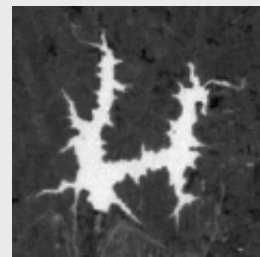
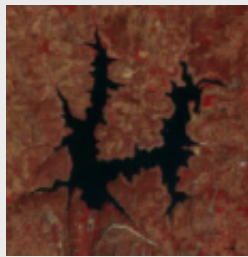
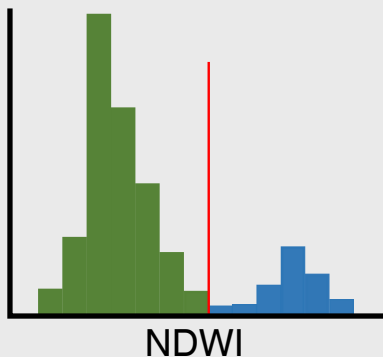


1: Select training reservoir.
Calculate NDWI



2: Otsu method for NDWI threshold at training reservoir. Calculate spectral means for land & clear water

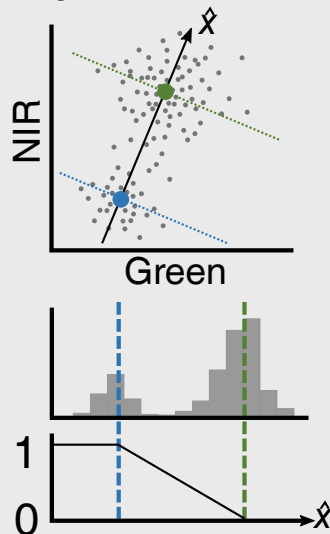


3a: Water pixels – NDWI threshold for clear water

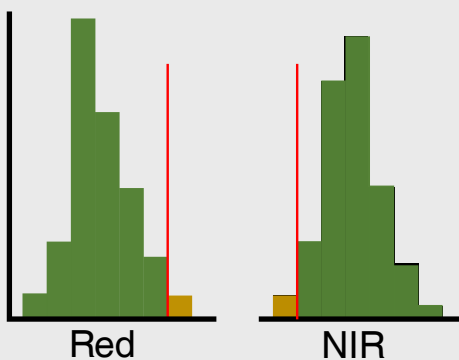
3b: Identify apparent clear water pixels. Dilate two pixels



3c: Spectral unmixing for clear water fraction with green, NIR bands

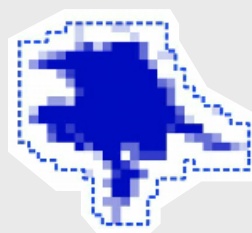


4a: Land pixels – NIR & red thresholds for turbid water



4b: Identify apparent turbid water pixels. Dilate two pixels

4c: Spectral unmixing for turbid water fraction with red, NIR bands



5: Water fraction for each pixel is max of clear fraction and turbid fraction

6: Tank water extent is sum of water fraction of pixels in tank

7: Set flags for clouds/shadows, MSS NA, SLC missing pixels.
Remove corresponding tanks