Table S2: Svalbox DMDb metadata parameters, values and descriptors.

| **Parameter** | **Type** | **Unit** | **Template description** |
| --- | --- | --- | --- |
| objectid | INT |  | ’ # Internal database identifier.’ |
| svalbox\_dom\_id | TXT |  | ’ # Unique Svalbox database identifier.’ |
| shape | GEOMETRY |  | ’ # Geometry of the DOM footprint.’ |
| data\_model\_file\_name | TEXT |  | ‘# file name of the texture mesh exported data.’ |
| data\_model\_crs\_epsg | INT |  | ‘32633 # coordinate reference system of the data (exports), given in epsg:xxxx format. Svalbox uses the epsg:32633 internally.’ |
| model\_description | TXT |  | ’ # Brief (geological) description of the data.’ |
| acq\_date | DATE |  | ’ # Acquisition date of data, in DD.MM.YYYY format.’ |
| acq\_camera\_model | TXT |  | ’ # Camera model as indicated in the Agisoft Metashape processing report.’ |
| acq\_camera\_lens | TXT | mm | ’ # Camera lens as indicated in the Agisoft Metashape processing report.’ |
| location\_locality | TXT |  | ’ # Location/area in which the locality is found. This should only contain valley/mountain names and not contain directions.’ |
| location\_land | TXT |  | ’ # Land in which the locality is found, pick from Albert I Land / Andrée Land / Bünsow Land / Dickson Land / Haakon VII Land / Heer Land / James I Land / Nathorst Land / Nordenskiöld Land / Ny-Friesland / Olav V Land / Oscar II Land / Sabine Land / Sørkapp Land / Torell Land / Wedel Jarlsberg Land / Gustav Adolf Land / Gustav V Land / Orvin Land’ |
| location\_island | TXT |  | ’ # Island on which the locality is found, pick from Hopen / Spitsbergen / Kong Karls Land / Edgeøya / Barentsøya / Tusenøyane / Nordaustlandet / Kvitøya / Prins Karls Forland / Bjørnøya / Other’ |
| location\_easting | FLOAT | m | ’ # Easting/x coordinate of the centre point of the footprint. crs = epsg:32633 is used internally by Svalbox.’ |
| location\_northing | FLOAT | m | ’ # Northing/y coordinate of the centre point of the footprint. crs = epsg:32633 is used internally by Svalbox.’ |
| location\_crs\_epsg | INT |  | ‘32633 # EPSG code for the easting and northing coordinates. 32633 is used internally by Svalbox.’ |
| proc\_camera\_stations | INT |  | ’ # Total number of aligned, as stated in the Agisoft Metashape processing report files.’ |
| proc\_camera\_total\_error | FLOAT | m | ’ # Total error of the cameras, as stated in the Agisoft Metashape processing report files.’ |
| proc\_ground\_resolution | FLOAT | m | ’ # Ground resolution of the DOM, as stated in the Agisoft Metashape processing report files.’ |
| proc\_dem\_resolution | FLOAT | m | ’ # Resolution of the DEM, as stated in the Agisoft Metashape processing report files.’ |
| proc\_dem\_point\_density | FLOAT | points/m2 | ’ # Point density of the DEM, as specified by the Processing Report. |
| proc\_dc\_filter\_conf\_min | FLOAT |  | ’ # Minimum dense cloud confidence value used for dense cloud filtering.’ |
| proc\_flying\_altitude | FLOAT | m | ’ # Average distance between the camera and the object, as stated in the Agisoft Metashape processing report files.’ |
| proc\_coverage\_area | FLOAT | km2 | ’ # Area covered by the DOM’s footprint, as stated in the Agisoft Metashape processing report files.’ |
| proc\_georeferencing\_type | TXT |  | ’ # Type of data/points used for georeferencing. Marker type and version (e.g., Aruco DICT\_6X6\_250) should be included.’ |
| proc\_georeferencing\_crs\_epsg | INT |  | ’ # EPSG crs code used by the data used for georeferencing.’ |
| publ\_sketchfab\_id | TXT |  | ’ # integer number associated with the data entry on the sketchfab. https://sketchfab.com/models/{SketchFab ID}’ |
| publ\_svalbox\_post\_id | INT |  | ’ # integer number associated with the data entry page on the Svalbox.no webpage.’ |
| publ\_svalbox\_img\_id | INT |  | ’ # integer number associated with the data entry image on the Svalbox.no webpage.’ |
