

NERC-ARF Owl Processing Practical

Task:

To process a typical NERC-ARF Owl flightline from Level 1 (radiometrically corrected, unmapped) to Level 3 (mapped) for selected bands/area and view the result. Then compare this with the corresponding Fenix line, processed in the same way.

Please complete the NERC-ARF Hyperspectral Processing Practical before starting this practical, as you will need to use the commands learned in that practical. Commands will not be given in this practical, but if you get really stuck the required commands are in the batch script:

```
run_all_apl_commands_owl.sh
```

Hints:

- Data are in folders identical to the Hyperspectral Practical. Files starting with an 'f' are Fenix and 'o' are Owl.
- This data is collected in the UK, so will require the OSTN02_NTv2.gsb projection file.
- This line was flown at 3000 ft, so a pixel size of 1 is ideal.
- The Owl has 102 bands, with the best signal in the central region. We use bands 76 52 31, but feel free to pick different ones to look at.
- You can identify a subset region using Tuiview's query tool (looks like a +) on the mapped data. Pick an interesting region or use: 421100 424500 218800 219500.
- Don't forget to use the right FOV vectors for each sensor. This determines which pixel is pointing where, so you could get mapping errors if you use the wrong one.
- Keep your naming conventions consistent. We used UTM in the Hyperspectral Practical, so names were appended with UTM. Use osng for this dataset.