

Image Interpretation & Analysis

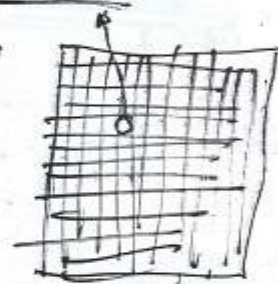
Data Interpretation \rightarrow Information
Analysis

1. Analog :

- 1) Picture \rightarrow hard copy
- 2) Manual interpretation

2. Digital Image \rightarrow ^{Grey-value, Grey-level} $DN(I, X, Y)$

- 1) Digital files \rightarrow soft copy
- 2) Computer processing



3. Visual Elements :
(Keys)

4. Land Cover vs. Land Use
surface materials vs. human usages

Remote Sensing \rightarrow R.S. + Others
(optical: Spectral Signatures)
SAR: Backscattering Coefficients



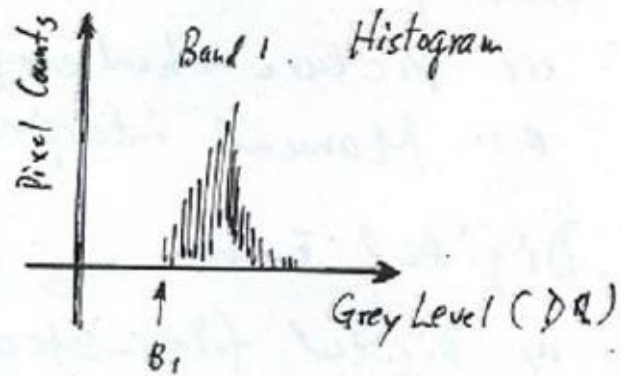
4.4.1 Radiometric Correction

≠ Atmospheric Correction

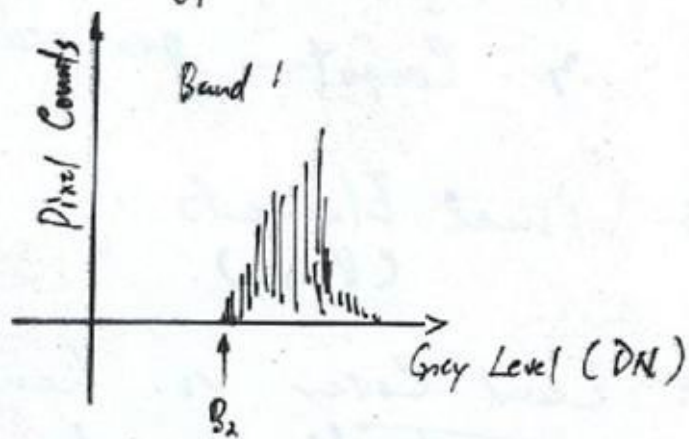


Dark Object

Date 1



Date 2



$$\Delta = B_2 - B_1 \text{ (Band Dependence)}$$

For Change Detection

Date 2 \rightarrow Date 1

$$DN'(2) = DN(2) - \Delta$$



4.4.3