

A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from this bar, containing the date.

5/23/2018

GEOGRAPHIC INFORMATION SYSTEMS

Assignment 2

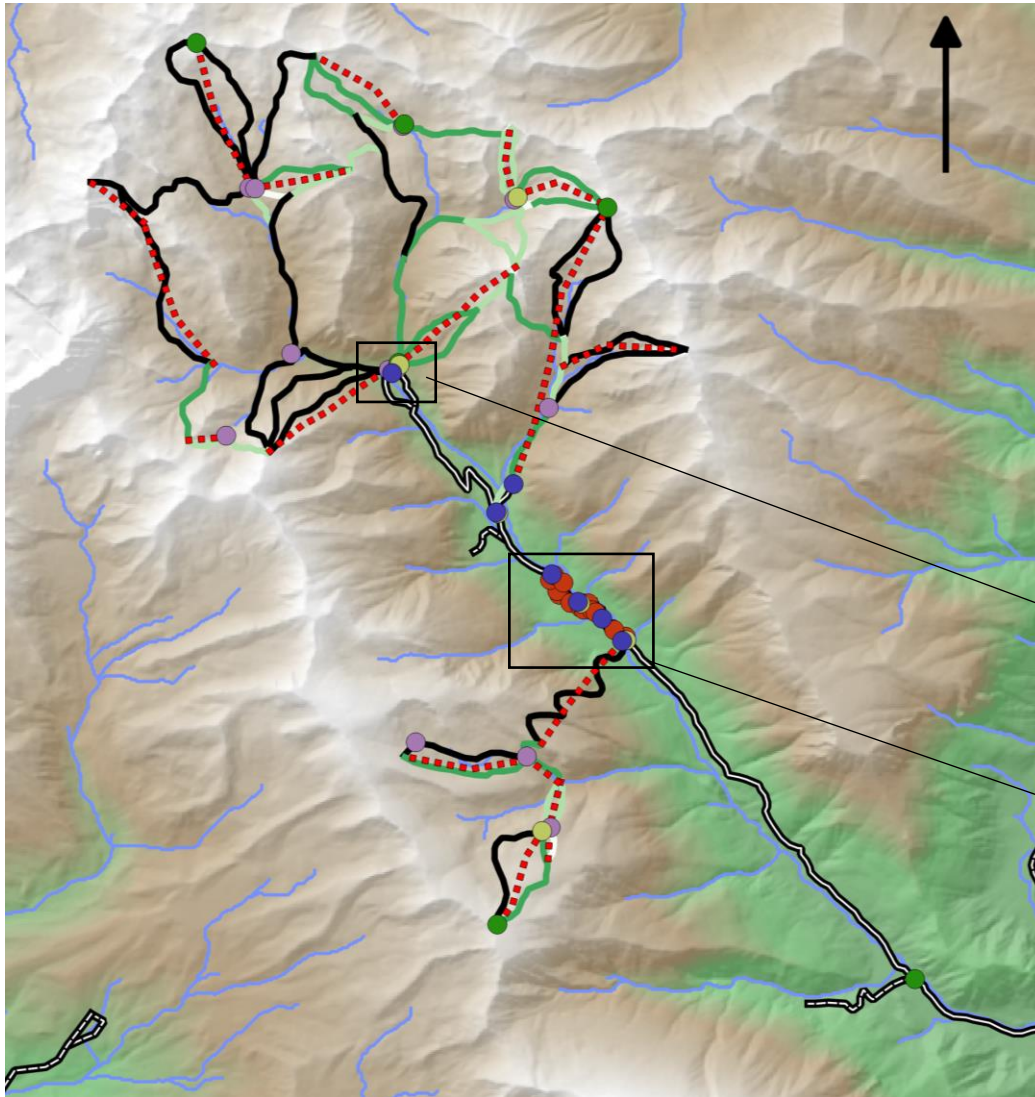
Several thin, curved lines in dark blue and light grey originate from the bottom left and sweep upwards and to the right.

Daire Grimes
C14407812

1.

