

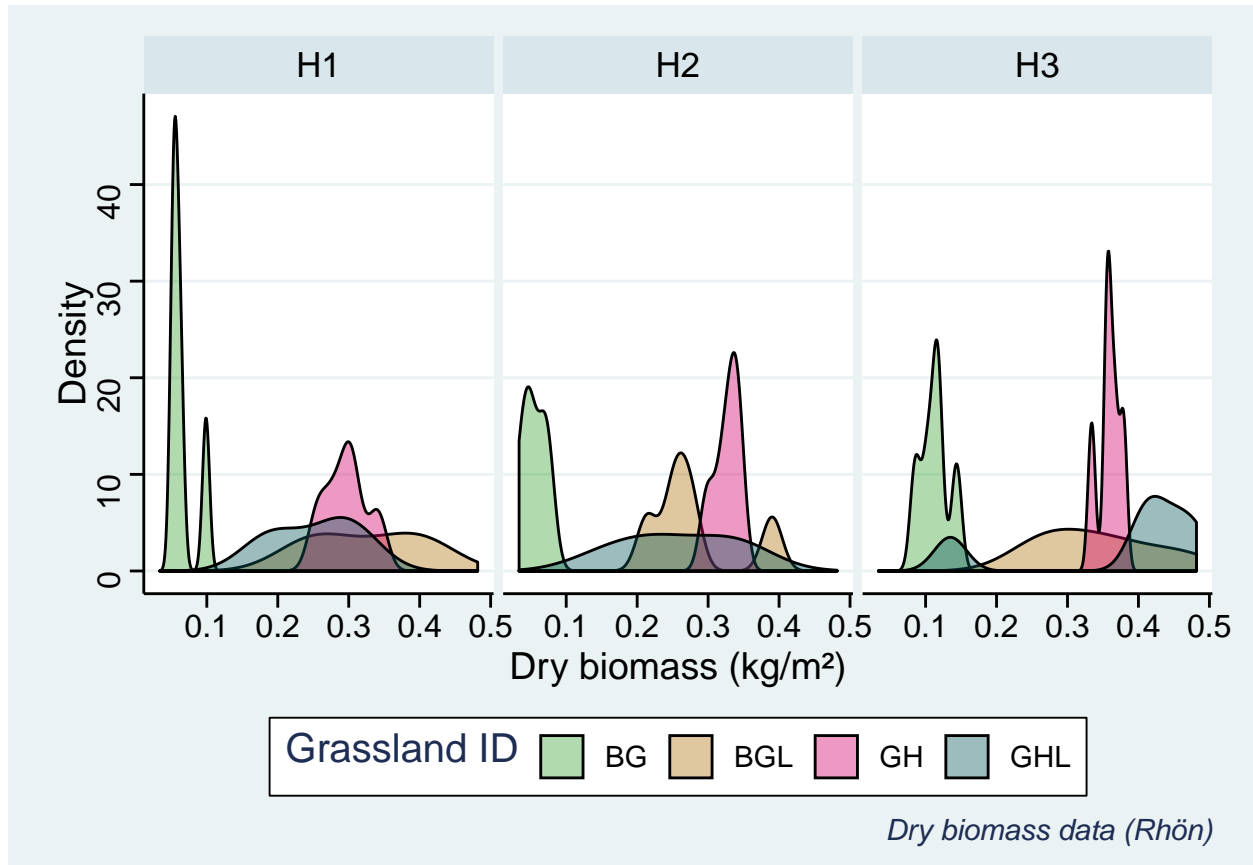
Summary of the data - Rhön

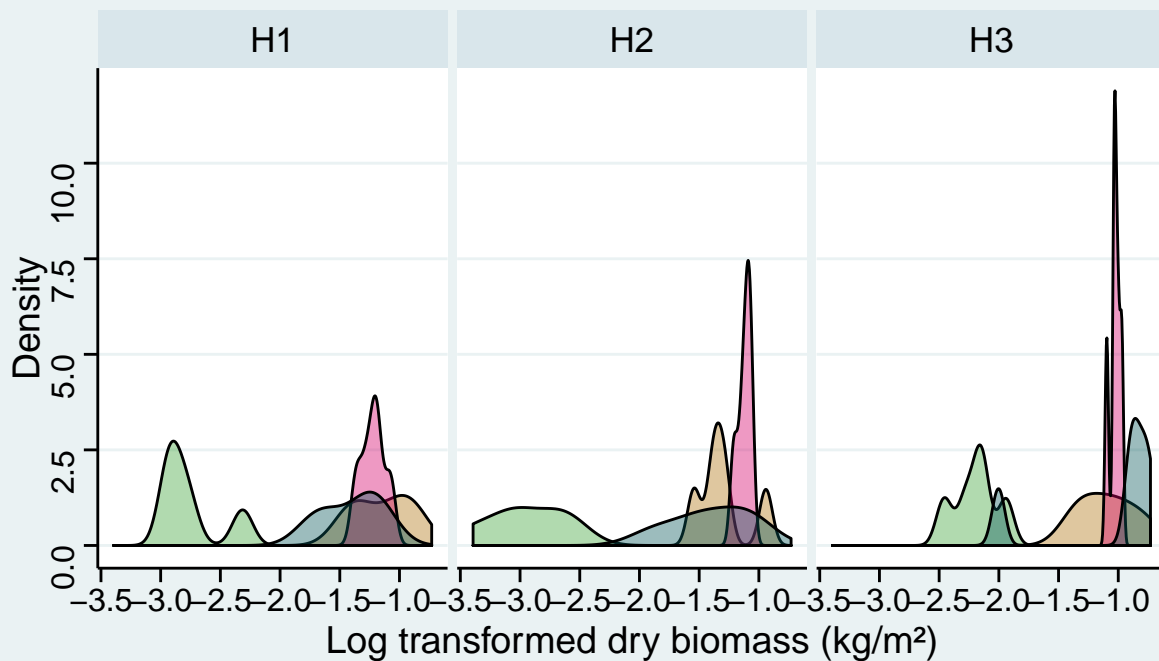
