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Mt. Washington, Los Angeles, CA 

# Statement of Qualifications

## Biological & Geospatial Consulting Services



England Ecology  
mcengland.com





# About Us

## Working Throughout the West and Abroad

Based in Mt. Washington in the City of Los Angeles, England|Ecology, LLC is a forward-thinking company that serves clients with Integrity, Objectivity, Quality, and Efficiency.

### Summary

Marcus C. England is an experienced principal biologist with expertise in a wide array of subjects directly applicable to biological consulting, including many facets of biology and ecology, legal compliance, project management, and business leadership. England|Ecology, LLC is a forward-thinking company that serves clients based on its founder's ideals of:

- Integrity – there is nothing more important than trust in a consultant/client relationship.
- Objectivity – sound science and evidence-based solutions to problems.
- Quality – every work product exceeds expectations.
- Efficiency – relentless pursuit of process perfection.

*Marcus was extremely responsive and thorough. The assessment he developed for Smith Rock State Park exceeded our expectations and will integrate seamlessly into the park master plan.*

- Oregon Parks & Recreation Department

### Stronger Together

England|Ecology has formed partnerships with other high quality small consultancies to create a network of strong service providers that is greater than the sum of its parts. The goal of the partners program is to provide opportunities to high quality small consulting service providers that may not otherwise be available when working alone. Ideal partners are established in the industry and are differentiated from England|Ecology and existing partners spatially and/or in services provided with a track record of high quality work products and client service, safety, and carrying proper liability insurance. Every effort was made in this Statement of Qualifications to be clear if a service is offered through a partner.

 See more at [mcengland.com](http://mcengland.com)

### From Marcus C. England

You may already know me. After all, I have been in this industry for quite some time. I was Director of Biological Services at Natural Resource Consultants, spent a couple years working as an independent without trying to create a company, joined Bloom Biological as Vice President, spent another couple years as



an independent without trying to create a company, then joined Bargas Environmental Consulting as Director of Biological Resources. Now, I am back as an independent, but this time is different: England|Ecology is a California Limited Liability Company with plans for growth. This Statement of Qualifications summarizes what England|Ecology is all about and - if we did things right - will convince you of how we can be a valuable partner in bringing forward your project or program.

Sincerely,

Marcus C. England

**Below:** contemplating the upcoming day's work during implementation of a contract with the US Bureau of Land Management to survey Pygmy Rabbits in a remote area of northern Nevada in September 2017. England|Ecology led a three-person team that completed the work on time and under budget.





# Services

## Biological & Geospatial Consulting

*If we can't do it well, we won't do it at all. England|Ecology's core services are based on over two decades of experience in environmental consulting, with additional support from expert partners. This page summarizes key services.*

### Threatened, Endangered, and Other Special Status Species Surveys



England|Ecology has experience surveying for a wide array of special status plant and wildlife species, the list of which would be too long to include here. England|Ecology also has permits (where required) and experience conducting surveys for the following species listed as threatened or endangered under the Federal Endangered Species Act: California Gnatcatcher, Least Bell's Vireo, Southwestern Willow Flycatcher, Yellow-billed Cuckoo, and Desert Tortoise. Through partnerships, we can provide biologists permitted to survey for California Red-legged Frog, Tidewater Goby, and Blunt-nosed Leopard Lizard and other wildlife and plant species in northern and southern California. Need a jurisdictional delineation or surveys for vernal pool branchiopods? We offer those, too.

### CEQA, NEPA, and FESA Support

One of England|Ecology's core strengths is authorship and management of complex technical documents such as biological resources assessments in support of the California Environmental Quality Act review process, habitat conservation plans under Section 10 of the Federal Endangered Species Act, and biological assessments in support of consultations under Section 7 of the Federal Endangered Species Act. Support has been provided for an array of large and small projects, controversial and not, in nearly all possible industries throughout the state of California. We are experienced and comfortable with working with all stakeholders, including project owners, other consultants, agencies, and the members of the public reviewing our work.



