

**Errata to Field Guide to Atmospheric Optics, 2nd Ed. (FG41)
(Nov. 19, 2021)**

p. 47 Last box on the right in Flowchart. “Temporal Irradiance Spectrum” should read “Temporal Phase Spectrum”

p. 109: Line 8 from the top. The term $\left[1 - \left(\frac{K_0^2 W_0^2}{1 + K_0^2 W_0^2}\right)^{1/6}\right]$ should be eliminated. The equation should read

$$\langle r_c^2 \rangle = \frac{7.25(L - z_0)^2}{W_0^{1/3}} \times \int_{z_0}^L C_n^2(h) \left(1 - \frac{z - z_0}{L - z_0}\right)^2 \left|1 - \frac{z - z_0}{F_0}\right|^{-1/3} dz$$

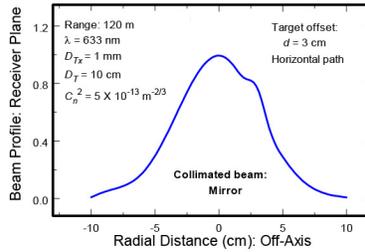
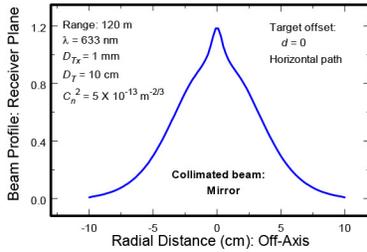
p. 109: Line 2 from bottom. The term $\left[1 - \left(\frac{K_0^2 W_0^2}{1 + K_0^2 W_0^2}\right)^{1/6}\right]$ should be eliminated. The equation should read

$$\langle r_c^2 \rangle \approx 0.54L^2 \left(\frac{\lambda}{2W_0}\right)^2 \left(\frac{2W_0}{r_{0T}}\right)^{5/3}, \quad H \gg 20 \text{ km}$$

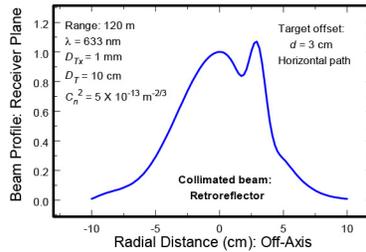
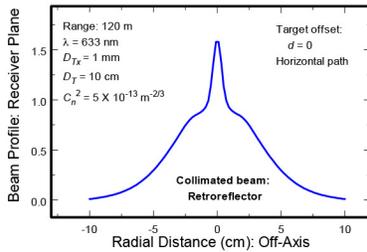
p. 109: Last line reading “ $K_0 = \frac{2}{\pi} \zeta$ (rad/m); $H \gg 20 \text{ km}$ ” should be eliminated.

p. 126: The four graphs in the middle of the page should be replaced by the following:

Mirror target: collimated beam



Retroreflector target: collimated beam



p. 126: The Note at the bottom of page should now read (reference to focused beams removed):

Note: The nondimensional target size in the above graphs is $\Omega_T = 0.02$, which leads to a smaller enhancement from a mirror target.

p. 133 Line 3. The equation " $(\Omega_T \ll 1)$ " should be " $(\Omega_T \gg 1)$ "