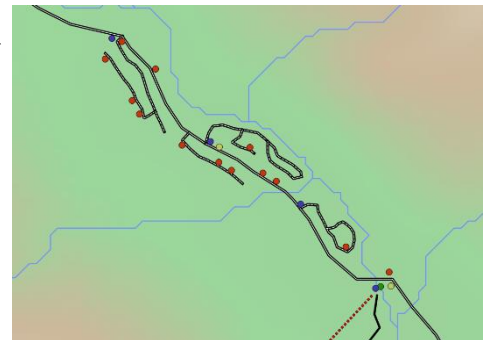
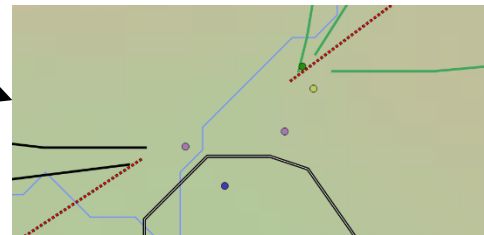
Happy Valley Relief Map

2.5 0 2.5 5 7.5 10 km



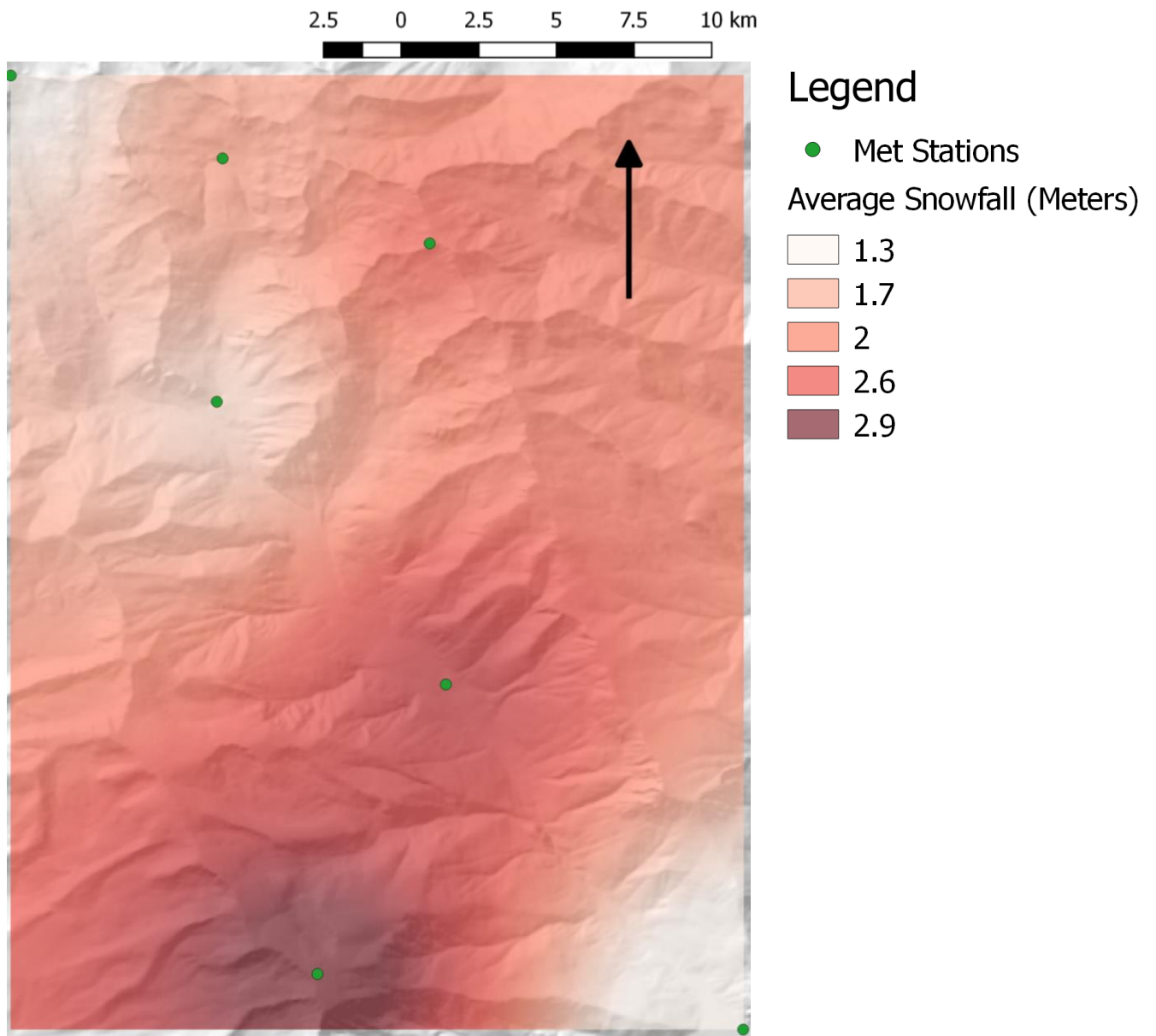
Legend

- Car Parks
- Ski Schools
- Met Stations
- Restaurants
- Hotels
- Ski Lifts
- Pistes (Metres)
 - 29 - 989
 - 989 - 1928
 - 1928 - 3478
 - 3478 - 7086
- Roads
- Rivers
- Bus Routes



2.