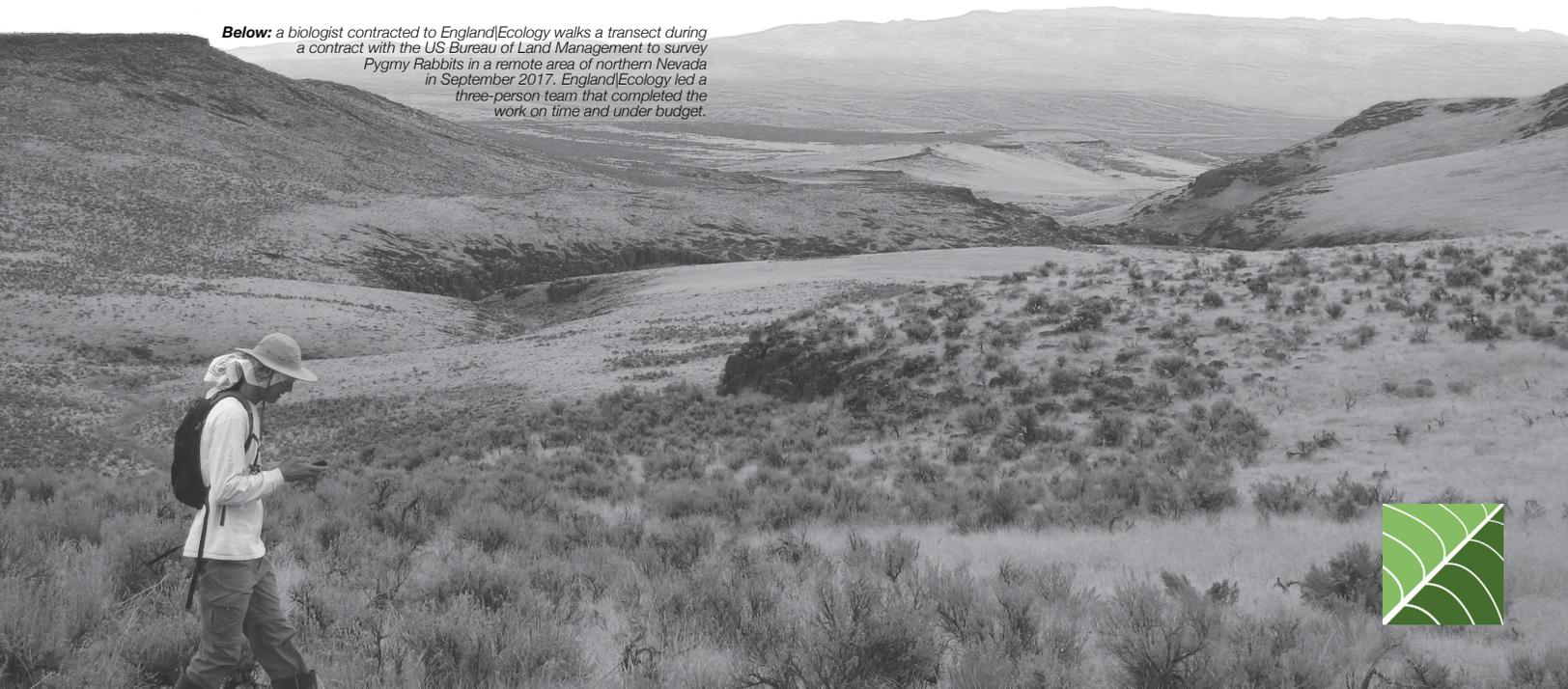
### Biological Resources Planning Documents



England|Ecology has authored numerous wildlife assessments and management plans for for-profit companies, agencies, and other organizations in California and other states. These have included multiple wildlife assessments for the Oregon Parks & Recreation Department and an extensive and detailed wildlife management plan to assist the operations of Descanso Gardens in Southern California. Need a habitat restoration plan? We've authored those, too, also providing biological support to landscape contractors during plan implementation where required. With our skills in research and large document authorship and management, your end product will have painstaking detail but will also be organized in such a way that critical information is easily found.

 See more at [mcengland.com/services](http://mcengland.com/services)

*Below: a biologist contracted to England|Ecology walks a transect during a contract with the US Bureau of Land Management to survey Pygmy Rabbits in a remote area of northern Nevada in September 2017. England|Ecology led a three-person team that completed the work on time and under budget.*



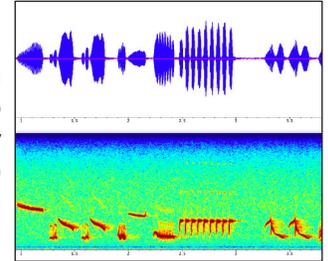
# Services

## Biological & Geospatial Consulting

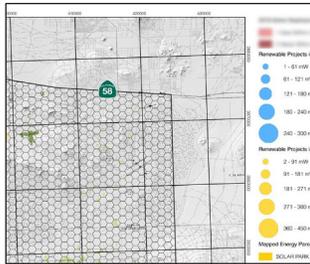
*If we can't do it well, we won't do it at all. England|Ecology's core services are based on over two decades of experience in environmental consulting, with additional support from expert partners. This page summarizes key services.*

