

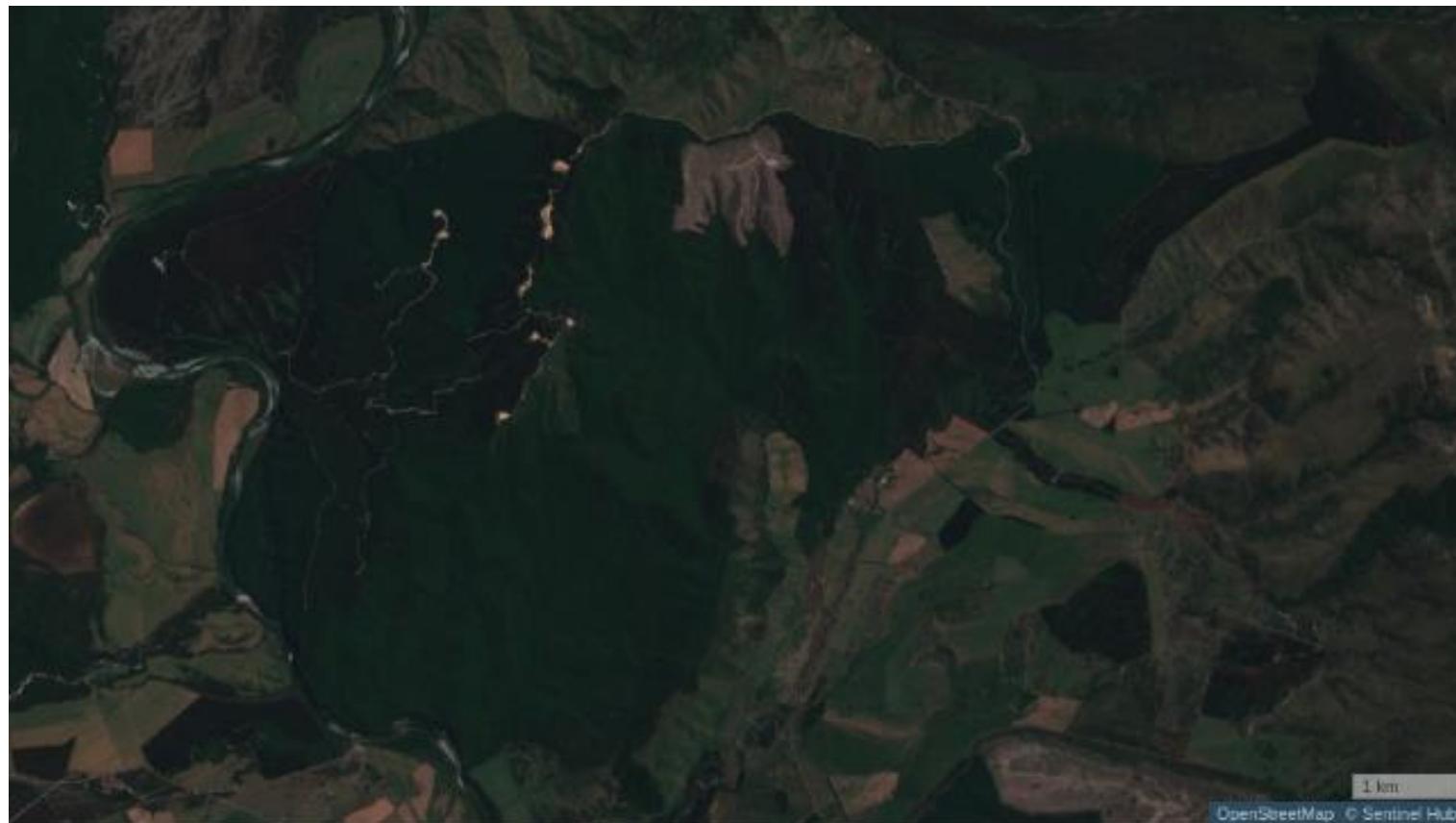
Remote Sensing of Vegetation

Task One- Visualise Vegetation

"What is the best combination of ESA Sentinel-2 spectral bands to visualise the vegetation types and the layers we want to map according to the Topo50 Vegetation Remote Sensing Capture Specification Document

