## Calculating NVDI

## K Perham

## May 2017

Below I have gathered Landsat data which will be used to calculate NVDI:

The script above instructs r to gather all the bands and stack them together.

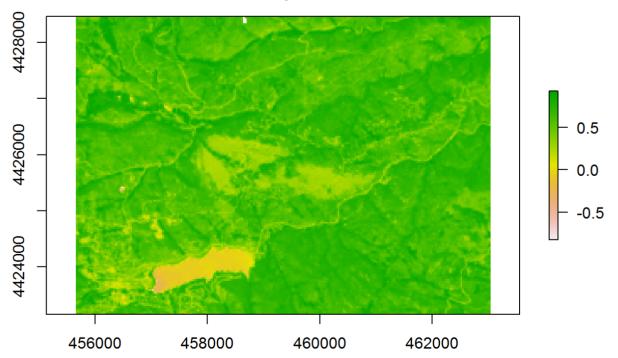
The red and infrared bands will be used to calculate the index using a specified ratio:

```
 landsat\_ndvi <- (landsat\_stack\_csf[[5]] - landsat\_stack\_csf[[4]]) \ / \ (landsat\_stack\_csf[[5]] + landsat\_stack\_csf[[4]])
```

Then the result is plotted:

```
plot(landsat_ndvi,
main="Landsat derived NDVI\n 23 July 2016")
```

## Landsat derived NDVI 23 July 2016



The values are examined in the histogram below:

