

Calculating inter band time delay

$$\Delta t_{b1-b2} = \frac{d_{b1-b2}^{\text{satellite}}}{V_{\text{satellite}}}$$

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

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

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