Task One- Visualise Vegetation

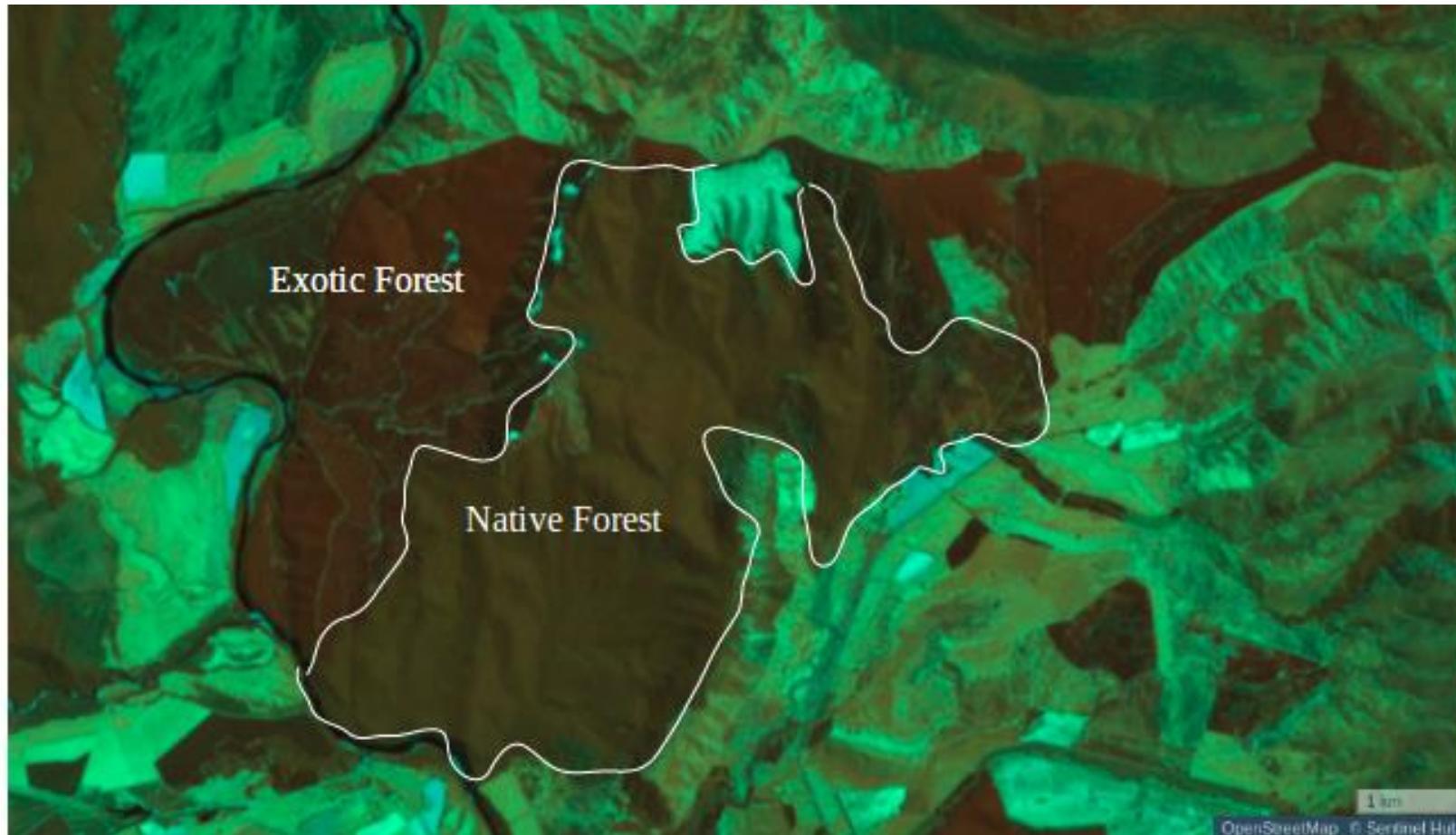
Native and Exotic Forest, Southland NZ



True

Task One- Visualise Vegetation

Native and Exotic Forest, Southland NZ



R: B09, G:B11, B:B12

Task One- Visualise Vegetation

Shelter Belts, Wairarapa NZ



R: B11 G: B08 B: B02



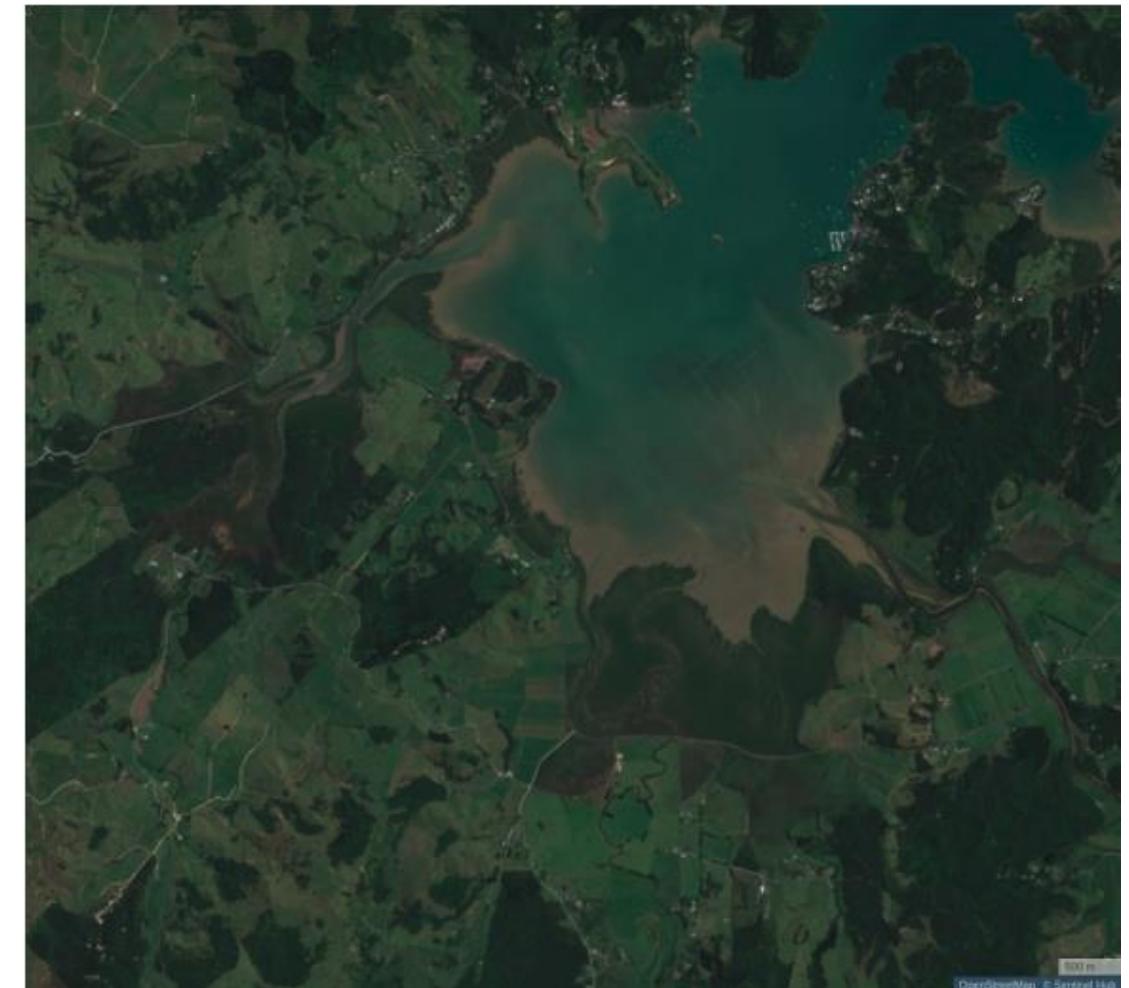
True

Task One- Visualise Vegetation

Mangrove, Whangaroa NZ



