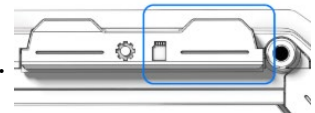





## Skydio X10

### DEM Import Procedures

For mapping missions over steep terrain, it's necessary to pre-load a digital elevation model (DEM) onto the Skydio aircraft. This will prevent any distortion or "noise" in the final deliverable. DNR UAS Aviation Program has pre-saved DEM SRTM (Shuttle Radar Topography Mission) tiles of the entire state from the [USGS Earth Explorer](#) website. Follow the steps below to access the appropriate tile for your operation.

1. On a pc, navigate to the DNR Box Account: Aviation/10-UAS/DTED for SkyDio X10.
2. Open the **SRTM Statewide Map.PDF** document to locate the DEM tile name and location you need **OR** go directly to your **county folder**. Select all files and download to pc (a .zip file will download).
3. Remove the SD Media Card from your aircraft (see image). 
4. Insert into your pc using a mini sd card reader. Create a new empty folder named exactly "DTED" if one does not exist. Open your downloaded .zip folder and go and **extract all** files directly into your mini sd card DTED folder.
5. Safely eject the SD media card from PC and re-insert into your aircraft media slot.
6. Power on GCS controller. Power on UAS. Select top left icon  Select **Media** to automatically prompt file transfer to the internal drone storage. If successful, the SD Media card file inside your **DTED folder** will be **deleted/transferred** successfully. GCS does not give you a prompt nor state transfer is successful.
7. Plan your 3D Scan automated mission and your DTED will be automatically loaded in your map capture mission menu under mission **Edit Settings, Height Reference AGL**, your tile file name will appear here and this is where you set your terrain height offset above the DEM's ground elevation stored in the tile you just loaded – see Automated Flight Mission Capture Procedures document to plan your flight.

If you need a custom tile outside of WA State follow the Skydio extraction instructions [here](#).