



## Flight Planning

Factors Affecting Flight process:

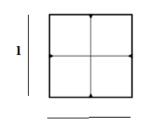
Ground coverage
Purpose of the survey
Overlap and sidelap requirements
Scale requirements
Weather conditions and Wind effects.

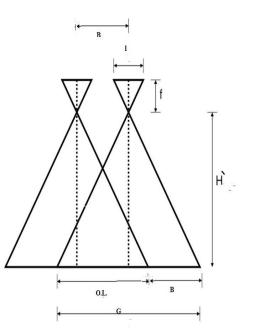


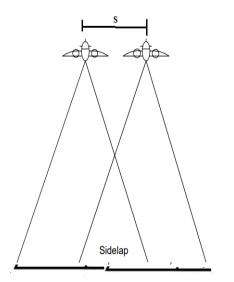




## Image Scale = I / G = $f/(H-h_{av})$



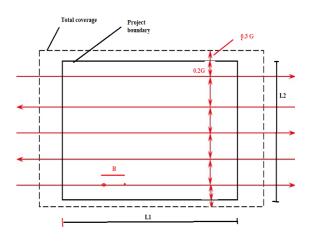






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$$S = (1 - (S.L.)/100)*G$$

$$B = (1 - (O.L.)/100)*G$$

$$n_1 = (L_2 - 0.4 \text{ G})/\text{S} + 1$$

$$n_2 = (L_1/B) +4$$

$$n = n1*n2$$





Example: A rectangular area of miles 10 in the north-south direction by miles 6 in the east-west direction is to be covered with aerial photography having a scale of 1:4000. Endlap and sidelap are % 65 and % 25, respectively. A camera having a (9inches) square format is used. Compute the total number of photographs in the project