iDigBio

Integrated Digitized Biocollections

Imaging Birds and Mammals
Tall Timbers Research Station

Gil Nelson
Institute for Digital Information and Scientific Communication
Integrated Digitized Biocollections
Florida State University

Vertebrate Digitization Workshop
Laboratory of Ornithology
Cornell University
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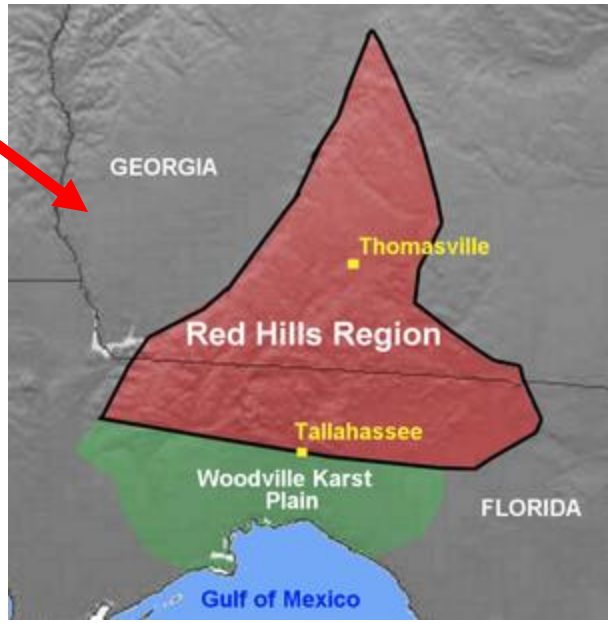
Biological Research/Field Stations

Small, potentially with multiple collections
Focused
Research centered
Rich data
Potentially the best representation of a limited geographic area
High value specimens
Not widely disseminated, duplicated, or available

TALL TIMBERS
Research Station & Land Conservancy

Tallahassee Red Hills Region



iDigBio
Integrated Digitized Biocollections

TALL TIMBERS

Research Station & Land Conservancy

Biological Collections

Fire ecology

iDigBio Integrated Digitized Biocollections

Tall Timbers

Research Station & Land Conservancy

Longleaf Pine Ecosystem
Formerly more than 90 Million acres
Now about 3,000 old growth acres remain
Much of it under the management of Tall Timbers

Collections

- Archeology-Paleontology
- Birds
- Bird Photo Archive
- Insects (Lepidoptera)
- Mammals
- Plants
- Reptiles and Amphibians
- Worms

National Science Foundation
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- Grant Policy Manual
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- Special Conditions
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- Policy Office Website

Award Abstract #0956343

Collaborative Research: Imaging the Tall Timbers Research Station's Biological Research Collections

NSF Org:	DBI Division of Biological Infrastructure
Initial Amendment Date:	July 13, 2010
Latest Amendment Date:	August 23, 2010
Award Number:	0956343
Award Instrument:	Continuing grant
Program Manager:	Anne Maglia DBI Division of Biological Infrastructure BIO Directorate for Biological Sciences
Start Date:	July 15, 2010
End Date:	June 30, 2012 (Estimated)
Awarded Amount to Date:	$96,867.00
Investigator(s):	Kevin Robertson krobertson@ttrs.org (Principal Investigator) Gil Nelson (Co-Principal Investigator)
Sponsor:	Tall Timbers Research Inc 13093 Henry Beadel Drive Tallahassee, FL 32312-9801 (850)893-4153
NSF Program(s):	BIOLOGICAL RESEARCH COLLECTION
Program Reference Code(s):	9178, 9184, , 9179
Program Element Code(s):	1197

ABSTRACT

The goal of this project is to create high-resolution digital images of the ca. 16,000 plant, bird, mammal, and Lepidoptera specimens in the Tall Timbers Research Station (TTRS) Museum in Tallahassee, Florida, USA. The specimens represent a nearly complete

