



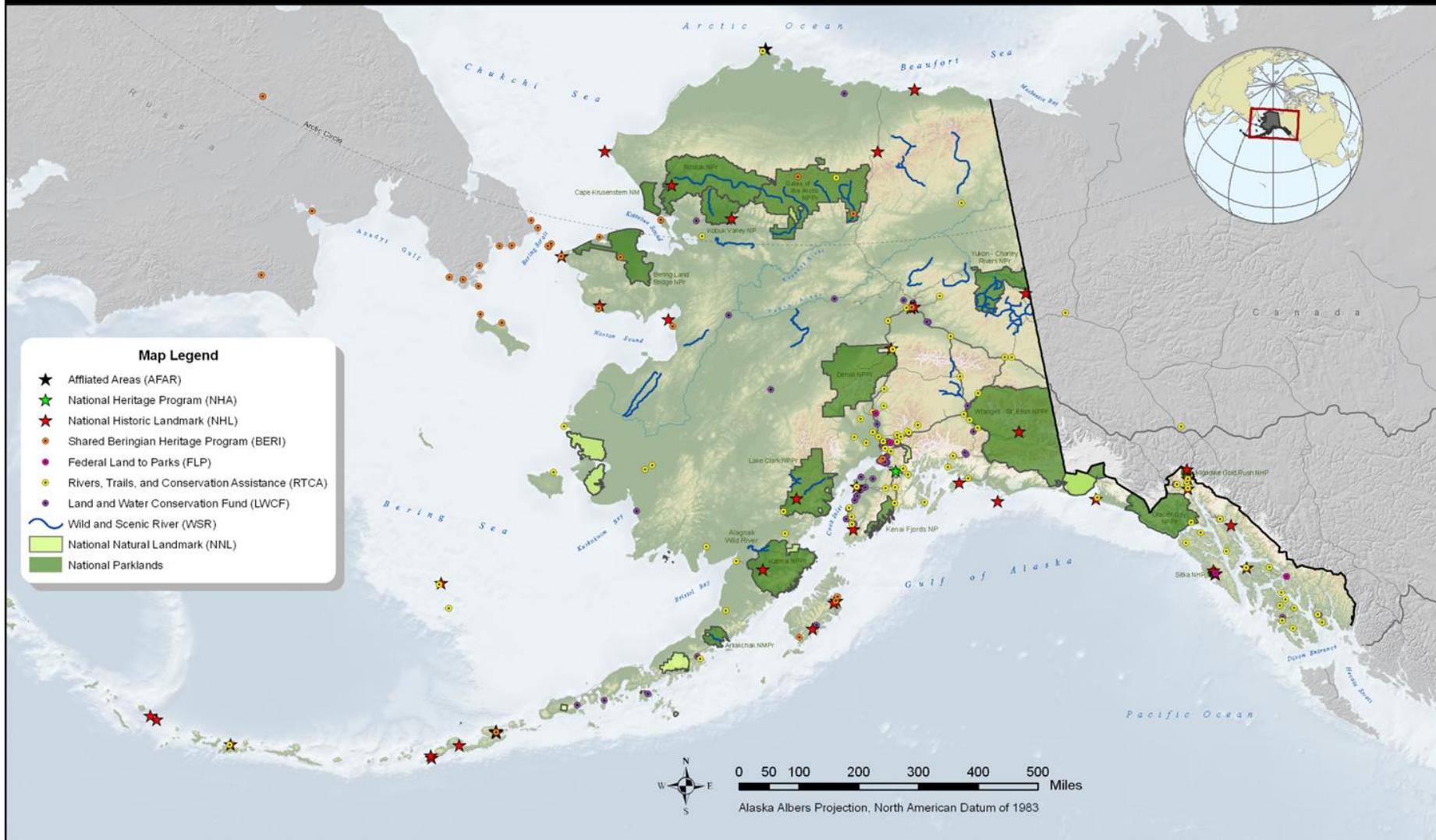
Insect Pollinators of Gates of the Arctic National Park

