

Calculating inter band time delay

$$d_{b1-b2}^{\text{satellite}} = w_{b1-b2}^{\text{sensor-array}} \cdot \text{GSD}$$

As the satellite moves forward, it must capture capture ground continuously without breaks

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