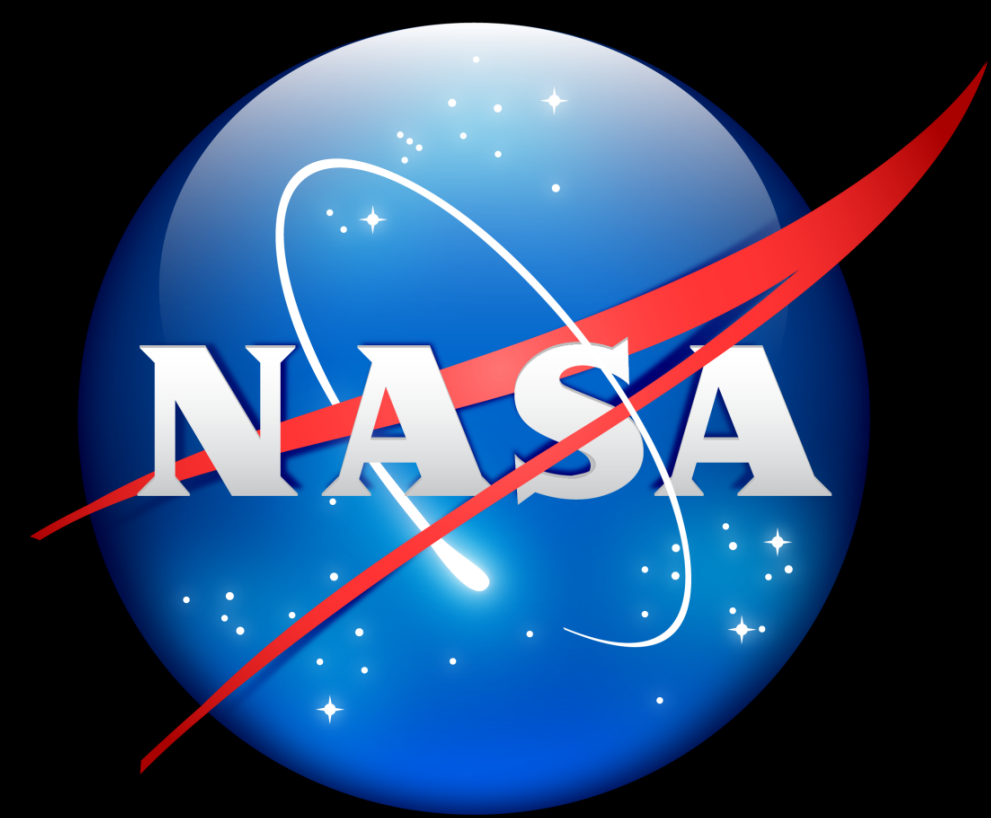
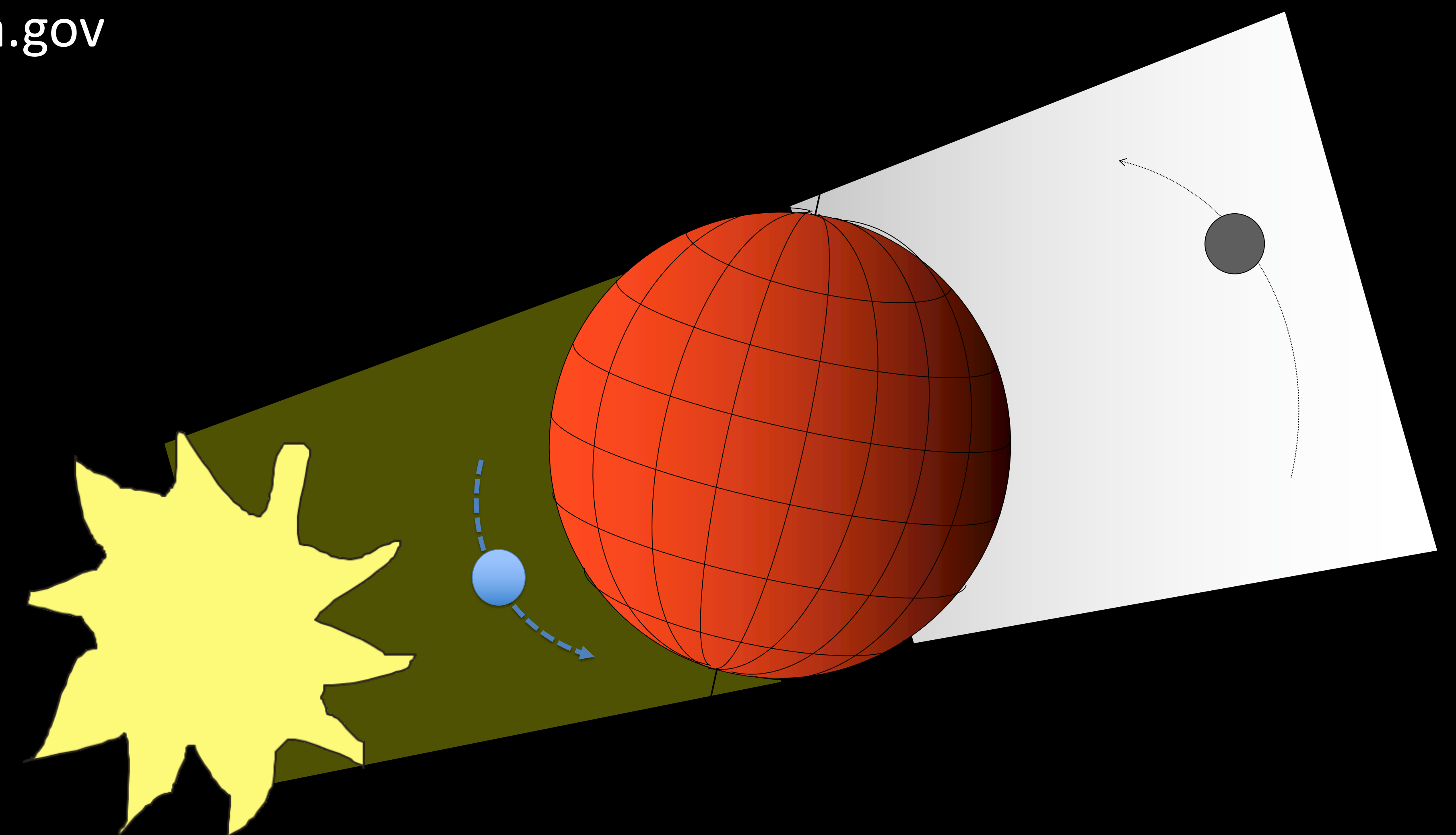
