

01:01:18 Song Stott (Wildlife Acoustics): Hello everyone!!

01:02:02 Aline Ferro: Hello from Brazil :)

01:02:29 Cristian Pérez-Granados: Hi, from Spain

01:02:51 Clemente Beltrán: Hello from Chile :)

01:03:05 Helen Taylor-Boyd: Hello from Zambia

01:03:15 Viviana Rojas: Hello from Paraguay!

01:03:36 Dirk Hautekiet: Hello from Belgium

01:03:36 Meike de Vringer: Good morning from Miami, Florida USA! :)

01:03:41 Carly Batist: Hello from NY, USA! I do passive acoustic monitoring with lemurs in southeastern Madagascar.

01:03:46 Leigh Richards: Hi from South Africa :)

01:04:15 Veli Mdluli: Hello from South Africa

01:04:32 David O'Brien: Hello from Inverness, UK

01:04:41 Beth Cooper: Good morning from NY. The sound is a little buzzy on my end.

01:04:45 DEBBIE ALSTON: Good afternoon from the sunny Peak District in the UK!

01:05:17 Cristian Pinto: Hi everyone! Greetings from Santiago, Chile, Neotropical region! :D

01:05:37 Edward Cheskey: Bonjour from Gatineau, Canada

01:05:44 Martin Kwiaton: Good morning from Thunder Bay, Canada.

01:06:04 Melissa Carroll: Good morning from Banff, Alberta

01:06:09 Sarah Fonville: Hello from Texas! I'm a first year grad student doing passive recording on songbirds

01:06:11 Laura Wood: Good afternoon from Worcester, UK

01:06:32 Renata Platenberg: good morning from the Virgin Islands in the Caribbean!

01:07:14 Fran Tattersall (Wildlife Acoustics): Hi from the UK!
Please set your chat to Panelists AND Attendees

01:07:38 Sri Chakra Pranav Tamarapalli: Hi from India!

01:07:41 Max Whitby: Greetings from Holy Island in Northumberland

01:07:44 Ross Baker: Hi from us in Surrey, UK – Surrey Bat Group

01:07:44 Sarah Johns: Hello from Norway!

01:08:08 Muhammad muhajir Hasibuan: Selamat malam (good evening) from Indonesia

01:08:22 Liliana Ferreira: Hello from Portugal c:

01:09:39 Song Stott (Wildlife Acoustics): Yes, everyone is muted. Please chat to Panelists & Attendees, and put QUESTIONS in the Q&A

01:09:51 Michael Schneider: Good afternoon from Sweden

01:10:33 Karry Kazial: Hello from Buffalo, NY, USA

01:11:09 Filippo Maria Buzzetti: Hi all from Italy!!

01:11:31 Autumn Jordan: Hi from Ottawa, Canada!

01:14:04 Fran Tattersall (Wildlife Acoustics): Please chat to Panelists AND Attendees, and put QUESTIONS in the Q&A

01:17:52 Michelle Dragoo: Good morning from the northern coast of Oregon!

01:22:40 Carly Batist: The MVP's are always the doggo's :)

01:28:27 Song Stott (Wildlife Acoustics): Follow Professor Fiona on Twitter!

01:28:29 Song Stott (Wildlife Acoustics): @FionaMathews and also @sussexlifesci

01:28:42 Evans Bailey: Howdy, Folks! from Oklahoma City

01:31:35 Song Stott (Wildlife Acoustics): All the presentations will be available after this webinar– and email with a link will be sent to everyone who is registered :)

01:33:31 Song Stott (Wildlife Acoustics): If you have any questions for Professor Fiona, please put them in the Q&A!

01:34:48 Carly Batist: How do you 'upvote' questions in the Q&A? Paul mentioned this in the intro but I can't seem to figure out how to do it

01:39:00 Carly Batist: Thanks, the upvote button is now appearing for me!

01:50:23 Carly Batist: The AudioMoth has its own case now, which works fairly well in the rainforest I work on

01:50:26 Dr. Dan Mennill: I agree with that perspective from Fiona.

01:51:35 Carly Batist: Does Cornell's Swift unit detect ultrasonic? I've actually found they are most durable and long-lasting than SongMeter's, as they're built into Pelican cases and you can put a couple D batteries in them.

01:52:54 Diana Barber: L shaped connector?

01:52:58 Dr. Dan Mennill: In my group, when we first get cables, we reinforce the joints with tape.

01:53:23 Dr. Dan Mennill: We have experienced less damage at this part of the equipment when we add extra protection from the very beginning.