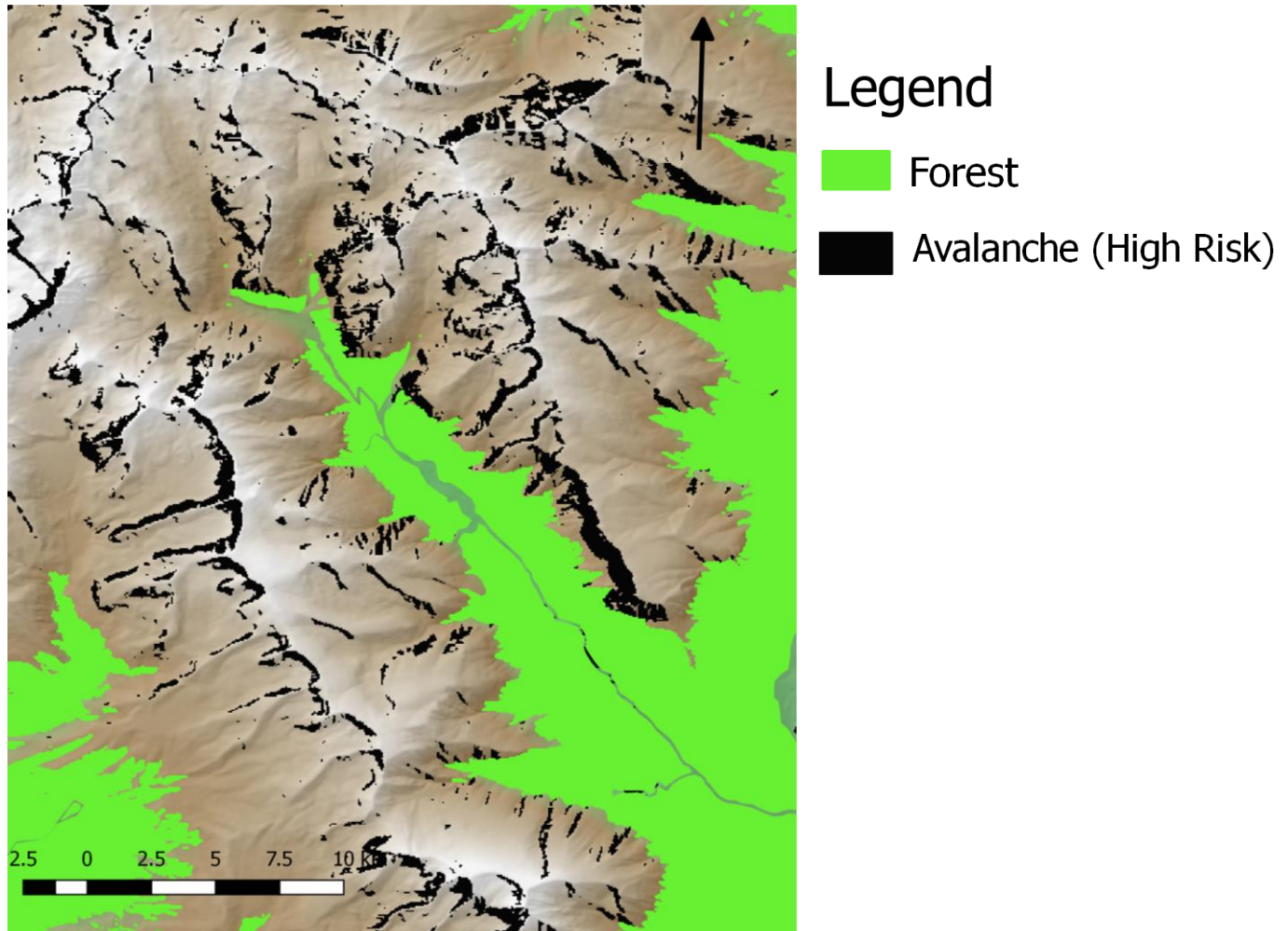
Average Snowfall



Spacial Interpolation was used to create this model.

