

**UAM Insect Collection Mission**

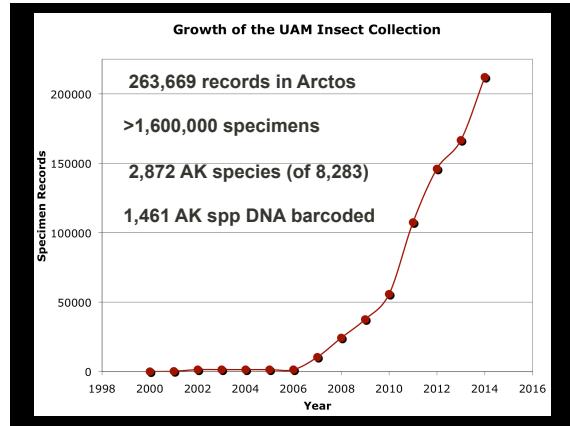
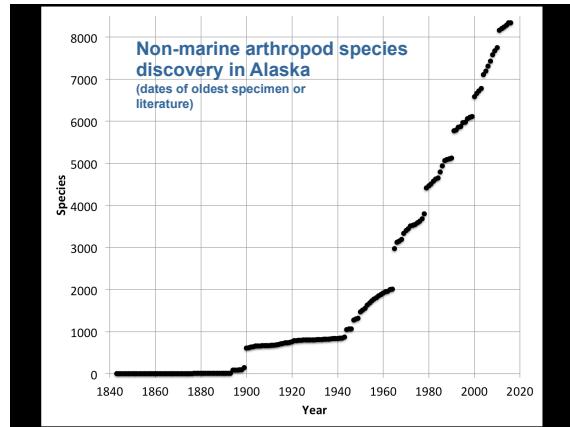
To create a resource that makes publicly available as much information as possible concerning the non-marine arthropods of Alaska.

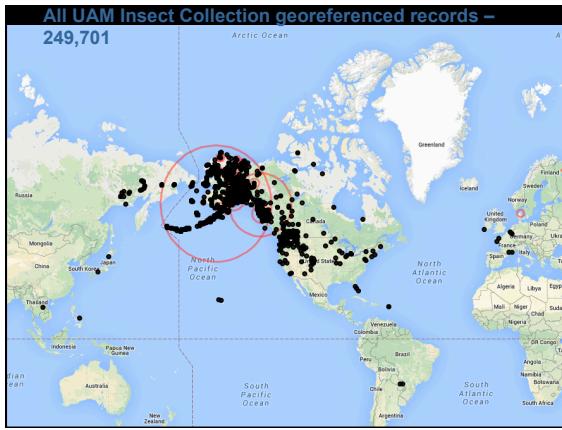
Using specimens + literature + 'grey' literature

Which species occur in Alaska?

Where do these species occur?

Are they changing?





UNIVERSITY OF ALASKA MUSEUM OF THE NORTH

**Entomology**

**Overview**

Welcome to the University of Alaska Museum Entomology Web Page. The museum was established as part of a NSF - funded Arctic Archival Observatory grant in late 2000.

The SAM Insect collection is the northernmost facility of its kind in the United States. It has the potential to become a world-class depository for dry and preserved-tissue samples of northern arthropods, primarily from the world of Alaskan insects at the museum!

**Entomology History**

Although a young collection, we already have a backlog of more than 100,000 insects (mostly aquatics) from Alaska and other northern areas of the United States and contiguous United States. The collection is currently in need of significant attention to make it an accessible and valuable resource.

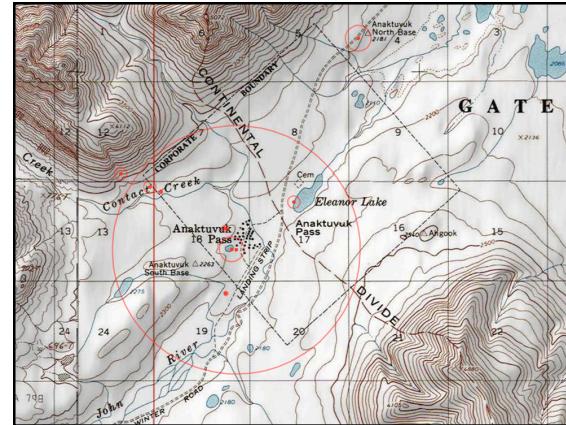
Stay tuned for what will surely be some exciting developments in the world of Alaskan insects at the museum!

