

Calculating inter band time delay

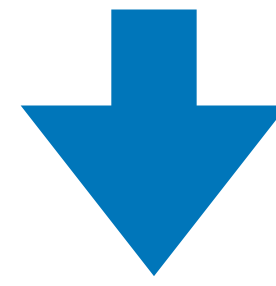
$$\Delta t_{\text{red-green}} = \frac{w_{\text{red-green}}^{\text{sensor-array}} \cdot \text{GSD}}{V_{\text{satellite}}}$$

Calculating inter band time delay

$GSD \sim 3.7 \text{ m}$

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

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



Time delay/band $\sim 321 \text{ ms}$

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

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