Jessica Rykken, Denali National Park and Preserve
Al Smith, Gates of the Arctic National Park and Preserve

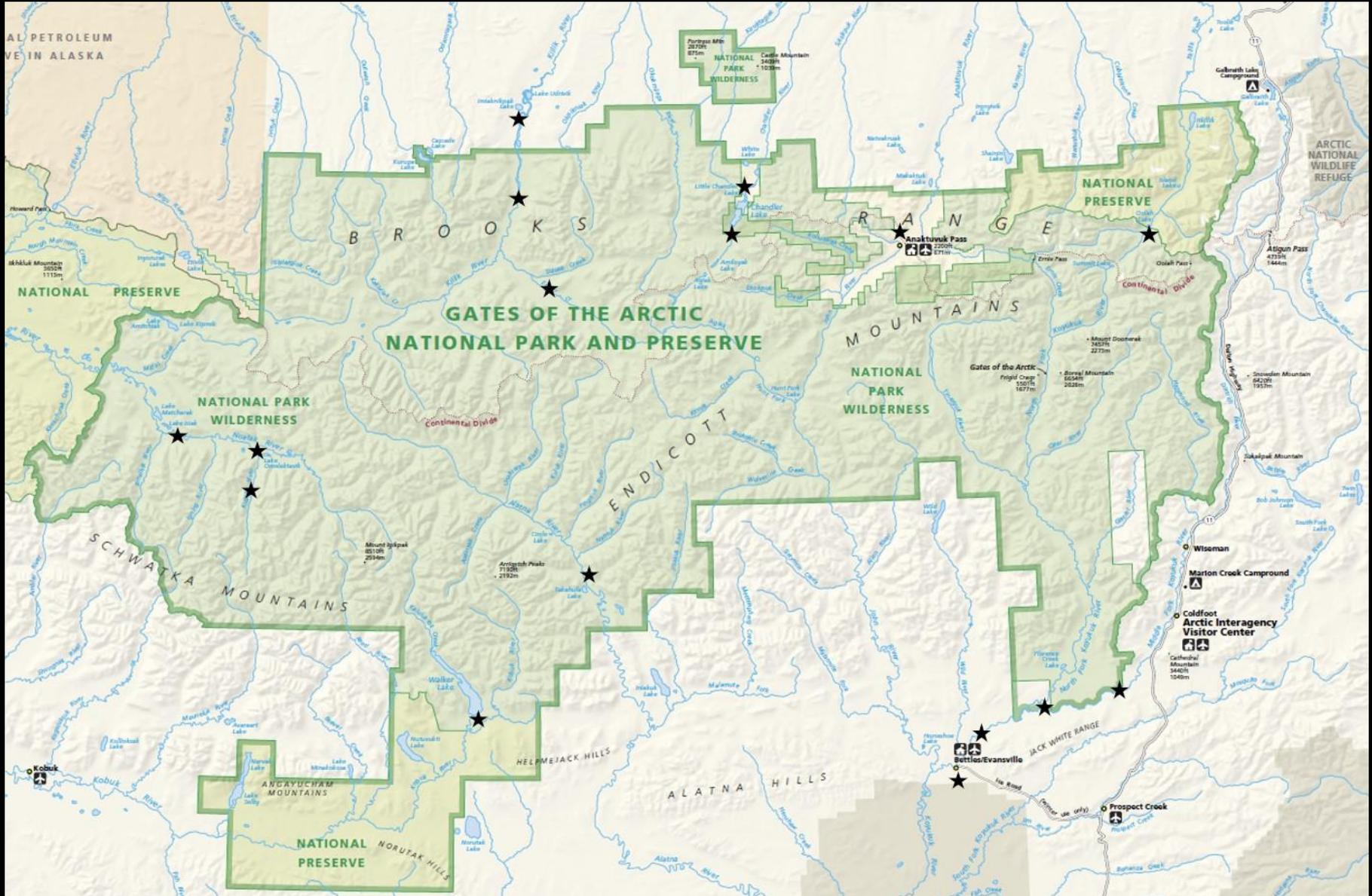


The National Park Service Alaska Region

National Park Service