Jayan Wijesingha

14 February 2019

1 Reading and visualise trait data

1.1 Biomass data

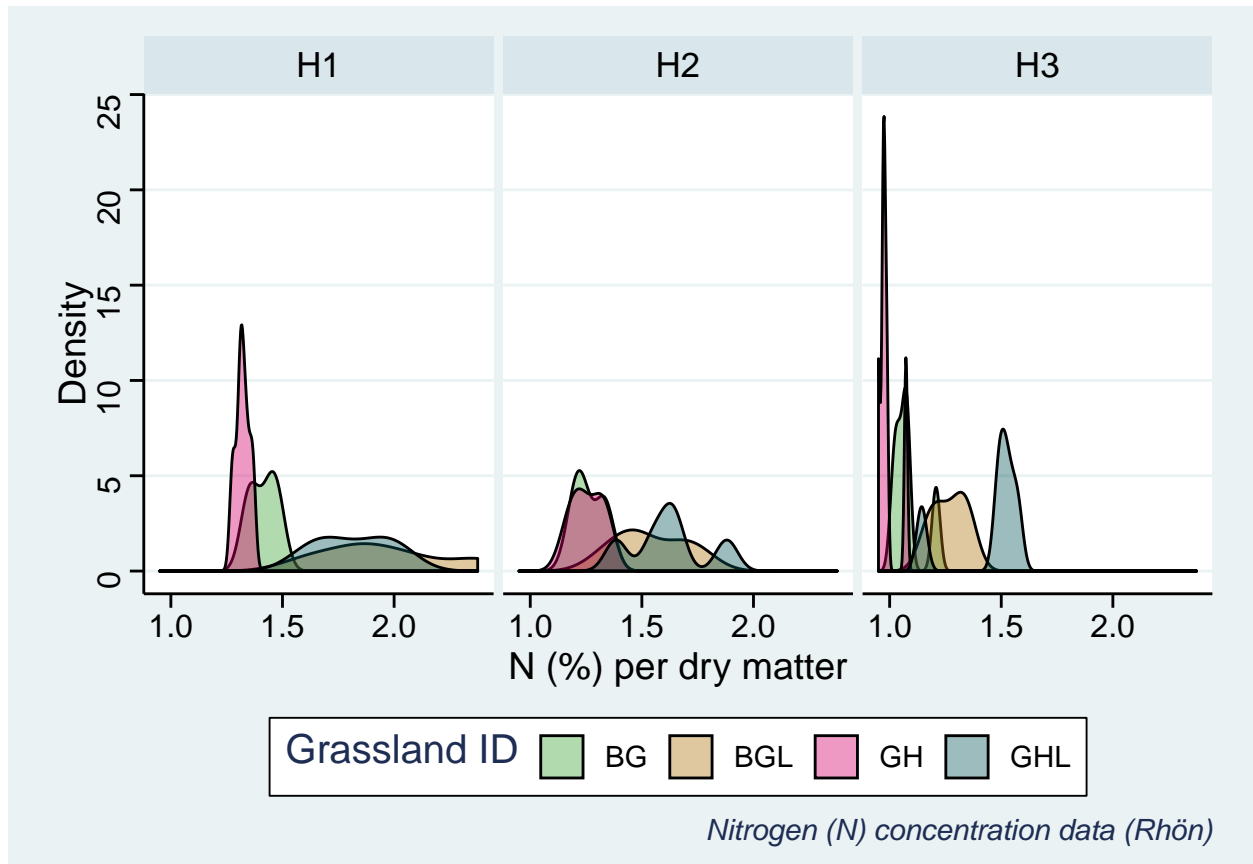