**Volunteers**

If you have a few hours a week and would like to volunteer in the Entomology Department please contact the Curator, Derek Sikes.

**Donations**

If you are thinking of starting a project that will produce insect specimens which you would like to donate, please contact the Curator to discuss details such as which pins to use if you are pinning specimens (stainless #3 are highly recommended) and how to record latitude / longitude for your

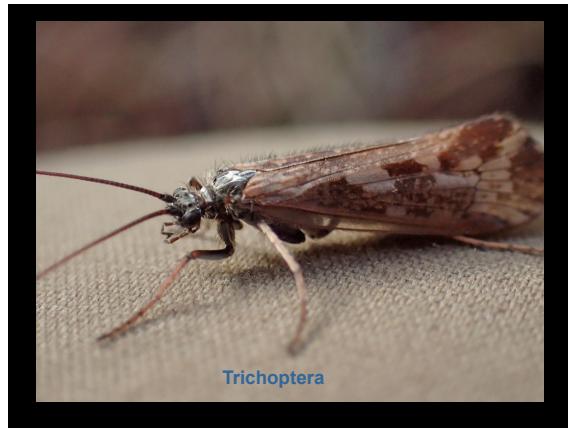


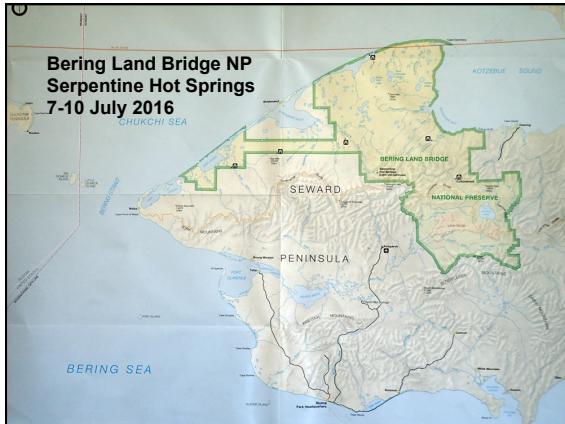
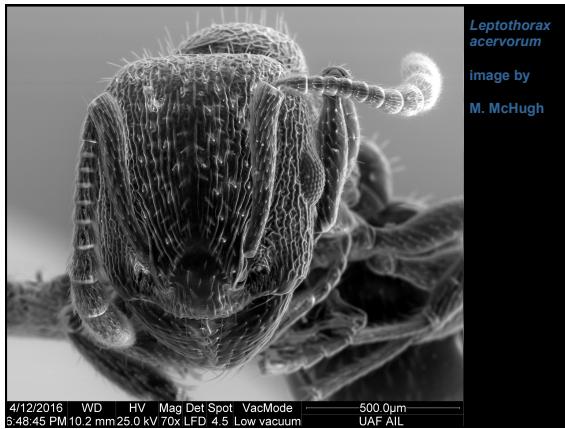
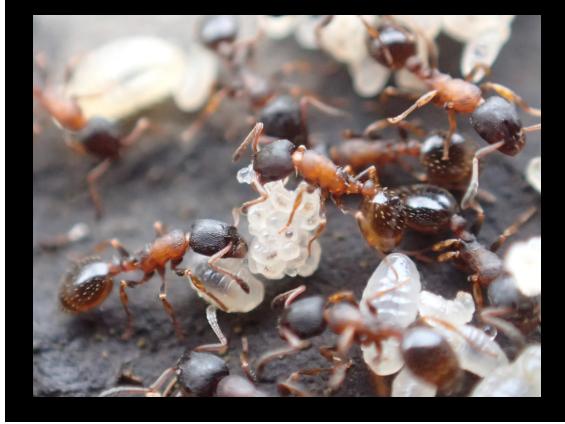
<b>Diversity</b>		
28	specimens	Animalia
1	specimens	Arachnida
34	specimens	Araneae
4	specimens	Arthropoda
2	specimens	Chilopoda
11	specimens	Collembola
30	specimens	Diptera
2	specimens	Ephemeroptera
8	specimens	Hemiptera
6	specimens	Hymenoptera
46	specimens	Insecta
1	specimens	Lithobiomorpha
10	specimens	Mollusca
1	specimens	Neuroptera
1	specimens	Odonata
5	specimens	Thysanoptera
4	specimens	Trichoptera