U.S. Department of the Interior



Surveys in 2015, 2016, 2018



Collecting methods

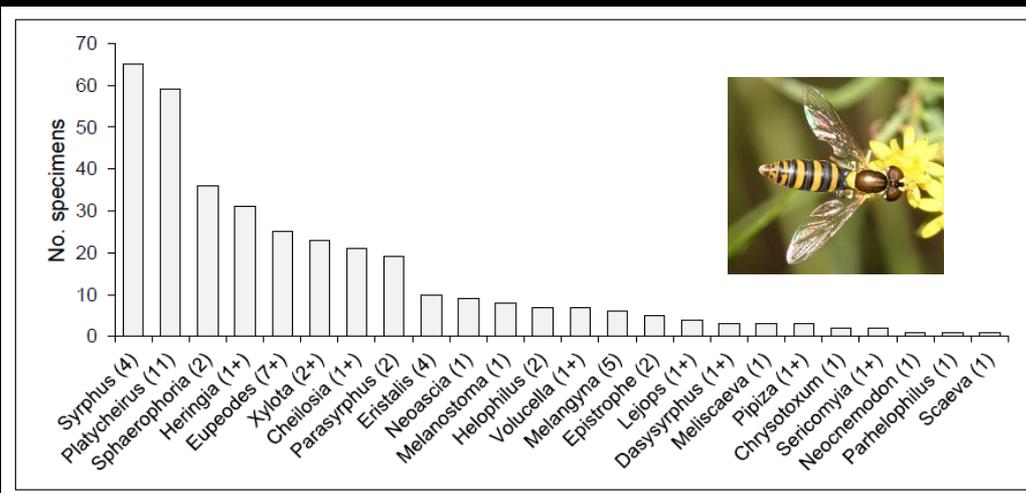
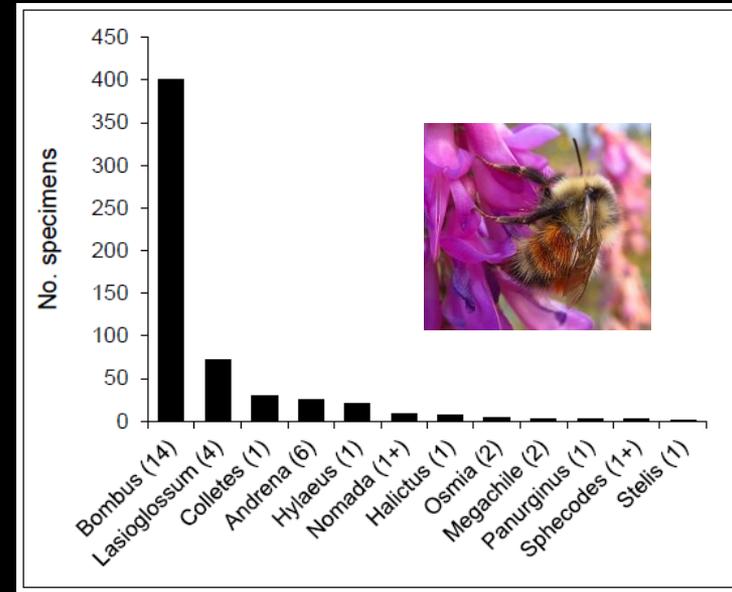
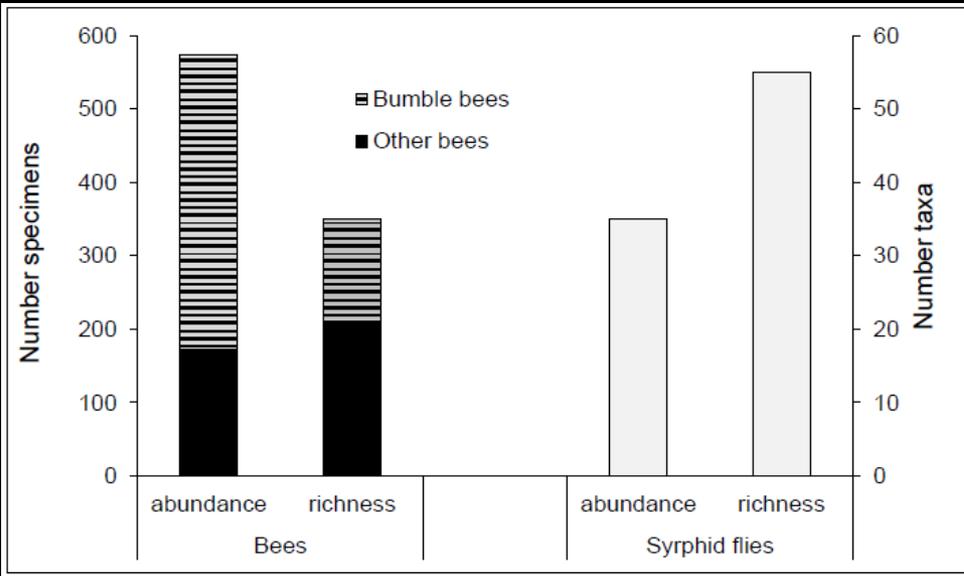


