

**From:** [Guinotte, John](#)  
**To:** [Stephen Torbit](#)  
**Subject:** Fwd: avalanche info for wolverine  
**Date:** Wednesday, March 29, 2017 9:55:33 AM  
**Attachments:** [image002.png](#)  
[image004.png](#)  
[image001.png](#)  
[image003.png](#)

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Hi Steve, Hope you had a nice trip. Just sent you an invite to this call next week if you are interested.

John Guinotte  
Fish and Wildlife Biologist  
Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6  
134 Union Blvd., Lakewood, CO 80228  
303-236-4264  
[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

----- Forwarded message -----

**From:** **Birkeland, Karl -FS** <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)>  
**Date:** Tue, Mar 28, 2017 at 1:03 PM  
**Subject:** RE: avalanche info for wolverine  
**To:** "Guinotte, John" <[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)>

Works for me, John. Just added to my calendar. Would you like to just call me at the number below?

Karl



**Karl Birkeland**  
**Director**  
**Forest Service**

**National Avalanche Center**

p: 406-587-6954  
[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)

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Bozeman, MT 59771  
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**Caring for the land and serving people**

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]

**Sent:** Tuesday, March 28, 2017 11:01 AM

**To:** Birkeland, Karl -FS <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)>

**Subject:** Re: avalanche info for wolverine

Sounds good Karl. How about 1pm next Tues? I'll send you the link for the webinar. If you don't mind, I might invite Steve Torbit to join us. Steve is the assistant regional director for science applications for our region and has been working closely with me on the snow issue for wolverine.

Thanks John

On Tue, Mar 28, 2017 at 10:52 AM, Birkeland, Karl -FS <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)> wrote:

Hi John –

Tuesdays work good for me. How about sometime between noon and 3 pm on Tuesday?

Karl



**Karl Birkeland**  
**Director**  
**Forest Service**

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**Caring for the land and serving people**

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]

**Sent:** Tuesday, March 28, 2017 10:44 AM

**To:** Birkeland, Karl -FS <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)>

**Subject:** Re: avalanche info for wolverine

Thanks Karl,

I'm out of the office Friday. If you can provide a couple of days/times that work for you next week, I can work around your schedule. The only day that isn't good next week for me is Wed.

Best,

John

On Tue, Mar 28, 2017 at 10:28 AM, Birkeland, Karl -FS <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)> wrote:

Hi John –

I'll be out of the office all day tomorrow and I'm pretty tied up on Thursday. Friday might be possible, or next week sometime.

Happy to help –

Karl



**Karl Birkeland**  
**Director**  
**Forest Service**

**National Avalanche Center**

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Caring for the land and serving people

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]

**Sent:** Tuesday, March 28, 2017 9:13 AM

**To:** Birkeland, Karl -FS <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)>

**Subject:** Re: avalanche info for wolverine

Hi Karl,

Sorry for my late reply to your email. Juggling too many balls. Do you have some time this week to chat? Would tomorrow 9 am work for you? If not, I'm open Thursday as well.

There is some debate regarding whether or not snow is a requirement for wolverine denning success. I can talk to you about this over the phone. I can show you some data from Glacier via a webinar tomorrow. Unfortunately, I can't send you the slides as the locations of wolverine dens are sensitive and we've agreed (with the researchers who provided the locations) not to share them.

Many thanks John

On Thu, Mar 2, 2017 at 10:40 AM, Birkeland, Karl -FS <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)> wrote:

Hi John –

That sounds like an interesting project. I'd be happy to talk with you about avalanches and avalanche terrain in this context. If you email me a few images, that could be helpful.

Do wolverines fadens to be under deep snow? Just

And, say a big hello to Leslie for me!

Cheers,

Karl



**Dr. Karl Birkeland**  
**Director**  
**Forest Service**

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**Caring for the land and serving people**

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]

**Sent:** Wednesday, March 01, 2017 4:41 PM

**To:** Birkeland, Karl -FS <[kbirkeland@fs.fed.us](mailto:kbirkeland@fs.fed.us)>

**Cc:** Leslie Ellwood <[leslie\\_ellwood@fws.gov](mailto:leslie_ellwood@fws.gov)>

**Subject:** avalanche info for wolverine

Dear Karl,

Leslie Ellwood gave me your name and I'm wondering if you have some time to chat with me on the phone this week? We are working on a species status assessment for the

wolverine in the lower 48. NOAA and CU are doing some work for us on predicting future snowpack in Glacier and Rocky Mountain National Parks currently. I've found some interesting relationships re the location of wolverine den sites in Glacier and slope. Many of the den sites are located in potential avalanche run-outs. I can show you some slides to illustrate this. I have a few questions for you regarding this and identification of potential avalanche run-outs.

Thanks John

John Guinotte, PhD  
Fish and Wildlife Biologist

Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6

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