



23rd Annual - Alaska Shorebird Group Meeting
USGS Alaska Science Center
Alaska Pacific University, Glenn Olds Hall
4210 University Dr.
Anchorage, Alaska

December 6–7, 2017

MEETING MINUTES

6 December 2017

International Wader Study Group – Bob Gill

- Prague Meeting, September 2017
 - 202 persons registered, 198 attended. 3 workshops were held.
- Next meeting: Workum, the Netherlands, 28 Sept – 1 Oct 2018
- All are encouraged to join the group.
 - 50% of papers published in Wader Study are from North America but only 12-13% of members are from North America
- See <http://www.waderstudygroup.org/>

Global Flyway Network and Yellow Sea issues update – Lee Tibbitts, Nils Warnock

- New memorandum of understand was created among groups in Yellow Sea
- New papers published related to declines of species of the flyway
- Bird Life International updated population estimates for species of the flyway
- See <http://globalflywaynetwork.com.au/latest-news/>

Western Hemisphere Shorebird Group – Dan Ruthrauff, Rick Lanctot, River Gates

- VIIth WHSG, Paracas, Peru, 10–14 November 2017
 - ~ 200 persons in attendance (80% from Latin American countries); which was a strong departure from earlier meetings that had mostly North Americans
 - 76 persons received travel grants (largest ever showing a growing need)
 - One of few meetings that has simultaneous translation in Spanish and English
 - Multiple workshops were held prior to the formal meeting, including shrimp aquaculture, shorebird banding, Buff-breasted Sandpipers
 - 4 plenary speakers, 4 days of 3 concurrent sessions
 - eBird, and the development of the Peru Shorebird Conservation Plan
 - Three main awards given:
 - Wayne Burk was the recipient of the Juan Pablo Award
 - David Lank was the recipient of the Lew Oring Lifetime Achievement Award for Research

- Guy Morrison was the recipient of the Allan Baker Lifetime Achievement Award for Conservation
 - Executive Committee decisions included:
 - Committee agreed to write letters to support shorebird issues but agreed to only state facts and not push a particular opinion
 - Website will be developed soon
 - Changed Terms of Reference so executive committee members would serve 6 year terms except for the Student Representative which serves only 2 years.
 - The US and Canada region representative is Paul Smith (Paulallen.smith@canada.ca) from Environment and Climate Change Canada
 - The student representative is Scott Flemming (scott.flem9@gmail.com) from Trent University
 - See <http://www.corbidi.org/whsg-english.html>
- Next meetings: Panama in October 2019 & Argentina in 2021

Caribbean/South America Shorebird Hunting – *Audrey Taylor*

- Brad Andres and others are working on updating the shorebird harvest management plan. 7 objectives are addressed in the plan.
- Some say that hunting of shorebirds, including Lesser Yellowlegs and Bar-tailed Godwits, is occurring in Alaska at a concerning level.
- Also interested in knowing how many shorebirds harvested in Caribbean/South America come from Alaska?

Pacific Birds Habitat Joint Venture update – *Tom Rothe*

- Not discussed due to absence of T. Rothe
- See <http://www.pacificbirds.org/>

East Asian-Australasian Flyway Partnership - *Rick Lanctot, Nils Warnock, Casey Burns*

- Singapore Meeting, January 2017
 - Qupaluk Flyway Site was nominated and accepted at the meeting. Now looking for a sister site, possibly from Japan or the Southern Hemisphere
 - Group composed of 35 entities, including 22 countries.
- See <http://www.eaaflyway.net/our-activities/working-groups/shorebirds-working-group/>

Arctic Breeding Birds Conditions Survey Annual Forms - *Rick Lanctot*

- This is the annual only survey that includes the entire Arctic. It is an important resource that is available online.
- All researchers that work in the Arctic are encouraged to complete the survey.
- Forms are at <http://www.waderstudygroup.org/projects/arctic-birds-breeding-conditions-survey/>

Audubon Alaska's Watchlist – *Nils Warnock*

- Updated and now available online.
- 8 shorebird species are on the red list, including three shorebirds that have received less attention from ASG conservation lists. They are:
 - Arctic race of Dunlin
 - Sharp-tailed Sandpiper
 - Lesser Yellowlegs
- See <http://ak.audubon.org/conservation/alaska-watchlist>