2015: July 2-18

2016: June 7-16

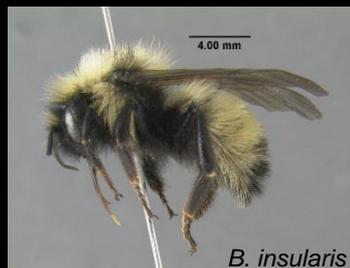
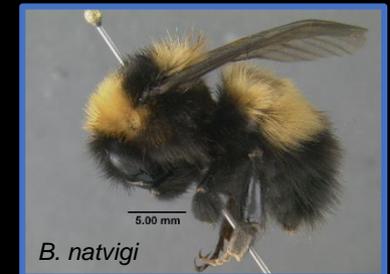
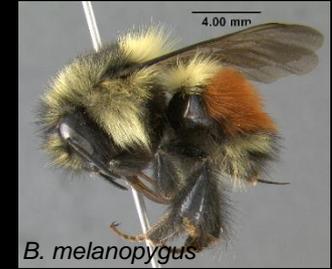
2018: June 27-July 3

Results (2015, 2016)



Bumble bees

16 species



Other bees



Andrenidae

Andrena barbilabris

Andrena miranda

Andrena thaspia

Andrena spp.

Panurginus ineptus

Apidae

Bombus species

Nomada sp.*

Colletidae

Colletes impunctatus

lacustris

Hylaeus annulatus

Halictidae

Lasioglossum comagenense

Lasioglossum inconditum

Lasioglossum tenax

Sphecodes sp.*

Megachilidae

Coelioxys sp.*

Megachile circumcincta

Megachile lapponica

Osmia nigriventris

Osmia tersula

*Stelis nitida** (new AK record)

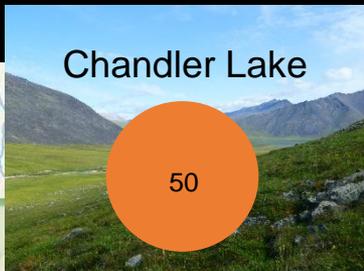
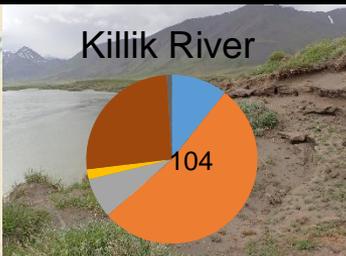
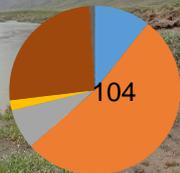


