



Elements of Visual Image Interpretation Introduction

- Photo or image interpretation
 - The examination of images for the purpose of identifying objects and judging their significance (Philipson, 1997; McGlone, 2004)
- Important reasons why photo or image interpretation is such a powerful scientific tool
 - the aerial/regional perspective
 - three-dimensional depth perception
 - the ability to obtain knowledge beyond our human visual perception
 - the ability to obtain a historical image record to document change



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x, y Location

- survey it in the field using traditional surveying techniques or global positioning system (GPS) instruments
- collect remote sensing data of the object, register (rectify) the image to a basemap, and then extract the x, y coordinate information directly from the rectified image



- Tone and Color
 - tone: shades of grey



• Size – Length, Width, Perimeter, and Area



• Shape



Texture

- the characteristic placement and arrangement of repetition of tone or color in an image



- Pattern
 - spatial arrangement of objects in the landscape



Shadow

– Most remote sensor data is collected within ± 2 hours of solar noon to avoid extensive shadows in the imagery.



Height and Depth



- Site, Situation, and Association
 - important factors to identify an object or activity



Elements of Visual Image Interpretation Methods of Search

- Using Collateral Information
- Convergence of Evidence
- The Multi-concept