

Minnesota Geospatial Advisory Council
Subgroup Work Plan

3D DEM Hydro-Modification Subgroup

Work Plan date:

January 28, 2020

Co-chairs:

Rick Moore

Steering Committee Liaison:

Sean Vaughn

Link to workgroup charter:

http://www.mngeo.state.mn.us/committee/3dgeo/3dgeo_committee_charter.pdf

Work Plan for Calendar 2020

Planned activities and deliverables:

1. Education and Outreach
 - a. Design one-page handout that describes the Workgroup and highlights the successes and future efforts of this collaborative group
 - b. Look for opportunities to connect with hydrography related committees and workgroups within the Agencies and other States
 - c. Continued collaboration between technical staff and decision makers on hydro-modification and breachline creation
2. Finalize and publish Standardized Breachline Attributes
 - a. Develop Standards Document for Breachlines
 - b. Develop and finalize the Breachline Attribute Geodatabase Template
3. Develop the Methodology and Protocol document for hydro-modification
 - a. Methodology and Protocol will be based on members knowledge and experience
4. Establish a Digital Dam Breachline QA/QC Project
 - a. Strategize ways to fund the Digital Dam Breachline QA/QC Project
 - b. Develop Protocol document to guide QA/QC and assembly of the database for the existing breachlines
 - c. Ensure the subgroups authoritative database attributes are incorporated into the project.
 - d. Serve or provide a spot review of draft data from the project.
 - e. Publish the data for public consumption.
 - f. Goal Statement: All breachlines will be populated with authoritative database attributes.
 - g. Ultimate Goal Statement: A ultimate final product capable of producing a Level 3 hydro-modified DEM

Minnesota Geospatial Advisory Council

Subgroup Work Plan

5. Update and Refine the Draft centralized authoritative map of current breachline datasets
6. Identify documents and other best practices
 - a. Establish an archive in SharePoint of literature that pertains to breachlines and hydro-modification (Action Item – Move products to public facing site)
 - b. Identify what other states are doing in terms of hydro-modification and breachlines
7. Maintain ongoing support duties
 - a. Work with MNGEO (Nancy Rader) to maintain workgroup web page
 - b. Maintain web pages for DEM Hydro-Modification subgroup
 - c. Identifying and Recruiting Membership
 - d. Maintain SharePoint site – current and relevant content
 - i. Focus on using SharePoint for collaboration, such as documents for DEM Hydro-Modification subgroup

Roles and responsibilities:

Membership will include diverse users and stewards of hydro-modified Digital Elevation Models (hDEM) and hydrography data. Provide guidance to data stewards and users on initiatives that relate to LiDAR derived hydro-modified DEMs.

Resources:

The DEM Hydro-Modification Subgroup will use the work and accomplishments of the current Hydrogeomorphology Workgroup and former [Hydrography Committee](#) and collaborate with other current 3D Geomatics Committee Workgroups.

Workgroup needs:

The DEM Hydro-Modification Subgroup will depend on guidance from the Hydrogeomorphology Workgroup and the 3D Geomatics Steering Committee.

Dependencies and interrelationships:

The DEM Hydro-Modification Subgroup will work with the Hydrogeomorphology Workgroup and the 3D Geomatics Steering committee to coordinate LiDAR acquisition standards as they pertain to Breachline.

Risks:

- Taking on too much responsibility and underestimating the amount of commitment to the workgroup.
- Lack of standards for data development and data application of hydrography data. Bad data will translate into lost time and money.
- Lack of communication between government agencies at all levels and private sector partners pertaining to hydrography data.

Additional Comments:

Minnesota Geospatial Advisory Council
Subgroup Work Plan

Date approved by the 3D Geomatics Steering Committee: