

## Image Coordinate System

- One of three reference coordinate systems in digital images.
  - *Pixel coordinate system*
  - *Ground coordinate system*
- 2-Dimensional coordinate system originating from the principle point or the intersection of the fiducial marks.

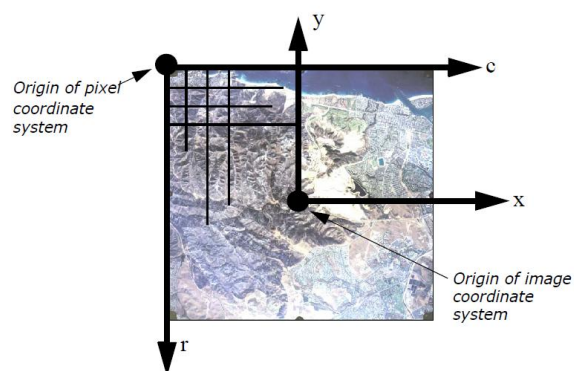


Figure 1: Example of aerial photography coordinate systems

## Image Coordinate System

- Image coordinates reference locations on the film plane.
- Usually displayed in units of mm or  $\mu\text{m}$  (microns).
- Remember: image coordinates are NOT the same as pixel coordinates.

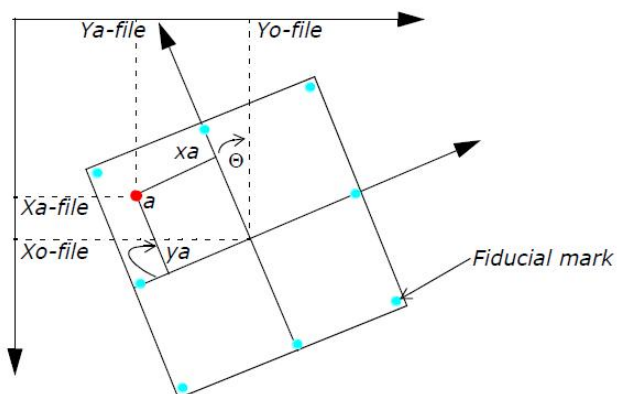


Figure 2: Example of transforming pixel coordinates to image coordinates using Affine Transformation