

Calculating inter band time delay

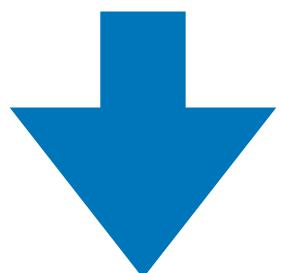
$$\Delta t_{\text{red-green}} = \frac{w_{\text{red-green}}^{\text{sensor-array}} \cdot \text{GSD}}{V_{\text{satellite}}}$$

Calculating inter band time delay

GSD ~ 3.7 m

$V_{sat} = 7600 \text{ m/s}$

sensor width $w = 660 \text{ px}$



Time delay/band ~ 321ms

$\Delta t_{\text{blue-red}} \sim 321 \text{ ms}$

$\Delta t_{\text{red-green}} \sim 642 \text{ ms}$