**DSM Focus Team**

**FY24 Quarterly Meeting**

12/12/23

1. Suz
2. Jess –
3. Travis –
4. Dave –
5. Alex –
6. Stephen – absent
7. Jon
8. Tiffany
9. Shawn
10. Jim
11. Joe –
12. Colby – absent
13. Steph – absent
14. Greg –
15. Nathan –
16. Suzanne
17. Jamin – absent
18. Jay
19. Zach
20. Betsy – absent
21. Dylan
22. Zamir – absent
23. Chad – absent

* Practitioner Sub-Team
  + Raster Soil Survey focus
    - Identified need for more training, job aids, etc to support SSO and RO with both development and correlation
    - Team is working on supporting documentation
  + Mentoring projects
    - Four active ones
* Ecological Site Sub-Team
  + Engaging in some paper discussions to expand knowledge and generate ideas for our work
  + Developing standards for Raster Ecological Surveys in NSSH Part 648
  + Two 120-day details advertised to work on RES projects
* Properties Sub-Team
  + SOLUS100 wrap up
    - Final map processing
      * Trimmed for linear adjustment extreme values
      * Normalization for sand, silt, clay
      * Mask NOT PUB areas from SSURGO
      * Apply naming convention
      * Metadata
    - Publication
      * Draft manuscript
      * Repository for scripts and supporting information
      * Create public GEE asset
      * Create public GCP storage bucket
  + SOLUS and SSURGO combination being tested in water quality models for conservation planning with the DS Hub crew
  + Other activities
    - Standardized 30m covariates
      * Elevation – STEDUS (done)
      * Spectral – SPEDUS (in progress)
        + Scripts for Landsat and Sentinel composites are working
        + Testing derivatives, seasonality, etc.
      * Will become GEE assets…eventually public
    - R Interpretations Engine detail (Jan 2024)
      * Refine and enhance previous work be Colby and others so the code can handle large datasets (like SOLUS) and run efficiently, expand interpretations
  + Pedometrics meeting
    - Emails going out soon to presenters
    - One more spectroscopy abstract than DSM…interesting
    - Conference has not been approved for SPSD – won’t until after CR Jan 17th

**FY23 Quarterly Meeting**

7/27/23

*Sub-team updates posted in Teams channel in lieu of a meeting this quarter*

* Practitioner Sub-Team
  + Standards
    - NSSH Part 648 has been updated and is available online <https://directives.sc.egov.usda.gov/viewerFS.aspx?hid=48720>
    - Guidance/documentation/checklist for regions to aid in QA/QC of RSS in progress
  + Training
    - Delivered all courses in the DSM curriculum this fiscal year
    - DSM with ArcSIE is scheduled for Aug 14-18 in Lincoln and will be taught with the new ArcPro version of ArcSIE
    - Remote Sensing for Soil Survey Applications will be updated for delivery next fiscal year. Content will remain the same but largely replacing ERDAS Imagine and integrating ArcPro, R, and GEE for exercises
* Properties Sub-Team
  + SOLUS100 open comment period conducted during the month of June. 12 people submitted 30 comments through the feedback form provided in the GEE apps and a handful of others via email. The team will review comments once Travis is back from his field detail.
  + SOLUS100 was presented at the National NCSS meeting in Bismarck
  + Exploration of SOLUS use in conservation-related modeling tools is underway
* Ecological Site Sub-Team
  + Standards sub-committee working on adding language to Part 648 for Raster Ecological Surveys (RES) to support products such as MLRA update and ecological site groupings, initial project mapping, and associated raster ecology products (species distribution mapping, state mapping)
  + Exploring ways to build on IBM clustering workflow for ecosite groupings with updated data and methods with goal to expand to a national product

4/27/23

1. Suz
2. Jess – absent
3. Travis – absent
4. Dave – absent
5. Alex – absent
6. Stephen
7. Jon
8. Tiffany
9. Shawn
10. Jim
11. Joe – absent
12. Chad – absent
13. Colby – absent
14. Steph – absent
15. Greg – absent
16. Nathan – absent
17. Suzanne
18. Jamin
19. Zach
20. Jay – absent
21. Betsy
22. Dylan
23. Zamir
24. Rob – absent
25. Charlotte – absent

Agenda

* Sub-Team updates
  + Practitioner
    - Part 648 – currently with editors
    - Training
      * All courses taught this FY
      * Update to ArcSIE with ArcPro version
      * Update to Remote Sensing in FY24 for current software approaches
    - ID field week project
      * Global model uncertainty to aid field sampling design
      * Betsy is interested in using entropy for guiding validation sampling – she’ll reach out when they’re ready and we’ll chat with her discussing some ideas
  + Properties
    - SOLUS100 internal review
      * Review guide
      * Review apps
      * National bulletin
      * Webinar
  + Ecological Site
    - GNP product
    - Standards
  + Highlights
    - GCP
    - DSM/GSM meeting

1/26/23

1. Suz
2. Jess
3. Travis
4. Dave – absent
5. Alex
6. Stephen
7. Jon
8. Tiffany
9. Shawn
10. Jim
11. Joe – absent
12. Chad – absent
13. Colby – absent
14. Steph
15. Greg
16. Nathan
17. Suzanne
18. Jamin – absent
19. Zach
20. Jay – absent
21. Betsy – absent
22. Dylan
23. Zamir
24. Rob – absent
25. Charlotte – absent

Agenda

* DSM FT updates
  + DSM FT structure
  + SBS DSM team
    - 2026 projects
  + GCP activity
    - SBS, ROs, SSOs, collaborators (WVU, NMSU)
    - Testing for various project scales
    - Scripts/repos/training
  + DSM/GSM conference
* Sub-Team updates
  + Practitioner (Jess)
    - Part 648
    - Training
    - Mentoring
      * 6 projects
      * ID Field Week
        + Local to global modeling
    - Practitioner discussions
  + Properties (Suz)
    - SOLUS100 v3 process and results
      * Review period (March)
      * Travis authoring paper
    - SOLUS30
    - GSP
      * Nutrients and erosion
      * Short timelines: April and Oct 2023
  + Ecological Site (Shawn)
    - Overview
    - Activities
    - Goals/Priorities
  + DSS priorities recap