

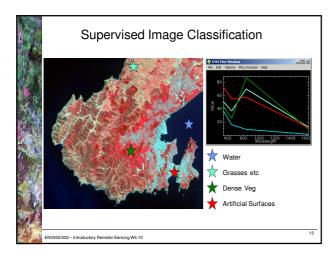
The Basis of Image Classification

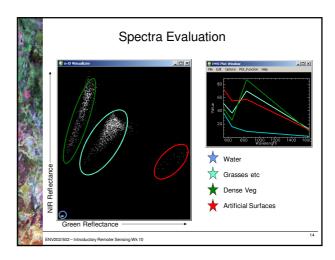
Classification

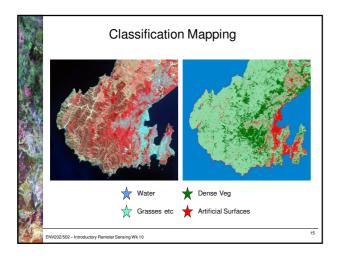
- Assigning each image pixel to a category based on (spectral) statistical pattern recognition techniques
- i.e., pixels within the same cover type have similar magnitude DN's
- Goal of image classification

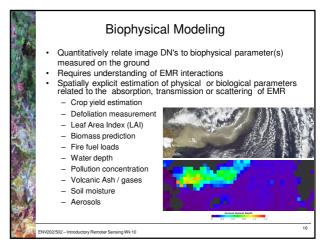
 To produce a thematic map of surface cover types (e.g. land cover, vegetation type, soil type) by grouping image pixels with similar reflectance characteristics using statistical decision rules.

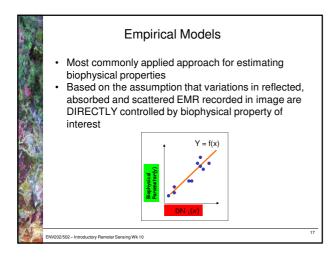
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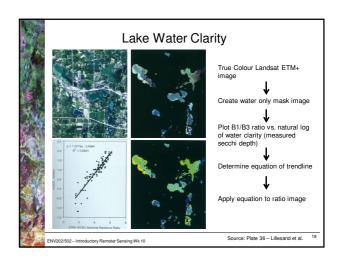


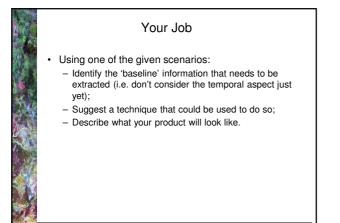




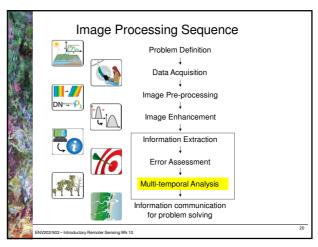


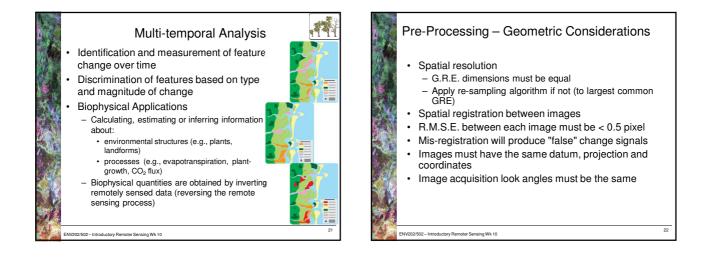


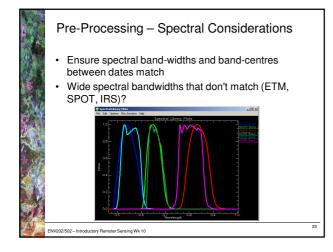


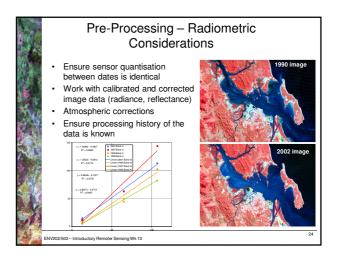


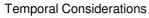
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Solar geometry

- Time of day & year (anniversary date) i.e. Diurnal and seasonal sun angle effects? Fully calibrated and corrected data to remove these effects (corrected for illumination, viewing and slope geometry)
- Atmospheric (clouds, haze, water vapour) Careful selection of anniversary date and time images to reduce amount of correction required
- Tidal, oceanic, stream conditions

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Vegetation phenology – ensure type of change is appropriate to mapping question Soil conditions - moisture, roughness



