 8 months	Forest health decline surveyor (Northeast US) Crew leader, U.S. Forest Service <ul style="list-style-type: none"> Motivated and assisted field crew in identification of disease and decline indicators, physical sampling, location of old plots and installation of new plots for long-term forest health monitoring in remote northeastern forests
1982-1986 3.5 years	Forest inventory trainer and field trip coordinator (Niger) (<i>Peace Corps Service, USAID Forest and Land Use Planning Project</i>) <ul style="list-style-type: none"> Supervised data collection and training during national inventory Planned fieldwork in remote Niger using satellite imagery and air photo interpretation Coordinated and led short Peace Corps training programs on sahelian techniques for natural regeneration, reclamation of soils, windbreaks, nursery operations
1987 2 months	Documentation and training advisor (Niger) (<i>Forest and Land Use Planning Project, USAID</i>) Produced a 30-minute documentary in French on natural forest management; contributed to establishment of a ministry-based sahelian forestry library
1986 2 months	Interim project forester (Niger) <i>CARE International</i> Provided guidance for rural herd reconstitution project on agroforestry and gardening component, collaborating with AFRICARE
1986 2 months	Project liaison facilitator (Niger) <i>Forestry technical school at Kolo; USAID</i> Identified ways to update training program to make it compatible with project needs; produced two 12-minute instructional videotapes of inventory techniques
1979-1981 12months	Inventory, fire, and timber stand improvement field forester (<i>U.S. Forest Service and private contracts in Idaho, Oregon, and Washington USA</i>) <ul style="list-style-type: none"> Conducted survival and stand exams Surveyed roads Ignited controlled burns; fought lightning fires Planted trees Thinned forest stands pre-commercially

LANGUAGES:

ENGLISH: Native language
Spanish: Basic

FRENCH: FSI level 3+ (excellent) written and verbal
Hausa, Cinyanja, Wolof: Limited

EDUCATION:

2001 Master of Science in Natural Resources Biometry, University of Vermont, USA (GPA 3.9)

- ArcInfo and ArcView geographic information systems
- Benefit-cost analysis
- Sample survey design
- Advanced forest biometry

1990 Bachelor of Science in Forest Management, University of Vermont (GPA 3.9)

- Environmental law
- Pathology
- Ecology
- Forest Valuation
- Management and linear programming
- Wildlife
- Harvesting

1981 Associate Applied Science, Forest Technology, Green River College, Washington (GPA 4.0)

- Practical silviculture
- Aerial photo interpretation
- Surveying

COMPUTER LITERACY: Excel, Word, Access, SAS, Power Point, Photo editor, Publisher, ArcView

OTHER BIODATA:

Membership: Society of American Foresters, Green Mountain Division, secretary and historical archives 1998; Intl Society of Tropical Foresters; Episcopal Church; WWF; Dakar Women's Group; American Translators Association (French to English)

Awards: Green River College Outstanding Student, 1981; Susan Whitmore writing award, Adams Academic, and Sigma Xi Academic Achievement awards, 1990; Outstanding Student Poster Award, SAF/Boise-Cascade Conference on Integrated Tools for Inventory 1998.

DOCUMENTS AND PUBLICATIONS:

ARTICLES

- 2004: Polansky, C. and J. Heermans. Developing forest management plans with high-tech tools and traditional knowledge in Zambia. *Journal of Forestry*, 101 (5) 46-51.
- 2003: Polansky, C. Participatory Forest Management in Africa: Lessons Not Learned. *Intl. Journal of Sustainable Development and World Ecology*, 10 (2003) 109-118.
- 1996: Polansky, C. Utilization of Human Experience in lieu of Raw Statistics in Estimating Tree Volumes in Benin, West Africa. Statistical methods course (Univ. of Vermont) and Student poster presentation 1998 at Boise-Cascade/USFS Integrated Tools for Inventory in 21st Century. 10 pages.

MEDIA PRESENTATIONS

- 1995, 2003, 2008: Brochures and slideshows for Benin, Zambia, Senegal forestry programs (Eng/French).
- 1985-87: Scripts in French for two 12- minute, and one 30-minute, videotaped productions of Sahel forestry themes: inventory plot methods and natural forest mgmt. Acted as producer.

