

BENJAMIN M. CLOCK

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PROFILE

I am a biologist, conservationist and natural historian with special skills in photography and videography with a passion to educate, inspire and make a positive change for conservation of habitat and biodiversity.

EXPERIENCE

- 2015 – 2017 **Multimedia producer, photographer and videographer** for Clock Conservation Multimedia. Media production and natural history photography guiding.
- 2001 – 2015 **Assistant Curator of Video & Archive Development Specialist**
Macaulay Library of Natural Sounds and Video, Cornell Laboratory of Ornithology, Ithaca, NY.
- Curation of multimedia at the largest, most comprehensive natural history sound and video archive in the world.
 - Logging, encoding and transcoding of media for storage and web distribution.
 - Organization and storage of media (FC Server DAM, Oracle database, XSAN).
 - Annotation of multimedia specimens with scientifically rigorous metadata.
 - Story development, scripting and editing multimedia productions.
 - Filming and audio recording in field and studio (Natural history, interviews, B-roll).
 - Relationship building and licensing contract negotiation with archive collaborators.
 - Outreach and education - sharing institutional mission and field-craft training, (Ornis, VertNet, IDigBio communities).
 - Management of social media presence on Facebook, Twitter and writing for web publications.
 - Project management for web development, archival and enterprise storage organization.
 - Development and maintenance of operating budgets for archive development.
 - Fund-raising and networking for archive development program.
- 2001 **Research Assistant, Yucatan** - Behavioral study of the Turquoise-browed Motmot in Rio Lagartos, Yucatan, Mexico. Monitored a breeding colony of over 60 color banded pairs. Mist-netting, banding, blood sampling. For Troy G. Murphy (Cornell University).
- 2000 **Research Assistant, Arizona** - Black Rail Survey project. Surveyed marsh habitat, examining abundance of the endangered California Black Rail, along the Colorado River, Salton Sea and associated canals in southern Arizona and California for Dr. Courtney J. Conway.
- 1999-2001 **Naturalist** – Interpretive naturalist program, Massachusetts Audubon Society, Felix Neck Wildlife Sanctuary, Martha's Vineyard, MA.
- 1999 **Biologist** – The Nature Conservancy. Surveyed for the endangered Bog buck- moth, in fen habitats adjacent to Lake Ontario around Pulaski, New York.
- 1999 **Research Assistant, Belize** - Smithsonian Migratory Bird Center. Intensive mist-netting study of Neotropical migrants and resident species in primary rainforest, citrus groves and regenerating milpas of southern Belize, for Dr. Peter P. Marra.
- 1998 **Research Technician, Alaska** - USGS Biological Resource Division. Field study of the courtship and breeding activities of shorebirds, loons and Lapland Longspurs on the Colville river delta, North Slope of Alaska, for Drs. Susan Earnst and Jon Bart.

- 1998 **Associate Naturalist** - Beaver Lake Nature Center, Baldwinsville, New York. Interpretive naturalist for pre-K through adult audiences.
- 1997 **Ornithology Intern** - Adirondack Ecological Center. Surveyed eleven mountain peaks, examining hardwood and conifer zone avifauna along slopes and summits studying Adirondack populations of Bicknell's Thrush, for Dr. Therese Donovan.

VIDEOGRAPHY & SOUND RECORDING

HD and 4K filming and time lapse with an array of cameras including: Sony PMW-350 ENG camera with Canon HJ40x14B IASD-V lens, Sony NEX-FS700 (at 240fps), Canon DSLR (EOS 1DC, 7D, 5D mk2, 3), Lumix GH4. Photography with Canon 7D, 5D mk3, 1DX, 1DC and Canon EF lenses. Sound recording using a diversity of microphones including shotgun, parabolic reflectors, MS Stereo, surround sound arrays, remote-mics, lav-mics and autonomous recorders (Cornell ARU and SongMeter).

COMPUTER

Mac and PC. Database management. Video editing, Audio syncing and color-correction in Final Cut Pro, Adobe Premiere Pro. Export of productions to tape master or transcode for digital delivery. Extensive work in preparing video and sound for web distribution. Maintenance of streaming video services. Organization and editing of photos in Adobe Photoshop, Lightroom, Aperture, Media Pro. Graphics in AfterEffects, Illustrator. Sound mixing using Final Cut Pro, Sound Blade, Audacity and Sound analysis using Raven.

FIELD COURSE INSTRUCTION / DESIGN

- 2016 Natural history photography, Arts and Birding at Hog Island Audubon camp. Workshop taught with Melissa Groo. **Instructor, course designer.**
- 2016 Nome Photo Tour. Natural history photo tour with Melissa Groo for Zugunruhe Nature Tours. **Leader, workshop designer.**
- 2012, 2013 Cornell University, Techniques in Multimedia Scientific Collecting – Classroom and field course introducing filming, recording and editing techniques at Cornell and in the Mojave National Preserve, CA. **Instructor, course designer.**
- 2013 Hog Island Audubon, Field Ornithology – Ornithology, natural sound recording and nocturnal flight call recording courses for the Hog Island Audubon, Maine. **Instructor.**
- 2009 -- 2015 Cornell Lab of Ornithology, Annual Youth Birding Workshop - Natural sound recording and field videography. **Instructor.**
- 2006 Techniques in Natural Sound and Video Recording - Workshop at the North American Ornithological Conference, Veracruz, Mexico. **Instructor, workshop designer.**

FIELD EXPEDITIONS

- 2014 Cornell Lab of Ornithology (CLO) filming expedition, Kauai, HI - Filming and recording Laysan Albatross and endangered Hawaiian Honeycreepers (including the critically endangered Akikiki), in the Alakai preserve.
- 2013 CLO filming expedition – West Virginia, Michigan, Maine. Filming and recording Swainson's Warbler, Kirtland's Warbler, Le Conte's Sparrow and Northern Parula.

