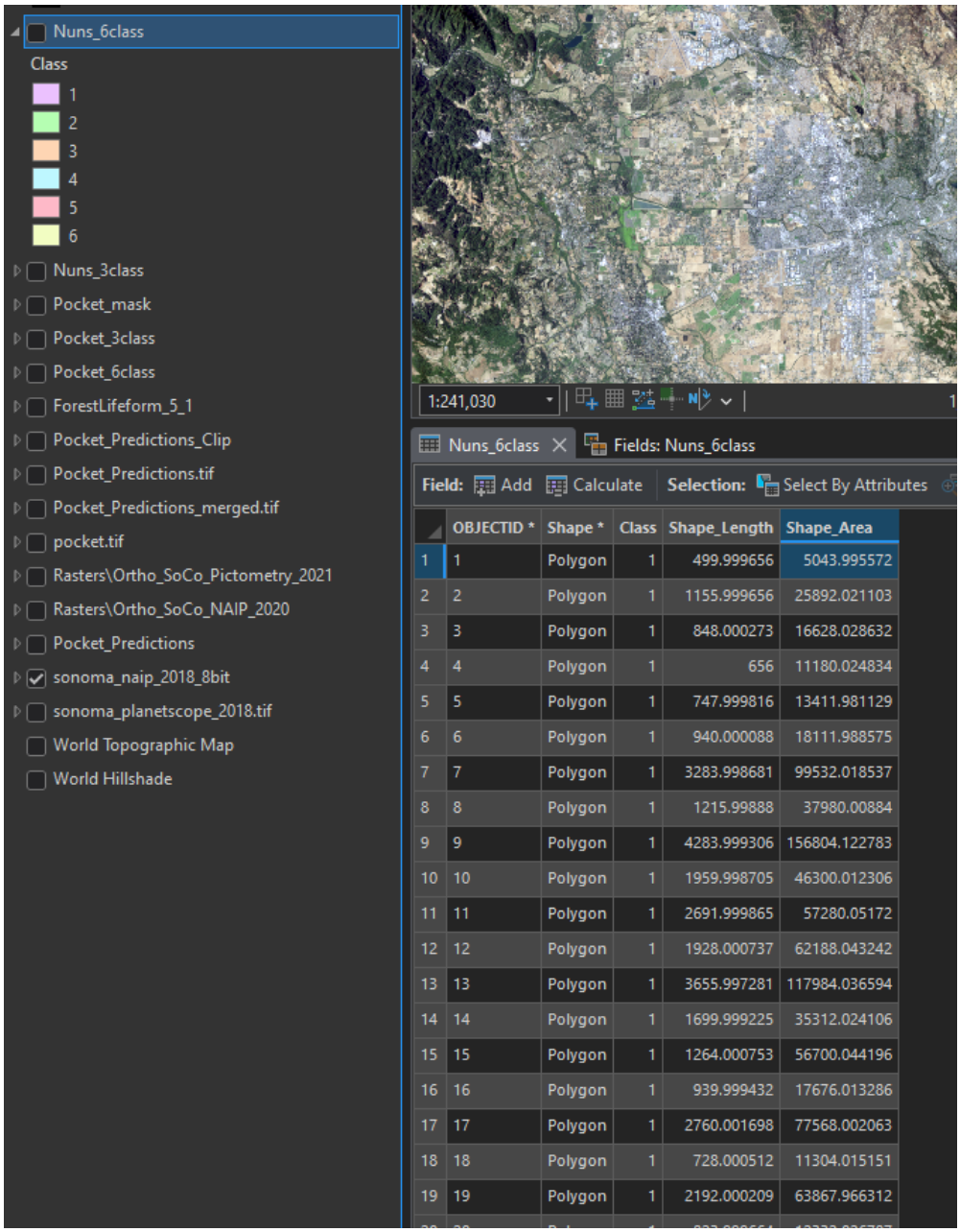
Creating our datasets in ARCGIS
Needed files:

- Pocket_6class
- Nuns_6class
- Tubbs_6class
- Sonoma_naip_2018_8bit

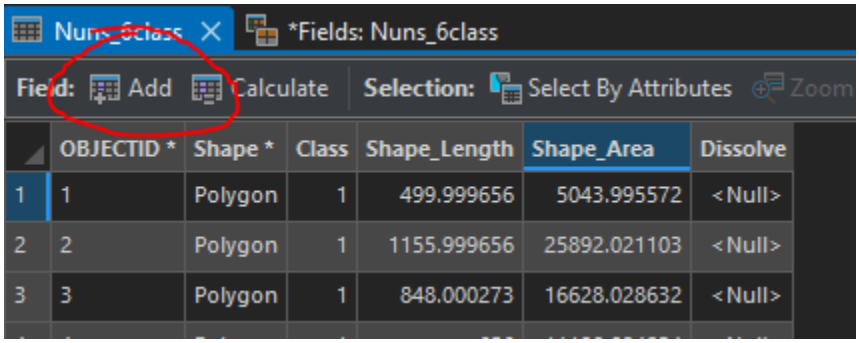
Step 1: Create a mask of each 6class map

1. Right click the selected 6class map and choose attribute table (ctrl + t)

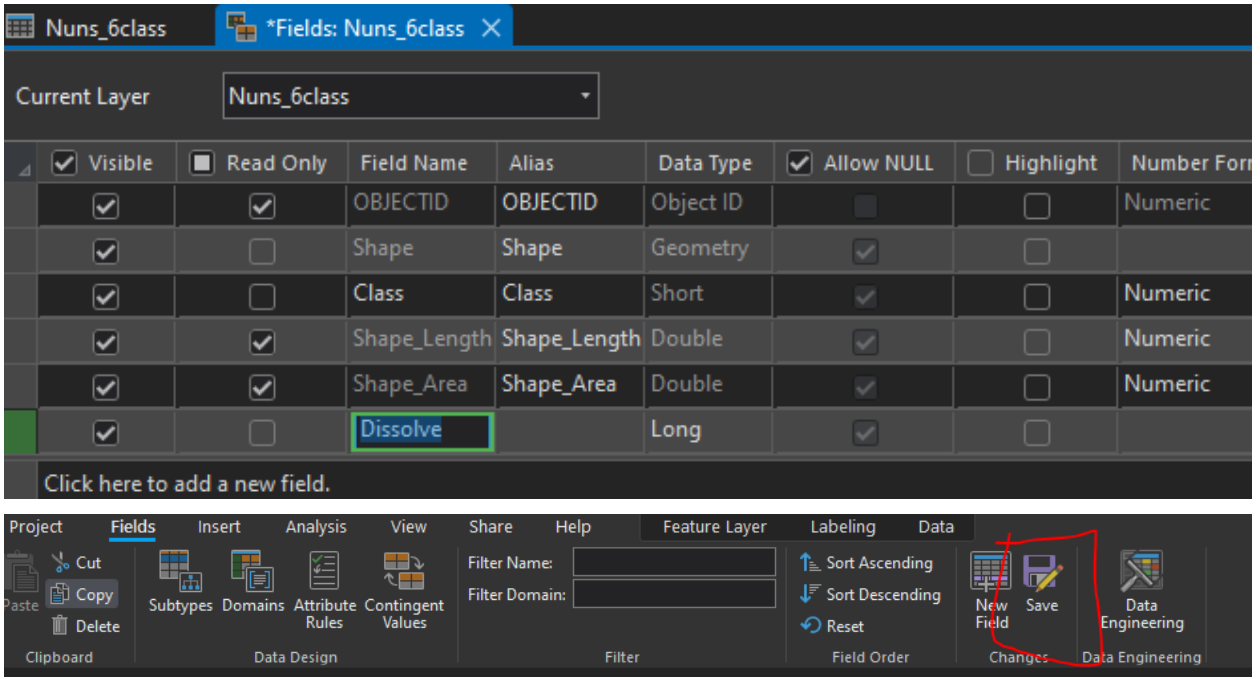


	OBJECTID *	Shape *	Class	Shape_Length	Shape_Area
1	1	Polygon	1	499.999656	5043.995572
2	2	Polygon	1	1155.999656	25892.021103
3	3	Polygon	1	848.000273	16628.028632
4	4	Polygon	1	656	11180.024834
5	5	Polygon	1	747.999816	13411.981129
6	6	Polygon	1	940.000088	18111.988575
7	7	Polygon	1	3283.998681	99532.018537
8	8	Polygon	1	1215.99888	37980.00884
9	9	Polygon	1	4283.999306	156804.122783
10	10	Polygon	1	1959.998705	46300.012306
11	11	Polygon	1	2691.999865	57280.05172
12	12	Polygon	1	1928.000737	62188.043242
13	13	Polygon	1	3655.997281	117984.036594
14	14	Polygon	1	1699.999225	35312.024106
15	15	Polygon	1	1264.000753	56700.044196
16	16	Polygon	1	939.999432	17676.013286
17	17	Polygon	1	2760.001698	77568.002063
18	18	Polygon	1	728.000512	11304.015151
19	19	Polygon	1	2192.000209	63867.966312

