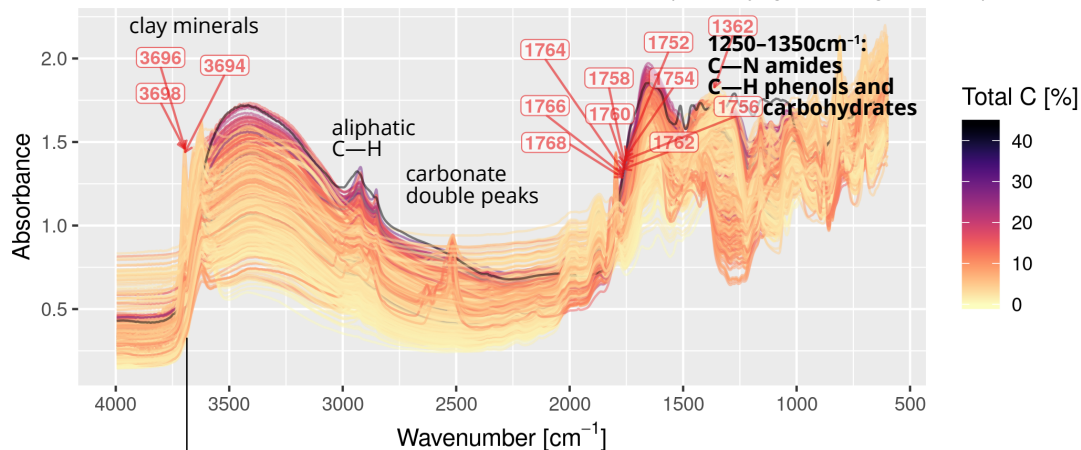


Red annotations: important predictive variables for total C (Cubist rules)

ca. 1750 cm^{-1} :
C=O (carboxyl group; edge feature)



Cross-validated results for Cubist models (all data)

$R^2 > 0.8$: total carbon (C), nitrogen; organic carbon (C); calcium (AAE10); clay; pH

$R^2 = 0.5-0.8$: sand; silt; carbonates; magnesium (AAE10)

$R^2 < 0.1$: copper (AAE10); zink (AAE10); potassium (AAE10); phosphorus (AAE10)

AAE10: extraction with ammonium acetate (AA) and ethylenediaminetetraacetic acid (EDTA)