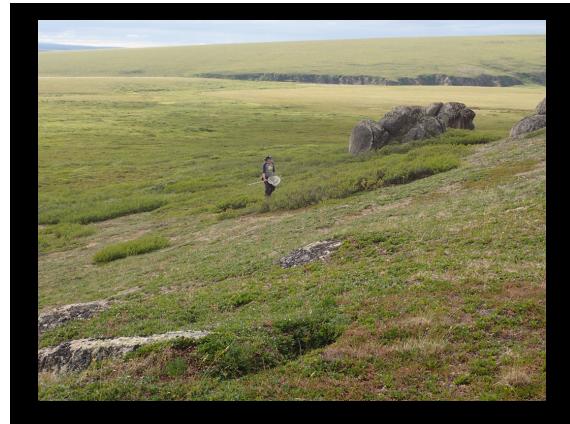








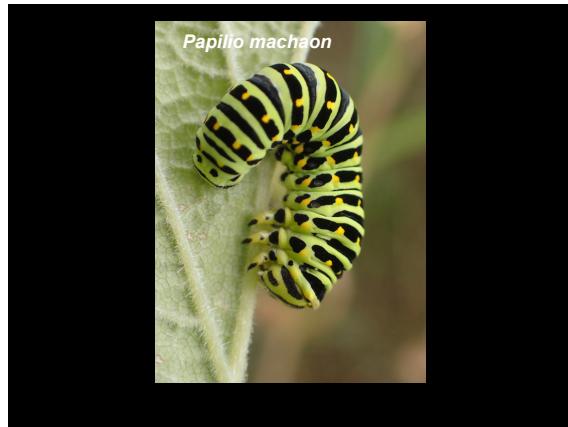


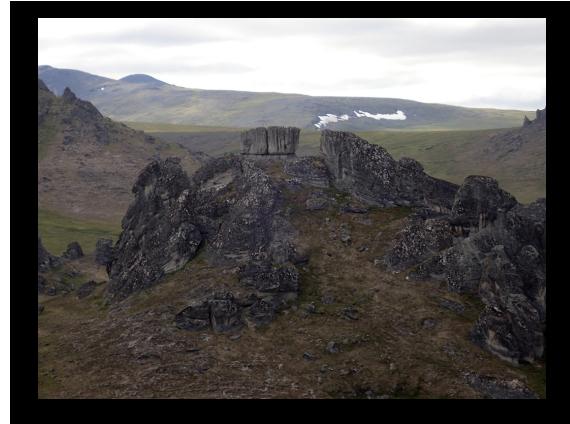
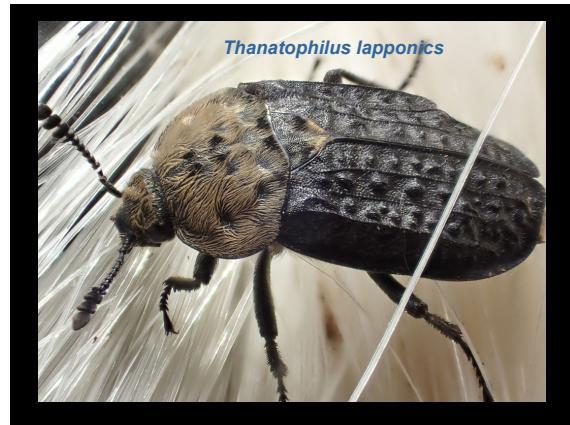
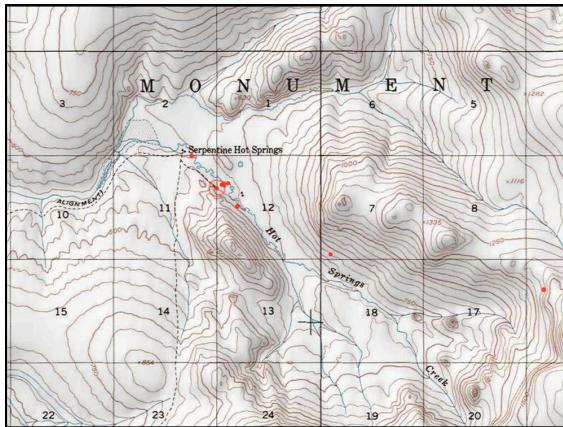




