

From: [Turner, Ed](#)
To: [Betty Grizzle](#)
Cc: [Tony McKinney](#)
Subject: Maps of range run and Nick's maps to compare
Date: Friday, February 10, 2017 12:19:50 PM
Attachments: [Models_CFWO_Snow_PH_Run.pdf](#)
[Models_CFWO_Snow_PH_Run_Drops.pdf](#)
[Models_CFWO_Snow_PH_Run_with_Habitat_Nicks_DPS.pdf](#)
[NICKs_Out_Expand20_poly_Smooth50.pdf](#)
[NICKs_fr_wolverine_distribution_HIRES.pdf](#)
[Models_CFWO_Snow_PH_Run_vs_nicks_Hab.pdf](#)

Betty, Here is the run we finished. You can see that his run and smoothing effect gets polygon areas that are not separated, but our habitat capture is very close to his.

The buffer is based on the habitat on both his and our run, but on his run his habitat is a block 1000x1000 and some of the gaps were filled. On our run we get an exact offset of 20km from each edge of habitat and end up with some areas that are not contiguous.

See the dark blue color of Nick's data that we did not get. We spot checked an area and we found that he captured data that did not meet the $> 100\text{km}^2$ limit. There are areas where we have polygons that touch may meet all criteria on one side, but not the other. In my run I would not pickup the adjacent touching polygon that did not meet the limits, but he did in the grid/raster process.

Big question, why did Nick grab Snow and PH outside of Female Dispersal, when his instructions say that we are to retain Patches $> 100\text{km}^2$ on contiguous areas of FD?