- 2012 National Geographic and CLO Multimedia survey, Australia – Primary videographer and sound recordist for the Cape York and Torres Strait islands multimedia survey, with National Geographic staff photographer Tim Laman. Filming and recording a wide array of Australo-Papuan endemics like Magnificent Riflebird, Eclectus Parrot and Fawn-breasted Bowerbird.
- 2012 CLO / USGS filming expedition - Seward Peninsula, Nome, Alaska. Filming and recording Red Knot, Surfbird and Bluethroat in conjunction with USGS biologists.
- 2012 CLO / USFWS filming expedition – Michigan, Filming and recording nesting Kirtland's Warbler, Mio and Grayling, Michigan in conjunction with USFWS biologists and photographer Ron Austing.
- 2011 CLO filming expedition - Michigan, North Dakota, Montana, Colorado. Filming and recording a wide array of bird species for the Macaulay archives including Kirtland's Warbler, Baird's Sparrow, McCown's Longspur and Black Swift.
- 2010 CLO filming expedition - Gulf of Mexico oil spill response. Filming and recording in Tern, Gull and Pelican breeding colonies affected by oil spill.
- 2009 CLO recording expedition - Seward Peninsula, Nome, Alaska. Filming and recording Red Knot, Gyrfalcon, Golden-crowned Sparrow and Rusty Blackbird.
- 2008 CLO recording expedition - Western Texas, Sinaloa, Durango, Mexico. Filming and recording Colima Warbler, Red Warbler and Tufted Jay. Sound recordist and trip planner, with videographer Larry Arbanas.
- 2007 CLO recording expedition - Florida, east Texas, northern Alaska. Filming and recording a wide array of bird species for the Macaulay archives including Sooty Tern, Bachman's Sparrow, Red-cockaded Woodpecker, Aleutian Tern, Bristle-thighed Curlew and Spectacled Eider. Sound recordist and trip planner, with videographer Larry Arbanas.
- 2006 CLO recording expedition - Southeast Arizona, Sonora, Mexico. Filming and recording Rufous-capped Warbler, Brown-backed Solitaire, Olive Warbler. Sound recordist and trip planner, with videographer Larry Arbanas.
- 2004, 2005 Ivory-billed Woodpecker search - Cache and White River National Wildlife Refuge, Arkansas. Sound recordist and field technician, with videographer Tim Barksdale (in 2004).
- 2003 Recording the voice of the Junin Black Rail (*Laterallus tueros*), Junin, Peru. Sound recordist and trip planner. Field trip to record the unknown voice of a bird found only in the Peruvian altiplano. Sound recordist and trip planner.
- 1992 Bolivia - Birding through the eastern Bolivian lowlands to the foothills of the Andes, Noel Kempff Mercado National Park, Amboro National Park, Dpto. Santa Cruz, Bolivia. Victor Emanuel Nature Tours with Steven L. Hilty and Theodore A. Parker III.

ADDITIONAL SKILLS

Biological monitoring - Strong bird ID skills; visual and by songs and calls, Mist-netting and banding: set-up and storage, bird removal and handling (over 2000 birds removed and banded) ageing and sexing, standard measurements, assessment of fat load, skull pneumaticization and breeding condition, color band pattern ID, bleeding birds; capillary tube centrifuging, hematocrit measurements, Sound recording of birds,

Census skills (point counts, line transects, playback surveys, color band re-sighting), nest searching, vegetation analysis, scientific writing, record keeping and field notation skills. Museum preparation: Flat and round bird skins, mounts (birds and mammals), Insect pinning, Clearing and staining of fish and herps.

Teaching: Leading walks, programs and lectures on a wide array of scientific and natural history topics, managing groups ranging in size from 1 to 150, ages 3 to adult.

Language: English, Spanish.

PUBLICATIONS

Clock, B.M. 2004. Family Tyrannidae (Tyrant Flycatchers). Pp. 314-328 (species accounts 132-165) in "Handbook of the Birds of the World," Vol. 9. Cotingas to Pipits and Wagtails (del Hoyo, J. et al., eds.). Lynx Edicions, Barcelona.

Clock, B. M. and B. Ryall. 1999. Bog Buck Moth (*Hemileuca* spp.) monitoring in Oswego County, New York, The Nature Conservancy, Central and Western NY chapter report 1999.

Clock, B. M. and T. Donovan. 1997. Distribution of Neotropical migrant birds, resident birds and potential nest predators on Adirondack mountains. Adirondack Ecological Center Report, 1997.

Scholes, E. 2006. Courtship Ethology of Carola's Parotia. The Auk 123:967-990. (Frontispiece illustration)

EDUCATION

B.S. Zoology. State University of New York College of Environmental Science and Forestry, Syracuse, NY.