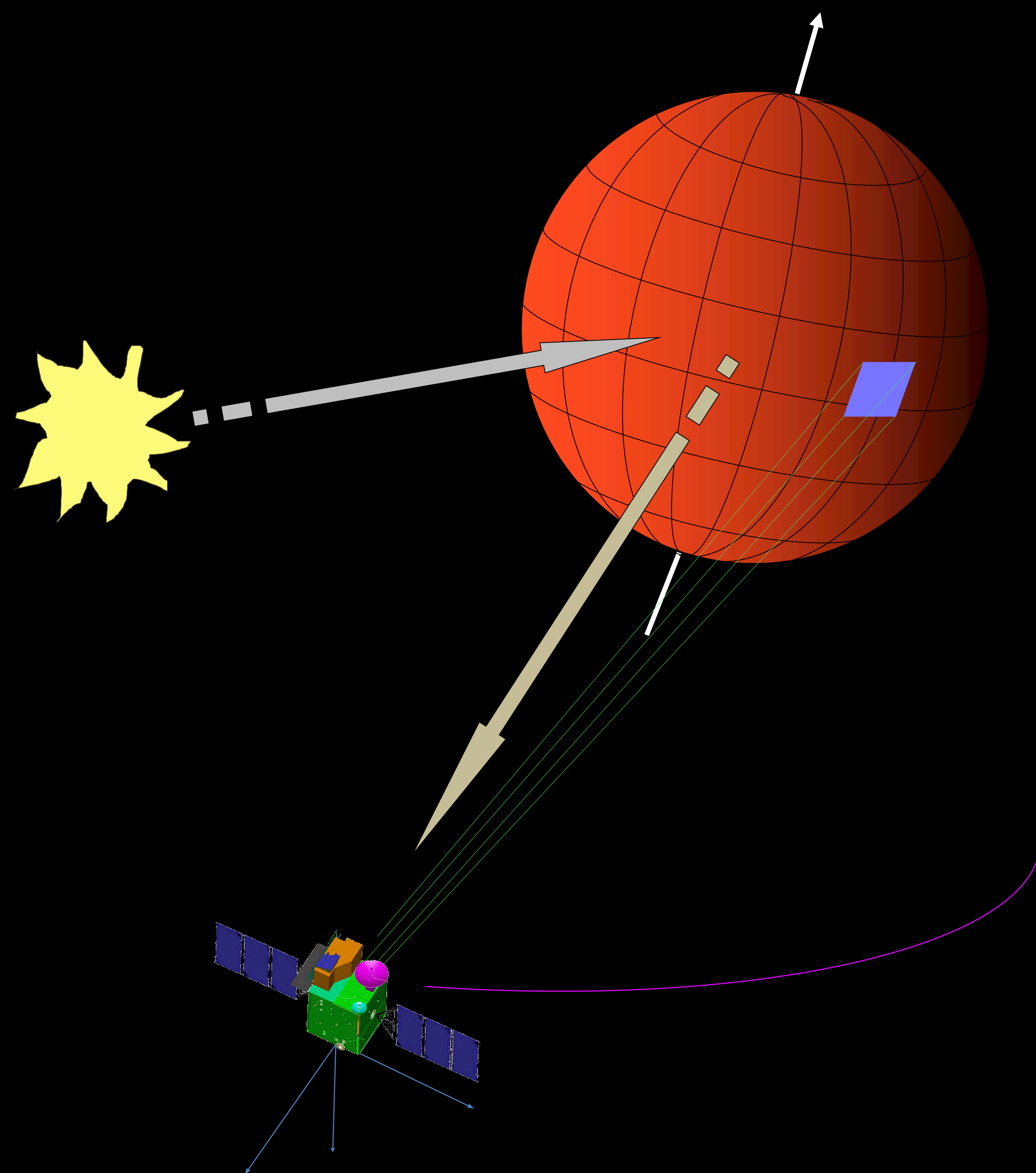