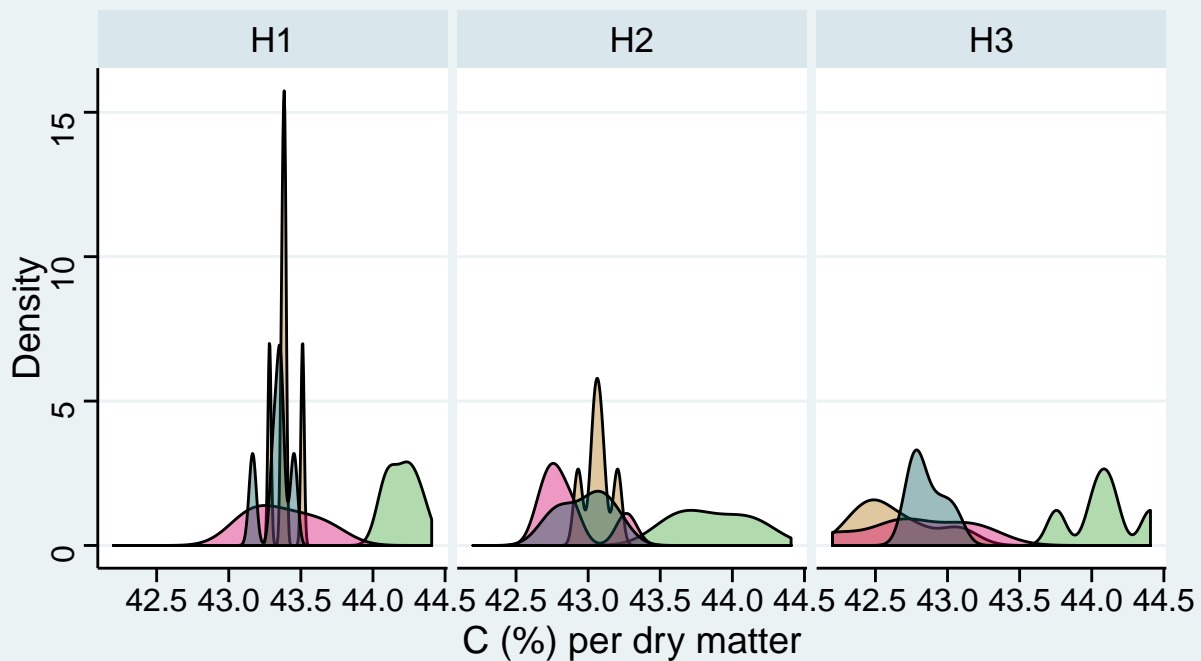


Grassland ID BG BGL GH GHL

Log transformed dry biomass data (Rhön)