Images courtesy of USGS BIML

Generic diversity and habitat



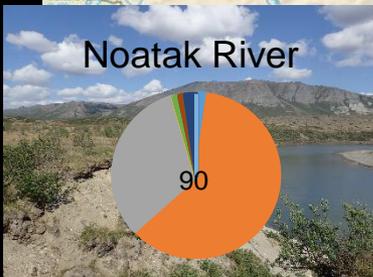
Killik River



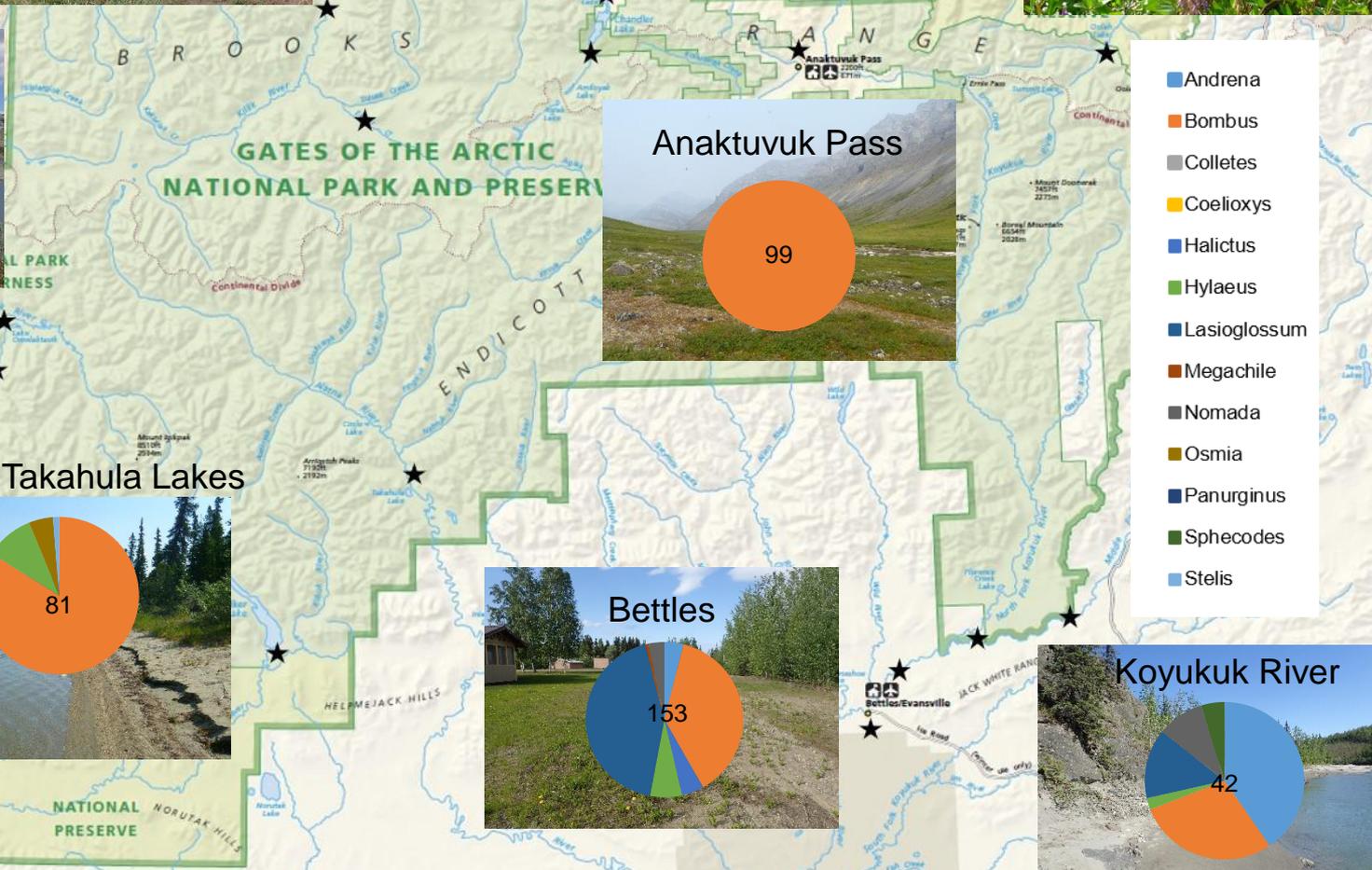
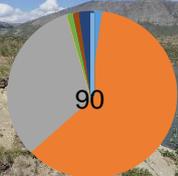
Chandler Lake