### Camera Trapping and Autonomous Recording Unit Studies

England|Ecology continues to explore the latest scientific techniques in wildlife documentation and monitoring that do not require the full time presence of a biologist. Using these techniques, you can find out more about the wildlife of a project site or study area using less resources. Camera traps are an effective tool for understanding wildlife present in an area, often detecting species that are difficult to observe directly during in-person surveys and detecting spatial use patterns over time. England|Ecology has deployed a large number of cameras during long-term studies. Autonomous recording units (ARUs) are a newer technology for wildlife studies and are most effective in assessing the avifauna and bats in an area, often documenting more species than an in-person survey and in a cost-effective manner.



### Geospatial Services & Drones



England|Ecology has long-recognized the critical importance of spatial data to documenting biological resources, even prior to the widespread use of GIS in consulting. England|Ecology has created significant efficiencies in mapping and project data analysis using open source geospatial tools including QGIS and PostGIS/PostgreSQL. Soon, these tools will be used in novel ways to bring cost-effective and innovative new products to our clients both as PDF-based work products and in the form of internet-based tools. We have not forgotten that Esri products and workflows are sometimes required for interoperability and have that capability through a partner, as well as drone services useful to biological analysis such as vegetation mapping, aerial photography, and digital elevation modeling.

### Vegetation Mapping

England|Ecology has mapped vegetation in significant detail for projects across California. Vegetation maps serve as an important baseline for understanding the habitats present on a site and, therefore, the species that are likely to occur. They are recommended and often required for any significant biological impact analysis. England|Ecology has field-mapped and created GIS layers for dozens of projects throughout the state of California using a variety of standardized classification systems, including our favorite in the "old school" *Preliminary Descriptions of the Terrestrial Natural Communities of California* by Holland (1986) and the now commonly-required *A Manual of California Vegetation, Second Edition* by Sawyer et al. (2009).



 See more at [mcengland.com/services](http://mcengland.com/services)

**Below:** a scenic view north along the Oregon coast from Samuel H. Boardman State Park during fieldwork conducted in May 2018 under contract to the Oregon Parks & Recreation Department.





# Key Projects

## Local, State, & Federal Government

While England's core work has been in California, work has also been performed for agencies in Oregon and Nevada, and continues to be sought in other states. This page summarizes some of these projects.

### Owyhee Roads Fuelbreak Project | US Bureau of Land Management



- Jul 2017 - Oct 2017
- Humboldt County, Nevada
- Pygmy Rabbit
- PM, Surveyor
- Letter report, GIS data

England|Ecology was contracted by the US Bureau of Land Management (BLM) to conduct surveys for Pygmy Rabbit on 2,068 acres of BLM-managed lands as part of the Owyhee Roads Fuelbreak Project. Two subcontractors were trained on survey methodology and identification of Pygmy Rabbit sign. The survey was completed over two weeks at the end of September and early October, involving 114 miles of transect walking per surveyor in often adverse weather conditions and over rough terrain. Most field nights were spent camping where the day's transects ended as the area is remote with bad road conditions and no cellular reception. Final deliverables to the BLM were provided on October 20, including a report, photos, and geospatial data.

### Harris Beach Management Unit Wildlife Assessment | Oregon Parks & Recreation Department

For the second consecutive year, England|Ecology was contracted by OPRD to prepare a wildlife assessment report, this time for the Harris Beach Management Unit along the southern Oregon coast. Like Smith Rock the prior year, this project required extensive pre-survey research. Because of the size of the survey area, the field component lasted two weeks and included wildlife and habitat documentation (including remote camera trapping), hiking every trail available within the included parks, and camping with Harris Beach and Alfred A. Loeb state parks. Final deliverables included geospatial data and a report documenting what is known and not known about the wildlife and habitats of the park unit, with suggestions for future research and management priorities.

- Jan 2018 - Dec 2019
- Brookings, Oregon
- Colonial Waterbirds, Marine Mammals, Spotted Owl
- PM, Surveyor, Author
- Wildlife Assessment



### Mission Canyon Park Biological Resources Assessment | Mountains Recreation & Conservation Authority



- May 2017 - Oct 2018
- Los Angeles County, California
- Special Status Species, Vegetation Mapping, Waters of the US
- PM, Surveyor, Author
- Biological Resources Assessment

England|Ecology was retained by IECG to complete a biological resources assessment for a proposed Mountains Recreation and Conservation Authority park in the Santa Monica Mountains of Los Angeles County. The Mission Canyon Regional Park project envisions formalizing a multi-benefit regional trail on a former 500-acre landfill. With a subcontracting botanist and jurisdictional specialist, England|Ecology completed a one-day field survey in early July. The biological resources assessment included vegetation community mapping, species presence/absence determinations, an analysis of project effects, and proposed mitigation measures.

