Jeremy Toepp | GR 6303 | Dr. Nagel | 15 October 2018

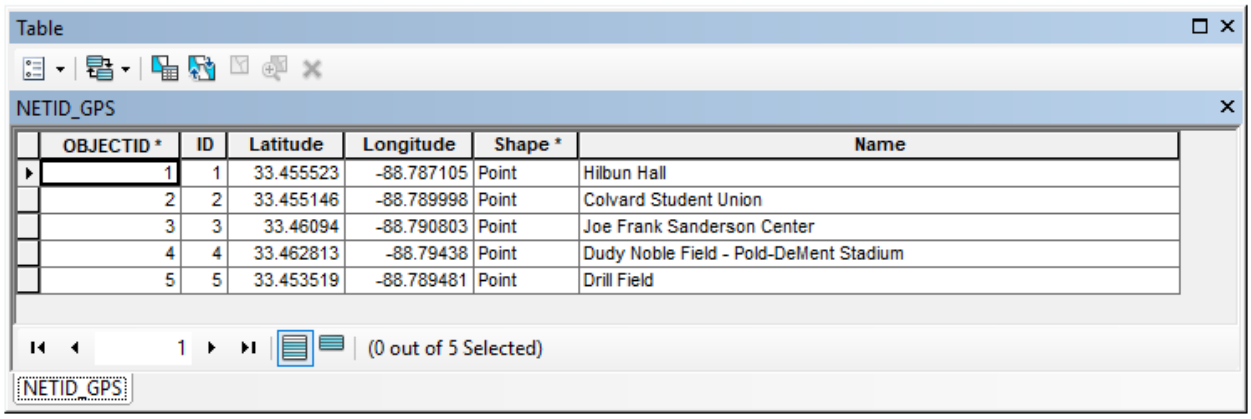

Figure 1: A screenshot of the MSU GPS points after finding the building names.

On my honor, as a Mississippi State Student, I have neither given nor received unauthorized assistance on this academic work.