1.2 Nitrogen (N) and Carbon (C) data

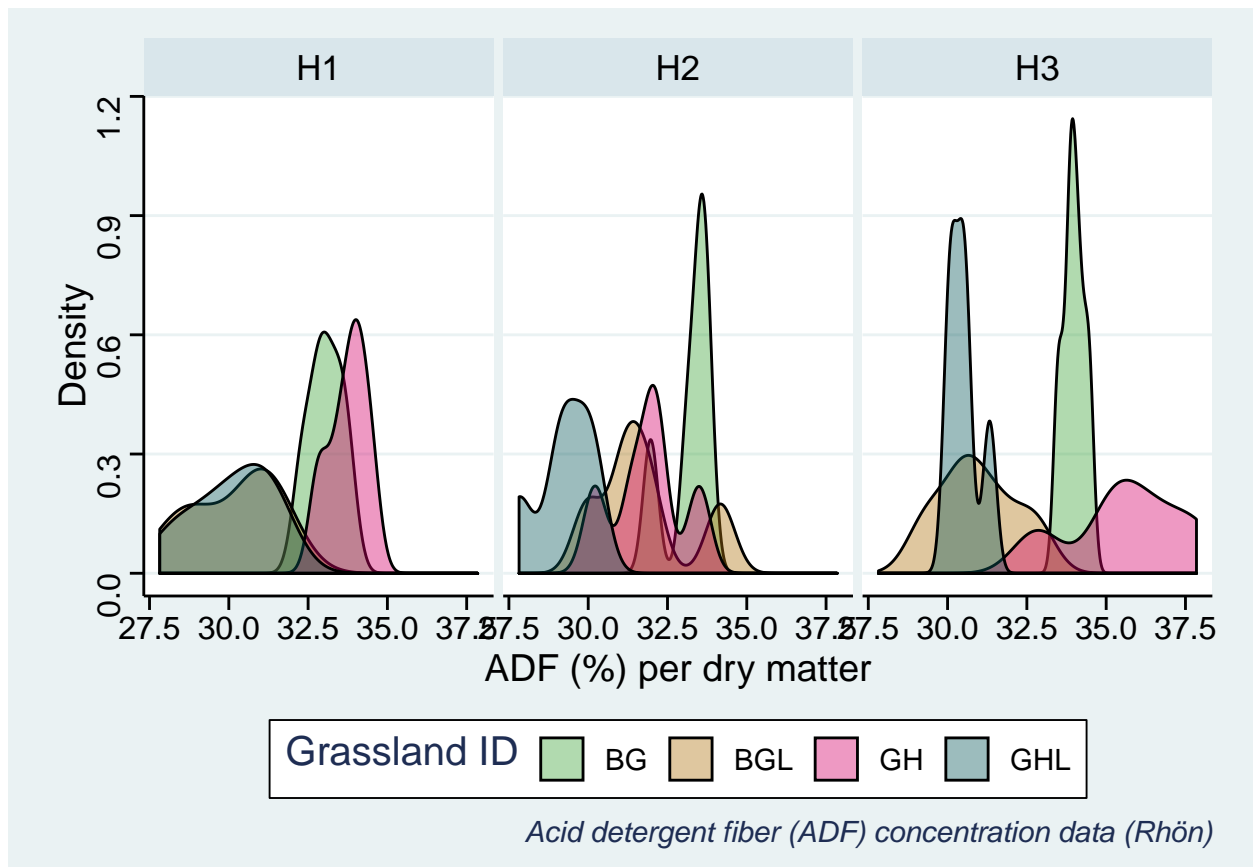




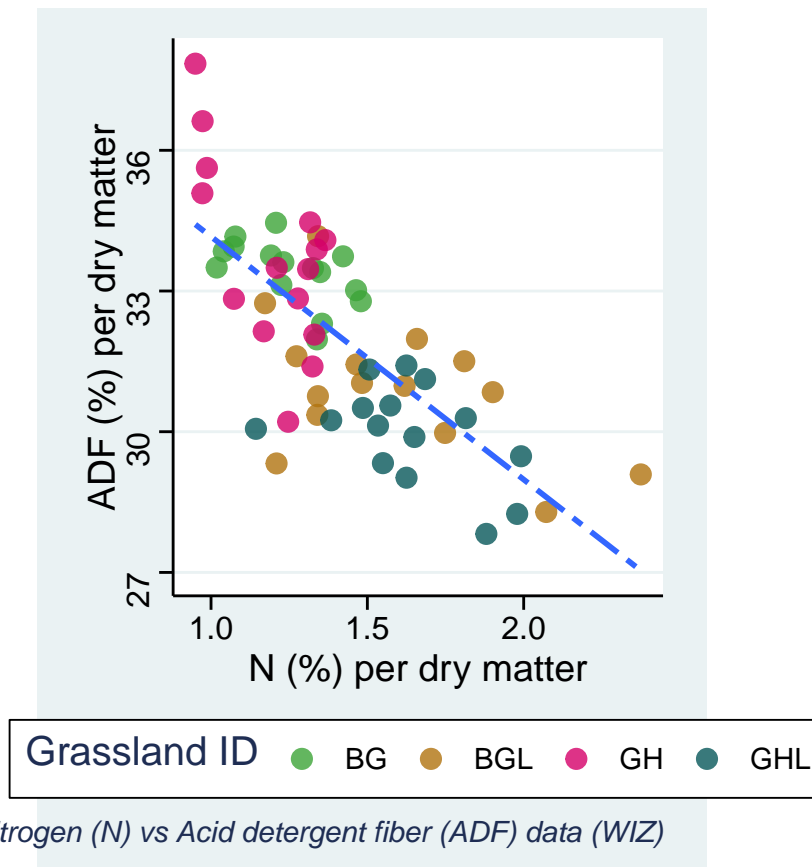
Grassland ID BG BGL GH GHL

Carbon (C) concentration data (Rhön)

1.3 ADF data



1.4 ADF data



2 Hyperspectral data

Summary of Speclib

Summary of spectra

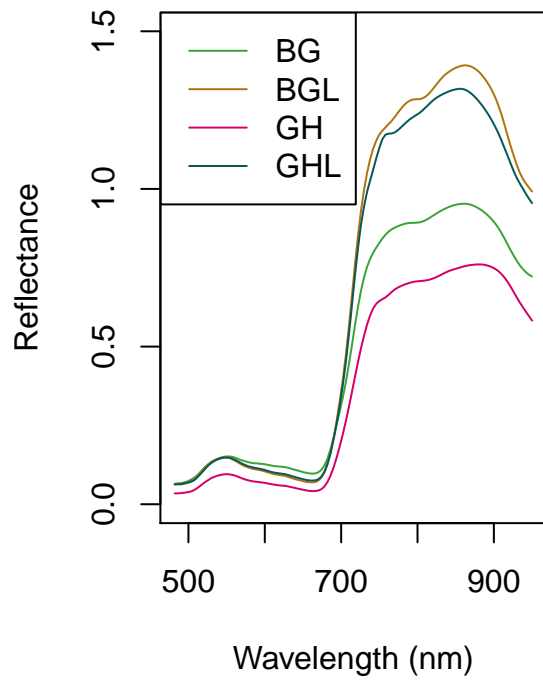