Specimen Counts

Plants (~10,500 specimens)
Birds (~4,000 specimens)
Mammals (~1,000 specimens)
Butterflies (~1,500 specimens)

Unequalled opportunity
for completeness and detail

Equipment/Software list:

Nikon D3X 24.5 megapixel camera
AFS Micro-Nikkor 60 mm macro autofocus lens
Nikon 105 mm f/2.8 VR Micro lens
Nikon 12-24 mm zoom lens (for larger specimens)
Kaiser Copy Stand RSX with RTX Arm for holding camera
Kaiser attached fluorescent lighting system
Helicon Focus software
CombineZ stacking software
Camera Control Pro 2 software
Nikon Capture NX2 software
Nikon View NX2 software
Several custom-designed, project-specific software applications written by Gil Nelson
Computer
4 External hard drives for temporary storage
Written protocols/workflows

Imaging station

Photo eBox


The BOX
One Step Photo Studio System
Digital Imaging System
MK
PhotoeBox

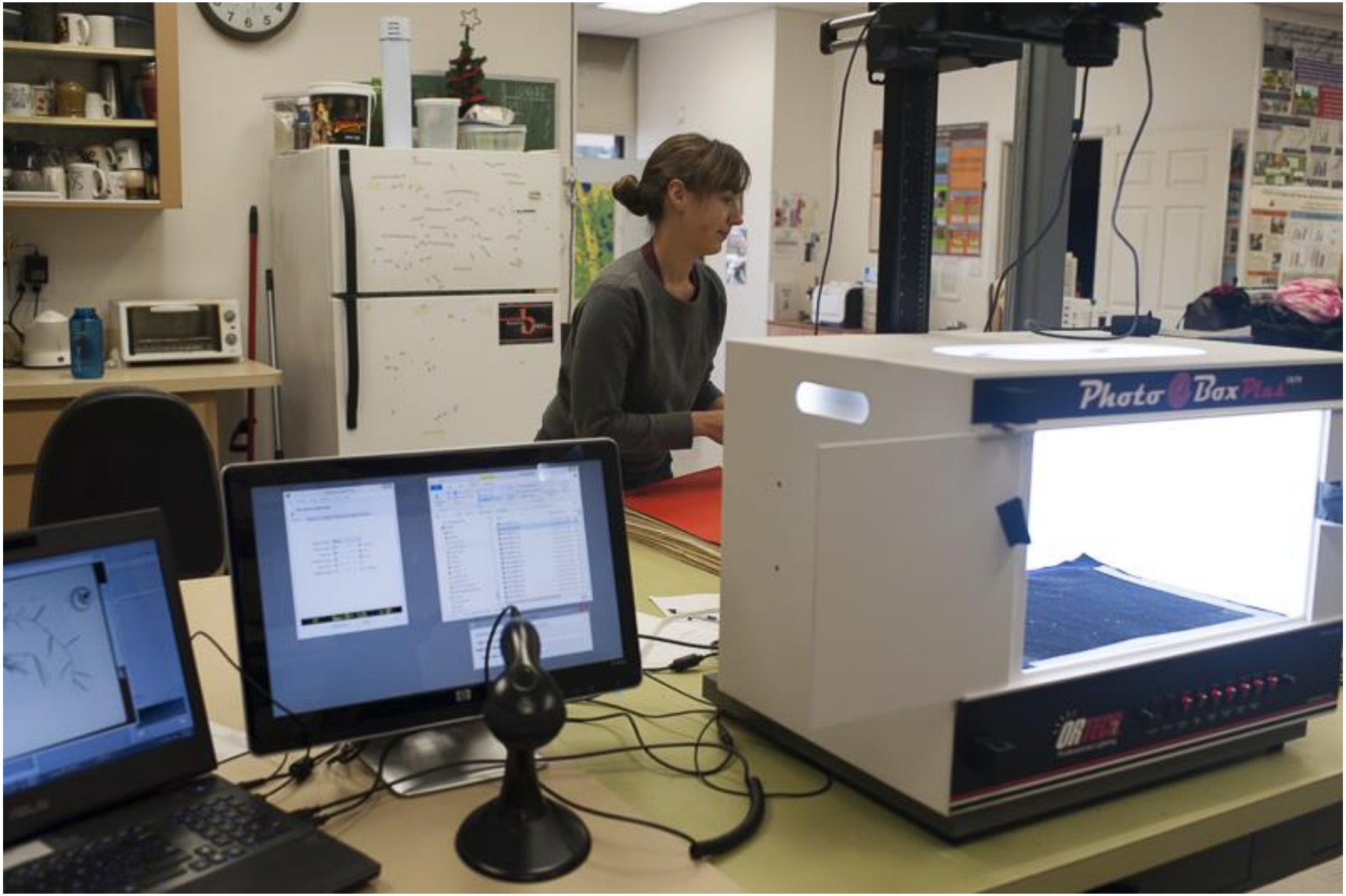


Photo Box Plus

Nikon D3x
Full frame
24.5 megapixel
Live view

Nikon 810
36.3 megapixel
Full frame
Live view

Kaiser Copy Stand RSX with RTX Arm

Selection Criteria

- Two of each species (male/female)
- All specimens of special interest (T&E, endemic, e.g. RCW, Sherman Fox Squirrel)
- Any specimens cited in publication
- Specimens with bill deformity or other morphological abnormalities