CAFF's Arctic Migratory Bird Initiative -- *Rick Lanctot*

- This initiative tries to harness efforts by “observer countries” to the Arctic Council to work on migratory birds during the nonbreeding season
- The initiative focuses on two issues of focus are illegal hunting and habitat degradation in four flyways (Americas, East Asian-Australasian, African Eurasian, Circumpolar).
- Funds raised through CAFF Chair (US based) to hire America's Coordinator. Also hiring EAA and AE coordinator through other funds.
- Initiative has allowed funds to be raised in locations previously not available.
- Upcoming meetings in Fairbanks and China
- See <https://www.caff.is/arctic-migratory-birds-initiative-ambi>

Shorebird Festivals 2018 – *Tamara Zeller, Melissa Gabrielson*

- Cooper River Delta Shorebird Festival will be held the weekend prior to the Kachemak Bay Shorebird Festival.
- Tamara Zeller is coordinating the science talks for the 2018 Kachemak Bay Shorebird Festival in Homer, AK. If you are interested or know of others that may be interested in speaking please respond to Tamara.Zeller@fws.gov or call (907) 786-3517 by January 16, 2018 (earlier is better though). Below are the details.
 - Dates: May 10-13, 2018
 - Location: Homer, Alaska
 - Presentation Length(s): 20 or 50 mins
 - Subject: priority goes to talks about shorebirds but if there are other topic areas that might be of interest these would also be welcome
 - Provided to Speakers: gas \$ if folks are traveling from somewhere in Alaska and housing for one night

BLM Sensitive Species List Draft Review – *Casey Burns*

- Current list is from 2010. Revision to be completed by the spring. Input with respect to the draft is appreciated. Contact ctburns@blm.gov for more information.

Annual summary compilation – *Chris Harwood (for Kim Jochum)*

- Version 3 is still in draft. Currently have 16 submissions but waiting on some submissions. Rick sent nasty grams to people who haven't seen reports in.
- This is a record of all shorebird working happening in Alaska each year. This document has been produced yearly since 2002.
- *Please send your summary in.*

American Ornithological Society 2019 Meeting – *Colleen Handel*

- Will be held in Anchorage, June 2019
- Help will be needed for many of the organizing committees.
- Hopefully we can have a good Alaskan representation of talks.

Election of Officers

- Executive Committee Secretary (*currently filled by Kim Jochum*)
 - Lisa Kennedy nominated and accepted.
- Executive Committee (*currently filled by River Gates*)
 - Katie Christie nominated and accepted.

3rd revision of the Alaska Shorebird Conservation Plan - *River Gates, Rick Lanctot*

- There was interest in revising the species conservation list to de-emphasize the National List and focus more on steward, Alaska centric, species.
 - Nils Warnock and Colleen Handel will join the committee to re-examine and revise the list.
 - Stewardship List will be put in separate Table from the main list.
- Species accounts need to be written for two species
 - Nils Warnock will write account for RUTU
 - Kristine Sowl will take BBPL
- The group examined the following sections of the plan and suggested changes/additions.
 - Research
 - Habitat associations are missing
 - More research on potential impacts of development on species of high priority
 - Population Monitoring
 - More focus on boreal species.
 - Add “trends” to second bullet point.
 - For 4th bullet point, generalize to shorebirds and link to AK population (harvest from outside)
 - Bullet point 3, add “BBS” to ALMS
 - Is there a need to monitor important habitats? Put it in research section or elsewhere?
 - Use new techniques as they become available (e.g. drones)
 - Human disturbance
 - Adaptability to changes
 - Disease- shorebird vulnerability and resilience to disease, etc.
 - Encourage citizen science work with birders
 - Habitat Management and Protection

- Spatial mapping of distribution
 - International Collaborations
 - Broaden first bullet point
 - Mention Arctic Council, etc
 - BLOY working group no longer active
 - Add prism to last bullet point
 - Implement, Coordination and Evaluation of Plan
 - Chair or proxy will communicate products to international partners
 - Maintain a user friendly website that disseminates our products?
 - Lisa will create a multimedia product similar to one found on Manomet website
- Timeline for completion is Feb 1st, 2018, with draft for copy editor to review by March 1st.
 - Caroline will serve as copy editor