Total number of spectra : 60
Number of bands : 118
Width of bands : 4
Spectral range of data : 482 - 950 nm

Speclib contains SI

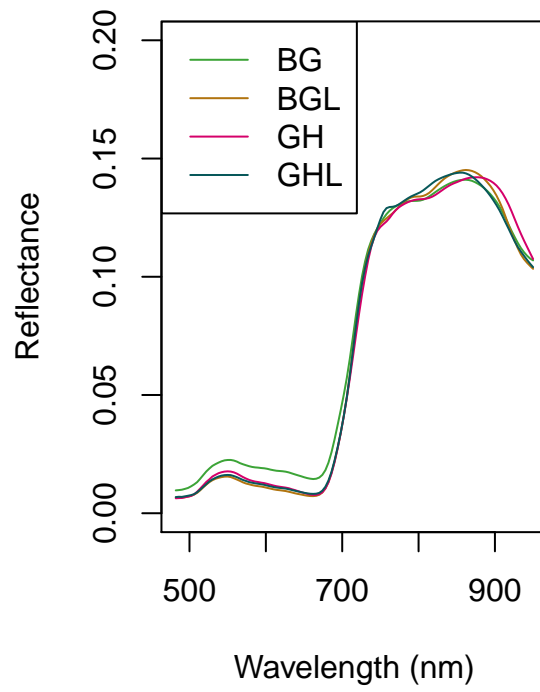
Variables Classes
1 field_id factor
2 fp_id character
3 harvest factor
4 PAN numeric
5 lab_no integer
6 fb numeric

