**DSM Focus Team**

**FY23 Sub-Team Priority Meeting**

11/18/22

1. Suz
2. Jess
3. Travis
4. Dave
5. Alex
6. Stephen
7. Jon
8. Tiffany
9. Shawn
10. Jim – absent
11. Joe – absent
12. Chad – absent
13. Colby – absent

Agenda

* Overview
* Restructuring
  + Expectations for team members
    - 70% meeting attendance (in performance item)
    - Measurable contribution to the team’s work
  + Ad-hoc members
    - Previous sub-team members not able to attend/contribute
    - Other interested people could join at this level
  + Quarterly meetings
  + Addition of ES Sub-Team
* Focus Team charges/DSS Priorities
* FY22 accomplishments
* Long-range plan progress
* Practitioner sub-team
  + Discussion of priorities for FY23
    - Standards
    - Training
      * Update Intro for Part 648
      * ArcPro? – this is largely done (SIE is last piece)
      * Remote sensing
      * Intro for Koya university
      * GCP webinars
        + EE job aids
      * Basic DSM webinar
      * Advanced DSM course
        + Workshop throughout a year or quarter
        + Advanced application is often project specific
      * Urban soil survey
      * New employees – find ways to apply DSM before 2026
        + Proposal for new employees to have a small DSM project between(?) BSS and Intro
      * Have quantitative skillsets distributed throughout the division
        + SSO, regional, national
      * Project planning
        + Beginning
        + MLRA
        + Under umbrella of DSS
    - Practitioner discussions
      * Jess will make a schedule and list of topics – individual responsibility for each month
    - Mentoring program – 6 active formal projects
    - Raster Soil Surveys
      * Documentation for RO staff to support QA/QC and annual refresh
* Properties sub-team
  + Discussion of priorities for FY23
    - SOLUS100 – complete, review, publish
      * Travis has done some testing and is regrouping
      * Goal is first quarter of 2023
      * Possibly publish a subset
      * Consensus on review app
      * How to interpret uncertainty
        + Categories for each property
        + Areas of applicability
        + Create more specificity in the distribution of uncertainty
    - SOLUS30
    - Carbon (DSP)
    - AK
    - Global modeling (ID field week)
    - GCP
      * Repos/scripts
      * Training webinars
    - Global Soil Partnership
      * GLOSIS for viewing/distribution
      * Soil nutrient maps (FY23) – expansion of salinity maps (N, P, K, pH)
        + Build global soil nutrient budget
        + Ties into DSP realm
        + Narrow time window for properties (2019-2021)
      * Soil erosion map
* ES sub-team
  + Introduce concept and potential goals
    - Ecological site/class predictive map
    - Species distribution maps
      * Lots of questions potentially risky with invasive/threatened species; properties may not be the answer for prediction
    - Annually refreshed ESD State Maps
  + Lots of things to investigate/questions to ask as team evolves
  + Addressing gap in DSM work in Division

**Focus Team Charges**

1. Coordinate digital soil mapping activities across the Soil and Plant Science Division
2. Identify training needs
3. Identify needs to update standards and propose solutions
4. Initiate annual field weeks to investigate soil-landscape relationships in selected digital soil mapping projects
5. Assemble existing data
6. Identify gaps
7. Produce raster-based soil data and information

**DSS Priorities**

Spatial Prediction (Raster)

* 1. High Resolution property, 10M, Urban
  2. Species Distribution Model
  3. Spatial prediction in DSP’s
  4. Continuous properties
  5. Property maps incorporate land use as a modifier
  6. Predictive Raster of Ecoclasses (Sites and states)
  7. Disaggregate SSURGO with accuracy estimates

Scale - Variable

Timeline - 5 years preliminary

Where - Varies

Who - Suzann KB RO, DSM Team, et al

When - 2022