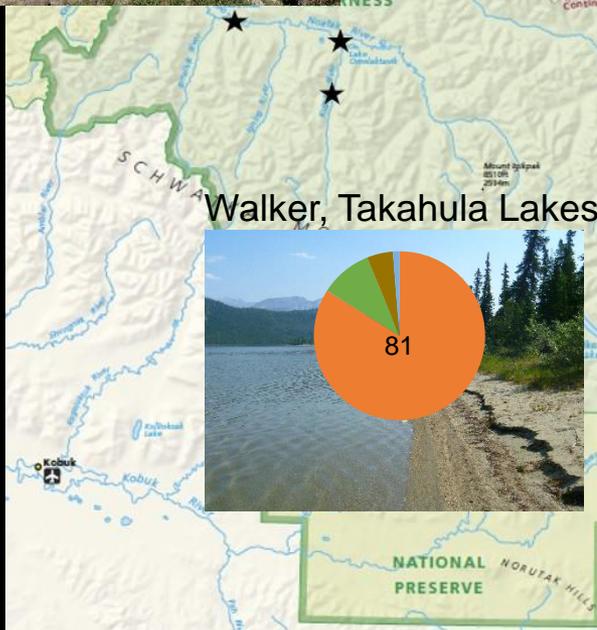
Itkillik River



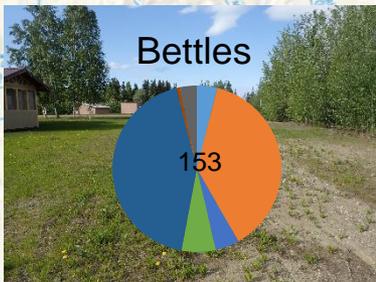
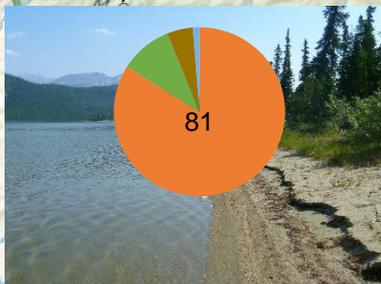
Noatak River



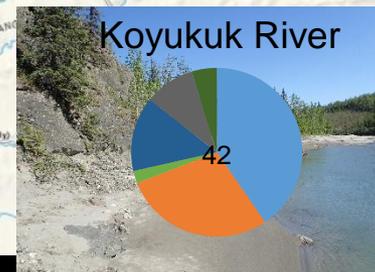
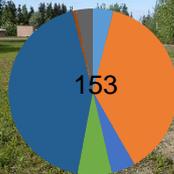
Anaktuvuk Pass



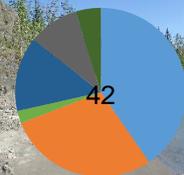
Walker, Takahula Lakes



Bettles



Koyukuk River

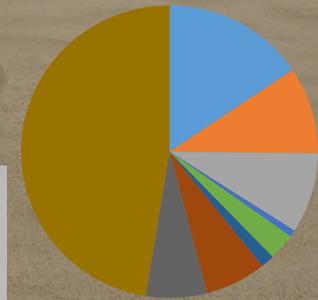


- Andrena
- Bombus
- Colletes
- Coelioxys
- Halictus
- Hylaeus
- Lasioglossum
- Megachile
- Nomada
- Osmia
- Panurginus
- Sphecodes
- Stelis

Kobuk Valley National Park



Kobuk Valley Sand Dunes



Syrphid flies

~55 species



Beatrice Laporte



Steve Scholnick



Jukka Jantunen



Parhelophilus laetus (new AK record)

Eristalis flavipes

Xylota sp.

Parasyrphus tarsatus

Chrysotoxum derivatum

Sphaerophoria abbreviata



Platycheirus sp.

