



Aerial Photography – Vantage point, Cameras, Filters, and Film

Most citations fcome from the main textbook: Jensen, J.R., 2007, Remote Sensing of the Environment: an Earth resource perspective, 2nd ed., Prentice Hall, 592p



Vertical and Oblique Vantage Points

- A vertical photograph is obtained when the camera's optical axis is within ± 3 degree of being vertical (perpendicular) to the Earth's level surface



Aerial Photography

Vertical and Oblique Vantage Points

- vertical aerial photograph



Aerial Photography

Vertical and Oblique Vantage Points

- low oblique aerial photograph
 - horizon is not visible



Aerial Photography

Vertical and Oblique Vantage Points

- high oblique aerial photograph
 - horizon is visible



Aerial Photography

Vertical and Oblique Vantage Points

- low oblique aerial photograph



Aerial Photography

Aerial Photography Films

- B&W panchromatic vs. infrared



Aerial Photography

Aerial Photography Films

- B&W negative



Aerial Photography

Aerial Photography Films

- positive B&W print



Aerial Photography Aerial Photography Films

- Characteristic curves of two hypothetical B&W films



Aerial Photography

Aerial Photography Films

- schematic of a flatbed microdensitometer



Aerial Photography

Aerial Photography Films

- CCDs (charge coupled devices)



Aerial Photography

Aerial Photography Films

- Spectral Sensitivity