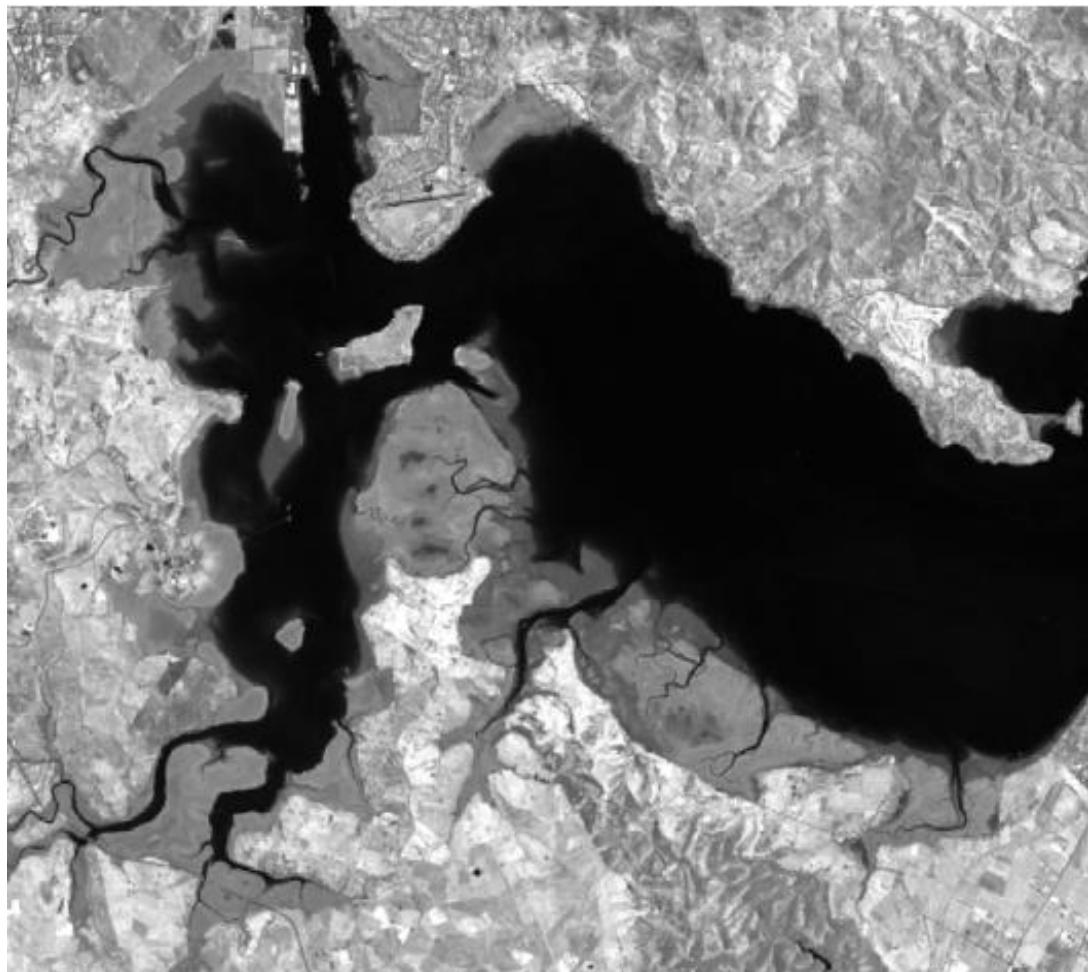
R: B12, G: B04, B: B02



True

Task One- Visualise Vegetation

Mangrove, Whangarei NZ



B06



True

Task One- Visualise Vegetation

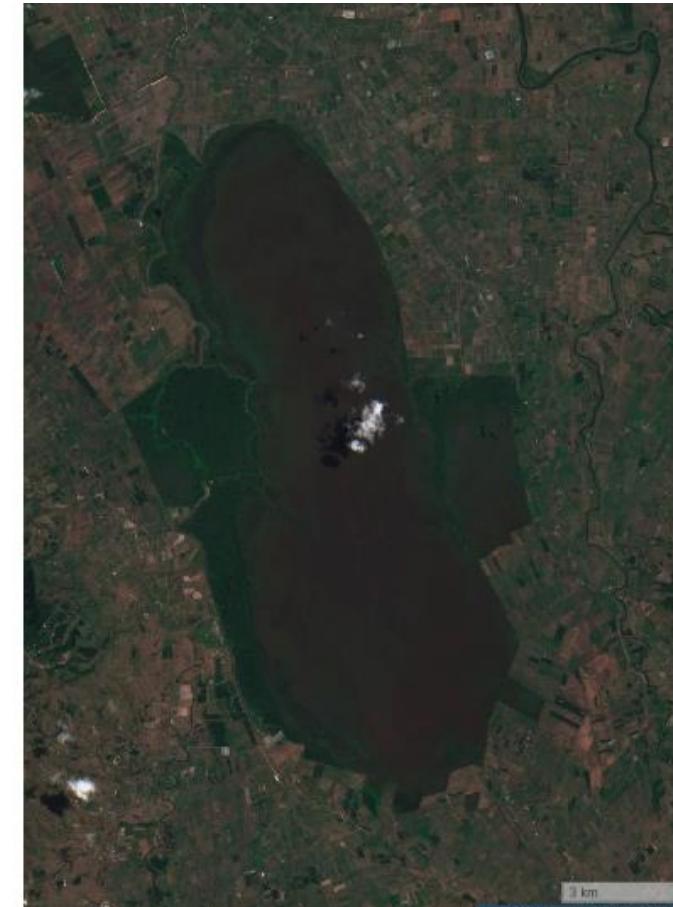
Swamp, Waikato NZ



Infrared



NDWI



True

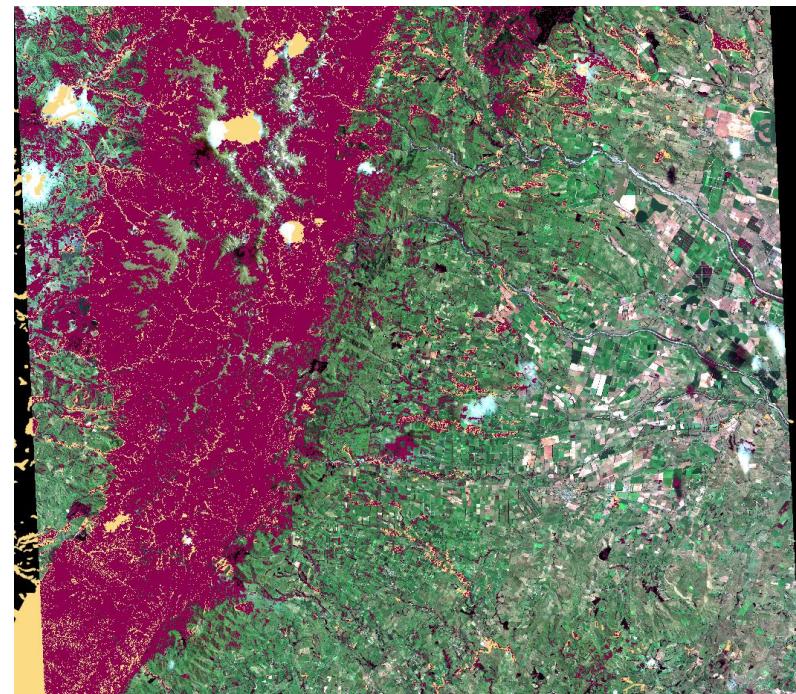
Task One- Visualise Vegetation

Vegetation Type	Bands	Comments
Scrub	n/a	
Native	B09,B11,B12	
Exotic	B08A,B11,B12	