# Observation Geometry for SmallSats

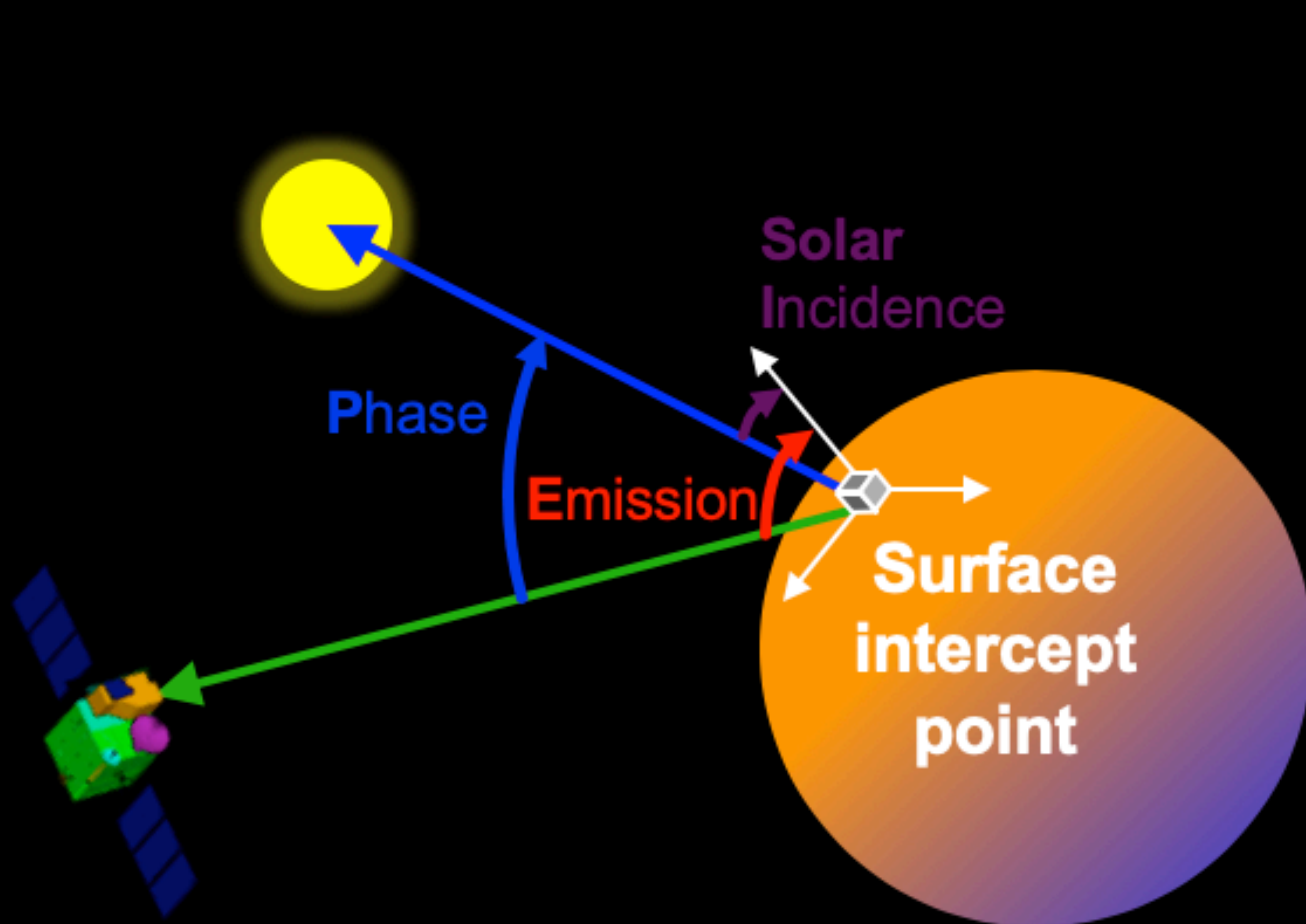


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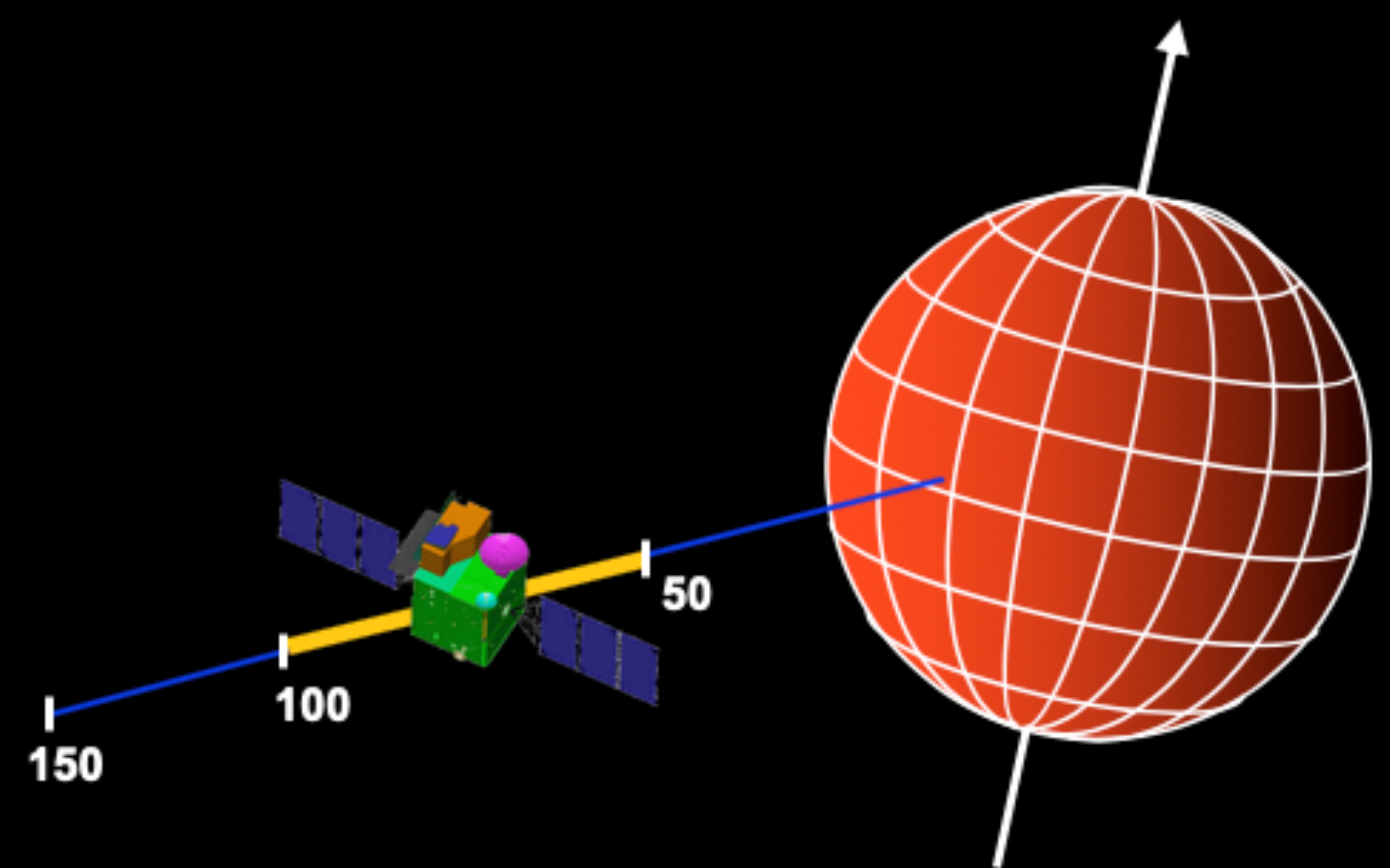


When is an object in  
transit or occultation?

Positions, velocities, orientations  
and field-of-view projections



Lighting angles



When is a spacecraft's  
altitude within a given range?

A few examples of the many kinds of space mission  
geometry you can compute using NASA's free SPICE system  
<https://naif.jpl.nasa.gov>