2. In the top right corner select add new field

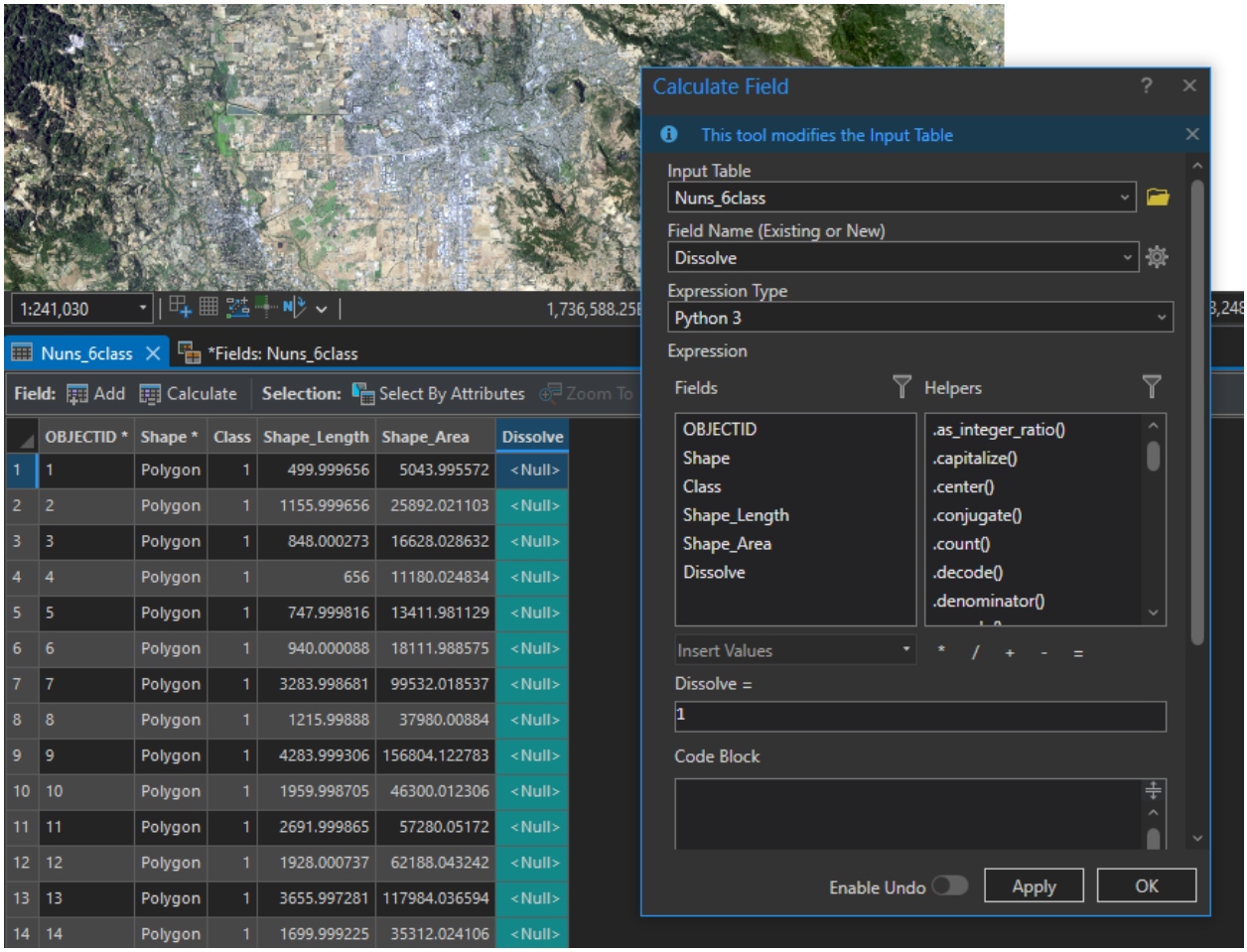


3. Then create a new field labeled dissolve. At the top of the field panel hit Save



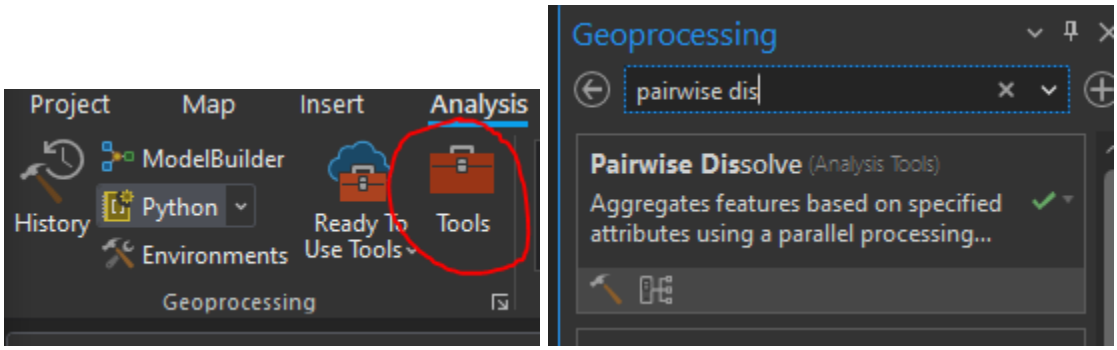
4. Go back and right click the new Column labeled dissolve and select calculate field

5. Set dissolve to 1 in the calculate field function

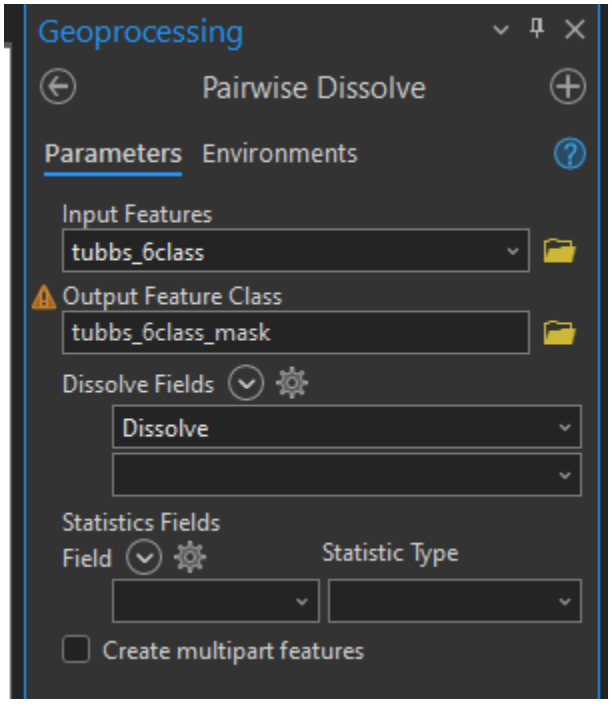


	OBJECTID *	Shape *	Class	Shape_Length	Shape_Area	Dissolve
1	1	Polygon	1	499.999656	5043.995572	<Null>
2	2	Polygon	1	1155.999656	25892.021103	<Null>
3	3	Polygon	1	848.000273	16628.028632	<Null>
4	4	Polygon	1	656	11180.024834	<Null>
5	5	Polygon	1	747.999816	13411.981129	<Null>
6	6	Polygon	1	940.000088	18111.988575	<Null>
7	7	Polygon	1	3283.998681	99532.018537	<Null>