01:53:40 Carly Batist: ^I do this as well, with electric tape

01:54:15 Song Stott (Wildlife Acoustics): Ha! I do that with my iPhone cable that I travel with! I guess it's all cables in general :)

01:54:23 Andrew Fairbairn: There were some recent results showing painting one blade black helps with bird collisions

01:55:30 Dr. Dan Mennill: @Song Stott: Yes! We do this with ALL cables from ALL manufacturers in our research group, whenever we want a cable to last a long time in field deployments.

01:56:04 Muhammad muhajir Hasibuan: Thank you

01:58:41 John Muddeman: An array of mics at say 20 or 30m distances down the stem of the turbine would help to cover the distance from the nacel down to the ground?

01:59:18 Camila Hurtado: FYI this is the ecobat website: <http://www.ecobat.org.uk/>

01:59:46 Claudius Kerth: Many thanks, Fiona!

01:59:55 Sarah Fonville: Thank you!

02:00:09 Edward Cheskey: Thank you Fiona!

02:00:17 Camila Hurtado: Thank you!!

02:00:26 Karry Kazial: Thank you!

02:00:31 Aline Ferro: I don't see a way to send clap icon here :
(Anyway, thank you for your talk.

02:00:54 Greg Slack: The Ecobat tool: <https://www.mammal.org.uk/science-research/ecostat/>

02:01:01 Robert Ashington: Really good - thank you!

02:02:51 Robert Bell: I hope she's going to show her bird cam!

02:04:51 Dr. Dan Mennill: That zipline is awesome.

02:05:48 Aline Ferro: So beautiful their calls

02:08:55 Song Stott (Wildlife Acoustics): Hahah! Don't rub your eyes!

02:09:48 Song Stott (Wildlife Acoustics): This is a super creative, yet practical solution!

02:11:29 Song Stott (Wildlife Acoustics): #Smart!

02:13:13 Kim laframboise: sorry just sent this to panelists only - We did then same with PVC but also used steel wool at the end to prevent mice from getting in (they can get in very tight spaces) and help to prevent ants and wasps

02:14:35 Kelli Applegate: Nice - good idea

02:16:10 Kim laframboise: Tip when using duck/ gaffer tape I use the "non residue" kind. It is bit more expensive but does not leave the nasty residue and does not degrade as fast from UV

02:16:26 Dr. Dan Mennill: Good tip Kim!

02:17:00 Dr. Dan Mennill: For reinforcing cable, we have had good luck with "electrical tape" for not leaving residue.

02:17:13 Carly Batist: Same, Dan!

02:19:21 Kim laframboise: Yup! But some times we needed the extra grip from the larger tape

02:20:34 Song Stott (Wildlife Acoustics): "Tripod Bash" is gonna be the name of my new garage band! LOL

02:20:43 Mona Doss-Spencer (Wildlife Acoustics): @Minerva, make sure you are adding questions in the Q&A so panelists can see it!

02:22:02 Dr. Dan Mennill: Great talk Laura!

02:26:31 Greg C: Talking of synchronising sound and audio, is it just me, or are others finding the panellists audio and vid is out of sync?!

02:27:26 Kim laframboise: Funny enough the you can also use old bear spray (when expired) just discard it to a container and use it. Good solution in Canada when looking to dispose of old bear spray

02:29:56 Professor Fiona Mathews: cows a nightmare for eating cables and microphones. No issues with rabbits

02:30:16 Greg Slack: I've used electric fences for protecting SM2s from cows as I've had them trampled before as well as the wires chewed through.

02:30:30 David O'Brien: We have a house rabbit and he loves chewing cables. Mice can be bad too, voles less so for some reason.

02:31:10 Jamie Barichivich: bears are nightmares for eating all manner of plastic, including PVC and the case of the SongMeter itself

02:31:19 Kim laframboise: Yes rabbits, squirrels, cows and even feral Alberta when we put the units on fences . So much we started using bird cages (the ones you get for bird feeders) to protect the units

02:31:40 Kim laframboise: Opps horses

02:32:21 Kelli Applegate: Jamie: I'm in coastal NC and will be battling black bears. Any tips you've found to prevent damage to PVC and the armored case?