Shelter Belts	B11,B08,B02	
Orchard	(B08-B04)/(B08+B04)	NDVI
Vineyard	(B08-B04)/(B08+B04)	NDVI
Mangrove	B12,B04,B02	
Mangrove	B06	Alternative
Swamp	B08A,B04,B03	Infrared

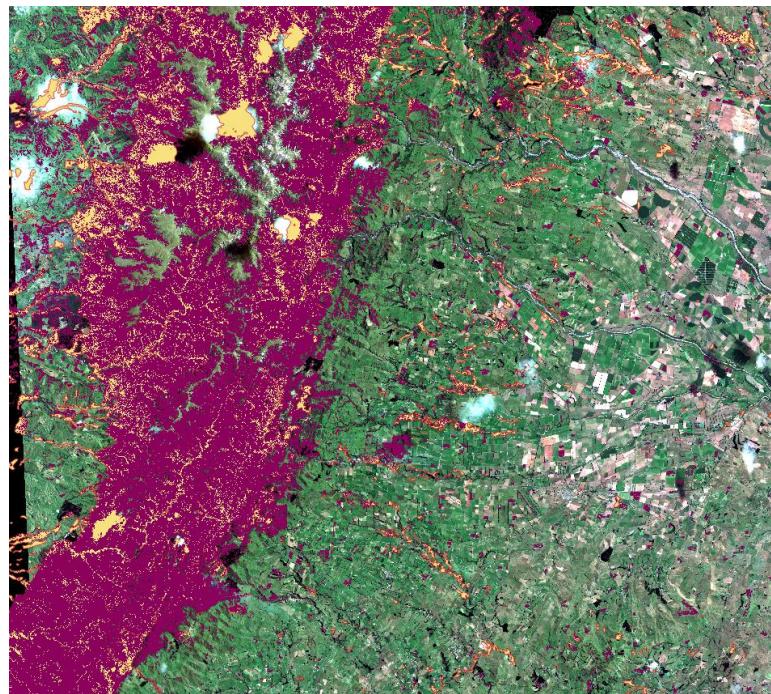
Task Two- Supervised Classification

"Research ENVI and QGIS supervised classification methods for extracting the vegetation layers defined in the Topo50 Vegetation Remote Sensing Capture Specification"