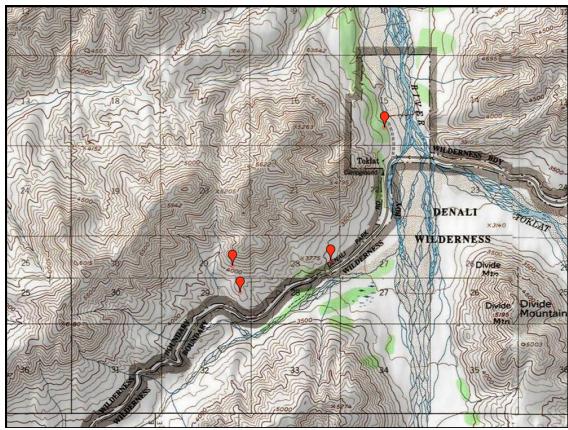
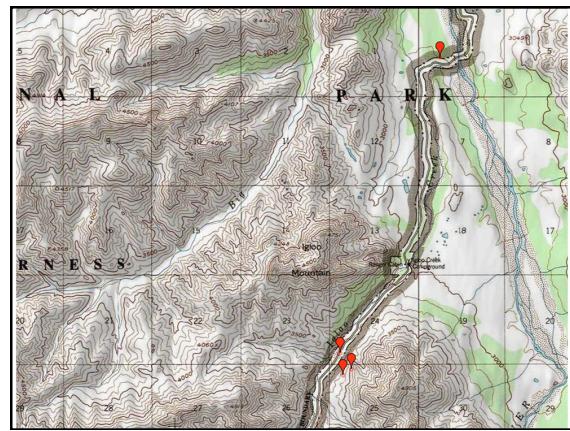
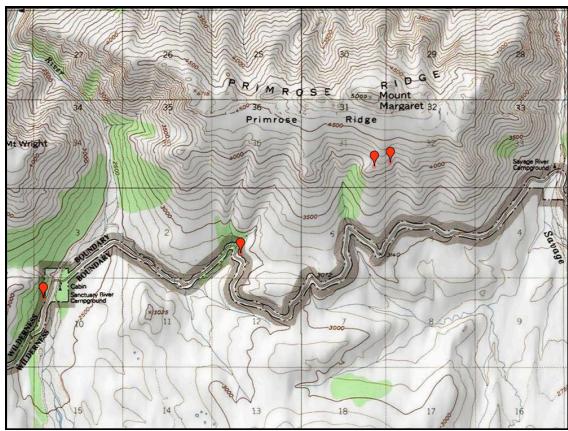
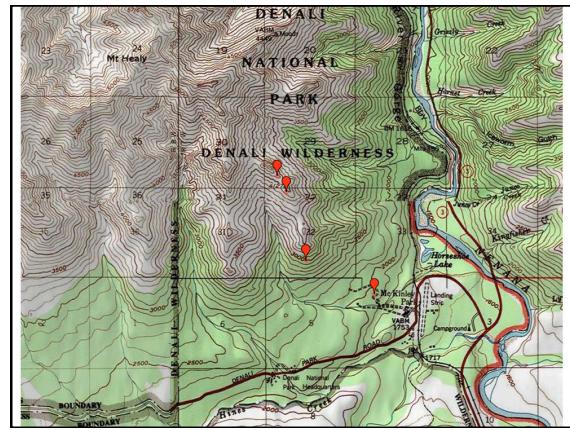
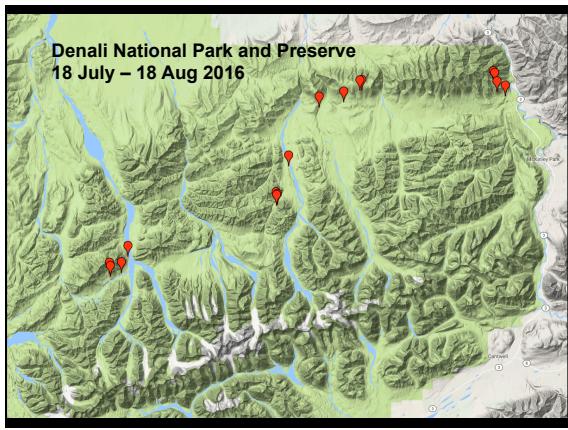