02:37:54 Jamie Barichivich: Kelly: I have had limited success in mitigating bears, mostly in SW Florida where they seem to be most numerous. Most of my success has come from mounting ARUs higher up and presumably further from their reach. It seem to be mostly a matter of curiosity. That said rodents still chew, mostly, on mic covers. It makes me wonder if human scent, especially from sweat, may be exacerbating the problem

02:38:37 Carly Batist: ^I would agree on the bears with placements. If you use smaller-DBH trees that they would be too heavy to climb

02:39:04 Kelli Applegate: Good tips. Thanks to you both :)

02:39:06 Dr. Dan Mennill: Here's the cow solution!

02:39:39 Carly Batist: Of course, I work in Africa where primates and their pesky dexterous fingers and opposable thumbs present issues

that placement cannot fix

02:45:01 Mona Doss-Spencer (Wildlife Acoustics): :)

02:52:37 Robert Ashington: Oh – for a network like this in the UK!

02:52:38 Melissa Carroll: A note on bears and pepper oils: pepper oils are bear attractants, so if you have issue with bear curiosity / equipment damage, you may not want to use pepper oils as a deterrent

02:52:58 Claudius Kerth: Thank you, Hedwig!

02:53:02 Dr. Dan Mennill: Great presentation Hedwig! You reply SO MANY UNITS!

02:53:21 Edward Cheskey: Great talk Hedwig! Will be reaching out

02:53:22 Harald Renner: Which is instead to use to deter bears from devices?

02:53:29 Kelli Applegate: Thanks, Melissa!

03:06:44 Amandine Gasc: Anybody had deployed in mountains and has problem with snow cover ? I am thinking about issues such as snow moving the microphone while melting or also snow covering the recorder for period of time. How do SM4 do under snow for a couple of months? Thanks! (sorry I missed part of the presentation maybe this discussion already happen)

03:08:25 Harald Renner: To which distance the SM devices can record Lynx screamings or wolf howlings?

03:10:38 Jamie Barichivich: that would be a matter of the Inverse Square Law. one possible solution for you <<https://www.wkcgroupp.com/tools-room/inverse-square-law-sound-calculator/>>

03:12:03 Harald Renner: thanks for the link

03:17:23 Wayne Matkoski: Thanks for the link Jamie – haven't seen that before, will be a big help!

03:21:53 Melissa Carroll: has anyone ever done "range" measurements at your stations, to estimate range of target species based on expected SPL/frequencies?

03:22:16 Fran Tattersall (Wildlife Acoustics): Please ensure your chat is set to Panelists and Attendees or people won't see your comment.

03:22:58 Melissa Carroll: re bear deterrents – like Hedwig it doesn't happen often. Longer term ARU deployments are newer to us, but with our remote camera program, bear damage is not frequent

03:23:36 Amandine Gasc: @Melissa I tried to measure the detection range of the recorder on different sites using several frequencies

03:23:56 Jernej Polajnar: Melissa: it can be done with playback and a sound level meter if you know how loud your species of interest is

03:25:01 Melissa Carroll: re bear deterrents for remote cameras: we do use metal security cases made by the manufacturer

03:25:57 Melissa Carroll: Thanks Amandine and Jernej!

03:27:59 Dr. Dan Mennill: A question for Moacir: How does he determine if a microphone is still working properly, after a sound baffle is chewed?

03:29:33 Aline Ferro: Professor Tinoco, please let me know who is your colleague from UTFPR. Thank you.

03:32:24 Jenna Schlener: Thank you!

03:33:57 Aline Ferro: Thank you

03:34:05 Edward Cheskey: Obrigado Prof Tinoco!

03:34:58 Aline Ferro: Is there any unit recording mammals too? Where?

03:35:46 Hedwig Lankau: @Melissa Carrol One of our graduate students, Daniel Yip (supervisor Dr. Erin Bayne), did his thesis work on sound attenuation and has a few papers out like this one: <https://zslpublications.onlinelibrary.wiley.com/doi/full/10.1002/rse2.118>

03:37:38 Melissa Carroll: Thank you Hedwig! That's very helpful.

03:39:26 Autumn Jordan: Thank you!

03:39:30 Melissa Carroll: T

03:39:30 Amandine Gasc: Thank you!

03:39:31 Claudius Kerth: Many thanks Moacir!

03:39:40 Melissa Carroll: Thank you!

03:39:50 Greg C: Obrigado. Muito bon

03:40:20 José Souza Júnior: Muito bommm, parabéns!

