

15/8/32
Liberal Arts and Sciences
Entomology Department
Sydney A. Cameron Papers, 1991-97, 1999-2012, 2015

Box 1:

Bombus (Bumblebee) Phylogeny and Reclassification

Record Notebooks

Collection Data, 2002

Includes weather and bee behavior

Techniques, Procedures, and Receipts, 2002-04

Polymerase Chain Reaction Data, 2003-05

Jennifer Smith's OPSIN (Bombus), Primer Testing, 2003-08

PEPCK HMM [Heather M. Hines], 2005-06

A continuation from the Primer Testing Notebook

OPSIN, 2004-2005

Bombus Phylogeny in Collaboration with Paul Williams and Heather Hines (Maps, Table of Taxa, etc.)

Bombus Status and Trees, ca. 2007 [See Cross Reference Sheets]

Invalid Trees

Box 2:

Bombus Phylogeny and Reclassification - Bombus Phylogeny in Collaboration (Continued)

Bombus Phylogeny, 1991-96, 1999-2000

Bee Lists and Analyses, 2002-06 [Restricted]

Bombus species lists from different geographical regions, 2005-08

Correspondence and Notes, 1997, 1999-2005

Bombus Phylogeny, ca. 2006

Distance Analysis

Bombus 165 Analyses, 2003-04

Bombus Phylogeny Analyses, 2004

Bombus Stats, ca. 2004

Correspondence and Analyses on Collecting and Sequencing, 2004

Bombus Phylogeny Paper (Heather's [Hines] comments) & ([Paul] Williams Comments), 2005-06

Gaps Edited Combined, ca. 2005

Box 3:

Bombus Phylogeny (Continued)

Incl. Gaps, With Gaps 4 genes combined (v2, v3) (16 mil gen), 2005

Morph Data MP Analyses, 2005

No Gaps, 2005

Bombus Genus MP Analyses Genus, Genus Date MP Analysis, February 2005

TNT MP Analyses (Yoder), February 2005
 Includes correspondence with Matt Yoder.
 Equal Rates runs combined 4 genes (v1, v2), March 26, 2005
 Exclude 16s (no gap), March 26, 2005
 Heather's [Hines] Notes (Part 1 of 2), August 2005
 Heather's [Hines] Notes (Part 2 of 2), August 2005
 4-Gene Trees, September 2005
 Morph Bayesian + Reduced (46) Taxon DNA Bayesian + Genes + Morph, ca. 2006
 Reclassification Correspondences, Data, and Articles, 2006
 Table Figures, ca. 2006
 Gaps and 5-Gene Trees, No Gap data 5-genes, October 2006
 Modified Figures, October 2006
 Morph Last, October 2006
Access Volume 10 Cover, 2007
 Publications, 2007-08
 Publication, Reclassification Part 1 of 4, 2008
 Uppsala Trip, Reclassification Part 2 of 4, 2006
 Bombus Worldwide Phylogeny, Reclassification Part 3 of 4, 1999-2001
 Correspondence and Draft, Reclassification Part 4 of 4, 2006-7
 Phylogenetic Tree and Bee Banding Diagram, ca. 2007
 Bumblebee Decline 2007-2011
 North American Bombus Decline Study, 2007-11
 Important papers for "decline" project SAC, Part 1 of 3, July 2007

Box 4:

Bumblebee Decline (Continued)

Important papers for "decline" project SAC, Part 2 of 3, July 2007
 Important papers for "decline" project SAC, Part 3 of 3, July 2007
 Original Notes, Papers, and Figure Data, Part 1 of 2, 2008-11
 Original Notes, Papers, and Figure Data, Part 2 of 2, 2008-11
 Media Attention, Bombus Decline Study, 2010-11, 2015
 IUCM-STL Zoo Bombus Workshop, November 2010
 Bumblebee Decline Field Survey
 2008 Bombus Surveys
 Map and Data Collections Tracker, 2009
 Illinois Data Sheet, July 2009
 Arkansas, May-June 2009
 2009 Bombus Trip Data Sheets, 2010 Added
 2010 Bombus Collection Data Sheets
 Illinois, 2009
 Minnesota, 2009
 Wisconsin, 2009
 Missouri, 2009
 Kansas, 2009
 Iowa, 2009

Nebraska, 2009
Indiana, 2009
Ohio, 2009
Pennsylvania, 2009
New York, 2009
Vermont, 2009
New Hampshire [Empty]
Massachusetts, 2009
Connecticut, 2009
Virginia, 2009
North Carolina, 2009
South Carolina, 2009
Georgia, July 2009
Tennessee, 2009
Kentucky, 2009
Arkansas, June 2009
Louisiana, June 2009
Mississippi, June 2009
Alabama, June 2009
Oklahoma
Texas, August 2009

Box 5:

Bumblebee Decline Field Survey - 2009 Bombus Trip (Continued)

Maine, August 2009

Illinois [Empty]

Kansas, May 2009

2009 Permits

Permit Materials, 2009 [Restricted]

Louisiana, 2009

North Carolina, 2009

Tennessee, 2009

Wisconsin-Madison Arboretum and Mississippi State University, 2008-09

2009 Permits, Reservations, and Data

MO (Missouri), 2009

Illinois, 2009

Indiana [Empty]