7	fb_samlpe	numeric
8	db_sample	numeric
9	db_p	numeric
10	db	numeric
11	logdb	numeric
12	n	numeric
13	c	numeric
14	cn_ratio	numeric
15	adf	numeric

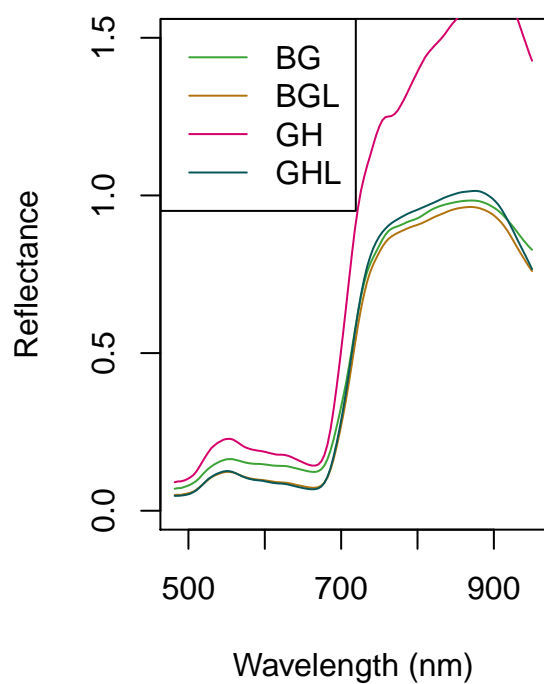
Original Reflectance – H1