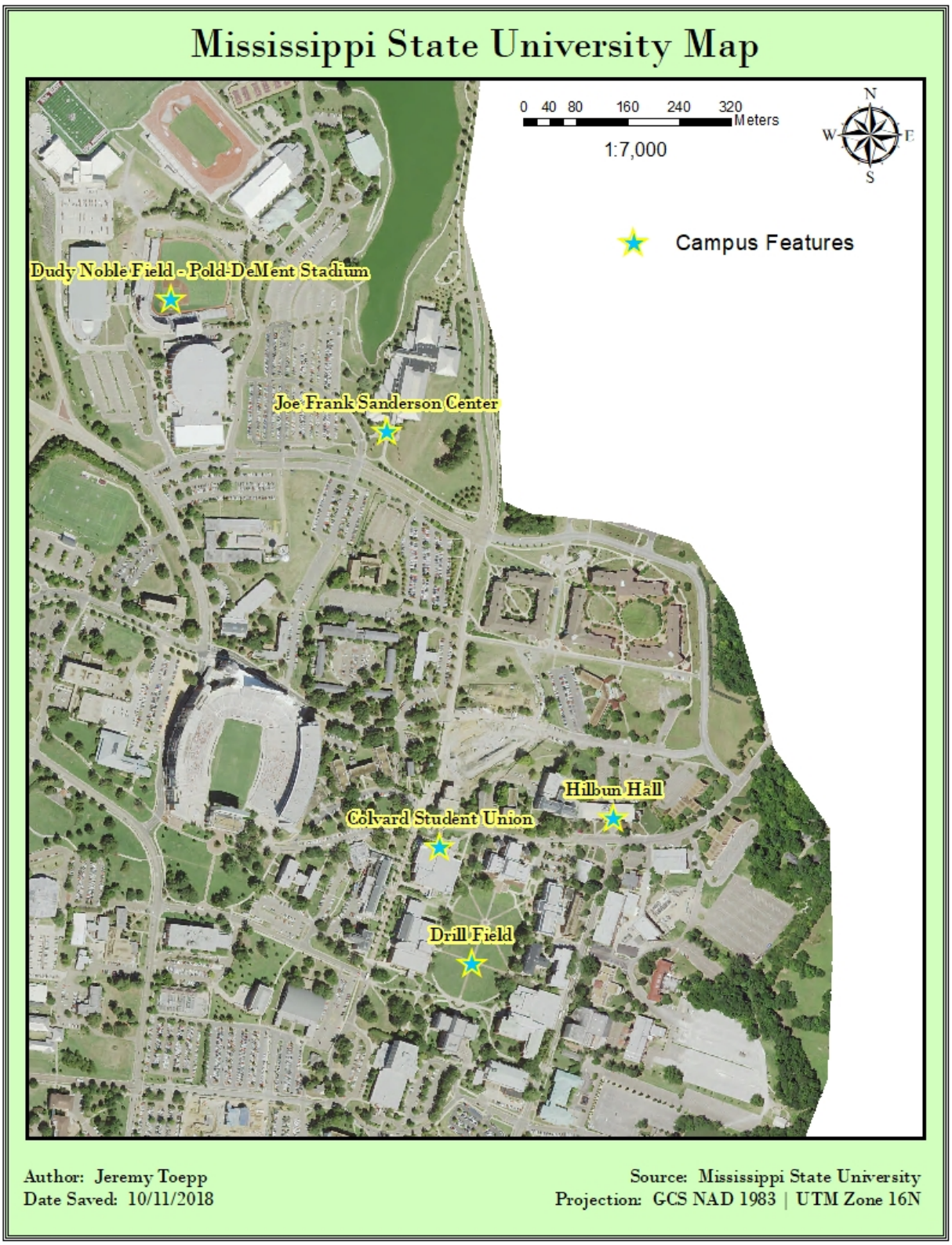

Figure 2: A map of the MSU campus in Mississippi with select features labeled.

On my honor, as a Mississippi State Student, I have neither given nor received unauthorized assistance on this academic work.

Link

Total RMS Error: Forward: 12.3299

Link	X Source	Y Source	X Map	Y Map	Residual_x	Residual_y	Residual
1	564.11026359	-1075.68862981	436940.59370	7177682.4996...	-6.14203220	5.50088723	8.24526044
2	585.41277343	-1139.84094893	436937.81301	7177009.9997...	-11.95764927	10.28633023	15.77320404
3	589.43172231	-1178.93916343	436873.37491	7176613.4996...	7.27670741	-1.20409201	7.37565646
4	831.61998728	-631.47674394	440894.18247	7181088.9889...	8.98385005	7.83608604	11.92114953
5	938.55996771	-193.48088308	443284.50044	7184915.0000...	12.16237750	-8.47258890	14.82255677
6	550.53616715	-568.59465517	438400.83664	7182556.5792...	1.09546903	5.51987005	5.62752324
7	545.05403528	-812.49633970	437584.21795	7180241.2957...	-2.06619533	-2.64797710	3.35871194
8	529.05956969	-1277.03243943	435997.59372	7175856.5001...	13.60338653	-10.50440515	17.18704898
9	534.99151438	-1036.00845664	436789.37565	7178137.9991...	-3.38260384	-7.30643836	8.05146261
10	897.89069128	-469.00622478	442004.91346	7182425.0122...	-19.57330989	0.99232798	19.59844828

Auto Adjust Transformation: 1st Order Polynomial (Affine)

Degrees Minutes Seconds Forward Residual Unit : Unknown

Figure 3: A screenshot of the georeferencing control points used in aligning the road map and satellite image. A high RMS is to be expected, as upon control inspection the polygon representing the roads could have been aligned more closely to what the satellite image shows by possibly using a higher order equation as a line of best fit.

On my honor, as a Mississippi State Student, I have neither given nor received unauthorized assistance on this academic work.