Bombus Collection Data Sheet [Blank Sheets], 2009

Notes and Field Tags, 2009

Kentucky, 2009

Tennessee, 2009

Georgia, 2009

South Carolina, 2009

North Carolina, 2009

Virginia, 2009

West Virginia [Empty]
Lot 89G9 Data
Bombus Files J. Grixti, RM 422 M.H
Iowa State University Specimen Loan, June 2008
Collection Maps and Notes
Project Description, 2008
Undergraduate Assistantship Applications, 2008 [Restricted]
Meetings, January-May 2008
Arkansas, Part 1 of 4, January 2008
Arkansas Key, Part 2 of 4, 1965
Arkansas Loans, Part 3 of 4, January 2008
Arkansas Permits, Part 4 of 4, 2008
Colorado [Empty]
Iowa, 2008
Illinois Map, Part 1 of 3, January 2008
Illinois Keys, Part 2 of 3, ca. 2008
Illinois Permits, Part 3 of 3, 2007-08
Indiana, January 2008
Kansas Part 1 of 3, January 2008
Kansas Loans, Part 2 of 3, January 2008
Kansas Permits, Part 3 of 3, 2008
Michigan Part 1 of 3, 2008
Michigan Key, Part 2 of 3, 1965
Michigan Loans, Part 3 of 3, April 2008
Minnesota Part 1 of 2, 2008
Minnesota Permits, Part 2 of 2, April-May 2008
Missouri Part 1 of 3, January 2008
Missouri Keys, Part 2 of 3, 2008
Missouri Permits, Part 3 of 3, 2008
Nebraska Part 1 of 2, 2008
Includes ISBE Teaching Certificate
Nebraska Key, Part 2 of 2, 2006
North Dakota, 2008
Oklahoma, Part 1 of 3, January 2008
Oklahoma Loans, Part 2 of 3, 2008
Oklahoma Permits, Part 3 of 3, 2008 [Restricted]
South Dakota Part 1 of 3, January 2008
South Dakota Loans, Part 2 of 3, January 2008
South Dakota Permits, Part 3 of 3, 2008
Texas Part 1 of 3, January 2008
Texas Loans, Part 2 of 3, January 2008
Texas Permits, Part 3 of 3, 2008
Wisconsin, Part 1 of 4, January 2008
Wisconsin Key, Part 2 of 4, 2008
Wisconsin Loans, Part 3 of 4, February 2008
Wisconsin Permits, Part 4 of 4, May 2008 [Restricted]

Wyoming [Empty]
Notes, ca. 2008

Box 6:

Bumblebee Decline Field Survey (Continued)

Bombus Decline, 2009

Museum Loan Forms, 2009

Specimen Invoices [Empty]

Species List

Permits and Maps

Publications on Bee Classification and Description

Maps and Email, July 2009

Park Info, 2008

Permits, 2008

Trips

Maps and Itinerary

Trip 1: IL, MO + KS

Contact Information

Illinois, June 2008

Kansas

Missouri

Trip 2: IL, WI + MN

Maps and Data Sheet

Minnesota, 2008

Wisconsin

Trip 3: Indiana

Route, Sites + Camping

Trip 4: Illinois

Trip 5: NE Iowa

USDA 2008 Bombus Surveys

Survey Description, 2008

Arkansas, July 2008

Colorado, July 2008

Illinois, June-August 2008

Indiana, June 2008

Iowa, July and September 2008

Kansas, July 2008

Minnesota, July-August 2008

Missouri, June-July and September 2008

Nebraska, July 2008

North Dakota, August 2008

Oklahoma, July 2008

South Dakota, August 2008

Texas, July 2008

Wisconsin, June-August 2008

Wyoming, July 2008
 West Trip
 Maps, 2008
 Directions, 2008
 Colorado, July 2008
 Colorado Permits, July 2008
 Illinois [Empty]
 Illinois Permits, May 2008
 Kansas, 2008
 Minnesota, 2008
 Minnesota Permits, May 2008
 Missouri [Empty]
 Missouri Permits, May 2008
 North Dakota, August 2008
 North Dakota Permits, May 2008
 South Dakota, July-August 2008
 South Dakota Permits, May-August 2008
 Wisconsin, August 2008
 Wisconsin Permits, May 2008 [Restricted]

Box 7:

Bumblebee Decline Field Survey – West Trip (Continued)

 Wyoming, July 2008
 Collection Sheets [Empty]
 Extra Bees and Articles
 Field Tags
 Site 7 Notes
 Labels, Correspondences, and Data Sheets, 2008
 Louisiana Data Sheet, June 2009
 Nosema Museum Stuff, 2010-2012
 2011 Collecting Trips, July 2011
 Corbiculate Bee Phylogeny
 Systematic Biology Poster, April 2001 [See OS-25]
 Eulaema Phylogeny (Orchid Bees)
 Ideas for Eulaema Phylogeographic Study, 2000
 Eulaema Phylogeny, Part 1 of 2, 2001
 Eulaema Collecting, Eulaema Phylogeny Part 2 of 2, 2001
 Lab Notebook, Alice Salzat, Euglossini Phylogeny, 2001-02
 Reprints, 2004
 Meliponini (Stingless Bee)
 DNA Sequencing Data
 2004 Claus

Box 8:

Meliponini (Continued)

2005-6 Claus

2007-8 Claus, Part 1 of 2

2007-8 Claus, Part 2 of 2

Claus Rasmussen Notebook, 2004-05

Contains protocols, data, and notes

Comprehensive Phylogeny of Stingless Bees, 2009

Vespid Phylogeny (Wasps)

Vespid Phylogeny Taxonomy Poster [See OS-25]

Paper Wasp Photo by Won Young Choi, 2004

Vespid Rob/Hines, Primer Data (Bound Book), 2006

Box 9: [Poster Box]

Bombus Status and Trees, ca. 2007

Includes Comprehensive Tree and Laminated Poster

OS-25: [Oversized Materials - Folder]

Bombus Status and Trees, ca. 2007

Includes RJ Trees and "Current Status and Potential Causes of Population Decline in
Wild Bumble Bee Pollinators"

Systematic Biology Poster, April 2001

Vespid Phylogeny Taxonomy Poster