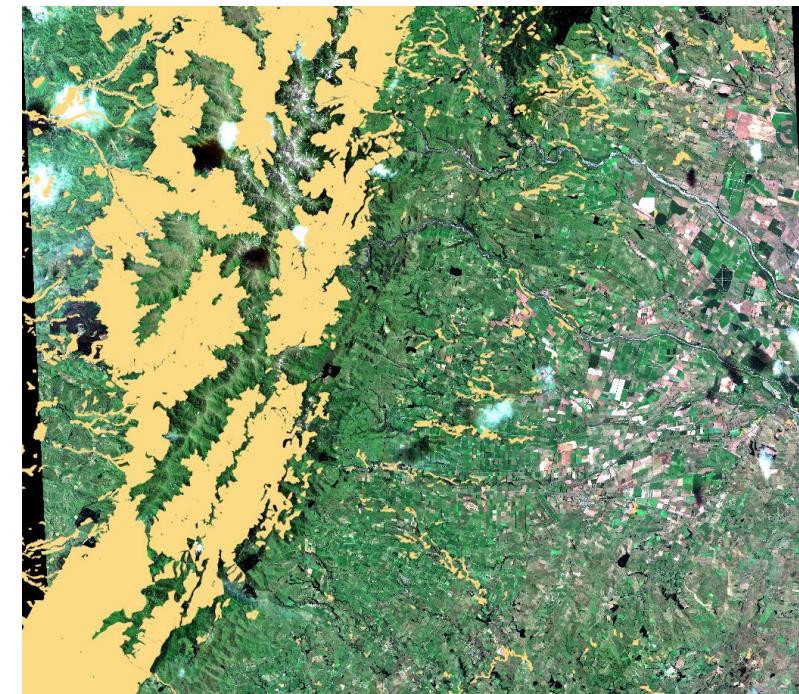
Task Two- Supervised Classification



ENVI



QGIS



Topo 150k

Task Two- Supervised Classification



ENVI

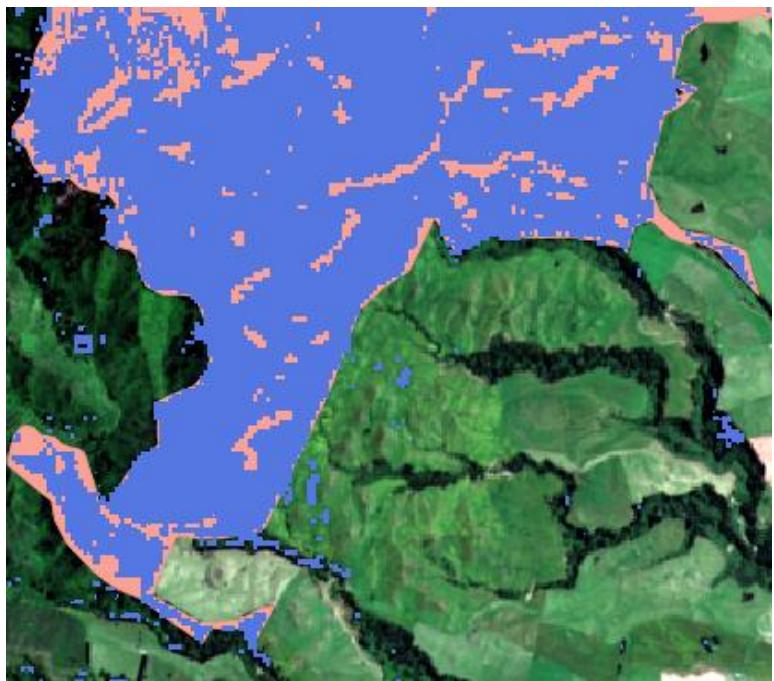


QGIS

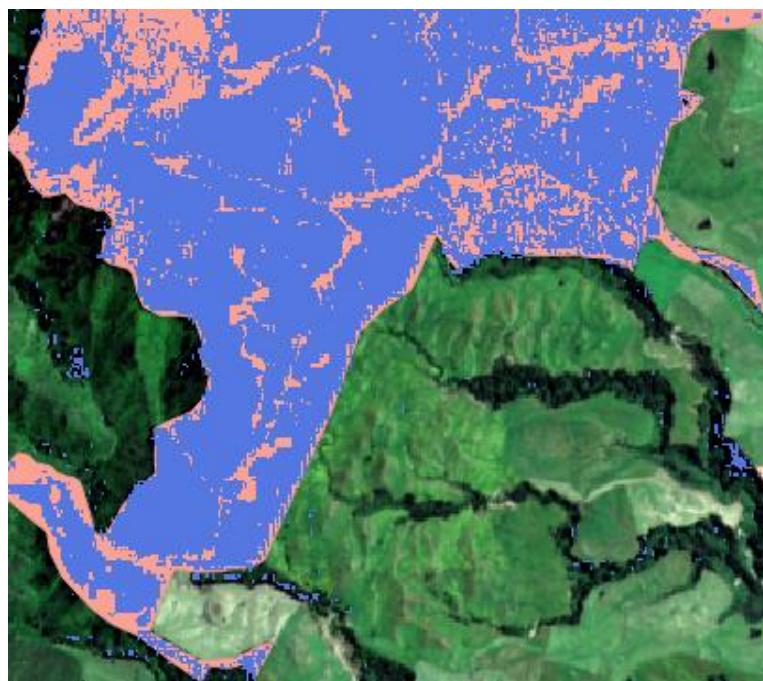