8	8	Polygon	1	1215.99888	37980.00884	<Null>
9	9	Polygon	1	4283.999306	156804.122783	<Null>
10	10	Polygon	1	1959.998705	46300.012306	<Null>
11	11	Polygon	1	2691.999865	57280.05172	<Null>
12	12	Polygon	1	1928.000737	62188.043242	<Null>
13	13	Polygon	1	3655.997281	117984.036594	<Null>
14	14	Polygon	1	1699.999225	35312.024106	<Null>

6. Now go to analysis and click tools type in pairwise dissolve



7. Fill in the parameters of the pairwise Dissolve function

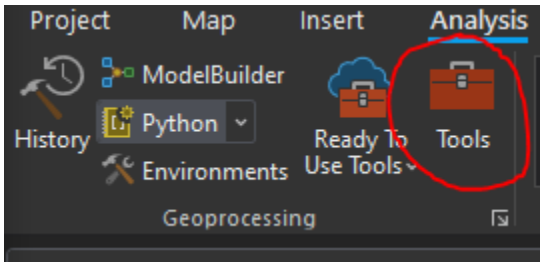


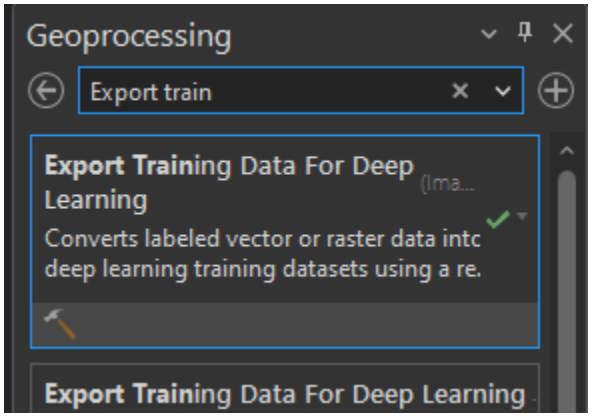
   a. Select the 6class map you are working with as the Input features
   b. The output feature class is what you want to name the mask
   c. Dissolve fields should be dissolve
   d. Everything else is blank

