

Anafi Ops Map Tutorial

Install QGIS

FS https://usdagcc.sharepoint.com/sites/ocio_itr/SitePages/Certified%20Software.aspx





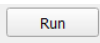
Search for QGIS look for the WKS at the end of the file name

DOI – See your CIO personnel for proper download process

Turn On Toolbox (this only has to be done the first time)

Select Processing>Toolbox

Steps to converting a GeoPDF to tile the Anafi can read.

1. Open new project
2. Drag and drop geo reference PDF into main screen
3. From your toolbox select  GDAL >  Raster miscellaneous >  gdal2tiles
4. This will pop up a new window enter the following:
 - a. Ensure **Input Layer** is correct.
 - b. Zoom levels to render should be 10 and 17 worked good on a 11x17. Enter **10-17** into the zoom level. map see below for more level options*.
 - c. Select the  next to the **Output directory** and select the **Save to directory...** and select location folder you want to save the output information to be saved
 - d. Then select 
 - e. After the processing screen finishes processing you are complete. Often the percentage on the task bar will just return to 0%.
5. Go into the folder you exported the tiles to and zip all the contents within the folder. Make sure there are no folders between what you zip and the top folder. the files within the zip file should look something like this

Name	Date modified	Type	Size
10	4/14/2024 10:05 PM	File folder	
11	4/14/2024 10:05 PM	File folder	
12	4/14/2024 10:05 PM	File folder	
13	4/14/2024 10:05 PM	File folder	
14	4/14/2024 10:05 PM	File folder	
15	4/14/2024 10:05 PM	File folder	
16	4/14/2024 10:05 PM	File folder	
17	4/14/2024 10:04 PM	File folder	
googlemaps.html	4/14/2024 10:04 PM	Chrome HTML Docume...	13 KB
leaflet.html	4/14/2024 10:04 PM	Chrome HTML Docume...	5 KB
openlayers.html	4/14/2024 10:04 PM	Chrome HTML Docume...	9 KB
tilemapresource.xml	4/14/2024 10:04 PM	Microsoft Edge HTML D...	2 KB

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6. Add the zip file to the GCS. (do not unzip this file ever)
 7. Import the zip file the same way you add a DTED file.
 8. Success

*You can enter zoom levels from 0-20. If you put 0-20 into the system, it will always show. 10-17 seemed to be the best middle ground so you can still see the downloaded google maps that are higher quality ortho map. The below table is a description of what each number roughly shows and the scale.

Level	# Tiles	Tile width (° of longitudes)	m / pixel (on Equator)	~ Scale (on screen)	Examples of areas to represent
0	1	360	156 543	1:500 million	whole world
1	4	180	78 272	1:250 million	
2	16	90	39 136	1:150 million	subcontinental area
3	64	45	19 568	1:70 million	largest country
4	256	22.5	9 784	1:35 million	
5	1 024	11.25	4 892	1:15 million	large African country
6	4 096	5.625	2 446	1:10 million	large European country
7	16 384	2.813	1 223	1:4 million	small country, US state
8	65 536	1.406	611.496	1:2 million	
9	262 144	0.703	305.748	1:1 million	wide area, large metropolitan area
10	1 048 576	0.352	152.874	1:500 thousand	metropolitan area
11	4 194 304	0.176	76.437	1:250 thousand	city
12	16 777 216	0.088	38.219	1:150 thousand	town, or city district
13	67 108 864	0.044	19.109	1:70 thousand	village, or suburb
14	268 435 456	0.022	9.555	1:35 thousand	
15	1 073 741 824	0.011	4.777	1:15 thousand	small road
16	4 294 967 296	0.005	2.389	1:8 thousand	street
17	17 179 869 184	0.003	1.194	1:4 thousand	block, park, addresses
18	68 719 476 736	0.001	0.597	1:2 thousand	some buildings, trees
19	274 877 906 944	0.0005	0.299	1:1 thousand	local highway and crossing details
20	1 099 511 627 776	0.00025	0.149	1:5 hundred	A mid-sized building