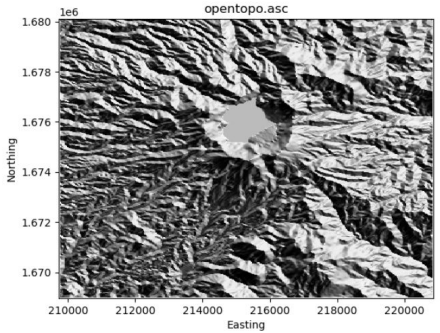
Example: Obtaining a DEM using the victor.py library

1. Log into victor at `victor.2i2c.cloud`. We suggest using the smallest machine for this workflow.
2. Copy the notebook `/shared/Education/USF Comp Volc Spring 2026/Week 2 Intro/ShortCourse.ipynb` to your home folder.
3. Run the cell under “Import the Python libraries we need” to ensure you have the necessary tools.
4. Provide input parameters to access your desired DEM. All text values should be in quotations.
   a. **outputFormat:** assign “ascii” for ASCII format or “tiff’ for geotiff format
   b. **name:** enter the name of your volcano (ex: name = “Pinatubo”)
   c. **dataset:** enter the title of the dataset you’d like to use (ex: dataset = “SRTMGL1”)
   d. **eastwest_extent & northsouth_extent:** enter the number of meters in each direction from the summit that you would like included in the DEM (ex: eastwest_extent = 11000)
5. Once parameters are set, run cells to obtain DEM coordinates.
6. After you have identified your coordinates, run cells to download the DEM file. This file should appear in your home directory.
7. Run the cell which uses “victor.plot_dem()” to visualize the DEM you’ve just downloaded.



Visualize the DEM using QGIS

1. From the “Launcher” page, launch the Desktop by clicking
2. Launch QGIS from the Desktop
3. Add the DEM layer using `Layer→ Add Layer→ Add Raster Layer` and selecting the downloaded file
4. Create a hillshade layer using `Raster→ Analysis → Hillshade→ Run`