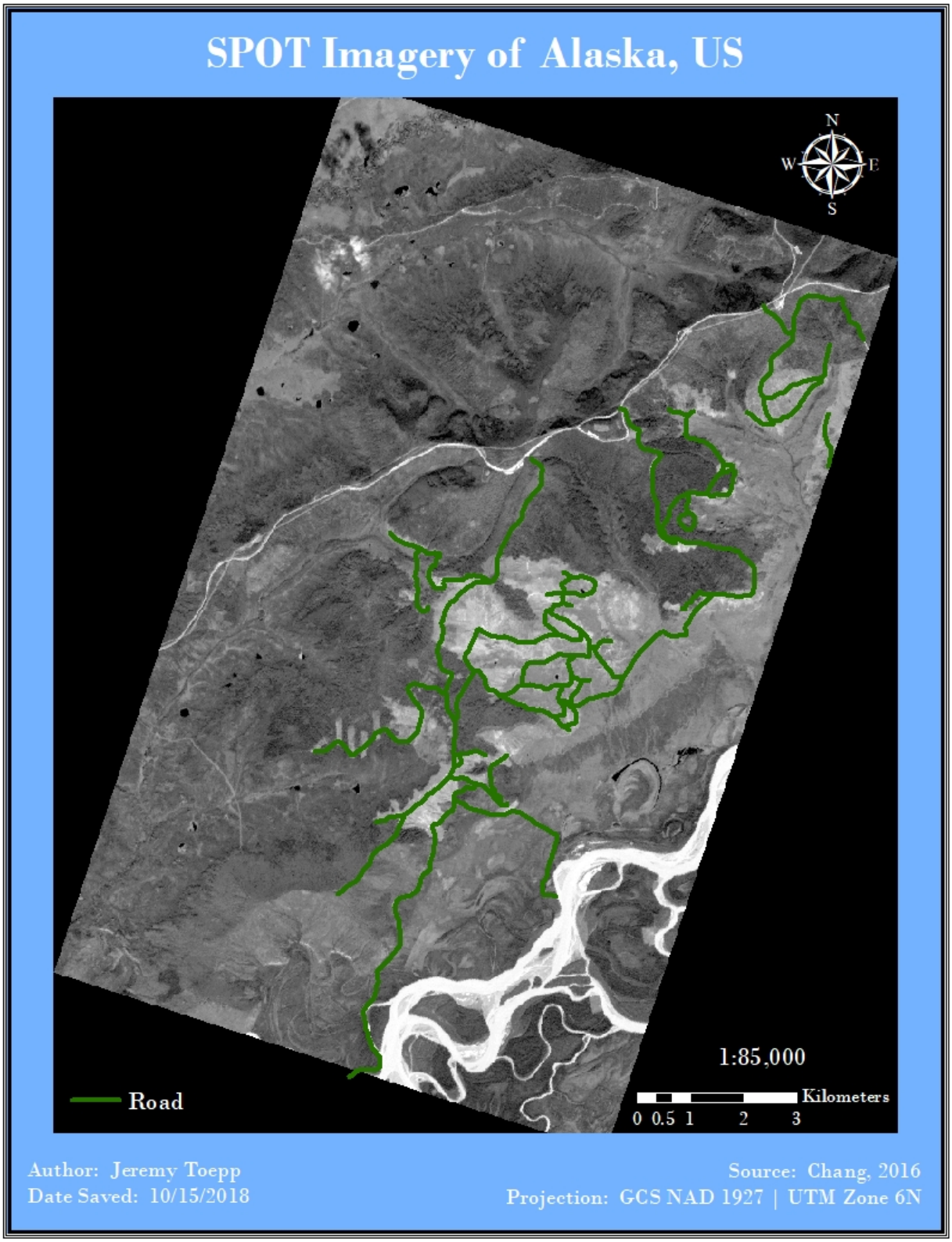

Figure 4: SPOT satellite imagery of Alaska, US that has been georeferenced according to the roads overlaid on top.

On my honor, as a Mississippi State Student, I have neither given nor received unauthorized assistance on this academic work.