Views

- Birds: dorsal, ventral, lateral
- Mammals: dorsal

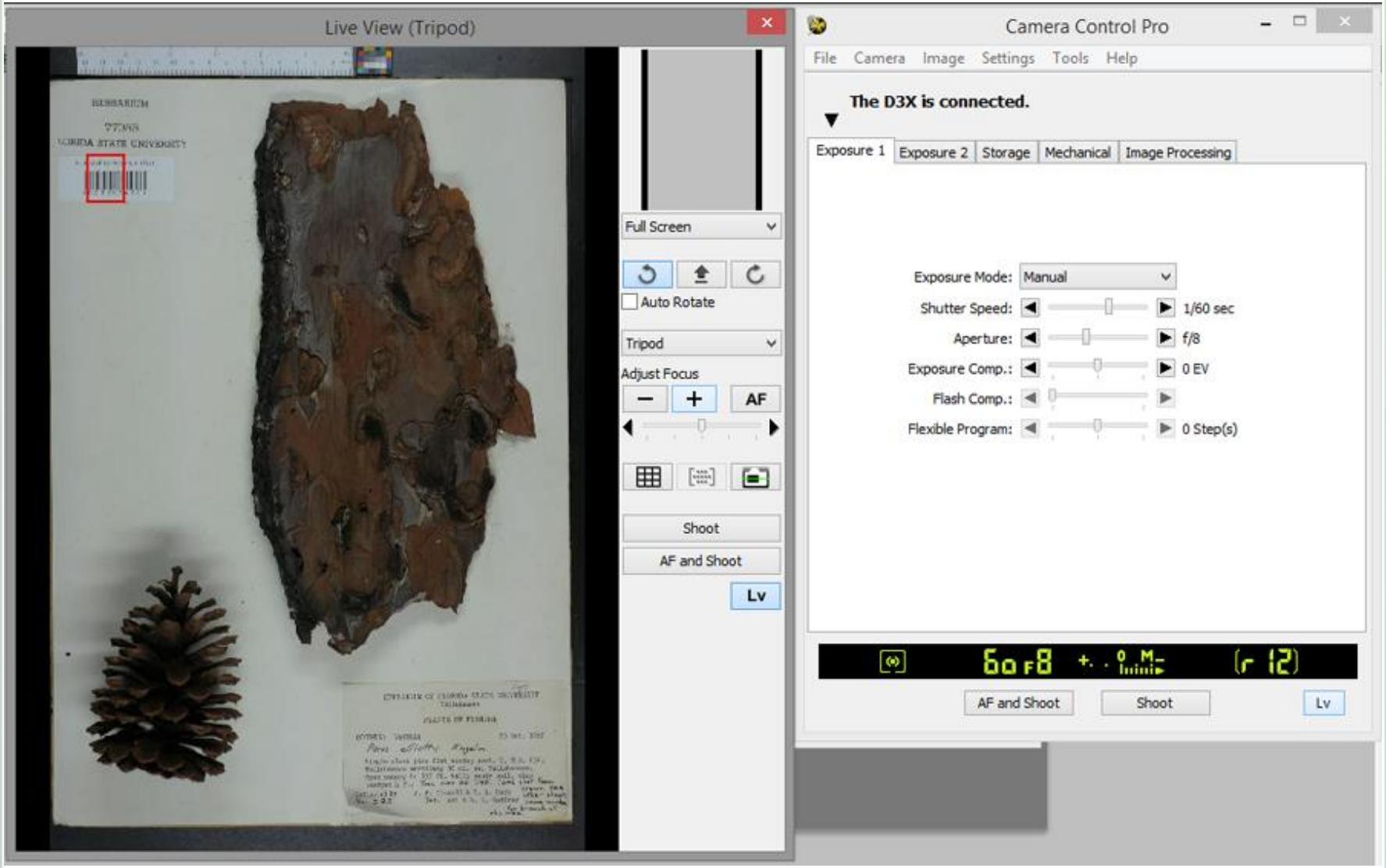
Passerina ciris

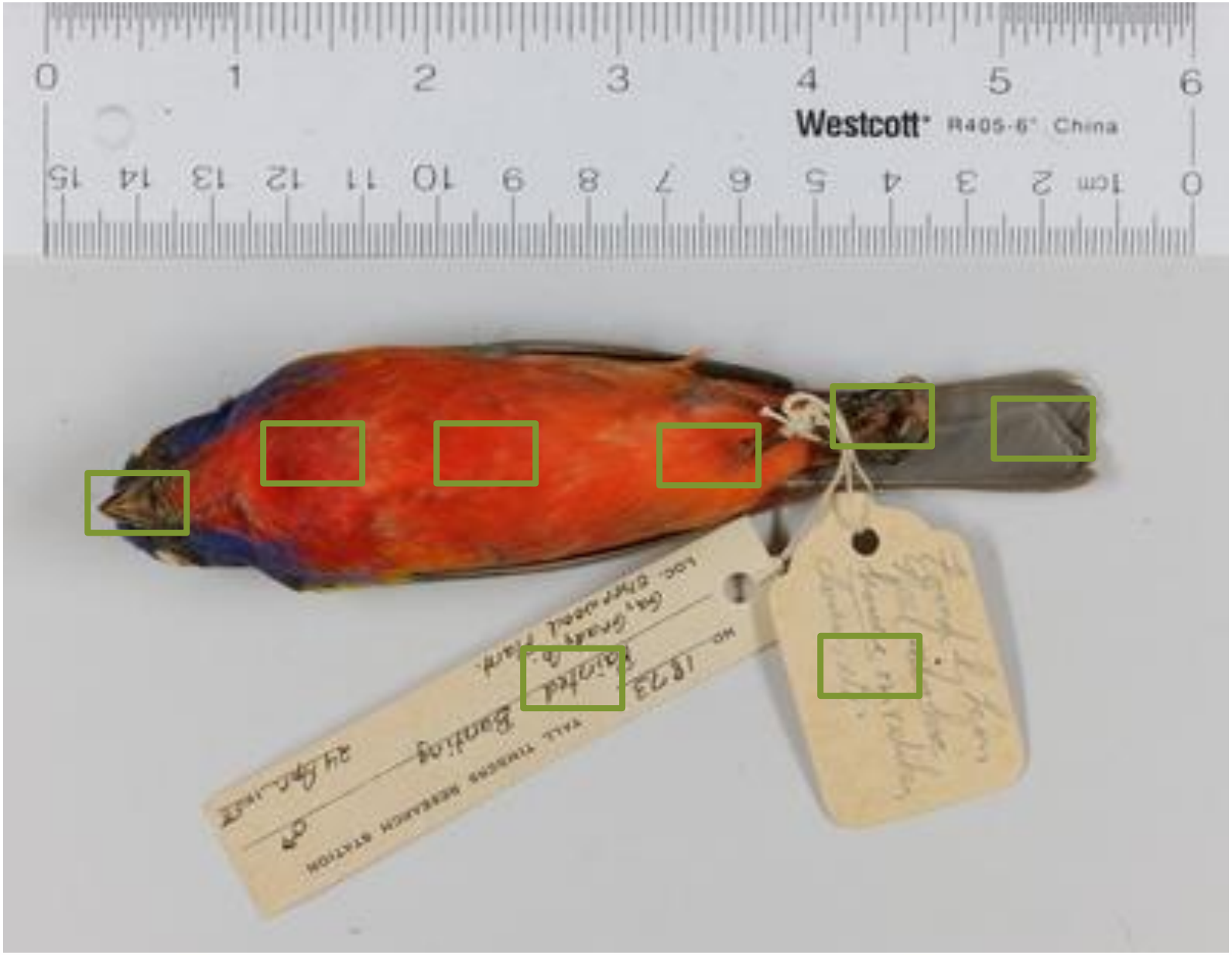

Westcott R405-6" China


Westcott R405-6" China

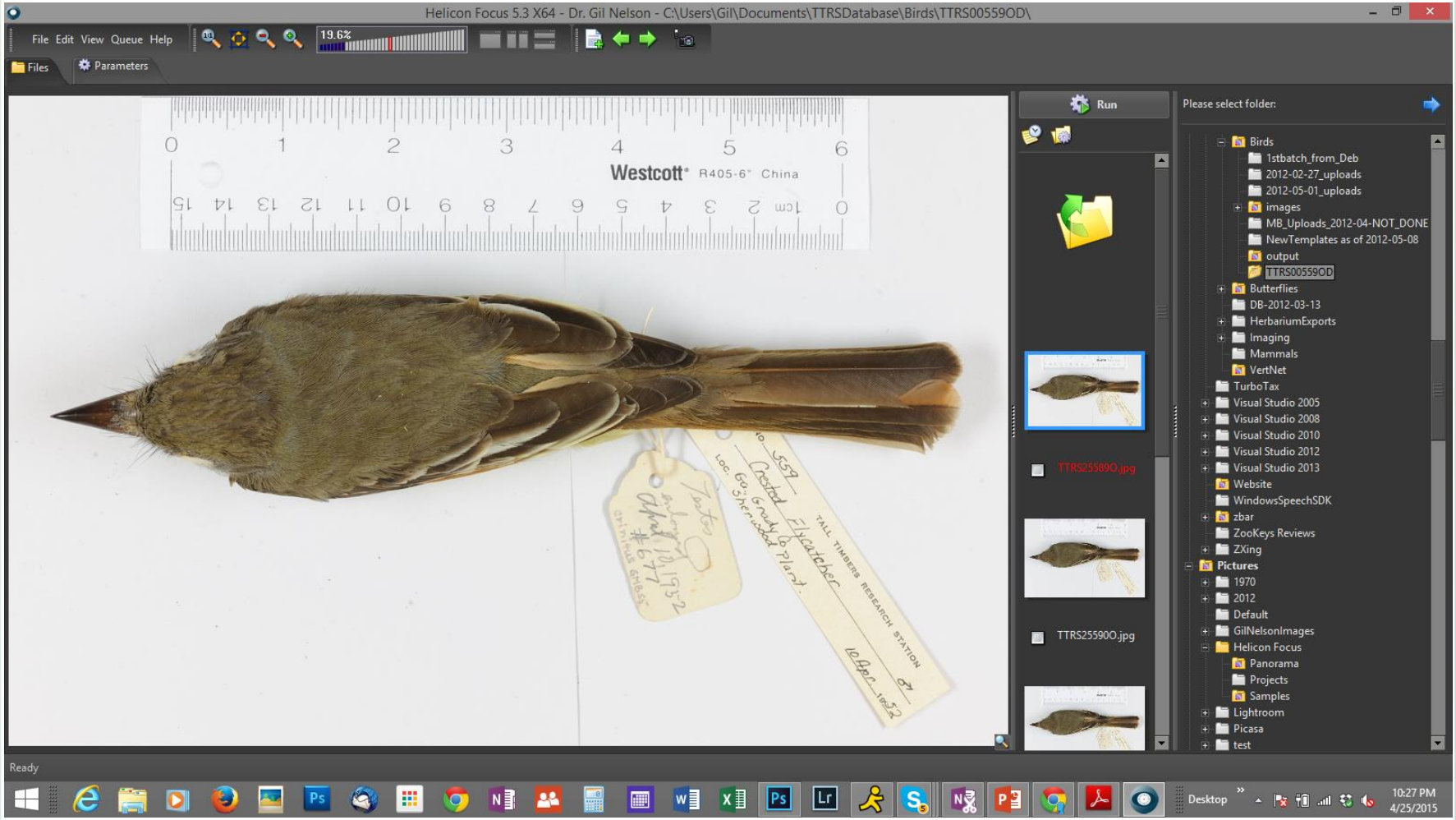

Westcott R405-6" China

Camera Control Pro

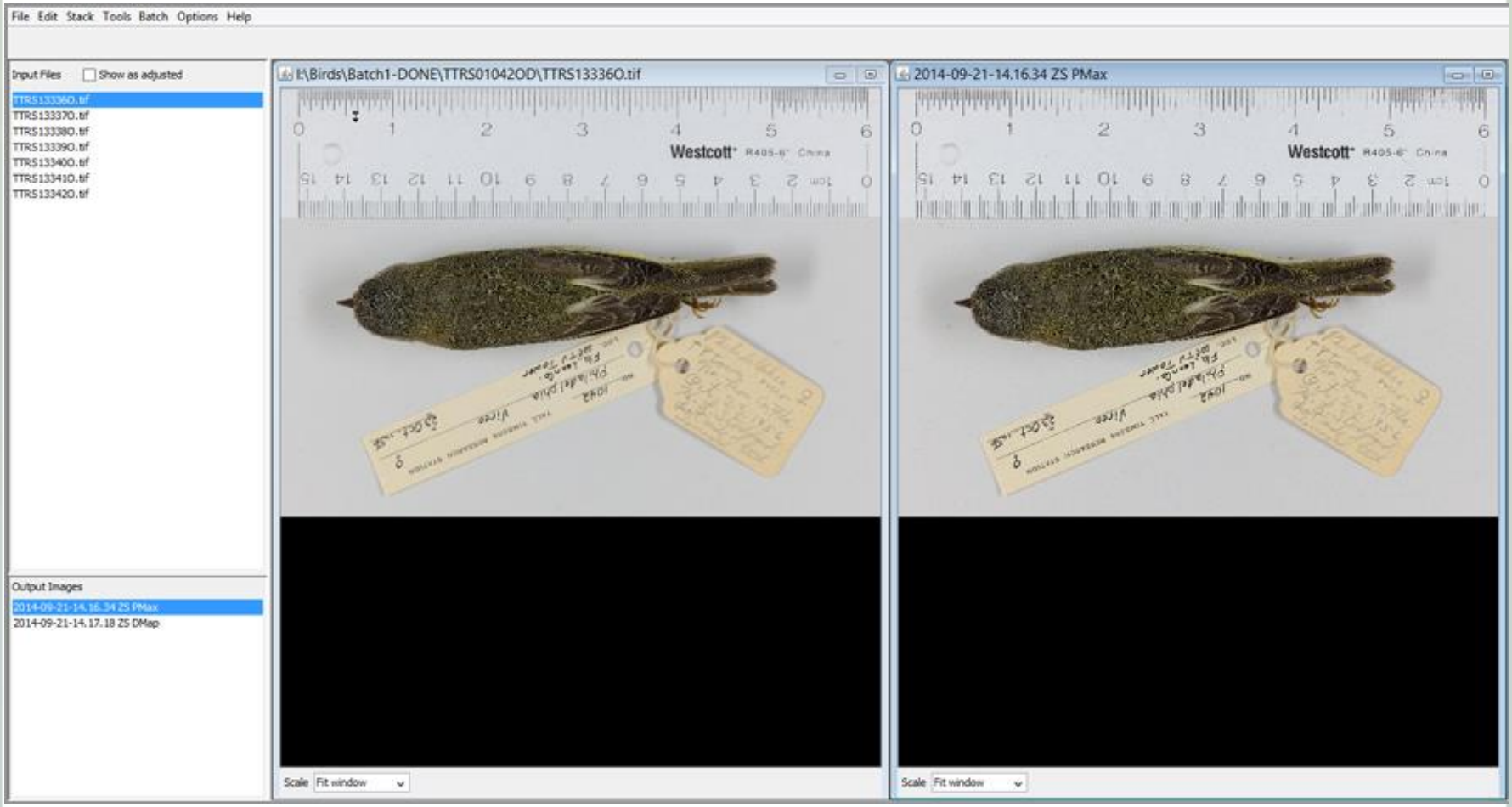



Westcott R405-6" China

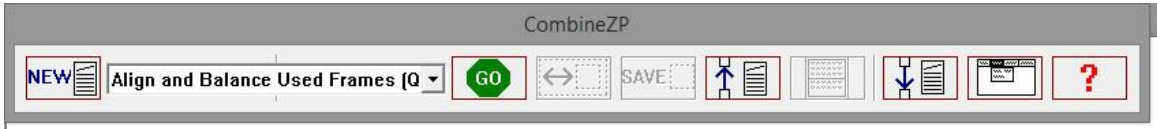
Helicon Focus