Syrphus ribesii

Meliscaeva cinctella

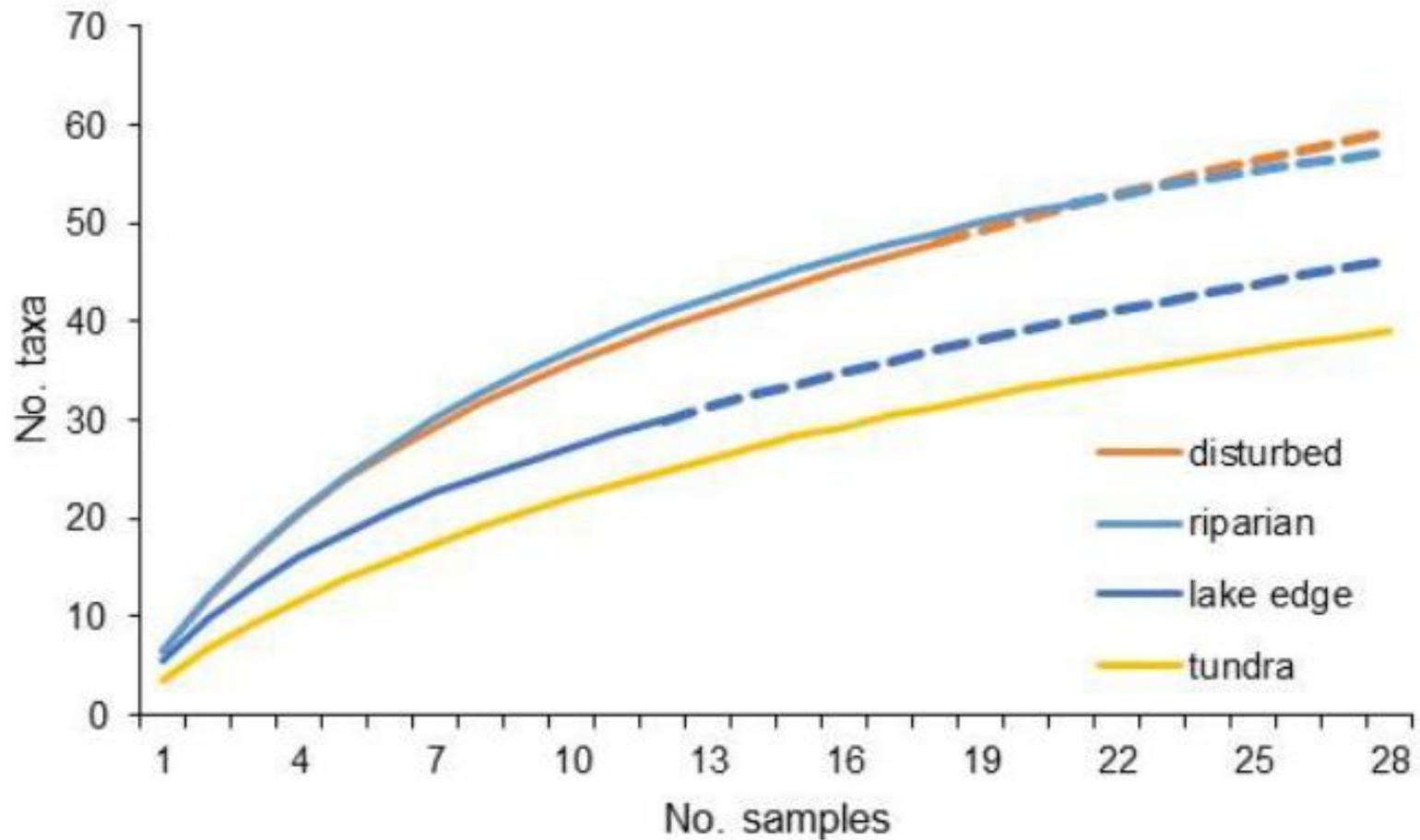


Melanostoma mellinum

Syrphinae larva

Melangyna labiatarum

Sampling across habitats



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