Presentations

- Pacific Americas Shorebird Conservation Strategy - *River Gates*
- Migration ecology and regional conservation priority for the Dunlin (*C. a. hudsonia*) - *Ben Lagasse*
- Characterizing arctic shorebird chick diets: providing insights into trophic mismatch with DNA barcoding and next-generation sequencing - *Danielle Gerik*
- Phenological mismatch in Arctic-breeding shorebirds: adaptability to earlier summers and impacts on chick growth - *Sarah Saalfeld*
- Timing, breeding propensity, and chick growth of shorebirds at an Arctic site in Alaska: does interannual variability in environmental conditions override potential mismatches? - *Dan Ruthrauff*
- Are geese the new climate change? Consequences of hyperabundant geese on sympatric shorebirds - *Lisa Kennedy*
- Threats to Arctic-breeding birds - *Rebecca Bentzen*
- Monitoring the Kenai Peninsula's spring shorebird migration - *George Matz*
- Determining migration routes, stopover sites, and habitat selection of a species of high concern: The Buff-breasted Sandpiper - *Lee Tibbitts*
- Migratory patterns of *roselaari* Red Knots - *Jim Johnson*

7 December 2017

Boreal Shorebird/Survey Presentations

- Nest site composition and niche partitioning: Implications for climate change - *Aaron Gottesman*
- Lesser Yellowlegs/Birds n Bogs - *Jim Johnson/Audrey Taylor/et al.*
- Migratory movements of Solitary Sandpipers breeding on Joint Base Elmendorf-Richardson, Anchorage, Alaska - *Laura McDuffie*
- Shorebird use and abundance on military lands in interior Alaska - *Ellen Martin*

- Population estimates and distribution of shorebirds on the Yukon Delta National Wildlife Refuge - *Kristine Sowl*
- Methodologies for detecting boreal-forest breeding shorebirds: baseline surveys conducted in the Susitna-Watana Hydroelectric Project area, Interior Alaska (BCR 4) - *Terry Schick*
- How to get the most out of avian inventory data - *Courtney Amundson*
- Whad'Ya Know...about boreal shorebird surveys? - *Chris Harwood*

2020 Boreal PRISM discussion - *Lanctot & Harwood*

What are our metrics/objectives?

- Distribution, occurrence
- Abundance, densities
- Habitat relationships
- Expect to monitor (i.e., true PRISM)?
- One-time inventory?
 - Possible risks with one year's effort
 - Late springs
 - How variable are numbers annually?

Are population trends we see in current projects consistent across the boreal?

Many species have no estimates for population or trend.

How are roads, mines, climate change, and habitat change going to affect these species? Declining species; are the declines more broadly and are more species suffering from the same problem?

We don't know distribution and abundance for some species to identify where the threats are.

First justification for a proposal is we are missing basic info for a large landscape and need basic distribution, abundance, habitat, etc. Then layer in threats. But we do know some threats already.

Link declining species to issues, e.g. lake drying, fire, etc. Trends are fundamental to drivers of landscape change.

We need to understand what's going on here, but many of the drivers for decline might not be in the boreal.

Need to know what climate change will do to provide solutions for affected species.

Would be good to know the "so what", but in some cases we don't know, just trying to quantify the scale of the issue.

NFWF is funding projects that will result in increased numbers of birds. What can we do to affect change?—that is what they want to fund right now.

What is the land ownership in the Boreal of AK? Has the highest human population and fastest growth. Also least protected under federal and state ownership, and even some of those are multiple use. Relatively low proportion of protected lands in this area. Therefore, the greatest opportunity exists here for conservation action. Good to predict how populations will be changing and identify areas that will be refugia and have some kind of effort to ensure there are large enough tracts of boreal wetlands to support stable populations. Looking for areas of stability and ensure they are protected for wildlife. Wetlands will be important because they provide fire breaks and refugia. (though habitat preference is at a finer scale than 'boreal wetlands')

BEACONS project- a conservation planning tool, down south, identified benchmark areas where they feel like they have intact landscapes—so for us, but we lack the fundamental data to build those benchmarks. We all agree we need more information.

Lesser Yellowleg Discussion

We know LEYE are declining, but there may be more info needs of more immediate concern. There you need more targeted studies to understand driving forces. We have information for some and others we don't understand. May be able to gain needed info on multiple info simultaneously.

