

# Distance Sun-Earth

The relative distance between sun and earth varies as a function of the Julian day  $J$ :

$$d_{se} = 1 + 0.033 \cos \left( \frac{2\pi}{365} J \right)$$

The value  $d_{se}$  is needed to calculate the [extraterrestrial solar radiation](#).

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Last update: **2024/04/10 10:02**

