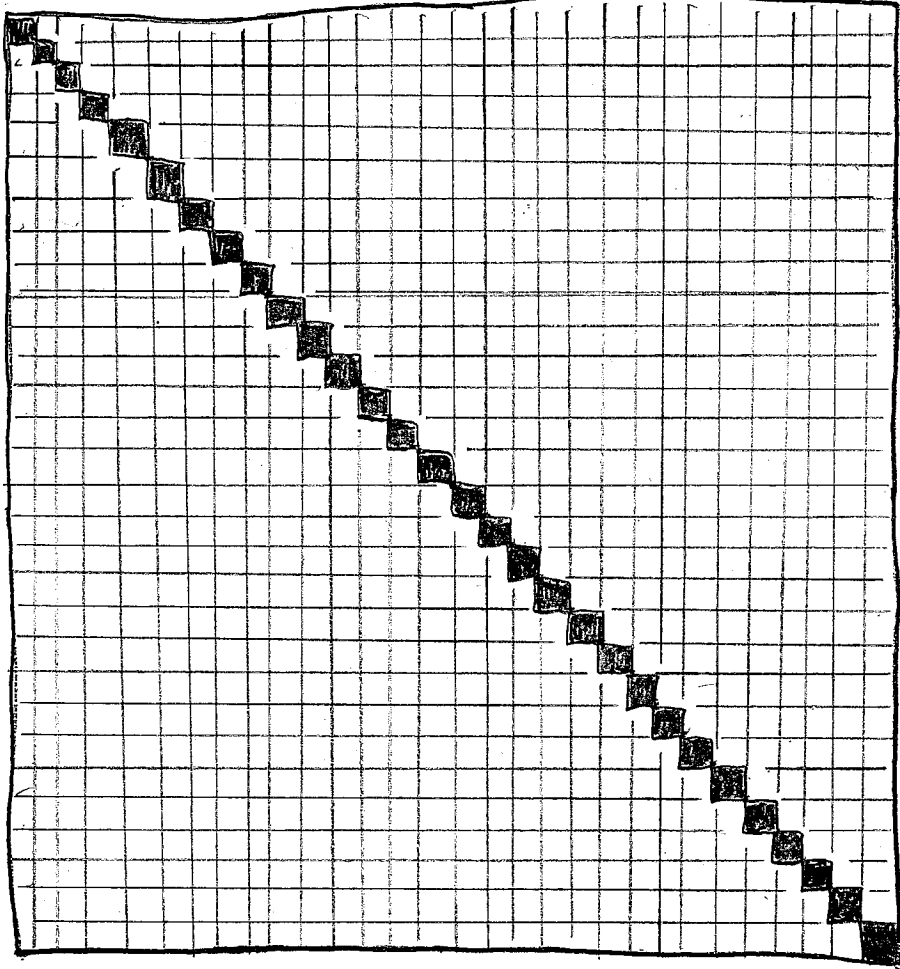


2x2 block diagonal

Condition Equation Layout, assume 8 GCP, 7 TP, Image 1 equations followed by Image 2 equations, within each image GCP eqn's followed by TP eqn's.



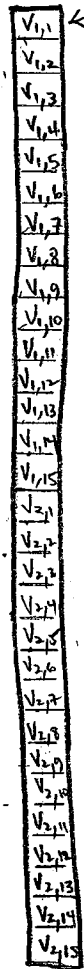
**A**  
(60,60)

■ = nonzero

$$\begin{aligned}
 W &= I_{60} \\
 Q &= W^{-1} = I_{60} \\
 A &= \partial F / \partial l \text{ (obs)} \\
 B &= \partial F / \partial x \text{ (par)} \\
 Q_e &= A Q A^T
 \end{aligned}$$

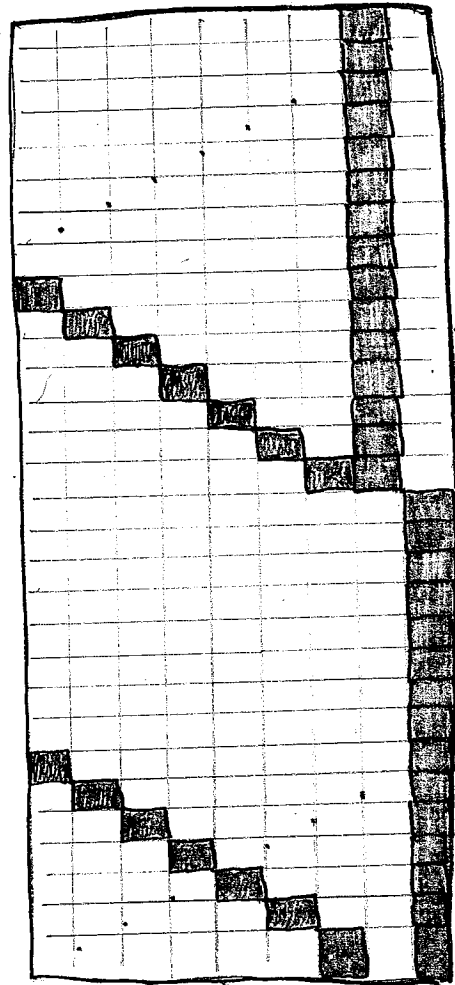
$$\begin{aligned}
 W_e &= Q_e^{-1} \\
 N &= B^T W_e B \\
 t &= B^T W_e f \\
 f &= -F - A(l - l^0) \\
 l &= \text{original obs.}
 \end{aligned}$$

TWO IMAGE BBA



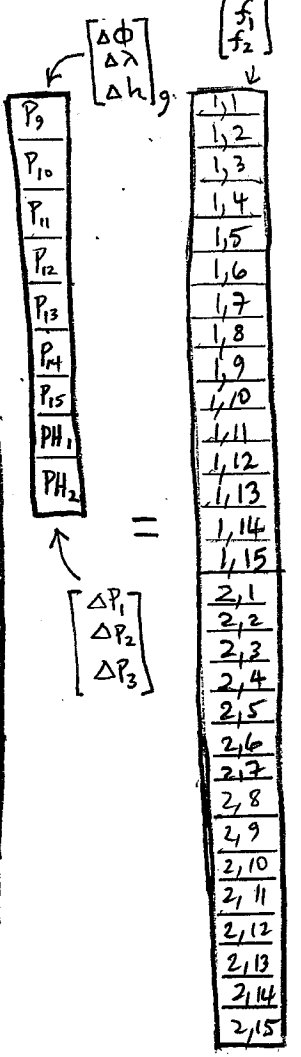
**V**  
(60,1)

+



**B**  
(60,27)

$$\begin{aligned}
 l^0 &= \text{current refined obs.} \\
 N_\Delta &= t \\
 \Delta &= N^{-1} t \\
 X^0 &= X^0 + \Delta \\
 V &= Q A^T W_e (f - B \Delta)
 \end{aligned}$$



**f**  
(60,1)

$l^0 = l + v$   
Reevaluate A, B, f @ new values, solve again, until  $\Delta$  not significant