Bembidion sp.

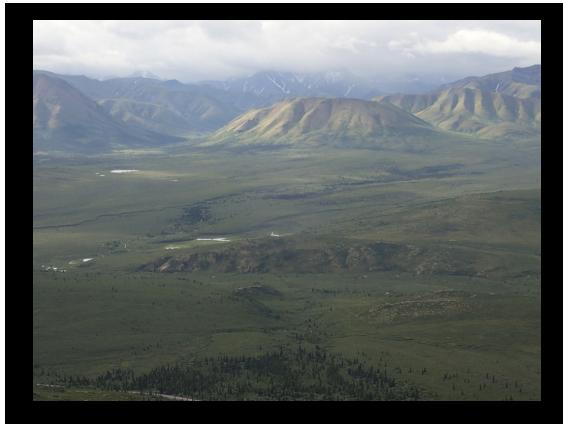














#### Sampling Gaps

National Park Service lands in Alaska and count of specimens / data in KWP or UAM Insect Collection.

These parks cover all major ecoregions of Alaska (Fig. 3).

Name	specimens	records	ld'd species
1. Denali National Park and Preserve	25,499	8,802	201
Sikes property	16,768	3,284	211
2. Gates of the Arctic National Park	1,178	1,342	89
3. Wrangell - St Elias National Park and Preserve	1,723*	1,151	45
4. Noatak National Preserve	1,904	1,101	36
5. Yukon - Charley Rivers National Preserve	685	651	43
6. Lake Clark National Park and Preserve	355	355	3
7. Katmai National Park and Preserve	347	325	24
8. Bering Land Bridge National Preserve	237	230	17
9. Kobuk Valley National Park	216	216	5
10. Cape Krusenstern National Monument	204	204	12
11. Kenai Fjords National Park	119	119	1
12. Glacier Bay National Park and Preserve	225	110	9
13. Alaska Maritime National Wildlife Refuge	41	21	0
14. Klondike Gold Rush National Historic Park	1	1	1
15. Sitka National Historical Park	0	0	0
<b>TOTAL</b>	<b>31,558</b>	<b>13,314</b>	<b>261*</b>

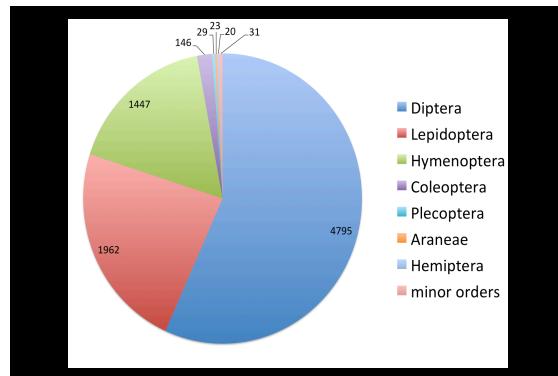
\* Species column doesn't sum because repeat species are counted only once

261 arthropod species documented from National Parks, Preserves, and Monuments in Alaska

Represents 3% of Alaska's known arthropod biodiversity (~8,400 species)



New bumblebee species. Photo of the holotype queen of *Bombus kluanensis*, collected from 2000 m on Outpost Mountain (60.9502°N, 138.4320°W), Yukon, 18 June 2010. Photo by Harry Taylor, © NHM digital imaging unit.



Undersampling of beetles in Denali NPP