3.

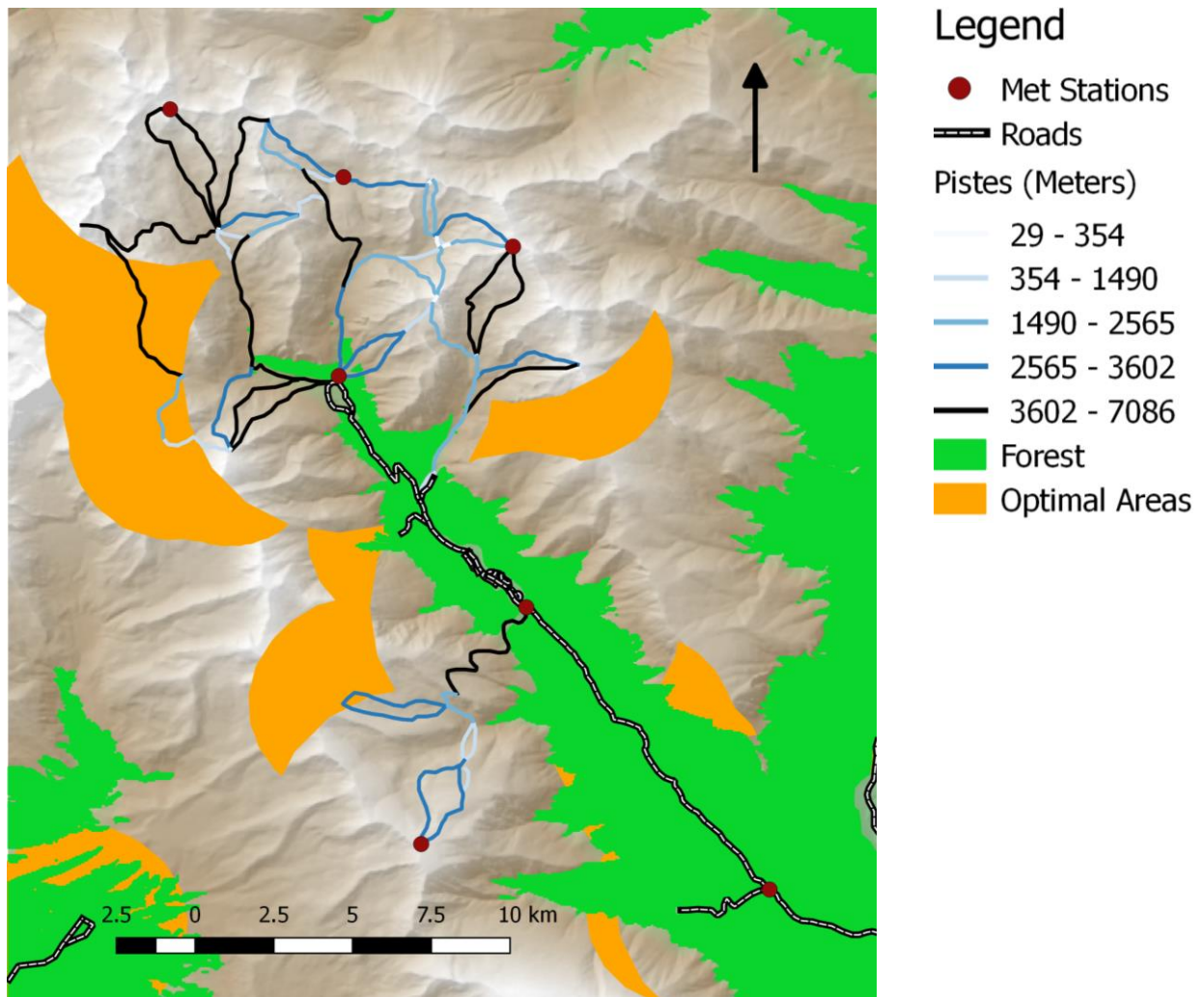
Susceptible to Avalanche Risk



For this Model the slope and the aspect had to be calculated. The slope was done by finding the angel between 20-45 degress and the aspect was done by the west side which was > 180 and < 0 degrees. Then, these two values were mulplied and that was the result.

4.

Optimal Areas for building a new Met Station.



This model was completed using buffer. First, the buffer size of the Met stations, the pistes and the roads were calculated. Then, the pistes and road buffers were subtracted by the met stations. Also, there is the forest area which cannot have a new met station.