Topo 150k

Task Two- Supervised Classification



ENVI

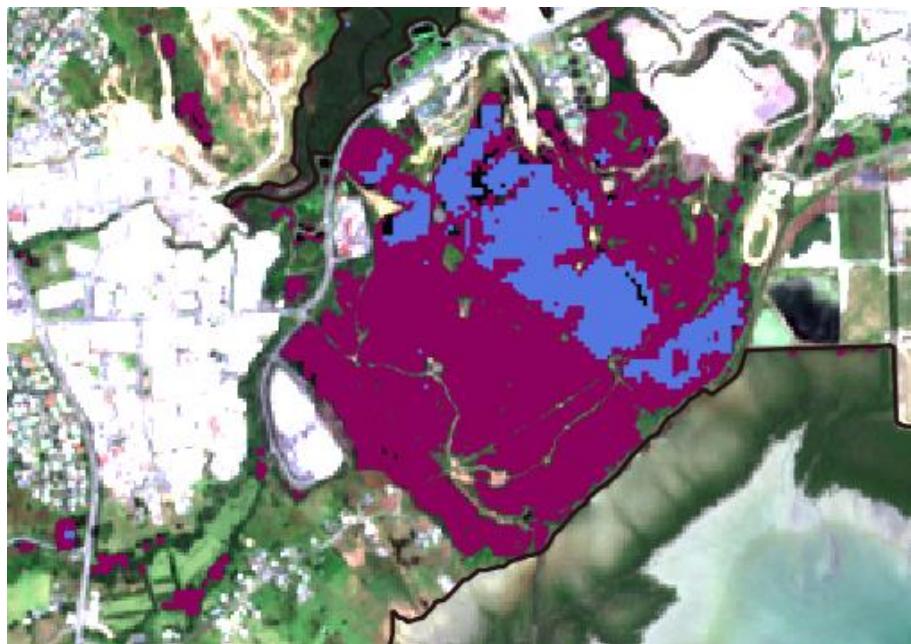


QGIS

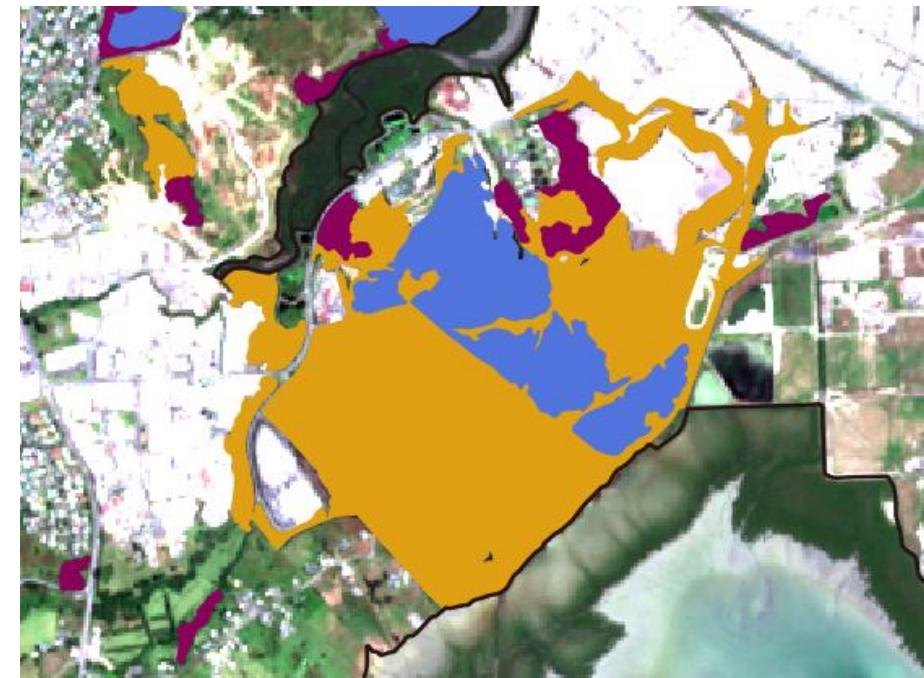


Topo 150k

Task Two- Supervised Classification



QGIS



Topo 150k

