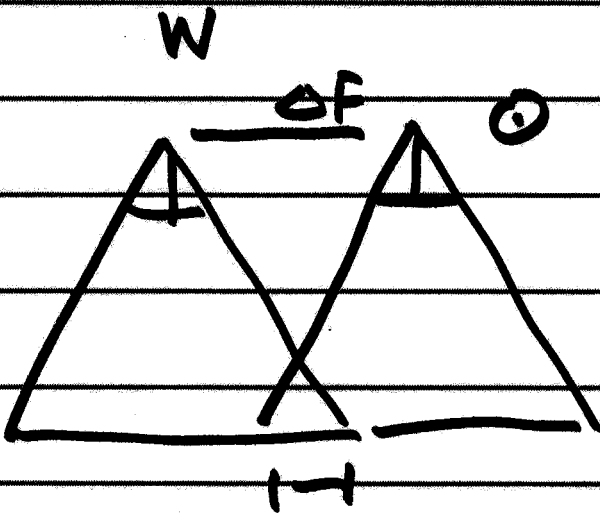


$$B = W(1 - R_F)$$

given R : overlap fraction
 $R = 0.6, 60\%$

R_F : forward overlap fr.



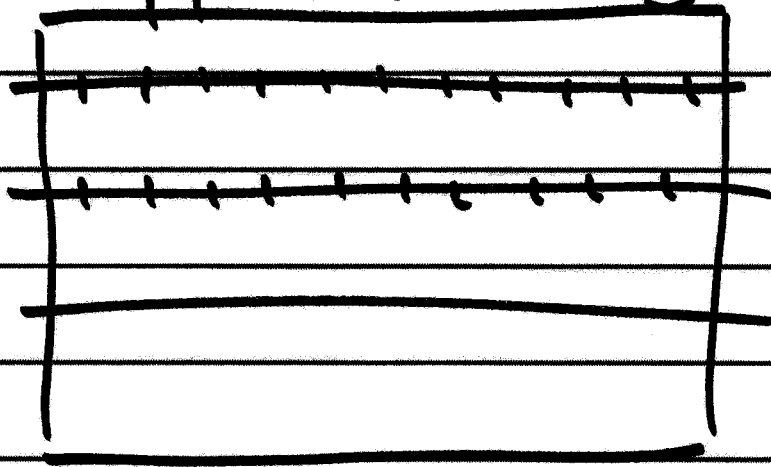
$$\Delta F = W(1 - R_S)$$

R_S : side overlap fraction

$R_S \approx 25\%, 30\%$

0.25, 0.3

B = width Length



height

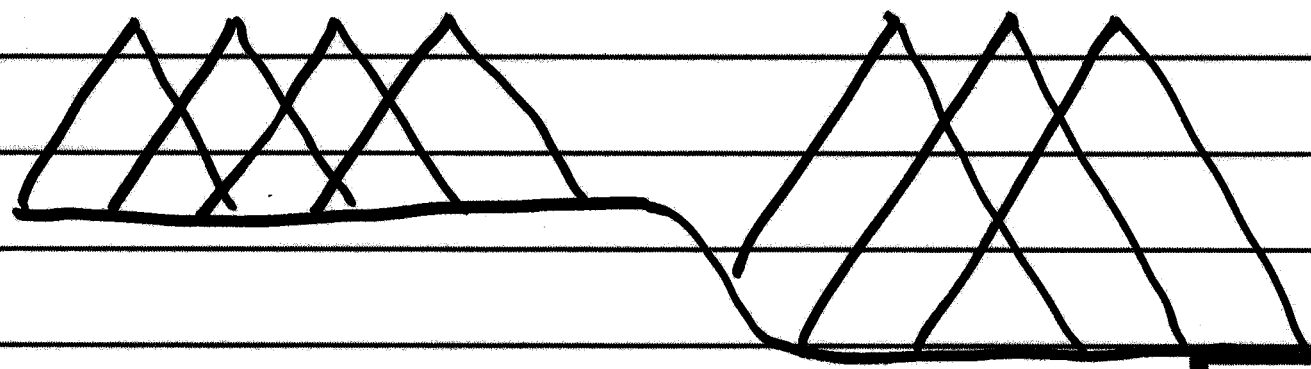
width

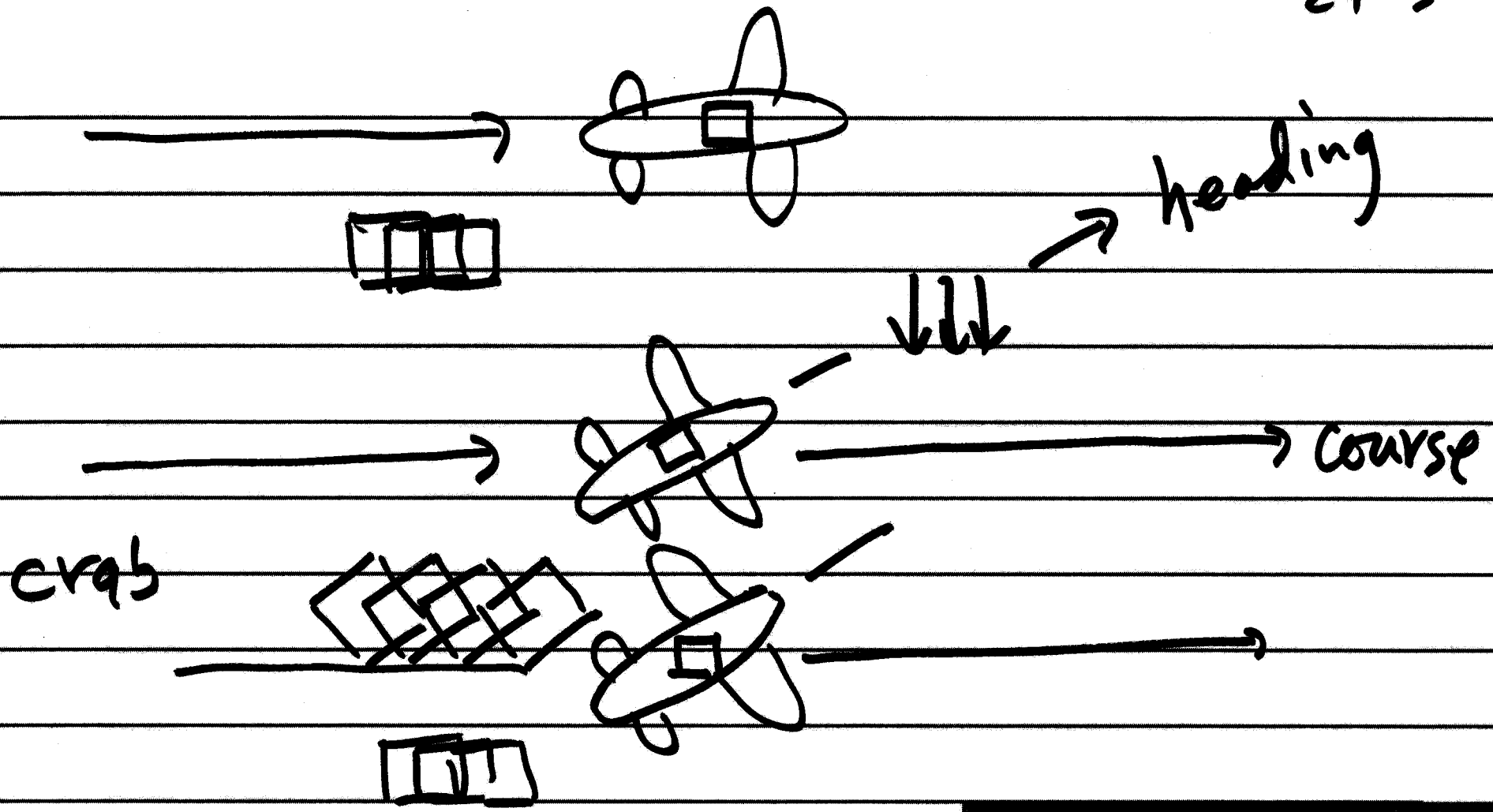
exposures/line =

$$\text{Length} / B + 1$$

flight lines =

$$\text{width} / \Delta F + 1$$





if rotate camera - must
record angle readout

Control points

if GPS in aircraft : eliminate

if no GPS in aircraft



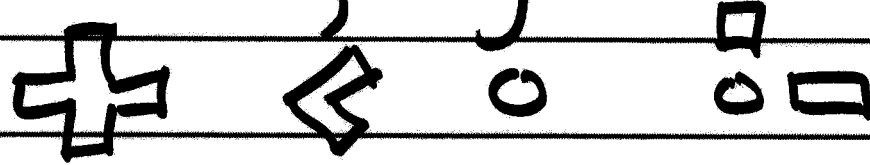
(H) Δ around perimeter, every 5 models

