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100 km, or just around the thin layer known as the mesopause. This is the geopotential altitude, h , and it is related to the geometric altitude by the relation $gE dh \approx g dz$; $2 \text{ g} \approx gE$ $2 \text{ E} \approx R \approx \frac{1}{2} gE$ $1 \text{ z} 2$: be written as where $gE \approx 9.087 \text{ m/s}^2$ (or 32.15 ft/s^2) is the gravitational acceleration at the surface of the Earth, $z \approx 0$.

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