**AGENDA**

**MAPPING WORKSHOP**

**September 9, 10 & 11, 2021**

**Elko, Nevada**

1. Introduction and Workshop Overview: Mahr, Winner, Deaton, Welch

 A. Goals Winner

 1. Provide mapping and preservation training

 2.. Discover, inventory, and record trail location

 3. Expand knowledge of special mapping techniques

 4. Provide information on the latest technology

 5. Stimulate mapping and preservation activities

 6. Define “Final Map” – Public Map / Sensitive Data Map

 7. Above all “Keep it Simple”

1. Mapping and Trail Preservation

 A. Purpose of MET Mapping- Winner,Jensen

1. Historic Resources of Trails

2. Designated NHT Alignment

3. Proposed Projects Proximity

4. Other Emigrant Trails.

5. OCTA Archives. Welch

 3. Mapping Techniques

 A. MET Manual Basics: Winner

 1. Finding and Validating Trail: (Collection and Rating Data) Emigrant Diaries, Publications, GLO Maps/Notes, Historic Maps, Aerial Photography, Artifacts, Features, Swales/Ruts.

 2. Trail classification: Trail Classes 1-5 (6)

 3. Recording a trail on a map: A Line on the Ground.

 B. National Trail Data Schema (Implementation of the Federal Trail Data Standard). Deaton

 C. Classic MET maps

 1. 7.5 min. USGS. Winner

 2. Seamless Digital USGS maps.

 D. Mapping Software – TNP / ArcGIS / Google Earth / CalTopo/ Other Team 1.What data format does OCTA want to use? Shp, gpx, kml

 2.Ensure data format can be utilized from GPS and output data is compatible with “master database”.

 3.How can various types of software be used to compile data together?

 4.About the Software

 5.What information should appear on maps? (Internal Use) (Public)

 6.Cost & Ease of Use

TNP- Terrain Navigator Pro: Team

 Recording Markers – Data Base

 Recording Tracks – Trail Line On Map

 Recording Labels – Trail Classification

 Software Pros/Cons

 Sharing Information – Import/Export

 ArcGIS- Owens, Lee, Deaton

 Data Base

 Trail Line On Map

 Trail Classification

 Software Pros/Cons

 Sharing Information – Import/Export

 Google Earth- Fullerton

 Data Base

 Trail Line On Map

 Trail Classification

 Software Pros/Cons

 Sharing Information – Import/Export

 CalTopo- Welch

 Data Base

 Trail line On Map

 Trail Classification

 Software Pros/Cons

 Sharing Information – Import/Export

 Other Mapping Software – Gaia GPS; Base Camp- Owens

 Phone Based – Avenza-Owens

 E. Preparing trail maps – Individuals/Central Map Committee Winner/Owens

 1. Uniform System – Uniform Data Format

 a. What data format does OCTA want to use? Shp, gpx, kml

 b. Ensure data format can be utilized from GPS and output data is compatible with “master database”.

 c. How can various types of software be used to compile data together

 2. Create “Master“ map through compiling Data

 3. What information should appear on maps? (Internal Use) (Public) Scale

 F. GPS operations and interface with software Watson

 1.Datums

 2.Survey systems: PLSS,

 a. Latitude and Longitude

 b. UTM

4. Survey 123 Deaton

5. Map Overlays- Nowlin, Owens

 A. Georeference.

 B. Parcel and Ownership information

6. LiDAR Deaton

A. Discussion of the use of QL1/QL2 LiDAR hillshade derivatives can be used to identify trail traces for use in MET mapping.

7. Drones Lee, Lingenfelter

8. Research resources – Links Owens, Deaton, Lee

 A. GLO maps and survey notes- https://glorecords.blm.com

 1. Use of Records and Limitations

 B. Other historic maps (state and federal archives)

 1. USGS

 2. Other Historic Map Links

 3. Photo resources

 a. NRCS (Soil Conservation Service) historic aerials

 C. Diaries:

  1. Composite Analysis-Fullerton

 2. Repositories and Access-Mattes/Buck & Others

 3. COED- Welch

9. Mapping Needs

 A. Setting up a mapping project (MET Part. C) Winner

 B. MET mapping coverage status – NPS/OCTA- Deaton/Welch

 C. Critical area identification (Trail Threats) Winner

 D. On-Line map training (Zoom, Microsoft Teams)

 1. Basic Training for OCTA Members

 2. Developing Standard Power Point

10. Reporting and Archiving Maps and Data (How does OCTA incorporate collected maps into our digital Data Base)

 1. OCTA Welch

 2. NPS Deaton

11. Example of mapping projects Group

 1. Member presentation on topics of interest

12. Data Sharing OCTA/NPS

 A. Cultural Resource Sensitivity and Methods of Sharing

13. WHERE DO WE GO FROM HERE. MET MANUAL Group