



$$Z = 13376.7 + 1131.9 \cdot \sin(\text{el}) + 166.8 \cdot \cos(\text{el})$$

$$Y = 1543.9 + -504.0 \cdot \sin(\text{el}) + 1074.5 \cdot \cos(\text{el})$$

$$\theta_x = 304.8 + -99.5 \cdot \sin(\text{el}) + 79.5 \cdot \cos(\text{el})$$

$$X = 63.5 + 210.6 \cdot \sin(\text{el}) + -200.4 \cdot \cos(\text{el})$$

$$\theta_y = 59.3 + -9.9 \cdot \sin(\text{el}) + 30.0 \cdot \cos(\text{el})$$