| publ\_date\_archived | DATE |  | ’ # Internal parameter documenting when the archived data was first added.’ |
| publ\_date\_revised | DATE |  | ’ # Internal parameter indicating latest change to the metadata’ |
| comments | TXT |  | ’ # comments for data entry’ |
| data\_doi | TXT |  | ’ # doi number (without https://doi.org/)’ |
| data\_author | TXT | JSON | [{‘name’: ’ # name of author’ , ‘affiliation’: ’ # affiliations of author in comma-separated list’, ‘orcid’: ’ # orcid ID of author}, {‘name’: ’ # name of author’ , ‘affiliation’: ’ # affiliations of author in comma-separated list’, ‘orcid’: ’ # copy paste for number of authors applicable.’}] |
| proc\_software | TXT |  | ’ # name of software used for processing.’ |
| proc\_software\_version | TXT |  | ’ # Software version used for processing, including build number.’ |
| keywords | TXT |  | ’ # list of keywords separated by ;. Last item without.’ |
| funding | TXT | JSON | [{‘organization’: ’ # organization identifier’ , ‘grant\_number’: ’ # grant number or name associated with the grant’}, {‘organization’: ’ # organization identifier #2’ , ‘grant\_number’: ’ # Copy paste for all applicable combinations.’}] |
| pdal\_version | TXT |  | ’ # Internally-calculated property.’ |
| pdal\_hexbin\_estimated\_edge | FLOAT | m | ’ # Internally-calculated property.’ |
| pdal\_hexbin\_area | FLOAT | m2 | ’ # Internally-calculated property.’ |
| pdal\_hexbin\_avg\_pt\_unit2 | FLOAT | points/m2 | ’ # Internally-calculated property.’ |
| pdal\_hexbin\_avg\_pt\_spacing | FLOAT | m | ’ # Internally-calculated property.’ |
| pdal\_hexbin\_density | FLOAT | points/m2 | ’ # Internally-calculated property.’ |
| proc\_alignment\_accuracy | TXT |  | ’ # Photo alignment processing value for generating depth maps. Pick from Highest, High, Medium, Low, Lowest.’ |
| proc\_depth\_map\_accuracy | TXT |  | ’ # Depth map processing value for generating depth maps. Pick from Highest, High, Medium, Low, Lowest.’ |
| pdal\_hexbin\_sample\_size | INT |  | ‘# Internally-calculated property.’ |
| pdal\_hexbin\_threshold | INT |  | ‘# Internally-calculated property.’ |
| geology\_tags | TXT | JSON | [{‘Category’: ‘# Pick from Structure/Sedimentology/Metamorphic/Igneous/Quaternary’ , ‘Subcategory’: ‘# Pick matching Subcategory from [Structure/]Dikes/Sills/Karsts/Folds/Extensional/Compressional/Faults/Joints/Fractures/Veins/Inversion or [Sedimentology/]Clastic/Carbonates and Evaporites or [Igneous/]Intrusive/Extrusive’}] |
| geology\_age | TXT | JSON | [{‘Era’: ‘# Pick from’ , ‘Period’: ‘# Pick’, ‘Group’: ‘#’, ‘Formation’: ’ #‘}, {’Era’: ‘# Pick from’ , ‘Period’: ‘# Pick’, ‘Group’: ‘#’, ‘Formation’: ’ # Copy paste for all applicable combinations.’}] |
| proc\_mesh\_filter\_con\_comp | INT |  | ‘# Mesh filter value for connected component.’ |
| proc\_sc\_filter\_recon\_uncert | FLOAT |  | ‘# Sparse cloud filter value for reconstruction uncertainty.’ |
| proc\_sc\_filter\_proj\_acc | FLOAT |  | ‘# Sparse cloud filter value for projection accuracy.’ |
| proc\_sc\_filter\_reproj\_error | FLOAT |  | ’ # Sparse cloud filter value for reprojection error.’ |
| publ\_v3geo\_model | TXT |  | ‘# The V3Geo model ID (obtained after submission on V3Geo)’ |
| publ\_embargo | INT | months | ‘6 # Currently under discussion.’ |
| publ\_related\_identifiers | TXT | JSON | [{‘identifier’: ’‘, ’relation’: ‘# Please visit the https://developers.zenodo.org/ for examples.’}] |
| proc\_georeferencing\_count | INT |  | ’ # Number of ground control/georeferencing points used for processing.’ |
| proc\_gcp\_total\_error | FLOAT | cm | ’ # Total error of the georeferencing control points, as stated in the Agisoft Metashape processing report files.’ |
| cover | TXT | JSON | [{‘Category’:‘Snow’, ‘Extent’: ‘# pick from 0-5; 0=0%, 1=0-20%, 2=20-40%, 3=40-60%, 4=60-80%, 5=80-100%’}, {‘Category’:‘Scree’, ‘Extent’: ‘# pick from 0-5; 0=0%, 1=0-20%, 2=20-40%, 3=40-60%, 4=60-80%, pan5=80-100%’}] |