(V) ○ pairs of points, every 5 models along each flight

+ 8-10 pass points / model

Control points

1. Pre-mark, signalized



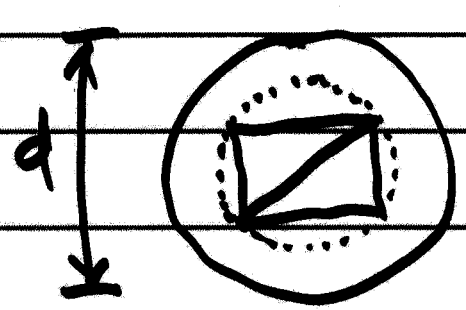
2. Photo ID

Adjustment: Cartesian Coord.
for engineering projects
 Z : ref. geoid or sea level

H : orthometric ✓
(geoid)

h : ellipsoid height ✗
tangent plane ✗

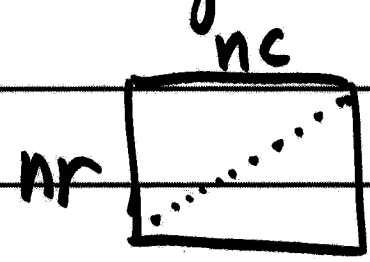
CCD size $(\frac{1}{\square})'' \quad \frac{1}{2.5}''$



vidicon tube
active area 70%

$d = \frac{1}{3}'' , \frac{1}{2}''$

diagonal of CCD = 70% of inch size



$$nd = [nc^2 + nr^2]^{\frac{1}{2}}$$

$$\frac{d}{nd} = \text{pixel size (mm, inches)}$$

$$2-4 \mu\text{m} \quad (.001 \text{ mm})$$