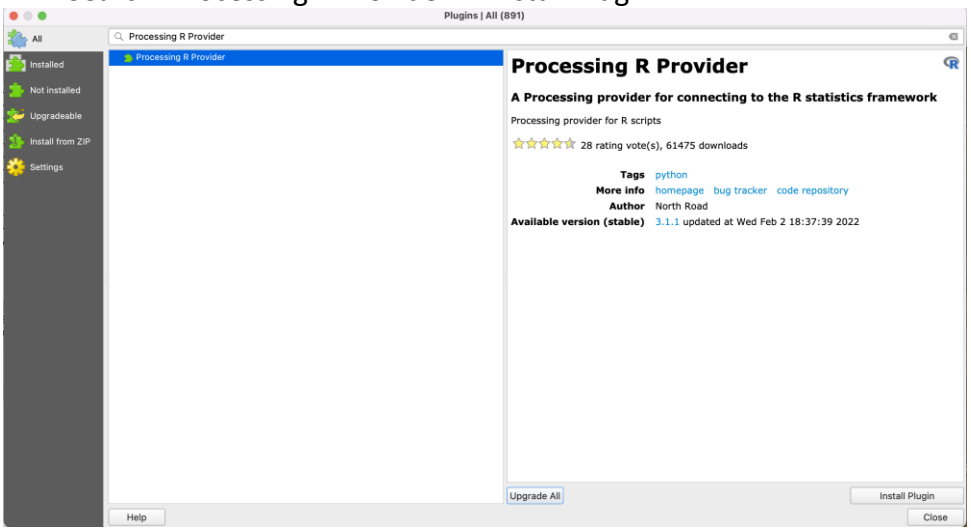
General instructions

- **Install 'Processing R Provider' plug-in in QGIS**
  1. Plugin > Manage and install plugins…

  2. All > Search 'Processing R Provider' > Install Plugin



- **Check plugin was installed correctly**
  3. QGIS > Preferences
  4. Processing > Providers > R
     Windows: Settings > Options > Processing > Providers > R > R scripts folder
  5. Check that all the folders are correct
     See: https://north-road.github.io/qgis-processing-r/

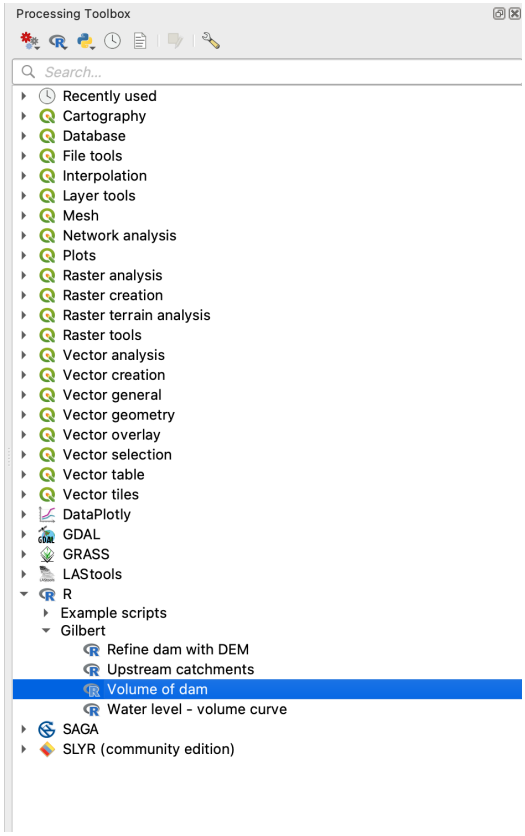
- **Transfer R files to R scripts folder**
  Creating a new folder called 'Gilbert'

- **Run code**
  6. Processing > Toolbox > R > Gilbert
     You may need to quit and reopen to see the 'Gilbert' folder
  7. Select/enter the necessary input and location of the output
  8. Press 'Run'
     Check for error messages

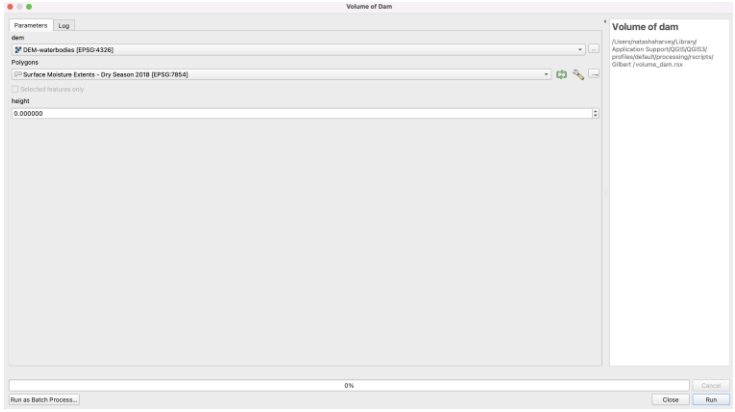
Script – *Volume of Dam*

Requirements:

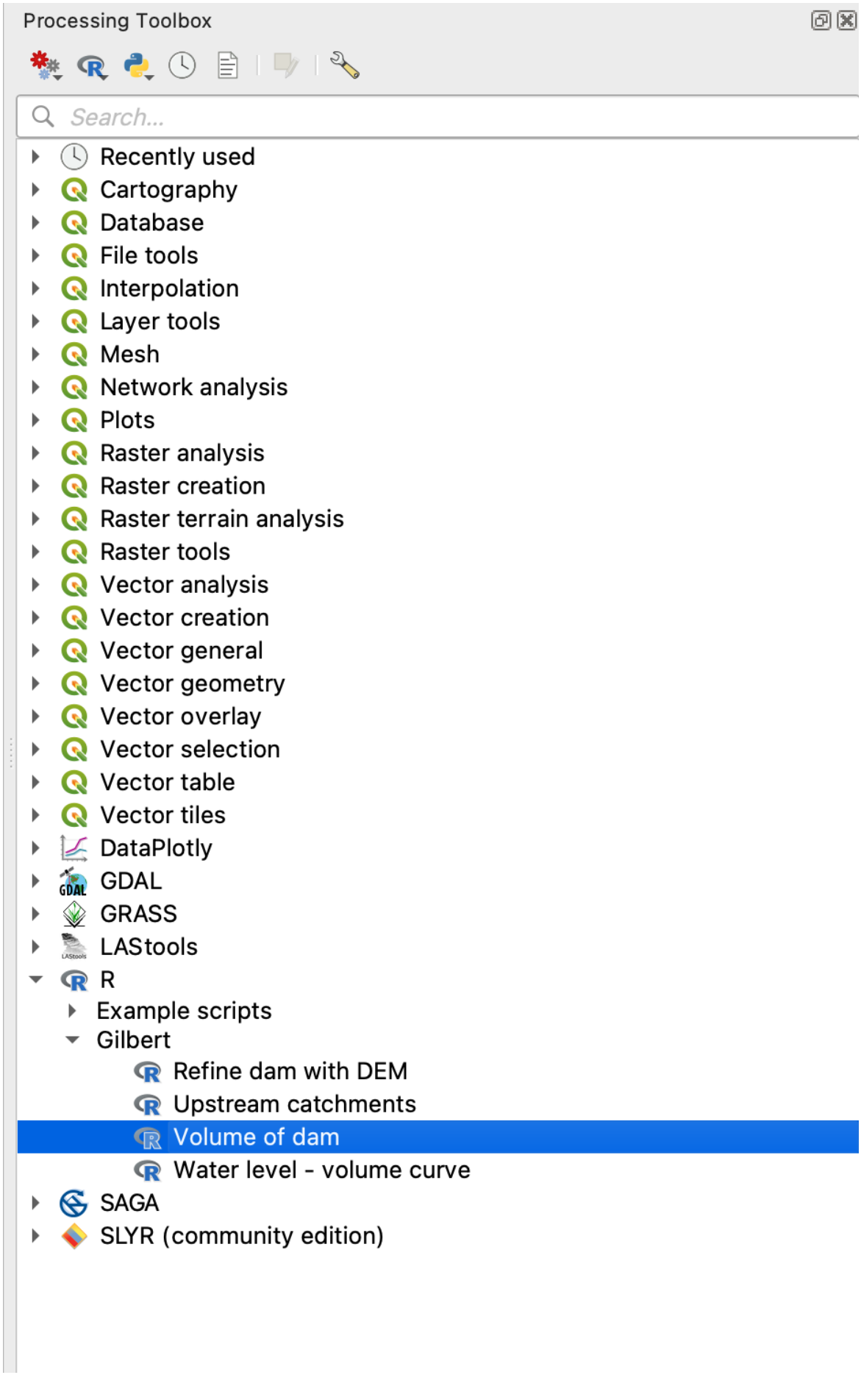
- DEM data
  Downloaded using the SRTM Downloader Plugin
  Tutorial: https://www.geodose.com/2018/02/how-to-download-srtm-elevation-data-qgis.html
  This will download tiles of DEM data which can be merged using the Raster > Miscellaneous > Merge. When saving make sure it's saved as a .tif file
- Layer that shows the dams/water bodies



1. Navigate to the Processing Toolbox > R > Gilbert > Volume of dam script



2. Select the correct DEM and polygons layer. The polygons layer will be the dam/waterbodies layer.
3. Click 'Run'


Processing Toolbox
Search...
Recently used
Cartography
Database
File tools
Interpolation
Layer tools
Mesh
Network analysis
Plots
Raster analysis
Raster creation
Raster terrain analysis
Raster tools
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Example scripts
Gilbert
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Water level - volume curve
SAGA
SLYR (community edition)