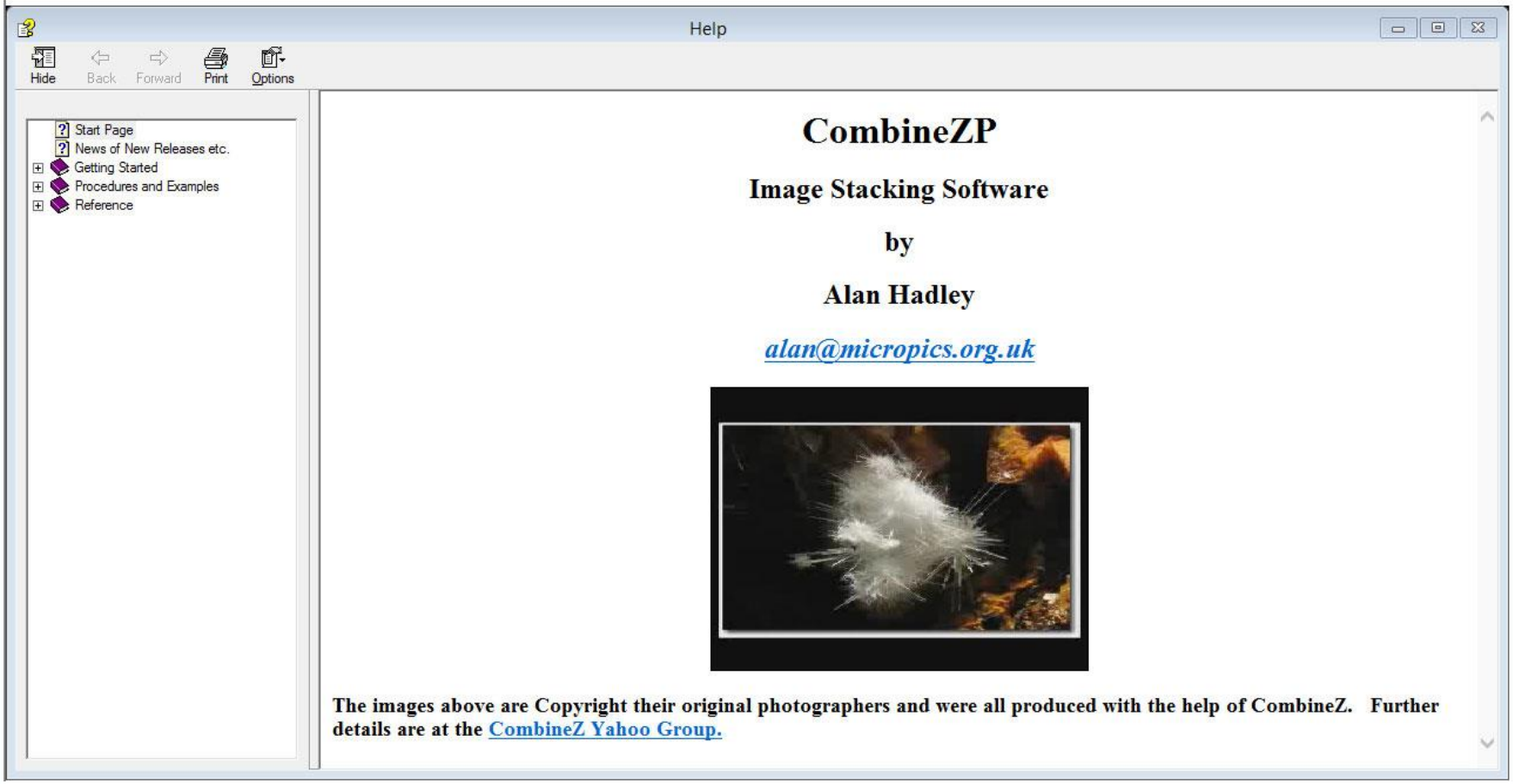


Zerene Stacker



CombineZ


CombineZP
NEW
Align and Balance Used Frames (Q
GO
SAVE
?


Help
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Getting Started
Procedures and Examples
Reference
CombineZP
Image Stacking Software
by
Alan Hadley
alan@micropics.org.uk
The images above are Copyright their original photographers and were all produced with the help