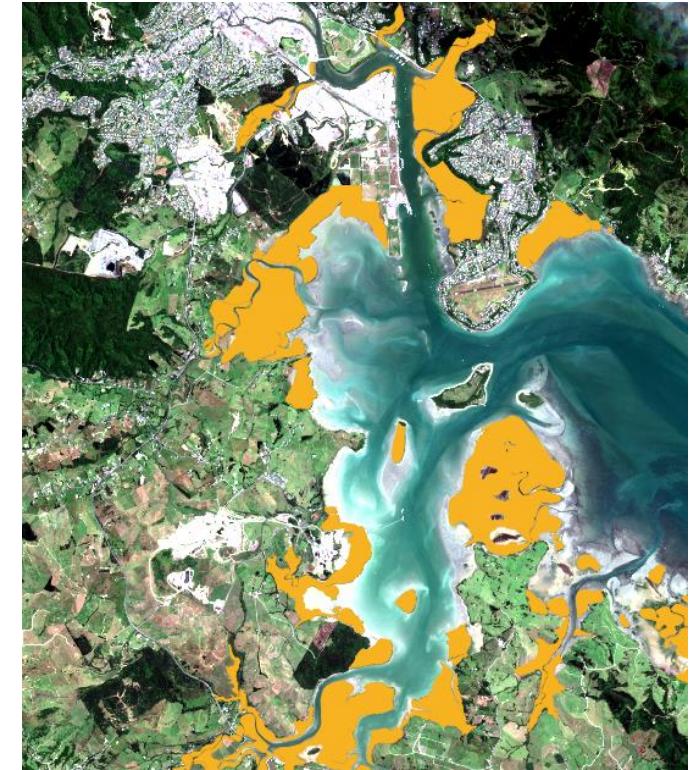
Task Two- Supervised Classification



ENVI

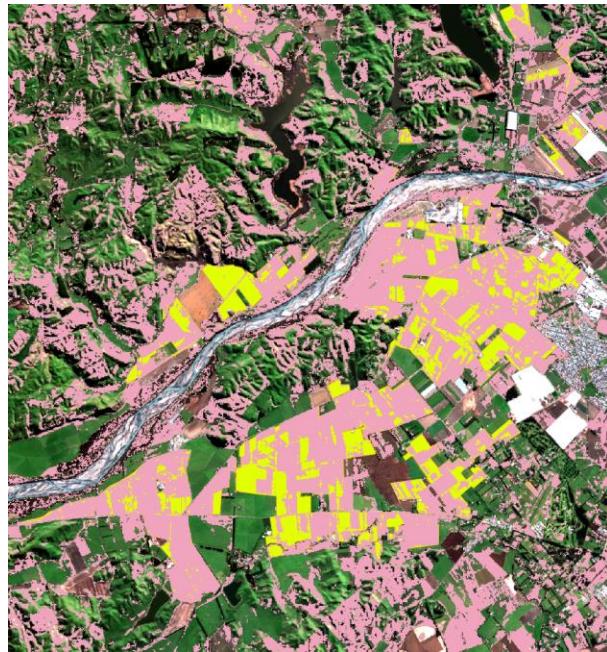


QGIS

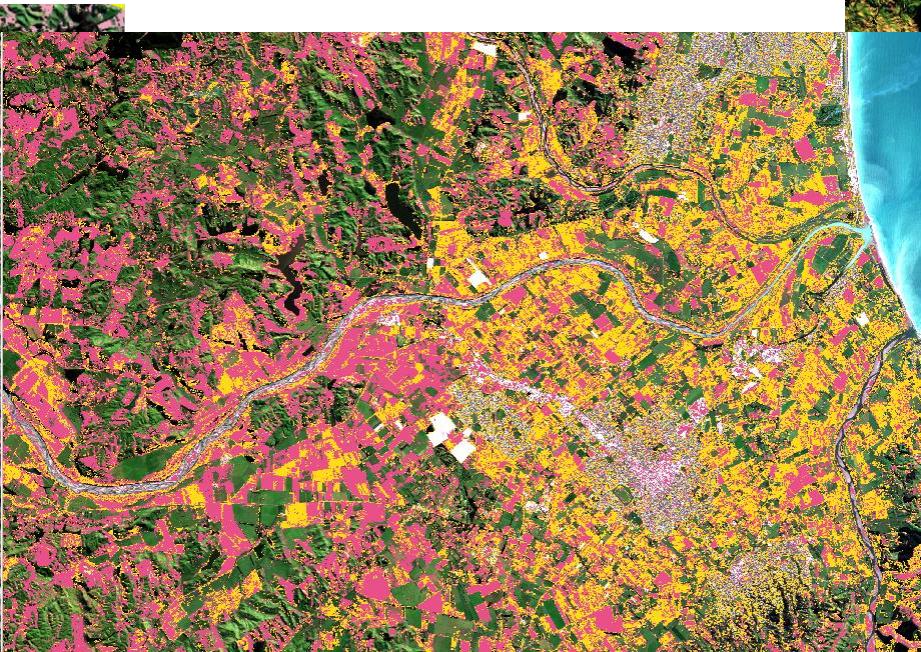


Topo 150k

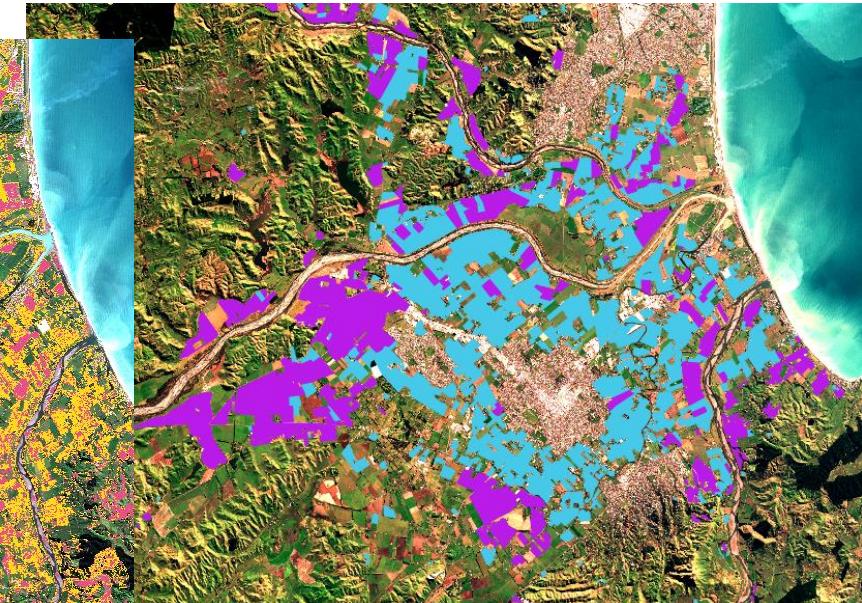