**Below:** conducting fieldwork in May 2018 at Harris Beach State Park, Oregon under contract to the Oregon Parks & Recreation Department.

### Clark County MSHCP Science Advisor Panel | County of Clark, Nevada

England serves on the Science Advisor Panel (SAP) for the Clark County Multiple Species Habitat Conservation Plan (MSHCP) as a subcontractor to the SAP contract holder Alta Science & Engineering, Inc. The SAP provides independent science advice to the Desert Conservation Program (DCP), a County entity focused solely on implementing the MSHCP. Collectively, the SAP provides science and ecological advice for Biological Goals and Objectives; an Adaptive Management and Monitoring Plan; reviews and interprets study design, methods, and results from ongoing research, monitoring, and restoration projects that are funded by the DCP; updates existing management plans for reserve units; and other services as needed in support of the MSHCP.

- Feb 2020 - Present
- Clark County, Nevada
- Special Status Species
- Advisor
- Reports, Meetings

See more at [mcengland.com/projects](http://mcengland.com/projects)





# Key Projects

## Residential & Commercial Development

Residential and commercial development were the initial focus of England's career, successfully helping to permit large and often controversial projects across many counties. This page summarizes key projects over two decades of work.

### Upper Westside Specific Plan | Upper Westside, LLC



- 📅 Apr 2019 - Apr 2022
- 📍 Sacramento County, California
- 🌿 Swainson's Hawk, Giant Gartersnake
- 👤 PM, Surveyor, Author
- 📄 Biological Resources Assessment

As project manager and Director of Biological Resources for Bargas Environmental Consulting, England conducted one year of Swainson's Hawk protocol surveys, managed Swainson's Hawk and other species' survey efforts for two additional years, and authored a biological resources assessment addressing the potential effects of the proposed project on biological resources, including Swainson's Hawk and Giant Gartersnake, within the context of the requirements of the Natomas Basin Habitat Conservation Plan and the Metro Air Park Habitat Conservation Plan, collectively addressing 22 covered plant and animal species.

### Ventura Estates Plaza | OnPoint Development

England|Ecology completed a series of site visits, surveys, and reports documenting the extent of potential impacts to coastal sage scrub by a proposed shopping center due to the presence of nearby nesting California Gnatcatchers. England|Ecology assisted the client in developing appropriate mitigation measures and documenting certain aspects of project implementation, including BMP maintenance at an off-site soil stockpile, for the City of Thousand Oaks. Work products included six reports addressing those issues, as well the status of a Killdeer nest that was active in the project impact area during construction.

- 📅 Jun 2017 - Jun 2018
- 📍 Thousand Oaks, California
- 🌿 California Gnatcatcher
- 👤 PM, Surveyor
- 📄 Letter report



### Montebello Hills Conservation and Development Project | Cook-Hill Properties



- 📅 Jan 2007 - Dec 2009
- 📍 Montebello, California
- 🌿 California Gnatcatcher, Habitat Restoration
- 👤 PM, Surveyor, Author
- 📄 Biological Resources Assessment, Biological Assessment

As project manager and Director of Biological Services for Natural Resource Consultants, England managed a large team of biologists, attended regular client meetings to help develop a strategy for project development and impact mitigation, conducted fieldwork, conducted surveys and monitoring for California Gnatcatcher, prepared GIS modeling of long-term habitat changes and suitability for California Gnatcatcher, and authored many reports including a Biological Resources Assessment and a Biological Assessment for a Section 7 consultation that resulted in a favorable Biological Opinion.

### Terranea Resort | Long Point Development

As project manager and Director of Biological Services for Natural Resource Consultants, England led a team in the conduct of dudleya and California Gnatcatcher surveys, vegetation mapping, and collaborated with the client and other consultants on the preparation of a Biological Resources Management Plan. While the project site did not harbor gnatcatchers prior to development, the landscape planning England assisted on was successful and the species is now present on the property after development with the incorporation of coastal sage scrub into the landscape plan.

- 📅 Jan 2005 - Jul 2008
- 📍 Rancho Palos Verdes, California
- 🌿 California Gnatcatcher, Habitat Restoration
- 👤 PM, Surveyor, Author
- 📄 Biological Resources Assessment, Restoration Plan



🌐 See more at [mcengland.com/projects](http://mcengland.com/projects)

**Below:** scene from a site visit for a commercial development project in Sacramento County.



# Key Projects

## Utilities & Renewable Energy

*With the decline of residential development projects during the Great Recession, work turned more heavily toward energy generation and transmission. This page summarizes some key projects and project roles.*



### Antelope Valley Solar - Phase 2 | Greenskies



- 📅 Oct 2018 - Oct 2022
- 📍 Kern County, California
- 👤 Kit Fox, Avian Mortality
- 👤 PM, Surveyor, Author
- 📄 Letter report

As project manager and Director of Biological Resources at Bargas Environmental Consulting, England was initially part of a team of biologists that supported biological monitoring required under the Mitigation Monitoring and Reporting Program and Conditional Use Permit No. 201300170 conditions of approval for a new photovoltaic solar energy facility (Phase 2). Biologists were on site daily during construction where open-trenches were of concern to possibly harm wildlife. In the following three years after operations began, England conducted avian mortality surveys and later managed other biologists conducting those surveys, and prepared post-survey and annual reports.

### Manzana Wind Project | Avangrid Renewables

As principal biologist and Vice President of Bloom Biological, England assisted the client in initial discussions on methods for minimizing potential impacts to raptors including Golden Eagle and California Condor, developed a flight identification training program for wind facility staff, and conducted surveys and monitoring during wind facility operation. England and the project team also assisted the client in the early development of measures to minimize risk to California Condors, recently leading to the first incidental take permit given by the US Fish and Wildlife Service for the species. England subsequently turned management of the project over to another staff member, but still conducted site visits and assisted on project strategies.

- 📅 Jan 2013 - Oct 2016
- 📍 Kern County, California
- 👤 California Condor, Golden Eagle
- 👤 PM, Surveyor
- 📄 Letter report, GIS data



### On-Call Biological Support | Southern California Edison



- 📅 Jan 2010 - Mar 2023
- 📍 Throughout Southern California
- 👤 Special Status Species, Nesting Birds
- 👤 PM, Surveyor
- 📄 Array of work products

England has provided a wide range of on-call biological support throughout the Southern California Edison service area as an independent and as an employee to Natural Resource Consultants, Bloom Biological, and Bargas Environmental Consulting. Services provided by England included surveys for nesting birds, special status species, raptors, and other biological constraints. Roles on various contracts and work assignments included biological surveys, monitoring, reporting, project management, and program management. England also served as the primary nesting bird program manager for SCE's Tehachapi Renewable Transmission Project. Work was performed for a large number of prime contractors.

🌐 See more at [mcengland.com/projects](http://mcengland.com/projects)

**Below:** watching an active raptor nest on a distant tower at Happy Camp Canyon Regional Park, Ventura County.



# Key Projects

## Water

England|Ecology's biological support for water projects has included both northern and southern California with documentation for state and federal processes.

### Salyer Mutual Water Company Technical Assistance Work Plan | California Water Resources Control Board



- 📅 May 2018 - Dec 2018
- 📍 Trinity County, California
- 🌿 Spotted Owl, Yellow-billed Cuckoo
- 👤 Surveyor, Author
- 📄 Biological Assessment

England|Ecology was retained by Northgate Environmental to analyze the effect on biological resources of a proposed water infrastructure project including wells, tanks, and distribution lines, in the rural community of Salyer. Fieldwork included mapping of vegetation communities and development of floral and faunal compendia over the course of a single site visit. The final product was a biological assessment for a Section 7 consultation analyzing the effects of the project on potentially-occurring federally-listed biological resources, including Northern Spotted Owl and Yellow-billed Cuckoo. The first draft of the document was accepted as-is and the project was promptly completed.

### Anza Mutual Water Company Technical Assistance Work Plan | California Water Resources Control Board

England|Ecology was retained by Northgate Environmental to analyze the effect on biological resources of a proposed water infrastructure project including wells, tanks, and distribution lines, in the rural community of Anza. Fieldwork included mapping of vegetation communities and development of floral and faunal compendia over the course of two site visits. The final product was a biological resources assessment informing a CEQA Initial Study-Mitigated Negative Declaration. The document was also written with additional sections for potential consultation with the US Fish & Wildlife Service due to the potential occurrence of four wildlife species listed as threatened or endangered under the Federal Endangered Species Act.