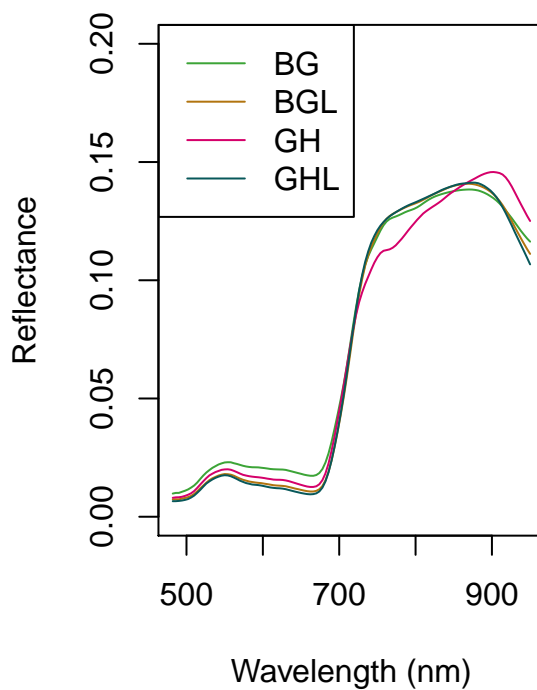
Normalised Reflectance – H1



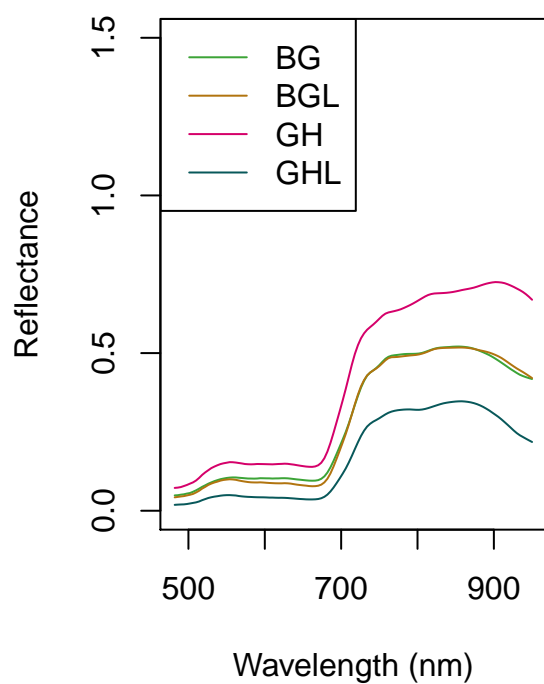
Original Reflectance – H2



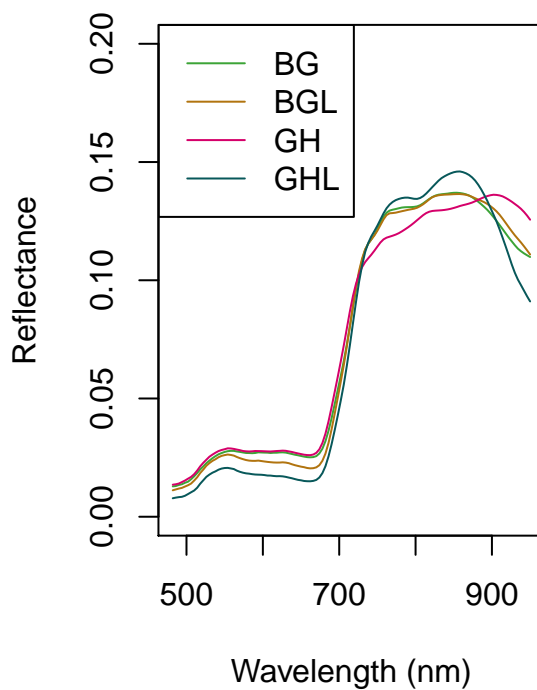
Normalised Reflectance – H2



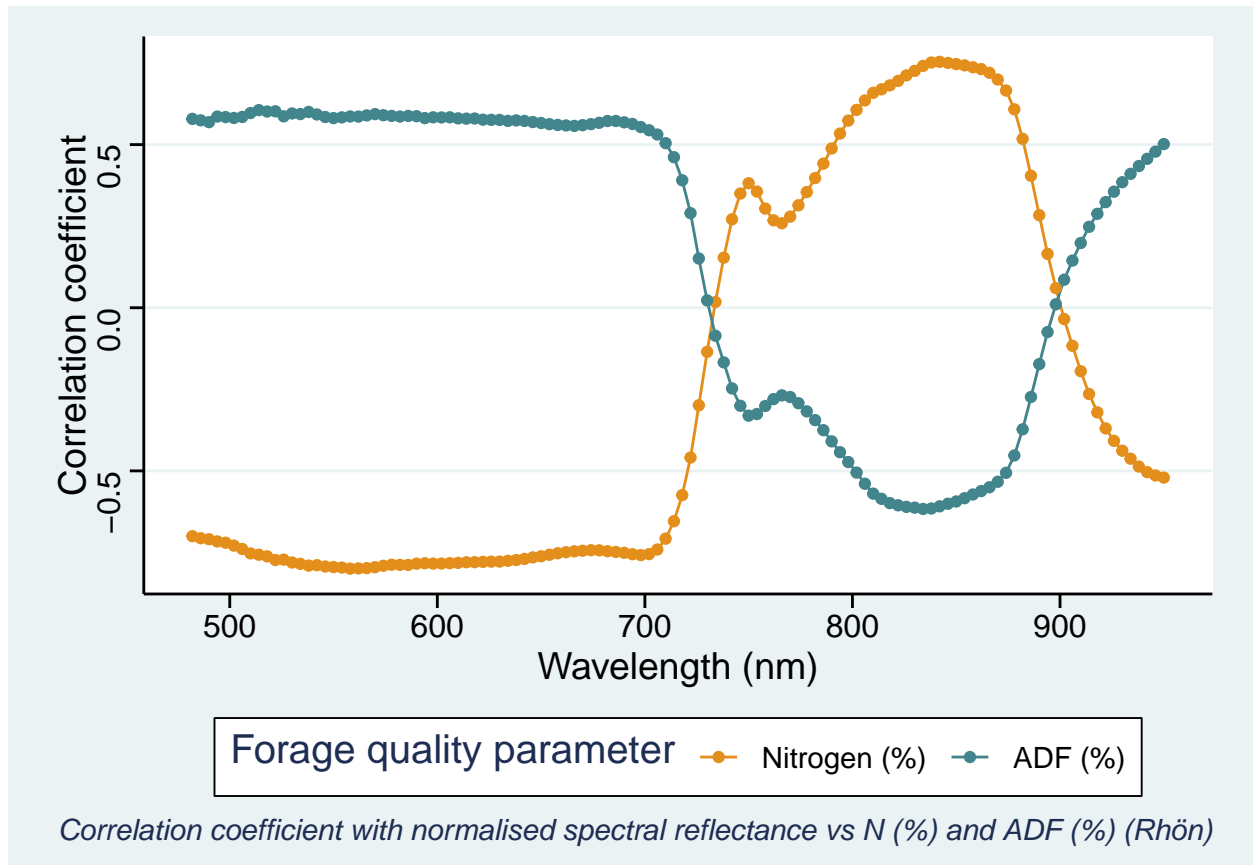
