

Image Space Coordinates

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Geog 493/593
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Figure 9: Pixel Coordinates vs. Image Coordinates

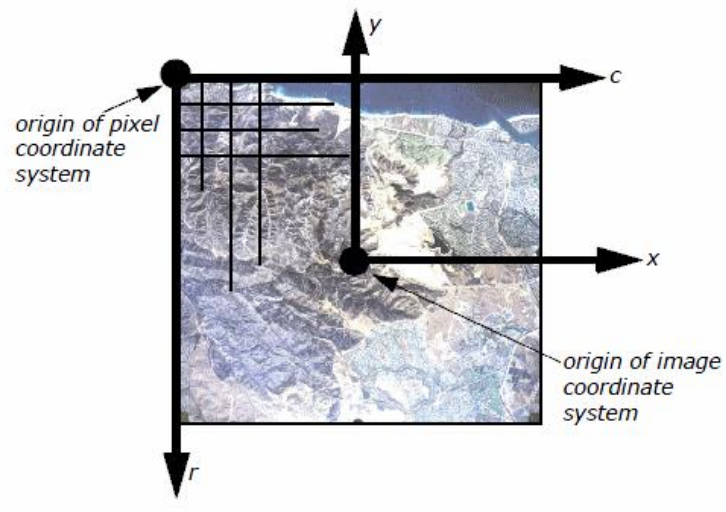
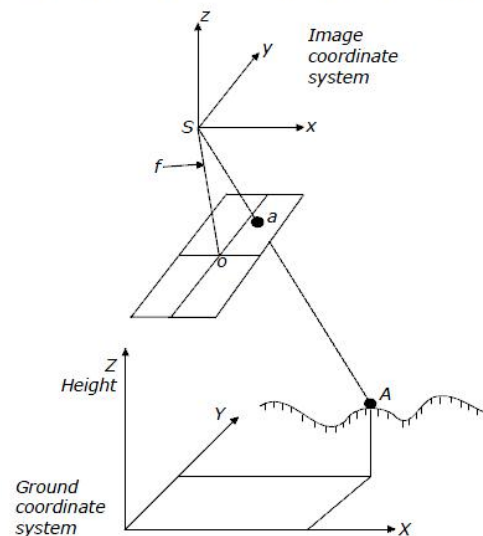
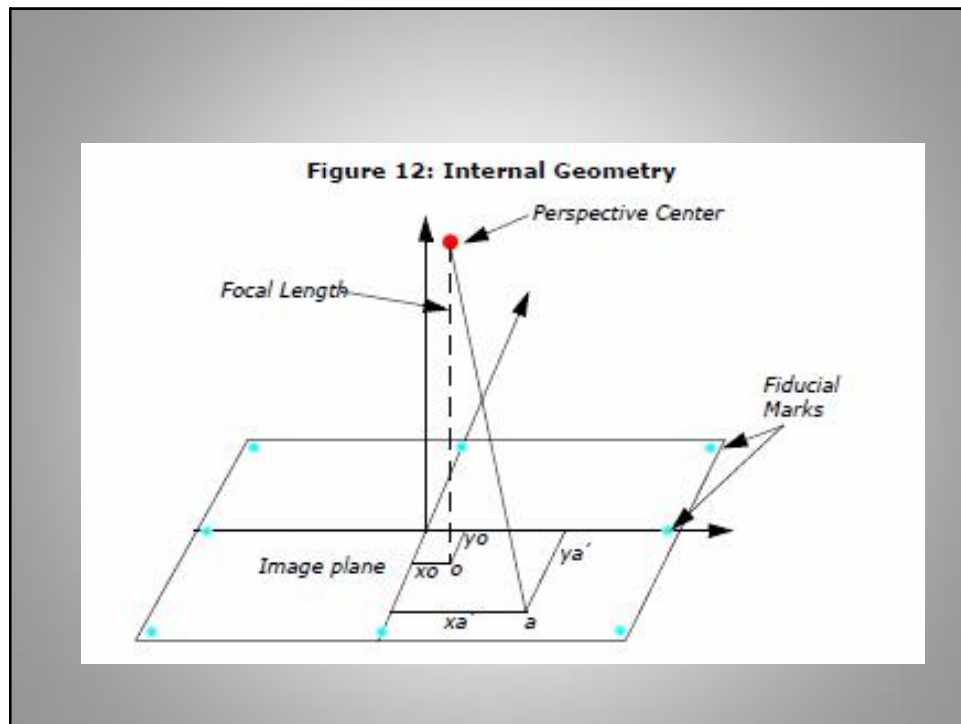


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- Identical to an image coordinate system, with the addition of...
- the Z axis, representing elevation, is measured from the perspective center...
- which is calculated using Interior Orientation
 - Principal Point
 - Perspective Center
 - Focal Length
 - Fiducial Marks

Figure 10: Image Space and Ground Space Coordinate System





Questions

- What is the origin point of an Image Space Coordinate system?
- What is the Perspective Center?
- What is Interior Orientation used for?
- Draw the x,y,z axis of an image coordinate system relative to an aerial photo. Label the axes and the Perspective Center.

– Source: LPS Project Manager. 2008. ERDAS, Inc. Pg 25-37