LCD Tech Team

12/8/2020

Attendees: Kathy, Danielle, Peggy, Adam, Trevor, Ken, Sean, Natalie

Welcome, Kathy!/Introductions

- Kathy Zeller - Aldo Leopold Institute - working on modeling connectivity for focal species throughout the Crown
- Danielle - Gov't of AB Bio Diversity model - Marxan Modeling
- Peggy - Planner in Gov't of AB - Environment and Rec
- Adam Collingwood - Parks Canada - Waterton Lakes National Park - remote sensing
- Trevor - NCC - transition from AB region - taking a role with BC region doing conservation impact analysis

Review previous action items (All)

- ~~Danielle will send Natalie and Sean another possible distribution map for grizzly~~
- ~~Adam will reach out to Clayton Apps and Tony Cleavanger~~
    - Clayton Apps - collecting what data they are willing to share - there is some stuff they won't be sharing, as they are actively working on it
    - haven't heard from Tony Cleavanger yet - has access to some data from 2014-2015 - again, sounds like they might be actively using that new data
    - Kathy is working with with these folks,
        - Kathy can reach out to Clayton and Tony about mesocarnivore data
- ~~Natalie will forward craig's FWMIS request emails to peggy, and peggy will nudge Craig~~
- Adam will collect waterton datasets and send to natalie via email or drive
    - Haven't gotten around to it yet - just needs to budle stuff up and send
- ~~Adam will ask national parks folks if they have access to BC data sets~~
    - Jacqueline Clare, M.Sc.; Data and Information Management Unit Lead |BC Conservation Data Centre; Ministry of Environment and Climate Change Strategy ;778-698-3996; Jacqueline.Clare@gov.bc.ca
    - https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/conservation-data-centre/explore-cdc-data/known-locations-of-species-and-ecosystems-at-risk/cdc-imap-theme
- ~~Danielle will reach out to her BC friend for possible BC data contacts~~
    - This was a last ditch effort
- ~~Danielle will send spring snow cover layer - extent is North America~~
- ~~Natalie will send an email reminding Sean, Danielle, and Jason to schedule a meeting for end of next week (11/16)~~
    - Fantastic meeting, thank you danielle for organizing!

    - In the process of approving a Data Sharing agreement between Jason and Nicole and CMP
        - As we start signing data sharing agreements - how do we make sure we are being thoughtful and respectful with how data is being handled, but also that we are being upfront and efficient?
            - CMP end, Natalie and Sean drafted a DSA, shared back and forth with Jason and Niki, shared DSA agreement with Mary Riddle and Erin Sexton - what does that mean in terms of agency involvement and whether it would be covered if we shared that data with Kathy
                - expand data sharing agreements so can be used for connectivity as well as LCD - no solution other than talking to each other moving forward - would be helpful for researchers to have people coming at them from one entity rather than multiple
                - Natalie and Sean will connect with Kathy to determine how to efficiently manage DSAs
    - Discussion on how to model lynx and wolverine habitat - spring snow cover and combine with a disturbance dataset (specifically linear features)
- ~~Trevor will reach out to potential BC contact~~
    - Cindy McKale - Trevor will bridge the gap, consult Cindy as needed
    - Should Trevor reach out to other data contacts?
        - Look at data sheet and see if you are able to fill in data gaps with the contacts that you have
            - Natalie will share google doc with folks

Start discussion of "Feature Targets" (sean)

- Leadership team meeting summary
    - Preliminary marxan outputs for 3 species (grizzly, wolverine, canada lynx) were displayed - for the state of montana
        - Since the leadership team meeting, we have the rest of the species data
        - For now, we are running 3 parallel models for MT, BC, AB since data is so different - at least for the first iteration
    - On LT call on Dec 15 - will be showing draft models for the MT area of the geography - all features except connectivity (species and land cover types)
- As sean was drafting out models, he began to think more deeply about input parameters that you need to set up for marxan
    - Feature = thing on the landscape

    - How do we set targets?
        - In Marxan, you have to identify what your target is - ie. 90% of optimal habitat, 65% of optimal habitat, 10% of optimal habitat
        - Target doesn't have to be the same for each one of our features
        - You could use legislation, resource planning, published literature, expert knowledge
    - Always a contentious issue to weight
        - One way to take pressure off targets - similar to how you ran 3 targets, pick a range of different targets, have a stepwise process - not as much pressure on having a specific target
            - Creative ways to run parallel models as well as thinking about resources that we might go to for some of these things
        - All: Please keep the suggestions coming on how to approach setting targets
- Next steps:
    - Spending a lot of time crunching montana data - it will probably not be the final set of data, but we're doing very diligent data documenting so it can easily be updated
    - Over the next month or so, we will be running similar types of data prep for AB and BC, so when we meet again, not unlikely that we won't have a draft model for each of the jurisdictions
        - Parameterizing, cross jurisdictional challenges