# CZO Metadata Worksheet

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| Data File Name | ShaleHillsLeafOff.7z.zip |
| Date Prepared | 04/24/2013 |
| Descriptive Title | Shale Hills Light Detection and Ranging (National Center for Airborne Laser Mapping, Dec 2010) |
| Update Frequency | None |
| Abstract | High-resolution Lidar data (average 10 points/m2 with 2-4 cm vertical accuracy) were collected for the Susquehanna Shale Hills CZO (Area = 169.80901 km2) during full leaf-off: **(snow clear)** (12/3/2010-12/9/2010). Data acquisition, ground-truthing, vegetation surveys and processing were funded and coordinated by NSF Award EAR-0922307 (PI. Qinghua Guo). |
| sInvestigator  Contact Info | Dr. Qinghua Guo. University of California-Merced. P.O. Box 2039. Merced, CA 95344. e-mail: [qguo@ucmerced.edu](mailto:qguo@ucmerced.edu). phone: (209) 228-2911. |
| Data Value Descriptions | * sh1\_fgrd: Filtered (bare earth) DEM * sh1\_fshd: Filtered (bare earth) hillshade * sh1\_ugrd: Unfiltered (first return) DEM * sh1\_ushd: Unfiltered (first return) hillshade   All files are in ArcGRID format. Projection information:  Horizontal UTM 18N NAD83 meters [EPSG: 26918]  Vertical: NAVD88 [EPSG: 5703] |
| Keywords | Lidar, topography, digital elevation model, hillshade, density, |
| Methods | Data was collected with the Gemini 06SEN/CON195 and digitizer 08DIG017 system installed on the Cessna 337 tail number N337P.  Total points: 2,840,000,000 pts.  Area: Area = 169 km2  Shot density: 13.54 points/m2  Survey report, with details about data processing: http://opentopo.sdsc.edu/metadata/2010\_NCALM\_CZO\_Project\_Report.pdf |
| Citation | Data are co-hosted at Open Topography (opentopo.sdsc.edu) and detailed citation information (including DOI) is presented there. |
| Publications | None |
| Data Use Notes |  |