Strong focus on the wintering ground because of unregulated hunting. Also group is interested in genetics approach and tagging approach to link wintering to breeding areas. But also unknown if something is limiting their survival or productivity on the breeding grounds. Is habitat change affecting chick production or survival?

To increase inference strength, need to study other populations too. Ecology different for LEYE in Anchorage vs. interior because not near the coast.

We don't even know where the highest densities of LEYE across the state. The picture becomes more complex when we look at a broader scale. Seems like the MATSU valley has high density compared to other places, but unknown.

Urbanization in Anchorage and Matsu make them a suboptimal place to focus all efforts to learn vital rates, need at least a couple of sites in less disturbed areas. Things are changing so fast in Anchorage that it's affecting chick survival and changing too fast. So studies are also being done on JBER and at other sites across AK and Canada.

Katie asked who has undisturbed LEYE populations they could study; Chris Harwood may have some and is interested, but no commitment at this moment. Not sure what kind of numbers are needed to make it feasible. Facilities may be available at Kanuti. Survival estimates will be hard, nests are hard to find. Timing is critical; but they have some site fidelity.

Similar to ASDN, a network of sites and a clearly defined protocol is needed. Sites could collect data on water chemistry, invertebrates, etc., and could be expanded to more species. The network takes lots of effort, but grows over time. Someone from Environment Canada called this morning and is interested in helping with LEYE.

Being focused on wetland-dependent birds allows us to build synergy.

Kenai NWR might be a site; has boreal forest. Refuges in general are ideal candidates for partners. It's a major focus of why they were selected in the first place. We get a broader scope of inference if multiple Refuges got engaged. Refuges will want full protocol and objectives, etc. before they jump on board with multiple Refuges.

Two major initiatives are being discussed: overall surveys (Tier 1) and demographic studies (Tier 2 PRISM). Arctic biologists have never done both simultaneously. It is not realistic to try to do both since not enough people to get the work done. There will be some hard choices to make because of limited funding and personnel.

We may need to mine the ALMS and BBS data to improve the study design for boreal bird surveys before starting to do surveys. For example, we need to know when is the best time to survey, design criteria, sample sizes, etc. These projects provide a good foundation to inform the next steps. ALMS and BBS are not telling us enough about shorebirds though, because of the timing of surveys each year. ALMS plots done at the appropriate times might give us a better picture (in May). River says they only detected most shorebirds 1 week on the Susitna River dam project. ALMS may be missing singing, but are getting hatching and brooding birds. Ebird may be helpful as well. Some routes have some arrival data from weekly routes. Recording devices will be very helpful to determine annual timing.

If ALMS are already an effective proxy for PRISM, then we already have a great mechanism in place. Could use LEYE as an indicator species?

Looking at WISN, all populations appear stable; different signals for WISN and LEYE; could use a comparative approach to narrow down why one is declining and the other is not.

We haven't looked at habitat associations yet in ALMS data, and we could look for spatial patterns of decline, allowing us to look for red flags in location. However we may be limited by sample sizes between BBS and ALMS. Can also look for connections to habitat from landcover layers or locally measured habitat at points. Timing of surveys is also important. We can look at places where we have done surveys across the season. Could also look at recorder data, we could put out additional recorders in selected wetlands. Could use this to narrow down potential sites for more intensive study.

Nils outlines three themes around boreal shorebirds

1. Need a better picture of what the boreal looks like now for shorebird distribution and abundance

2. What are the threats, especially those for declining species? Like LEYE.
3. How do we keep our boreal shorebird populations healthy into the future. Mostly we have discussed it in terms of understanding climate change. What other areas should we be focused on?

Chris can assess logistics at Kanuti, but it has to be done ahead of time, then he will know what he can offer.

Would be good to know how variable home range is to ALMS plots.

Rick hoped today we would brainstorm, get people invested in the work, but it won't be completed in 2 hours. Need a committee to make some decisions about how we will move forward.

Diane Granfors suggested developing a monitoring roadmap; she knows a facilitator that might be a good person to step us through the process.

Someone suggested that we augment ALMS by doing additional surveys at other times etc. Models do accommodate timing. We can look at existing data to see when species like LEYE fall out, etc. Colleen saw a talk this week with repeated visits and some shorebird species did not drop that much. If ALMS plots are getting 70%, then adding some earlier sets might be sufficient because you are increasing your sample size. A power analysis might tell us how many more plots we need, a GIS exercise to show us gaps in ALMS and BBS. Data exist with appropriate habitat to take a first look. Because ALMS plots are random, many plots either have no birds or there are few plots in appropriate wetland habitats in question. We may have to add plots in proper habitats. First step is an initial analysis of the data we have.

Data sources we can mine (send data to Colleen, share data with BAM)

Susitna/Watana ABR, River Gates gets them off the web.

BBS (Andres data), Jim Johnson and Steve

ALMS, USGS

ABO did a ton of point counts in the interior (ASI now), Audrey Taylor

Yukon/Kuskokwim BBS, and Kanuti inventory, Chris Harwood

Jim has Rusty Blackbird plots

eBird presence data, Nils Warnock

NPS inventory, USGS has it already

Army folks, DoD, Jeff Mason can provide older data and inquire about newer data

FIA, Kenai and Tetlin, Kristin DuBour

Spring phenology surveys at Galena and Tetlin-spring arrival March-May, Kristin DuBour

Yukon Flats put out automated recorders, Nikki Guldager, Kristin DuBour obtains

Mike Spindler, Susitna Basin ??

Creamer's Field, Lila Tauzer; Audrey will ask April/Rebecca Benson how to get ahold of Lila ltauzer@wcs.org

BAM might be a good source too, might they be interested in developing similar occurrence models for shorebirds in boreal Canada? Right now they are compiling data for BCR 4, getting ready for species distribution modelling. Mostly have greater yellowlegs and snipe. Steve Matsuoka.

NPS, additional survey data outside of IM, River Gates will talk to Dave Payer.

TARGET DATE to get data to Colleen: February 1, 2018.

Still have to look at how many species we will be able to address because most species have too few detections.

Ideas moving forward; can Sara at USGS do the analysis? Not sure how long it will take. May do a combination of collected habitat data and landcover; depends on the question you need to answer. Just doing detected/not detected, not trends. Find out what formats the data are available in.

It would be a first cut at refining our knowledge and identify what other places are good to look, and look at other data for spatial structuring of population trends. If we could come up with money, Sarah Thompson could work with Courtney. Sarah is available within the next year, perhaps within 6 months, or beginning next fiscal year.

Chris asks what to look for if he is trying to identify sites to do LEYE work. How many do you need to put out markers; survival study, you need at least 20. Probably won't put tags on Kanuti. Chris asks if they want other sites to put out tags at Kanuti or elsewhere. Could also get blood samples elsewhere in the state; 20 blood samples per site. Hatch dates are very valuable info. Need to know how many pairs and nest phenology. We do have the Gibson boreal info.

Working group members:

Colleen Handel

Katie Christie

Lee Tibbitts

Audrey Taylor

Jim Johnson

Chris Harwood, el Jefe

Nils Warnock

Rick Lanctot

Laura McDuffie

Jeff Mason

River Gates

Steve Matsuoka

Sarah Thompson

Ask Ellen Martin and Kim Jochum

Invite; engage Canadian colleagues Jenny Rausch, Pam Sinclair, Lisa Kennedy, Samuel Hache, Cynthia Pekarik. Someone from the Species at Risk group in Canada. Also Paul Smith, Erica Nol, Erin Bayne, Pete Marra, Laura Phillips, Casey Burns.

Diane Granfors asks to be kept in the loop. Diane reiterates they need someone like Melinda to keep them on task. She reiterates the need to define our questions.

Goals.

1. Trend estimates for rare species that are not necessarily covered by ALMS and BBS now.

Better info on a broader scale for declining species like LEYE

2. Understand habitat associations so we can understand how they might be changing going forward.
3. Use this info to assess the risk of various threats.

Is it worthwhile to go back and re-collect habitat data on BBS? Steve says not sure.

Scale is unclear for habitat information. Some species may have social component; they tend to stick together, so habitat alone may not get us the right information. If there have been big declines, habitat may not be saturated. In fact, habitats in AK may never have been saturated.

Other next steps or timeframe: Budget for Lesser Yellowlegs; adjustments to Katie's proposal need to be made within the next month.