8. Hit run in the bottom right corner and this will create the mask of the 6class map. Do this for all three fires.

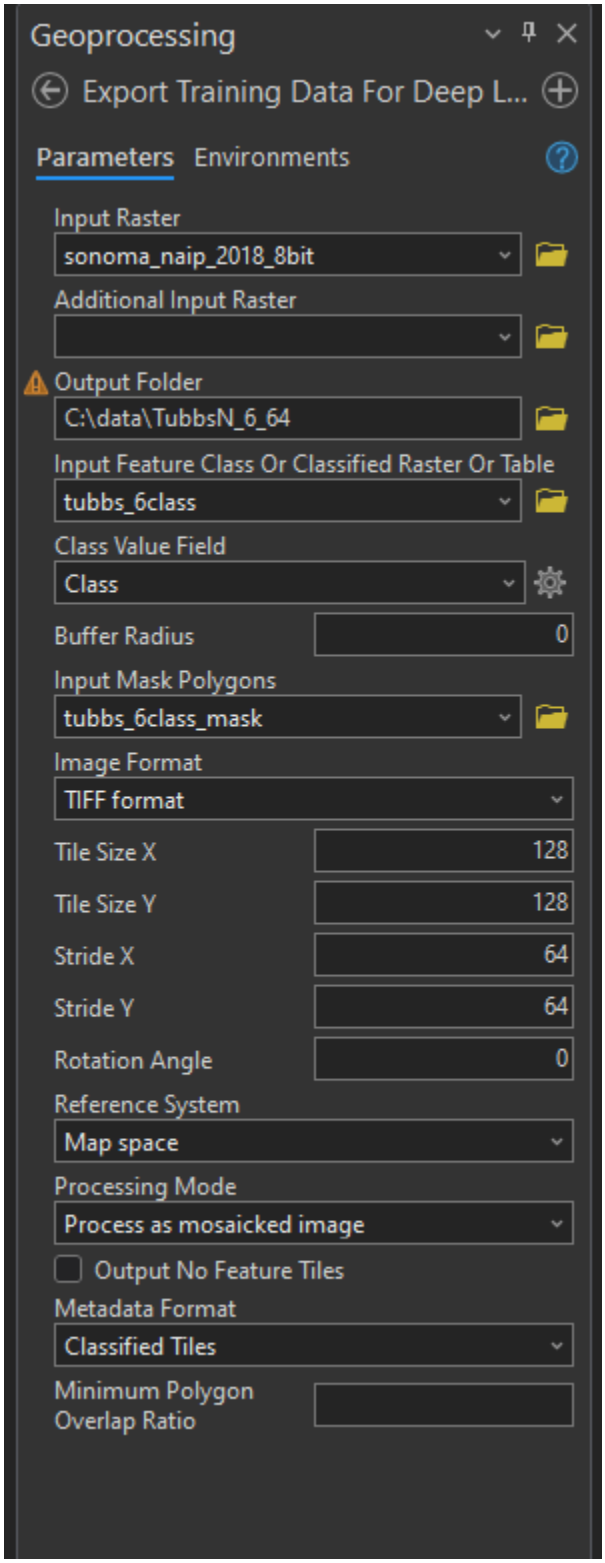
Step 2: Generating the chips

1. Go to analysis and click tools, type in export training data for deep learning





2. Fill the in the parameters of the Function:



   a. Input Raster: sonoma_naip_2018_8bit
   b. OutputFolder: What you want to name the folder the chips are in
   c. Input Feature class or classified raster or table: the 6class map ie tubbs_6class
   d. Class Value Field: Class
   e. Input Mask Polygons: The mask of the 6class map you are using
   f. Image Format: Tiff
   g. Tile size x and y : 128
   h. Stride x and y: 64
   i. Reference system: map space
   j. Processing mode: as mosaicked image
   k. Metadata format: Classified Tiles
3. Hit run and this should generate our dataset. This can take a few hours to run