- 📅 Jan 2017 - Dec 2018
- 📍 Riverside County, California
- 🌿 Special Status Species
- 👤 Surveyor, Author
- 📄 Biological Resources Assessment



### South Mesa Water Company Technical Assistance Work Plan | California Water Resources Control Board

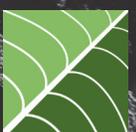


- 📅 Aug 2021 - Aug 2022
- 📍 Calimesa, California
- 🌿 Special Status Species
- 👤 PM, Author
- 📄 Letter report

The project proposed improvements to above- and below-ground water infrastructure in two distinct areas located along the Riverside and San Bernardino County line along the southern border of the City of Yucaipa and northern border of the City of Calimesa. As project manager and Director of Biological Resources for Bargas Environmental Consulting under contract to Northgate Environmental, England's role was to develop the scope of work, manage the implementation of the biological components of the project, and finalize the report which addressed project consistency with the Western Riverside County MSHCP.

🌐 See more at [mcengland.com/projects](https://mcengland.com/projects)

**Below:** the Trinity River near Salyer, Trinity County.



# Key Projects International Studies

England|Ecology's principal biologist started his career in Latin America. After two summers at Estación Biológica La Suerte, Costa Rica, he spent two years developing the Landbird Monitoring Programme at Lamanai, Belize.



## Summary

From 1998-2000, Marcus England operated the Landbird Monitoring Programme at Lamanai, Belize. The following is excerpted from England's 2000 paper in the journal *Cotinga* *The Landbird Monitoring Programme at Lamanai, Belize: a preliminary assessment*.

### From the Introduction:

Located along the New River Lagoon c.35 km south of Orange Walk town, the Lamanai Archaeological Reserve and surrounding area is perhaps the best-kept birding secret in Belize—368 species of birds have been recorded in the area. An abundance of diverse habitats, a well-defined study site (the archaeological reserve) and an adjacent research station make Lamanai ideal for ornithological fieldwork.

### From the Research Objectives:

The Landbird Monitoring Programme is a long-term census and community ecology study utilising mist-netting, point counts and nest searches. Such work is still clearly needed in Belize as the avifauna of many, even readily accessible, areas is still poorly known. The study's primary goals are to: estimate the population sizes and trends of those species for which data can be obtained using the methods outlined below; estimate the demographic parameters of species with robust data sets; use habitat data to link the above-mentioned parameters to variable habitat characteristics; assess the community dynamics of the avian component of a subtropical moist forest ecosystem; and investigate the effects that tourism and forest utilisation by local residents may have on this component.

### From the Summary of Methods:

Field methods are similar to those recommended by Ralph et al. for avian monitoring programmes, with some modifications due to the large amount of data collected per individual bird and the frequent lack of field assistance. Count data are collected on three separate routes on three successive mornings in the first week of each month. Nest searches are performed within three 4-ha plots. One route and one nest search plot each are located in areas of the reserve with either: (1) resource utilisation and other effects by local residents (primarily harvesting of wildlife, small-scale vegetation removal and presence of feral animals); (2) heavy foot traffic by tourists; or (3) little utilisation except by small numbers of researchers. The precise extent of resource utilisation by local residents is unknown. As the boundaries of these regions are indistinct, the point count routes and nest search plots are centred in these areas.

Five mist-net arrays of 12 m mist-nets are operated two of every three days for a minimum of four hours per day at scattered locations within the reserve, usually at the junctions of seldom-used trails in an effort to circumvent the need to remove vegetation for mist-net rides. All mist-netted birds are colour-marked with celluloid leg bands, and detailed notes and drawings are made regarding morphology and plumage (Figs. 6–8). Small blood samples are collected from all birds over 10 g for DNA analysis in an effort to form a genetic library of most netted individuals. All samples are subject to laboratory analysis at the Department of Evolution, Ecology, and Organismal Biology at Ohio State University. Sightings and recaptures of colour-marked birds are plotted onto a map of the reserve in an effort to better understand inter- and intraspecific interactions of birds, territorial boundaries and habitat use.

England still spends as much time as possible exploring the avifauna of Latin America, with recent trips to Panama and Cuba.