We can all talk about this

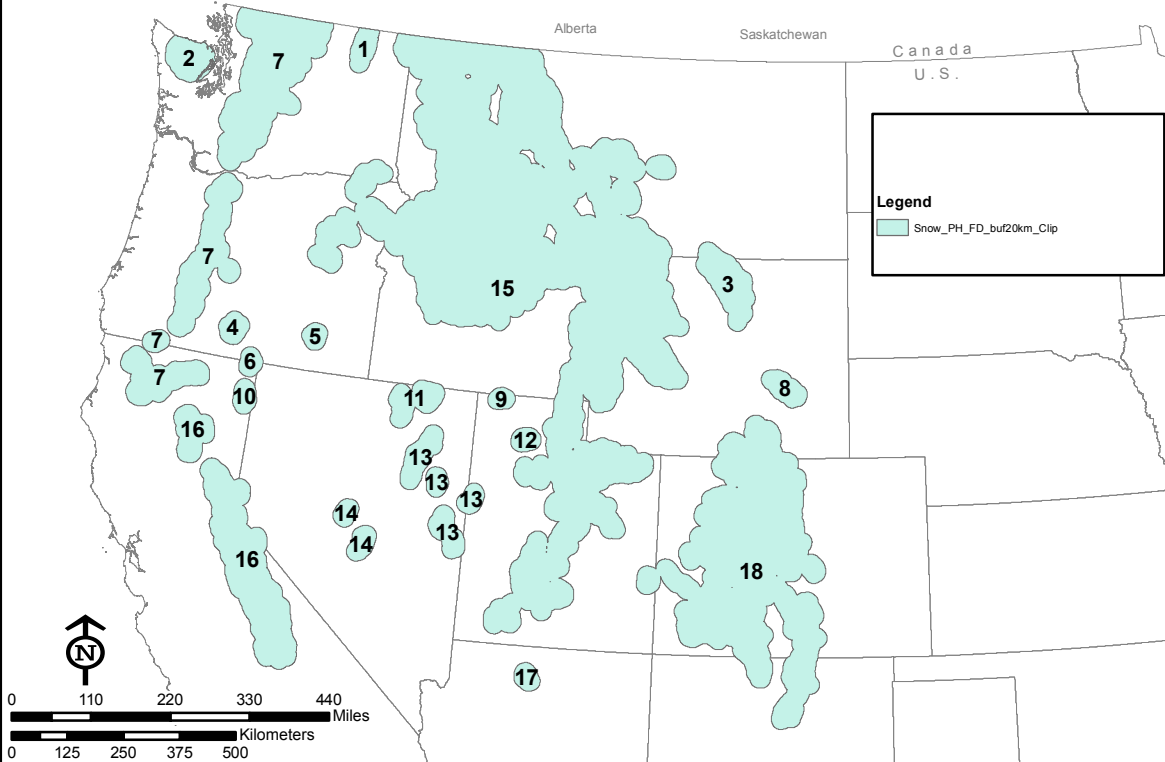
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Edwin Turner, Geographer
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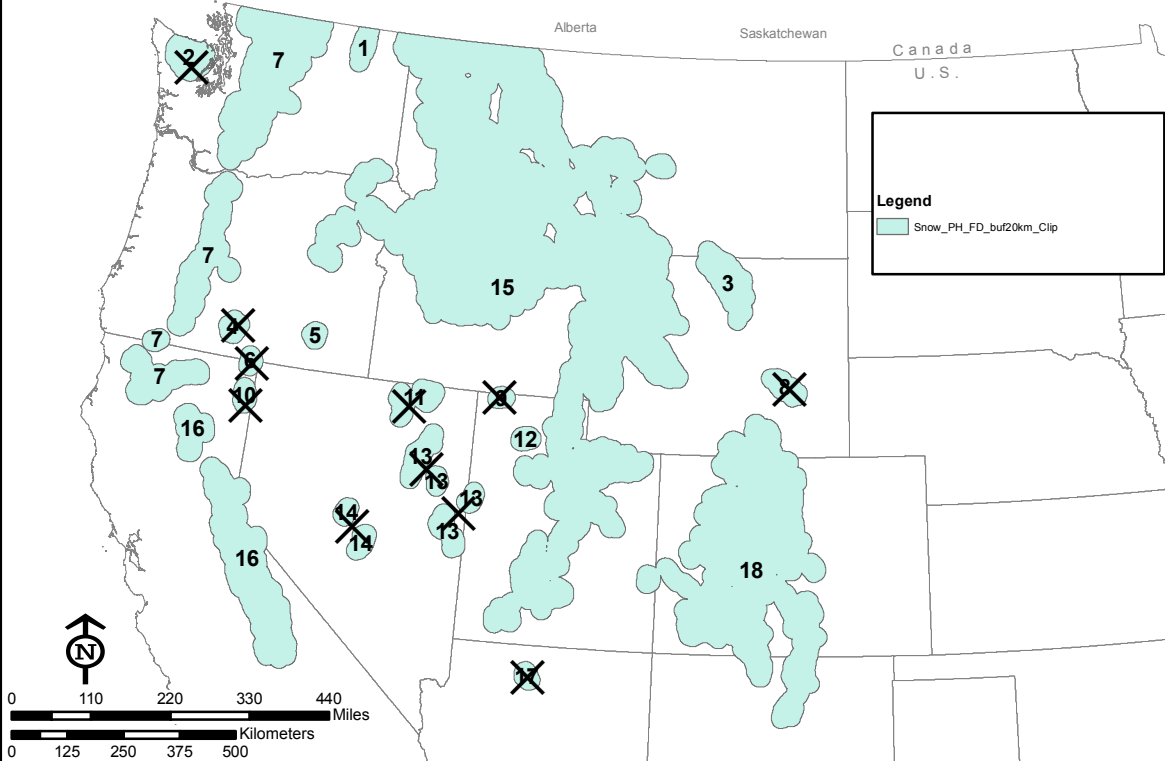
DOI-R8-CFWO
USFWS Carlsbad Fish and Wildlife Office
2177 Salk Ave. Suite 250
Carlsbad, CA 92008
760.431.9440 x266