Original Reflectance – H3



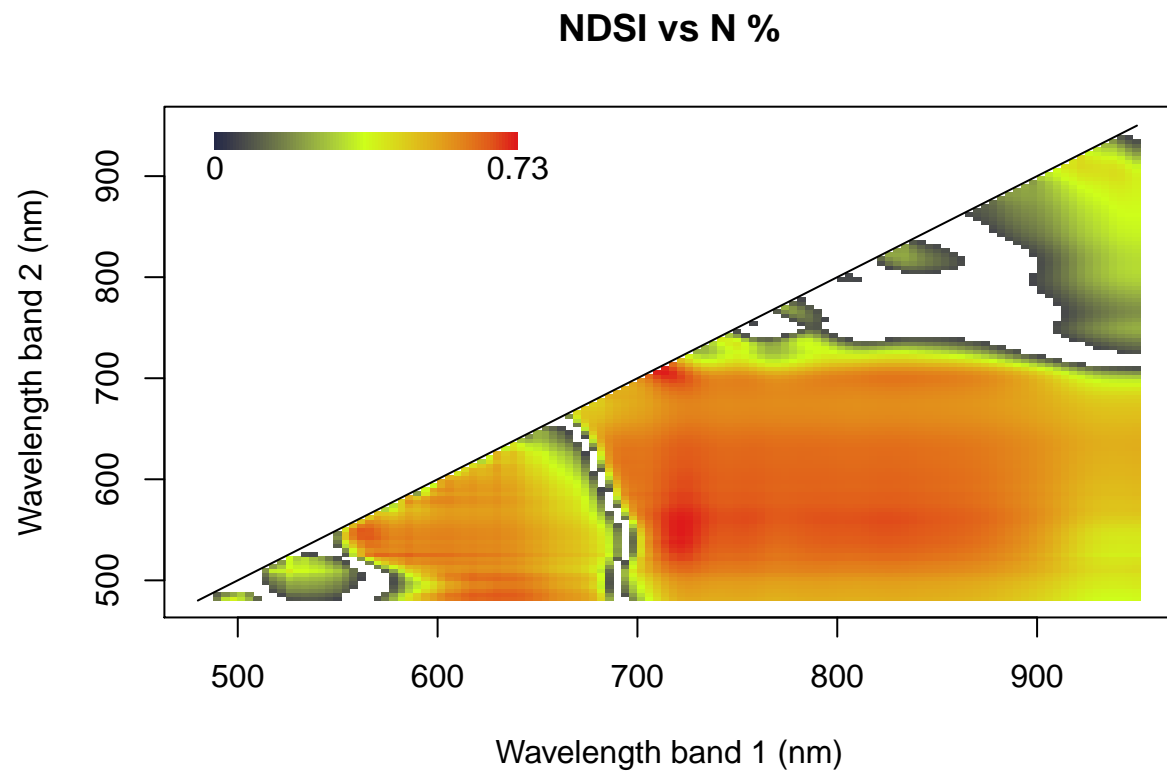
Normalised Reflectance – H3



3 Correlation with single bands



4 Linear regression models with normalised difference spectral indices (NDSI)



NDSI vs ADF %