**Below:** a foggy dawn at Las Cuevas Forest Research Station, Chiquibul National Forest, Belize.

Cotinga 13

### A review of bird responses to El Niño–Southern Oscillation conditions in the Neotropics

Marcus C. England

Cotinga 13 (2000): 63–88

El Fenómeno Climático de El Niño (ENSO), un calentamiento de las aguas del Océano Pacífico, provoca trastornos en las condiciones climáticas en todo el planeta. Estas condiciones tienen efectos radicales en la productividad primaria tanto en ecosistemas marinos como terrestres, con consecuencias directas sobre los niveles tróficos superiores. Así, existieron variaciones en la respuesta de estos efectos en la avifauna Neotropical. La productividad reducida en los ecosistemas marinos usualmente tiene efectos negativos en aves marinas pelágicas, aunque existen varias excepciones. La falta de estudios es evidente para las aves terrestres, para las cuales se han registrado distintos resultados, incluyendo aumento y disminución en la fecundidad, cambios en los patrones de vagabundeo, y tasas de mortalidad diferentes de los años normales. Sin embargo, no es posible generalizar para todos los grupos.

### Introduction

ing failures in many species of seabirds. In Central America, some avian populations maintain

Cotinga 13

### The Landbird Monitoring Programme at Lamanai, Belize: a preliminary assessment

Marcus C. England

Cotinga 13 (2000): 32–43

El Programa de Monitoreo de Aves Terrestres en Lamanai, Belize, constituye un censo a largo plazo y estudio de ecología de la comunidad, donde se utilizan redes de orfina, puntos de conteo y búsquedas de nidos, con la mayoría de los esfuerzos enfocados en las 350 ha de reserva de la Zona Arqueológica Lamanai. Los objetivos a largo plazo del proyecto son estimar el tamaño de las poblaciones y las tendencias de sus especies para las que se pueden obtener suficientes datos usando métodos de censo estándar, estimar parámetros demográficos para las especies de vida familiar, investigar las causas que pueden hacer el turismo y el uso de la selva por los residentes, en este componente. Después de casi un año de trabajo de campo, la lista de especies para el área de Lamanai ha crecido a 200. Aquí se presenta una lista de las especies registradas en Lamanai, incluyendo datos sobre ocurrencia y abundancia, un breve análisis de la avifauna por ambiente, estatus ornamental y de utilización, y fotografías representativas, una comparación de la

Cotinga 13

Landbird Monitoring Programme at Lamanai, Belize



Figure 3. The jaguar Temple (Structure N10-9), Lamanai Archaeological Reserve, Belize. As many as 1000 major and minor structures lie within the reserve's boundaries (P. C. England).

Figure 4. View of the New River Lagoon and broader forest habitat, looking south from the top of the High Temple (Structure N10-4). The Lamanai Field Research Center is located at the largest mall on the jaguar's shoreline in the centre of the photo (P. C. England).

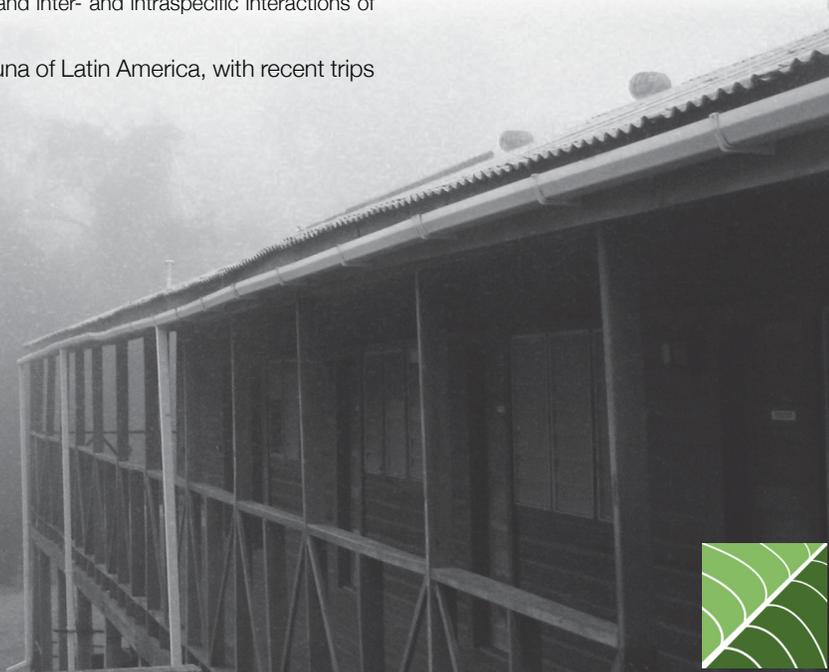
Figure 5. Five seavans, south-west of the boat landing along Chocoma Creek (P. C. England).