03:41:17 José Souza Júnior: What amazing chat, so happy learning with you guys

03:42:47 Song Stott (Wildlife Acoustics): You can contact Dr. Moacir here: moacirtinoco@gmail.com

03:42:50 Song Stott (Wildlife Acoustics): Also at Twitter (@moacirtinoco), Facebook (Mó Tinoco) and Instagram (@moacirtinocophd)

03:43:25 Dr. Moacir Tinoco: Hi everyone, my contacts if you need to get in touch: moacirtinoco@gmail.com; Twiter (@moacirtinoco) , Facebook (Mó Tinoco) and Instagram (@moacirtinocophd).

03:45:11 Cecilia Serpa: Tinoco, qual intervalo voc

03:45:32 Cecilia Serpa: você disse que programava os song meters? de 15 em 15 minutos ?

03:47:48 Cecilia Serpa: thank you!

03:50:53 Dr. Dan Mennill: Good vibes to YOU Luis. Interesting talk!

03:51:09 Clemente Beltrán: Saludos a El Salvador!! Desde Chile1

03:52:56 Aline Ferro: Obrigada, Tinoco. Eu estou no grupo da Patricia Monticelli da USP em Ribeirão Preto. Resido no Paraná. Aqui eu trabalho com os quatis. Você tem alguma unidade gravando mamíferos também? Temos uma biblioteca sonora de mamíferos.

03:53:27 Jernej Polajnar: lol, everybody thinks of UK as a humid environment :P

03:54:28 Robert Ashington: Mostly humidity in droplet form! :)

04:01:48 Amandine Gasc: Thank you Luis!

04:01:55 Claudius Kerth: Thank you Luis!

04:02:03 Hedwig Lankau: There was a question earlier about snow level in the mountains and SM4s. I can't answer about the SM4 being covered by snow but that would muffle any sounds reaching the mics. We do collect snow depth at time of deployment for stations put out in the winter. Where we place the Song Meter depends on what our target season is. If we only wanted winter birds, putting it above the snow would be essential. We usually place them at a standard height and so that we can get them down in the summer without a ladder (with 2 to 4 m of snow it's easy for the unit to be high up after the snow melts). I'm curious about other protocols for winter versus summer in areas

with deep snow.

04:06:03 Amandine Gasc: Thanks Hedwig, yes I think we were more interested in getting sounds of spring but the location are remote and we were concerned to miss the beginning of the spring, ideally we want to have the soundscape a little before the spring. So we were considering the option of deploying in fall and start to record a little before spring. so the question is would it even work after spending the winter under snow.

04:09:51 Amandine Gasc: Love this microphone arrays, what a deployment Paul!

04:12:12 Hedwig Lankau: @Amandine Gasc In my experience, the Song Meters are OK as long as they are above water. We do get freezing rain and freeze-thaw cycles in the boreal and the Song Meters generally do fine even if we deploy in the fall and they sit all winter before turning on in March. So a bit of ice on them seems to be OK. it's only when they end up under water e.g. tip over into a pond, that they don't do well.

04:12:51 Amandine Gasc: @Hedwig ok thanks!

04:15:06 Aline Ferro: @Dan Mennill, what is the name of this software you utilized to record your talk?

04:15:30 Dr. Dan Mennill: @Aline: Zoom!

04:17:15 Robert Bell: @Dan Will your slides be available?

04:17:32 Dr. Dan Mennill: @Robert: Yes.

04:18:31 Amandine Gasc: Love this microphone arrays, what a deployment Daniel! (it is better with the correct name...sorry about that :)

04:18:57 Dr. Dan Mennill: Thanks Amandine!

04:19:07 Dr. Dan Mennill: @David: Syrinx PC.

04:20:43 Aline Ferro: @Dan Mennill, thanks. What about the animations and the removal of the background of your image?

04:21:33 Dr. Dan Mennill: @Aline: Animated slides I made in Powerpoint. A green screen with Zoom with the Share Screen > Advanced option.

04:24:20 Edward Cheskey: Thank you Dan! That was awesome.

04:24:33 Mark Hulme: Great talk, thank you!

04:24:41 Amandine Gasc: very inspiring presentation. thanks

04:25:06 Juan C. Torres Mura: Many thanks to WA for your very interesting webinars!!! and also to the colleague's for their presentations.

04:25:18 Greg Slack: Thanks very much – it was a really interesting presentation

04:25:21 Aline Ferro: @Dan Mennill, thanks for the amazing presentation and work!

04:25:41 Robert Bell: Thank you, Dan....especially volunteering to help with questions on other projects :)

04:30:34 Aline Ferro: @Dan Mennill. You are simply amazing in speaking. So, have you ever considered to offer an online course on bioacoustics? Maybe on Coursera...

