$$a_{1y} = \frac{(2045.8 - 1050.1)\cdot(2045.0 - 1055.3) + \ldots + (y_{6000} - 1050.1)\cdot(y_{\mathrm{ref}6000} - 1055.3)}{(2045.0 - 1055.3)^2 + \ldots + (y_{\mathrm{ref}6000} - 1055.3)^2}$$