Task Two- Supervised Classification



ENVI

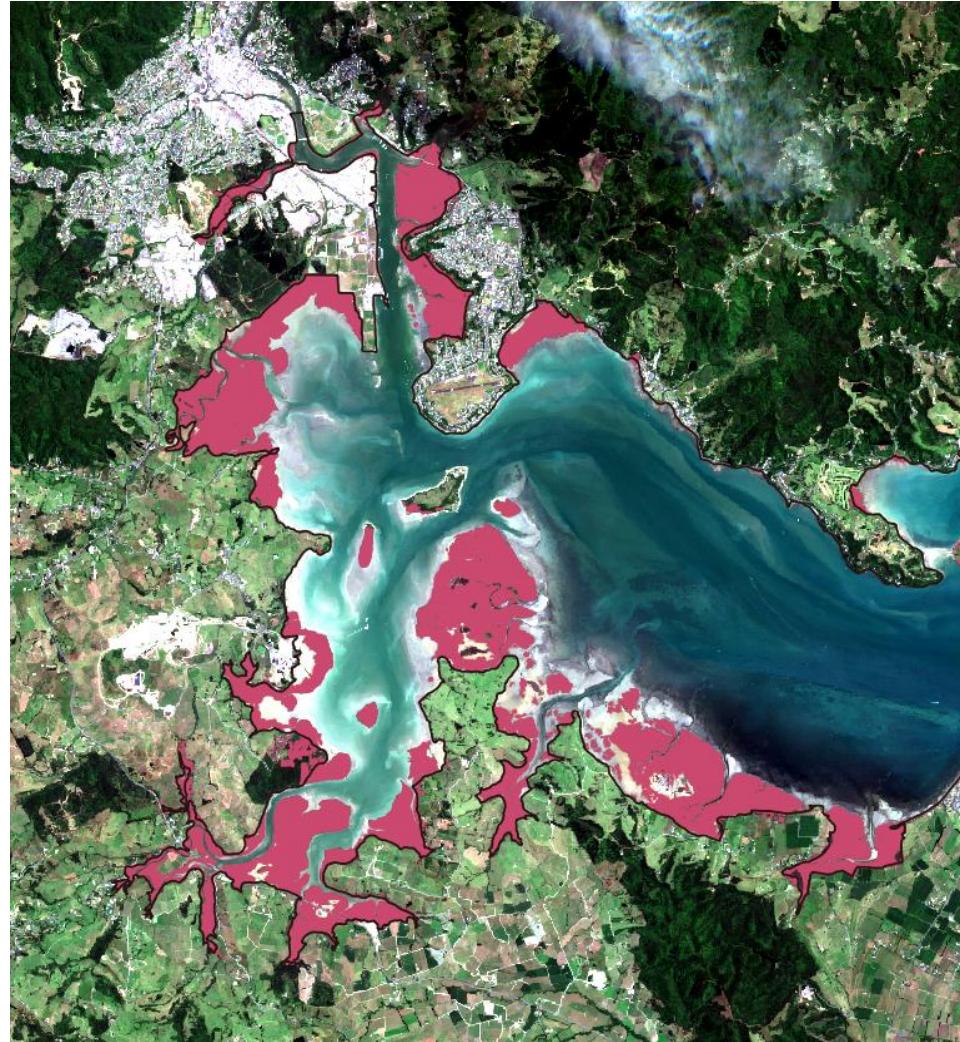
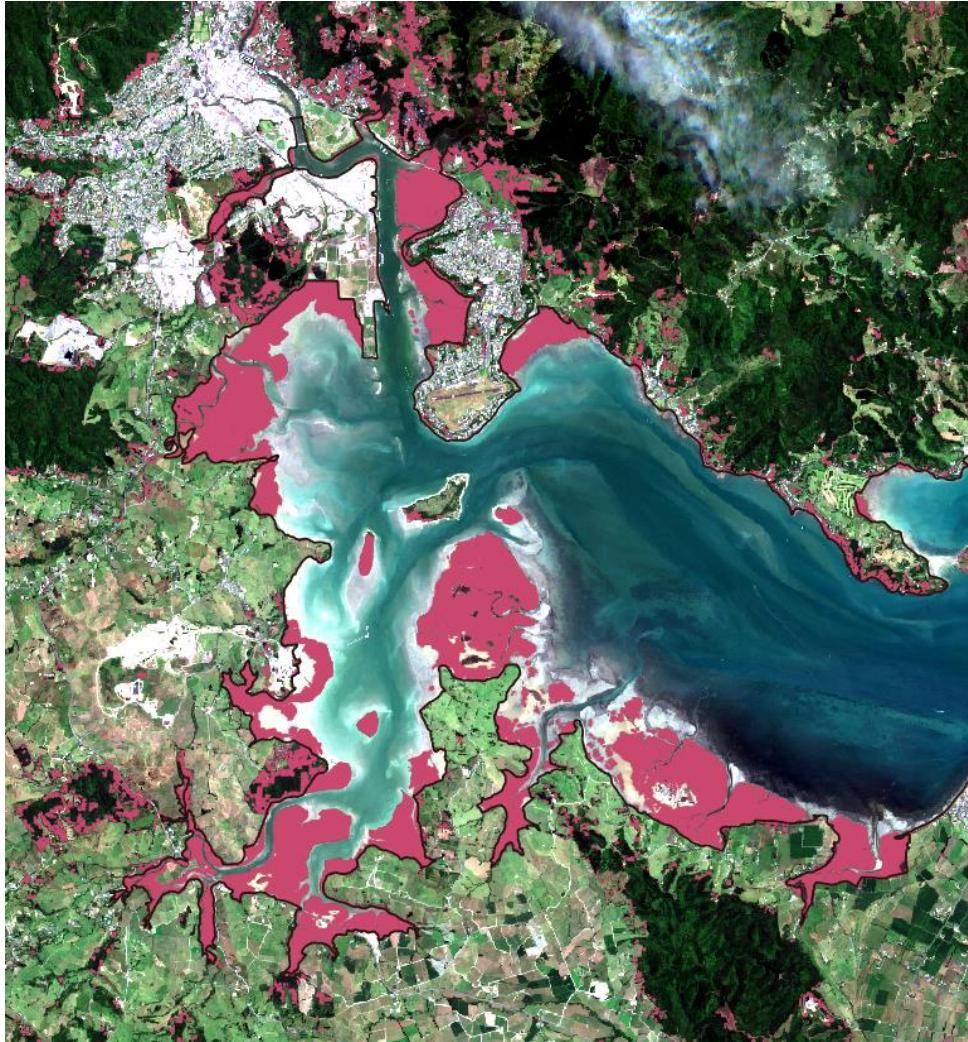


QGIS



Topo 150k

Task Two- Supervised Classification



Task Two- Supervised Classification