04:33:52 Sean Kerr: biangulation could be interesting to use at the boundary of a habitat, for example.

04:34:15 Dr. Moacir Tinoco: That's an amazing approach Dan, congratulation. What a rich talk! Congratulations!

04:35:22 Amandine Gasc: I will connect with you about crickets thank you Daniel!

04:39:25 Hedwig Lankau: Richard Hedley works with Dr. Erin Bayne and the Bioacoustic Unit field program.

04:39:35 Andrew Rowlandson: Would be interesting for planning permission as well. To infer the most biologically beneficial areas within a site.

04:43:56 Ian Agranat: Song Meter time synch is actually continuously adjusting the clock drift second by second throughout the recording...

04:51:16 Dai Shizuka: Fantastic Dan! Thank you!

04:51:44 Ross Baker: Fantastic webinar thank you.

04:51:46 Karry Kazial: Thank you so much!

04:51:49 Aline Ferro: This webinar was simply wonderful! I loved the idea of talking about deployment.

04:51:51 Kim laframboise: Fantastic thanks

04:51:53 FRANCISCO SÁNCHEZ: very nice! thanks!

04:51:54 John Muddeman: Fantastic! My thanks to all for a fascinating afternoon (here) session! Many, many thanks!

04:51:55 Sarah Fonville: Thank you!

04:51:57 Amandine Gasc: Thanks everyone!

04:52:00 David Plummer: Thanks, all!

04:52:01 Andrew Fairbairn: Another fantastic webinar, thanks to Wildlife Acoustics and all the speakers!

04:52:09 Wayne Matkoski: Thanks everyone!

04:52:10 Beth Cooper: Great webinar, thanks to all the presenters!!

04:52:11 Fran Tattersall (Wildlife Acoustics): Please fill in our feedback survey to win a Song Meter Micro <http://bit.ly/MissionDeploymentSurvey>

04:52:17 Fran Tattersall (Wildlife Acoustics): Please fill in our feedback survey to win a Song Meter Micro <http://bit.ly/MissionDeploymentSurvey>

04:52:17 Sean Kerr: Thank you all so much! :)

04:52:19 RAVICHANDRA MONDRETI: Great talks! I have a learnt a lot Thanks

04:52:21 Kim Chase: Thank you all! Such great talks and a mountain of information

04:52:21 Fran Tattersall (Wildlife Acoustics): Please fill in our feedback survey to win a Song Meter Micro <http://bit.ly/MissionDeploymentSurvey>

04:52:24 Greg C: Great session – and well chaired! Many thanks

04:52:25 Claudius Kerth: Thanks to all speakers!

04:52:26 Melissa Carroll: Thank you

04:52:28 Edward Cheskey: Really excellent session!

04:52:30 Mike Lynch: Great presentation. Thanks

04:52:33 Andrew Rowlandson: Thank you very much!!!

04:52:33 Robert Ashington: Excellent webinar – much appreciated
and thanks to all involved.

04:52:34 Fran Tattersall (Wildlife Acoustics): Please fill in our
feedback survey to win a Song Meter Micro [http://bit.ly/
MissionDeploymentSurvey](http://bit.ly/MissionDeploymentSurvey)

04:52:37 Daniel Menendez Perez: thank you!!

04:52:38 Claudius Kerth: and thanks to Paul !

04:52:44 Fran Tattersall (Wildlife Acoustics): Please fill in our
feedback survey to win a Song Meter Micro [http://bit.ly/
MissionDeploymentSurvey](http://bit.ly/MissionDeploymentSurvey)

04:52:51 Clemente Beltrán: Thank you very much!

04:52:59 Dr. Moacir Tinoco: Thank you everyone, that was a great
webinar!!

04:53:01 Martin Riesing: Thank You so much!

04:53:01 Clemente Beltrán: This was awesome!

04:53:05 Fran Tattersall (Wildlife Acoustics): Please fill in our
feedback survey to win a Song Meter Micro [http://bit.ly/
MissionDeploymentSurvey](http://bit.ly/MissionDeploymentSurvey)

04:53:21 Diana Barber: Thank you!

04:53:30 Fran Tattersall (Wildlife Acoustics): David Attenburgh
watch out!

04:53:36 Liliana Ferreira: Thank you so much all of you for
doing this webinar c:

04:54:34 Mona Doss-Spencer (Wildlife Acoustics): Thank you everyone
for coming, and thank you to our AMAZING presenters!!