of CombineZ. Further details are at the CombineZ Yahoo Group.

Morphbank.net

Specimen 823767
User: Guest [click to login]

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Specimen Record: [823767] Scolopax minor

Contributor: Jim Cox
Submitter: Gil Nelson
Group: Tall Timbers
Date Submitted: 2013-02-13
Last Modified: 2013-02-13
Publish Date: 2013-02-20
AOUNO: 228.0
vernacularName: American Woodcock

Specimen Id: 823767
Basis of Record: Specimen
Sex:
Form:
Type Status:
Stage:
DeterminedBy:
Determination Notes:

View the full image

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Collection

Collector:
Institution: TTRS
Catalog: 279
Date Collected:

Locality

Edit this locality

Locality Id: 827073
Continent:
Water Body:
Country: UNITED STATES
State/Province: Florida
County: Leon
Locality: TTRS
Latitude:
Longitude:
Elevation (m):
Depth (m):

Determination

Kingdom: Animalia
Phylum: Chordata
Class: Aves
Order: Ciconiiformes
Family: Scolopacidae
Genus: Scolopax

Determination annotations

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Full Specimen Record

Taxonomy

Scientific Name	Lasiurus intermedius
Kingdom	Animalia
Scientific Name Authors	H. Allen, 1862
Taxon Rank	Species
Nomenclatural Status	valid

Specimen

Catalog Number	514
Sex	Male
Institution Code	TTRS
Basis of Record	Specimen

Collection Event

Collected By	W.W. Baker
Verbatim Date Collected	1970-2-15

Locality

Georeference Data

The blue marker indicates the location of the current record, the red points are locations of similar specimens in the idigbio system

View Raw API Record

Record Image

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