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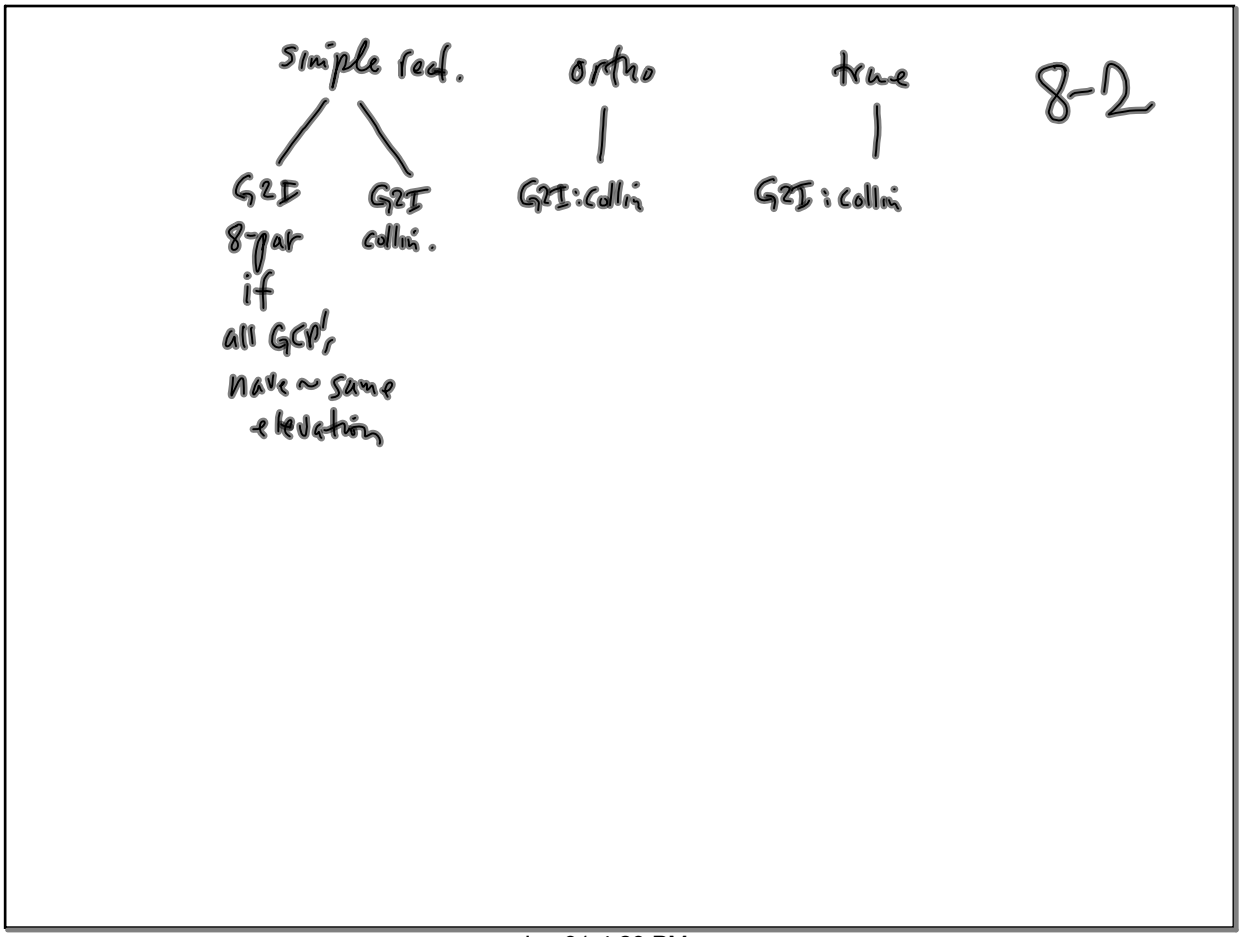

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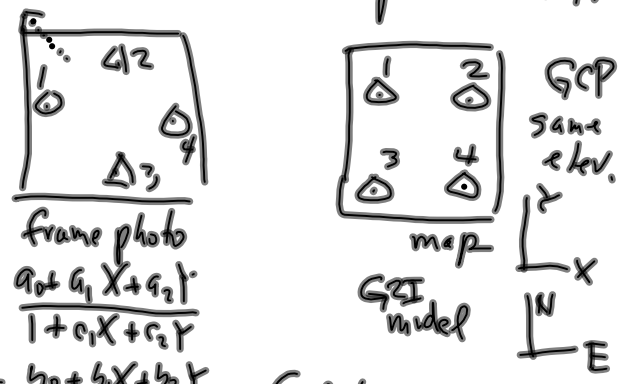
rectification : 8-parameter transf. 83



$$x = \frac{a_0 + a_1 X + a_2 Y}{1 + c_1 X + c_2 Y}$$

$$y = \frac{b_0 + b_1 X + b_2 Y}{1 + c_1 X + c_2 Y}$$

(Neglecting lens dist)

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flowchart for rectification 84

1. using GCP establish + est. GCI proj. model 8 parameters OR collinearity
2. specify extent (object space) $X_{min}, X_{max}, Y_{min}, Y_{max}$
3. GSD = ground sample distance dX, dY usually $dX = dY$
4. initialize output image with default intensity and with req. number of rows + columns.
5. cycle through all pixels in output image
6. for each one compute $XY(Z)$ + project into source (input) image
7. interpolate intensity, store in output image
8. when done, write output image to file.

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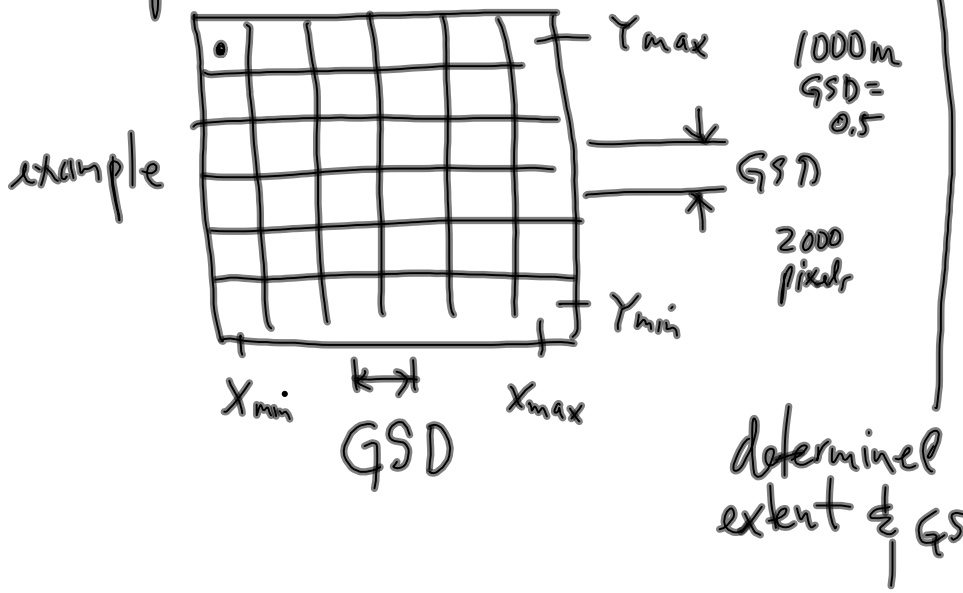
initialize output image with default intensity and req. number of rows & columns.

8-5



determined by extent & GSD

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