Color Infrared TIFF, Lake Victoria, Raster, 2016

Reference Information and Units:

Spatial Reference: WGS_1984_UTM_zone_37N

Geographic Datum: D_WGS_1984

Cell Size: 30, 30 (meter)

Bands: 3

NoData Value: 0, 0, 0

Pixel Type: unsigned integer

Pixel Depth: 16 Bit

Pyramids: level: 7, resampling: Nearest Neighbor

File Naming Convention:

ColorInfrared_Mosaic.TIF

Data Origin:

The original scenes were Landsat 8 data that were downloaded from the USGS. Scenes were picked that were from 2016 and had a cloud cover percentage less than 10%. One Scene was used from 2015 due to no suitable scenes being available for 2016.

Data Development:

This TIFF image was created using ArcGIS. To create the color infrared composite each individual scene needs have the red, green, and near infrared bands together. Using Landsat 8 data means that near infrared is band 5, red is band 4, and green is band 3. When setting up the individual scene composites the no data value is set to 0. This gets ride of the black square that surrounds the TIF. Finally when the individual scenes are completed they are ready to be mosaicked. The final mosaic used a blend mosaic type. The blend type decides the output cell based on a horizontally weighted calculation of the values from the overlapping cells. This method helps clean up the output image. When the final mosaic is complete the last step was to create pyramids and calculate statistics.

Scene Information:

	Scene	Landsat Satellite	WRS Path	WRS Row	Year	Julian Day	Ground Station Identifier
2	LC81690592016047LGN00	8	169	059	2016	047	LGN
3	LC81690612016047LGN00	8	169	061	2016	047	LGN
4	LC81690622016047LGN00	8	169	062	2016	047	LGN
5	LC81690632016287LGN00	8	169	063	2016	287	LGN
6	LC81700592016086LGN00	8	170	059	2016	086	LGN
7	LC81700602016230LGN00	8	170	060	2016	230	LGN
8	LC81700612016246LGN00	8	170	061	2016	246	LGN
9	LC81700622016294LGN00	8	170	062	2016	294	LGN
10	LC81700632016294LGN00	8	170	063	2016	294	LGN
11	LC81710602016029LGN00	8	171	060	2016	029	LGN
12	LC81710612015186LGN00	8	171	061	2015	186	LGN
13	LC81710622016205LGN00	8	171	062	2016	205	LGN
14	LC81710632016285LGN00	8	171	063	2016	285	LGN
15	LC81720592016036LGN00	8	172	059	2016	036	LGN
16	LC81720602016180LGN00	8	172	060	2016	180	LGN
17	LC81720612016180LGN00	8	172	061	2016	180	LGN
18	LC81720622016244LGN00	8	172	062	2016	244	LGN
19	LC81720632016244LGN00	8	172	063	2016	244	LGN
20	LC81730602016283LGN00	8	173	060	2016	283	LGN
21	LC81730612016171LGN00	8	173	061	2016	171	LGN
22	LC81730622016187LGN00	8	173	062	2016	187	LGN
23							