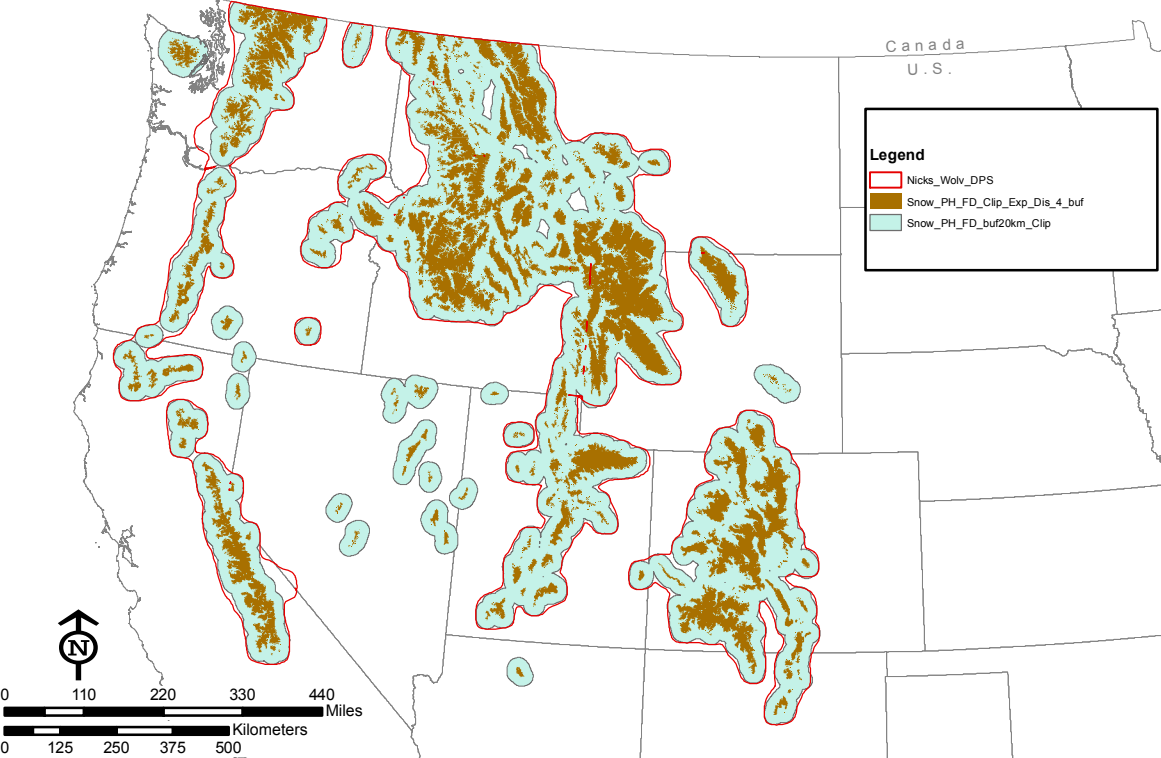
Ed_Turner@fws.gov
760.431.9440 x266

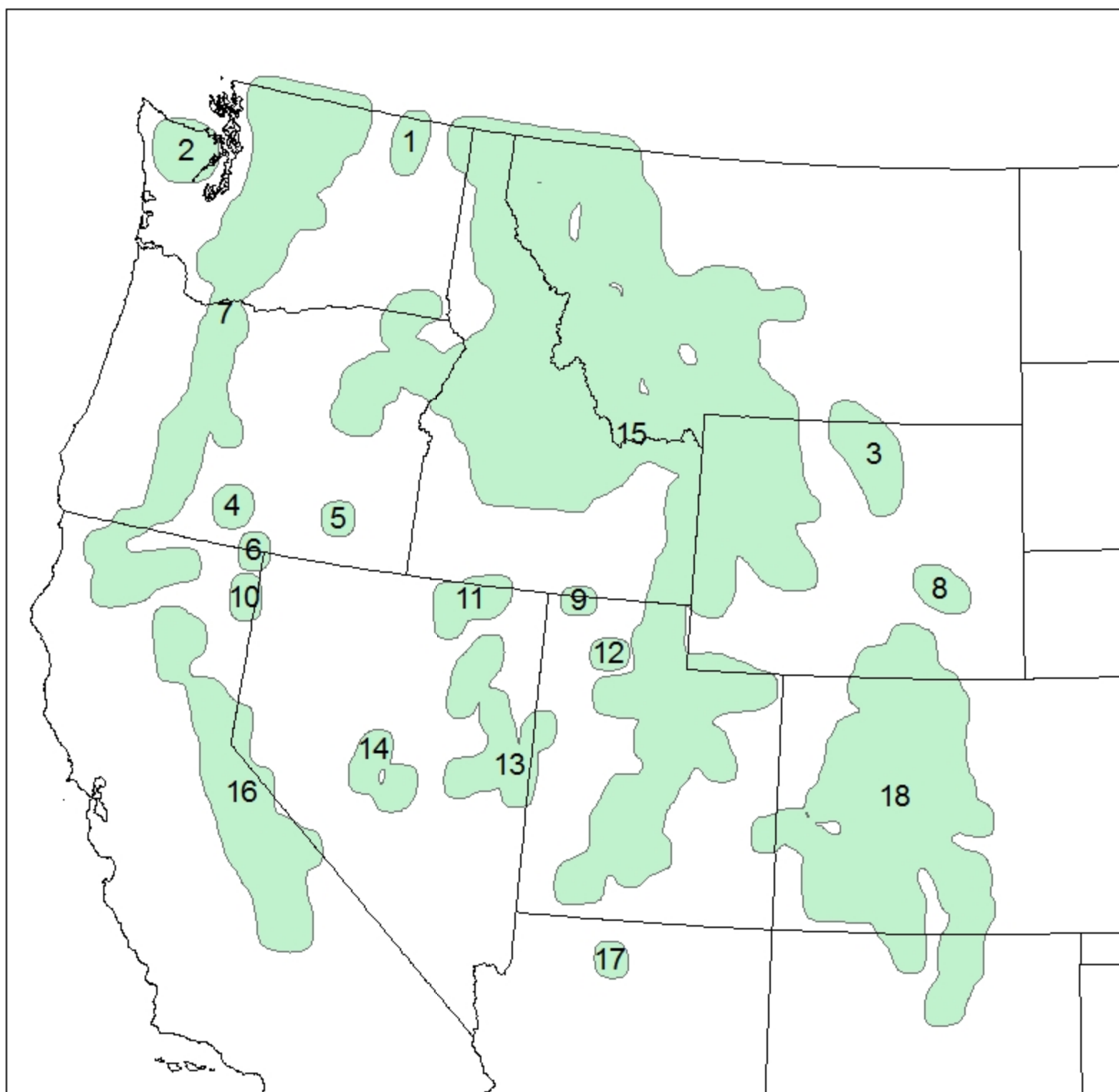
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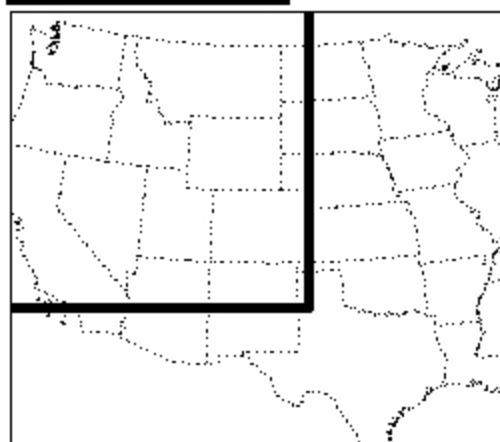
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Locator Map



0 112.5 225 450 Miles
0 112.5 225 450 Kilometers

out_expand20_poly_smooth50
States



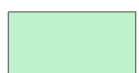
Sources: USGS, ESRI, TANA, AND



States



Modeled wolverine habitat



Wolverine DPS geographic range



0 100 200
Miles

0 200 400
Kilometers