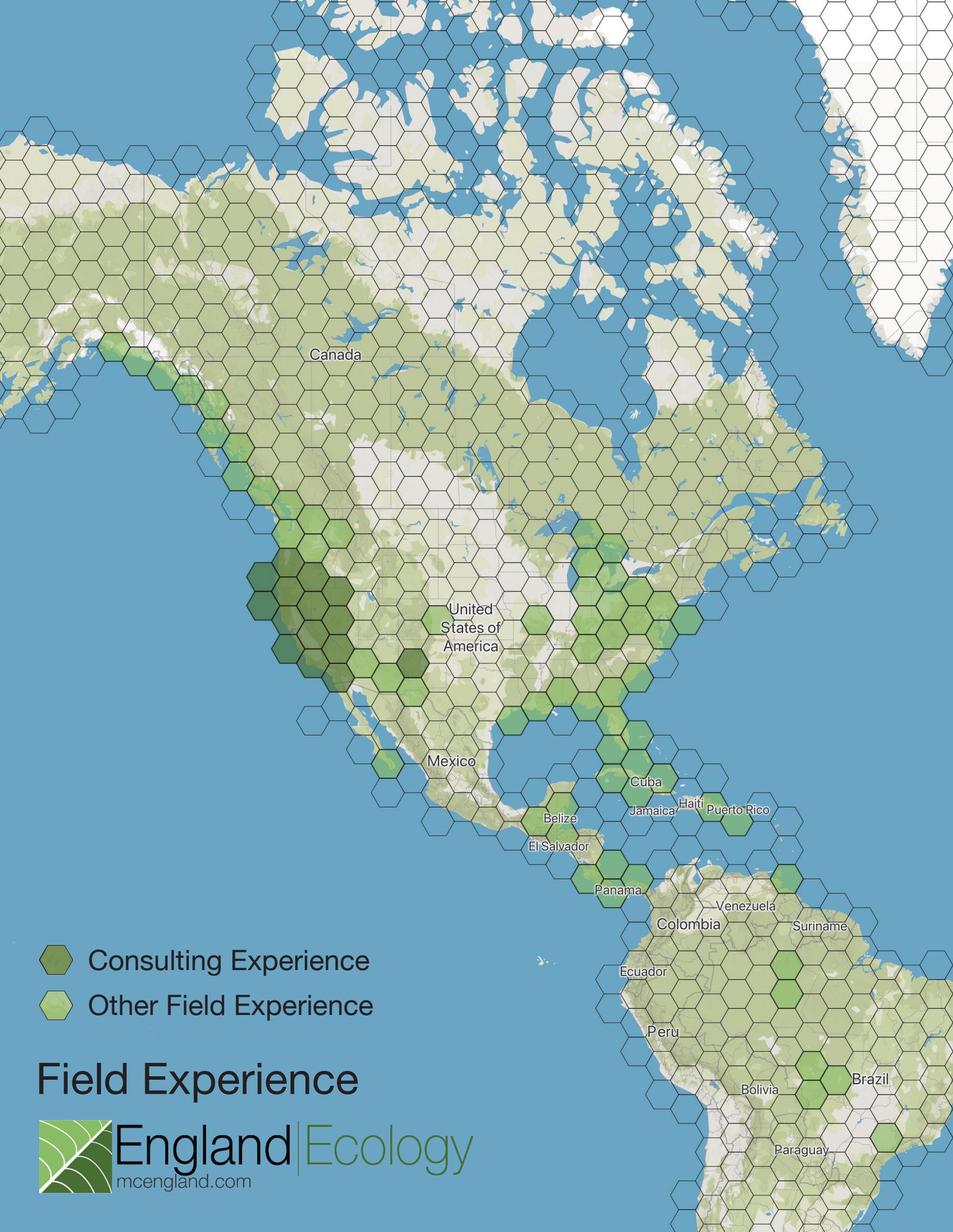
Figure 6. Adult male White-collared Manakin (Mniotiltidae) canids. Several sets of this species are Recaptured (Manakin) birds are scattered throughout the reserve (P. C. England).

Figure 7. Red-capped Antwren (Actin. Ant. species). This species is common in mist-net upper canopy areas in the Lamanai reserve (P. C. England).

Figure 8. Swainson's Warbler (Lamprolaima swainsoni) is currently considered an uncommon winter resident in broadleaf forest habitats. However, this species is scarce and often difficult to detect (P. C. England).

33





Canada

United States of America

Mexico

Belize

El Salvador

Panama

Cuba

Jamaica

Haiti

Puerto Rico

Venezuela

Colombia

Suriname

Ecuador

Peru

Bolivia

Brazil

Paraguay

-  Consulting Experience
-  Other Field Experience

## Field Experience