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December 6–7, 2017

Wednesday, 6 December 2017 (see maps, parking instructions, call-in info at end)

8:30–8:45 Welcome and introductions – *Chris Harwood, Chair, ASG*

8:45–10:00 **Announcements and updates (5 min each)**

- International Wader Study Group – *Bob Gill*
 - Prague Meeting, September 2017
 - Next meeting: Workum, the Netherlands, 28 Sept – 1 Oct 2018
- Global Flyway Network and Yellow Sea issues update – *Lee Tibbitts, Nils W.*
- Western Hemisphere Shorebird Group: – *Dan Ruthrauff, others*
 - VIIth WHSG, Paracas, Peru, 10–14 November 2017
 - Next meetings: Panama in 2019 & Argentina in 2021
- Caribbean/South America Shorebird Hunting – *Audrey Taylor*
- Pacific Birds Habitat Joint Venture update – *Tom Rothe*
- East Asian-Australasian Flyway Partnership - *Rick Lanctot, Nils Warnock*
 - Singapore Meeting, January 2017
- Arctic Breeding Birds Conditions Survey Annual Forms - *Rick Lanctot*
- Audubon Alaska's Watchlist – *Nils Warnock*
- CAFF's Arctic Migratory Bird Initiative -- *Rick Lanctot*
- Shorebird Festivals 2018 – *Tamara Zeller (or proxy) et al.*
- BLM Sensitive Species List Draft Review – *Casey Burns*
- Annual summary compilation – *Chris Harwood (for Kim Jochum)*
- **Election of Officers**

The following positions are open for nomination and Election:
Executive Committee Secretary (*currently filled by Kim Jochum*)
Executive Committee (*currently filled by River Gates*)

10:15 – 10:45 Break

10:45–11:45 3rd revision of the Alaska Shorebird Conservation Plan *River Gates*
& *Rick Lanctot*

11:45–1:15 Lunch

6 December 2017 (cont.)

Beyond-treeline Shorebird/Survey presentations:

- 1:15–1:30** Pacific Americas Shorebird Conservation Strategy *River Gates*
1:30–1:45 Migration ecology and regional conservation priority for the Dunlin (*C. a. hudsonia*) *Ben Lagasse*
1:45–2:00 Characterizing arctic shorebird chick diets: providing insights into trophic mismatch with DNA barcoding and next-generation sequencing *Danielle Gerik*
2:00–2:15 Phenological mismatch in Arctic-breeding shorebirds: adaptability to earlier summers and impacts on chick growth *Sarah Saalfeld*
2:15–2:30 Timing, breeding propensity, and chick growth of shorebirds at an Arctic site in Alaska: does interannual variability in environmental conditions override potential mismatches? *Dan Ruthrauff*
2:30–2:45 External rather than internal factors drive incubation behavior in concealed-nesting Arctic-breeding shorebirds *Lisa Kennedy*
2:45–3:00 Snowbirds: full-cycle threats to Arctic-breeding birds *Rebecca Bentzen*
3:00–3:30 **Break**
3:30–3:45 Monitoring the Kenai Peninsula's spring shorebird migration *George Matz*
3:45–4:00 Determining migration routes, stopover sites, and habitat selection of a species of high concern: The Buff-breasted Sandpiper *Lee Tibbitts*
4:15–4:30 Migratory patterns of *roselaari* Red Knots *Jim Johnson*
4:30–4:45 Tying up the day's loose ends/Adjourn *Chris Harwood*

6:00–? **Dinner at Audrey Taylor's house (2661 Melvin Ave., Anchorage). Map at end of agenda.**

To simplify things for our gracious hosts, we will likely all chip in on pizzas, as in past years. So, please bring money for pizza, but also salads, appetizers, desserts, or drinks. Partners and kids are welcome, too, but please, no dogs.