MANUALS

- 2008: Guide d'Elaboration du Plan d'Aménagement Forestier Participatif. USAID-Wula Nafaa Program. BP 25-740, Dakar-Fann, Senegal. 46 pages.
- 2002-06: Guide to Low-Cost Forest Resources Inventory in Dry Tropical Forests of Africa. USAID/ Washington, Lusaka; Winrock Intl. 84 pages. www.ladyforester-tech.org/PptyInvManualPage.html

TECHNICAL REPORTS

- 2015-16: Water Quality Assurance Plan for USAID|REGIS-ER (Niger and Burkina Faso); PERSUAP pesticide review
- 2013-16: Editing and formatting of numerous technical reports and manuals for conservation agriculture, gardening, NRM, and health topics and periodic reports for USAID|REGIS-ER
- 2014: IEE amendment and EMMP for USAID|REGIS-ER agriculture and irrigation activities
- 2009: 2ème Atelier USAID-Wula Nafaa Réflexion sur les Chimpanzés 23 Avril 2009 à Kédougou. Compilation of reports, maps, data, workplans into working document. 39 pgs. USAID-Wula Nafaa Program, Senegal.
- 2009: Inventory data analysis program for local sawtimber forests based on Access. USAID-Wula Nafaa.
- 2007: (In English and in French) Recommendations concerning inventory of timber, fuelwood, and nontimber products and charcoal species regeneration for Areas of Wula Nafaa Intervention in Eastern and Southern Senegal. USAID-Wula Nafaa Program. BP 25-740, Dakar-Fann, Senegal. 57 pages.
- 2005: Mapping and Inventory Results for Nyamphande Natural Resource Management Area Directly Addressing Issues of Timber and Nontimber Forest Products (Data Collection 2003-2004). 60 pages - tables, graphs, recommended follow-up activities.
- 2004: (with John Heermans) Overview of the Forestry Sector in Western Province, Zambia. USAID Mission/ Zambia Trade and Investment Enterprise, Lusaka. 60 pages.
- 2002: Report of Field Encroachment Census results for Chiulukire Local Forest. 8 Pages with graphs, tables, and recommendations for followup actions.
- 2002: Potentially Commercial Nontimber Forest Products: Submission From CLUSA-Natural Resources Management Programme, Chipata, Zambia.
- 2002: Edited Beekeeping and Comb Collection Training Module for co-operative honey program in Zambia.
- 2001: Mise en Ordre et Suivi du Plan de Coupe et d'Activités de Cogestion dans les Forêts d'Intervention du Projet Elargi de Gestion des Ressources Naturelles, Guinée. USAID/PEGRN, Conakry. 25 pgs.
- 2001: Preliminary Quantification And Valuation Of Traditional Charcoal Producing Operations - Mini Case Study For Chiulukire Local Forest. CLUSA and Zambia Forestry Department, Chipata. 10 pages.
- 2001: Compiled document on Non-Timber Forest Product Markets in Katete. CLUSA/ Zambia Forestry Dept.
- 2000: Forest Inventory in the Context of Co-Management of Guinea's Forêts Classées. Technical mission report. USAID/PEGRN, Conakry. 31 pages.
- 2000: Scenarios for revenue-sharing in jointly-managed Chiulukire Local Forest. CLUSA/USAID discussion paper. 5 pages.
- 2000: How stratification reduces sampling variance. USAID/CLUSA/CARE contract, Zambia. 8 pp.
- 1997: Cost-Benefit Analysis of Forest Inventory. Cost-Benefit course, Univ. of Vermont. 10 pages.
- 1995: Sommaire de l'Inventaire Quantitatif de la Forêt Classée de Toui-Kilibo (Summary of the Quantitative Inventory of the National Forest of Toui-Kilibo), Benin. PGRN/World Bank project. 30 pp
- 1995: Polansky, C. Réflexions sur l'Inventaire Forestier au Benin (issues and needs). PGRN, 4 pages.
- 1991: Ecological Study and Management Plan for Brechin Woodlot, Vermont. 30 pages.