Thursday, 7 December 2017

8:15–8:30 – New announcements

(Mostly) Boreal Shorebird/Survey presentations:

- 8:30–8:45** Shorebird nest site composition and niche partitioning: Implications for climate change *Aaron Gottesman*
8:45–9:15 Lesser Yellowlegs/Birds n Bogs *Jim Johnson/Audrey Taylor/et al.*
9:15–9:30 Migratory movements of Solitary Sandpipers breeding on Joint Base Elmendorf-Richardson, Anchorage, Alaska *Laura McDuffie*
9:30–9:45 Shorebird use and abundance on military lands in interior Alaska *Ellen Martin*
9:45–10:00 Population estimates and distribution of shorebirds on the Yukon Delta National Wildlife Refuge *Kristine Sowl*

7 December 2017 (cont.)

10:00–10:30 Break

- 10:30–10:45 Methodologies for detecting boreal-forest breeding shorebirds: baseline surveys conducted in the Susitna-Watana Hydroelectric Project area, Interior Alaska (BCR 4) *Terry Schick*
- 10:45–11:00 How to get the most out of avian inventory data *Courtney Amundson*
- 11:00–11:30 Whad’Ya Know...about boreal shorebird surveys? *Chris Harwood*

11:30–1:00 Lunch

- 1:00–4:00 2020 Boreal PRISM discussion *Lancot & Harwood*

4:00 Adjourn

WebEx Instructions:

Topic: Alaska Shorebird Group 2017

Date: Wednesday and Thursday, December 6–7, 2017

Time: 8:15 am, Alaska Standard Time (Anchorage, GMT-09:00)

Meeting number: 718 861 219

Meeting password: (This meeting does not require a password.)

Please click the link below to see more information, or to join the meeting.

Although no login account is required to use Webex to attend a meeting, you will need to supply your name and email address to join the meeting.

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Teleconference: Toll Free: 1-855-547-8255

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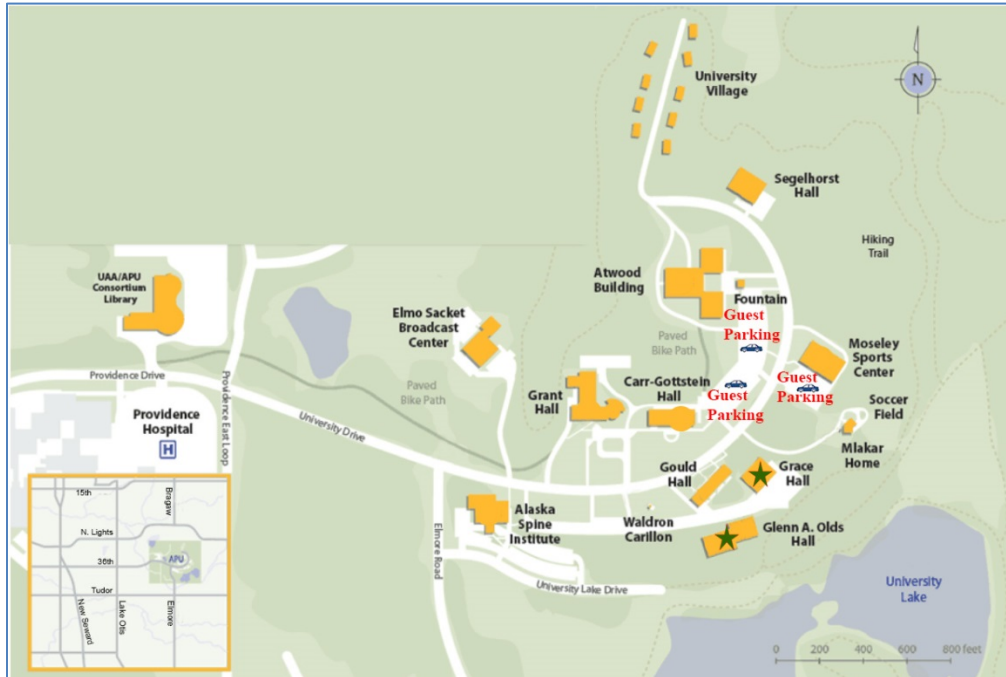
- USGS account questions: gs_help_webinar@usgs.gov

Contact Dan Ruthrauff if you have problems accessing the meeting: call or text 1-(907) 306-5204.

Parking:

Parking is limited at Glenn Olds Hall and Grace Hall. If parking at these sites is unavailable, guests should park at the Moseley Sports Center or in the lot between Carr-Gottstein and Atwood buildings. Please allow a few extra minutes for walking. Thank you.

Map of USGS Building location:



Map for Audrey Taylor's house.