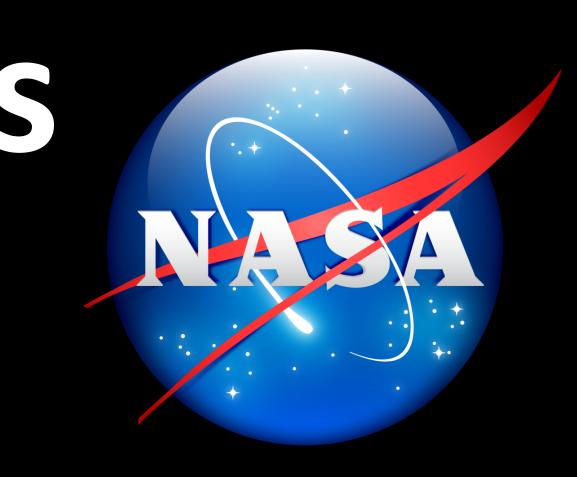
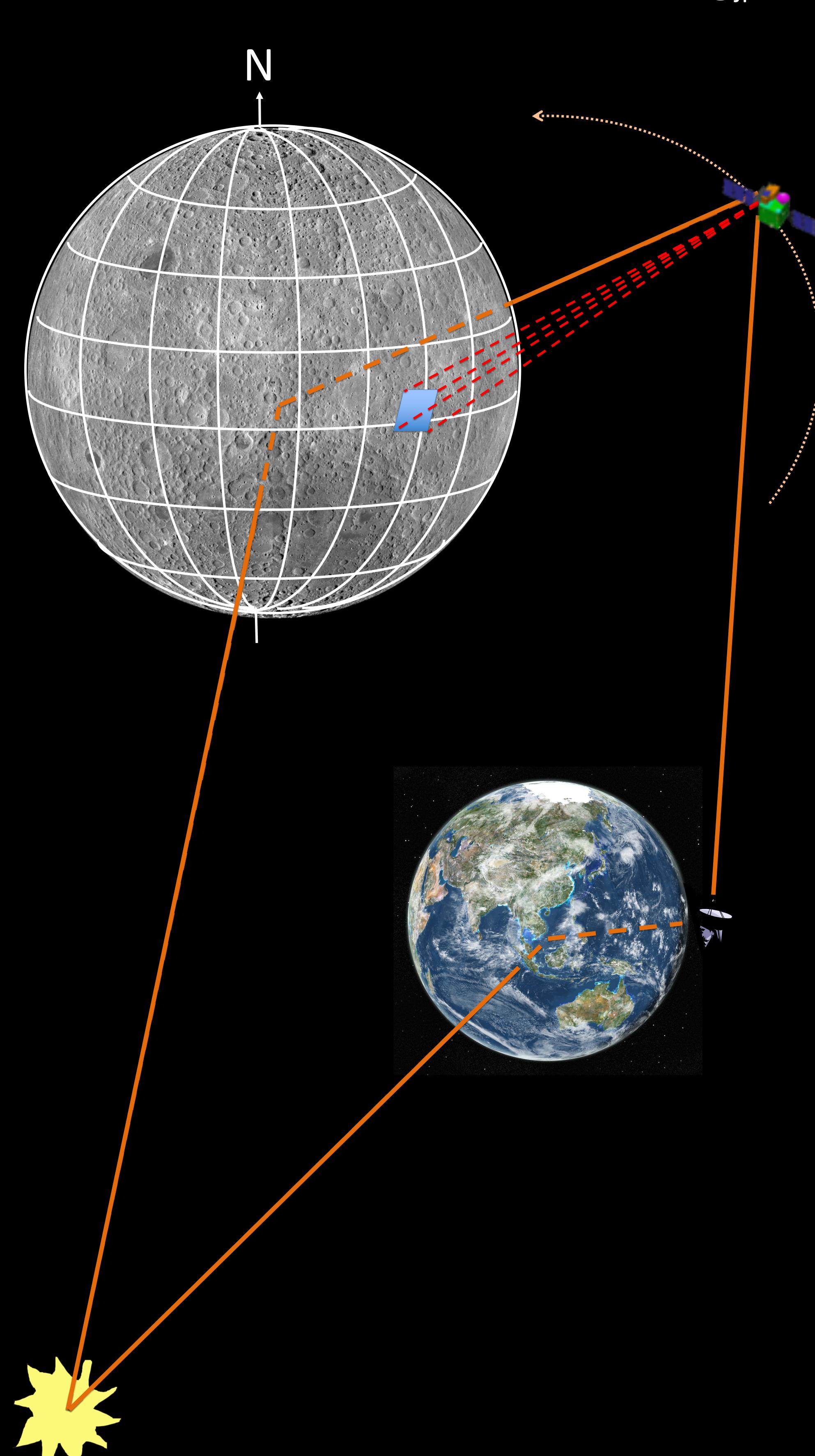
National Aeronautics and Space Administration

## Space Mission Geometry for CubeSats

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NASA's free, well proven and widely used "SPICE" observation geometry system can help your team accurately compute a wide assortment of geometric quantities needed for planning science observations and for analyzing the returned data.

SPICE is also useful in mission engineering tasks such as spacecraft visibility and telecom performance calculations.

SPICE software is available in Fortran 77, C, IDL, MATLAB, and Java Native Interface. Third parties offer interfaces to SPICE code in Python, Julia and Ruby.

SPICE tutorials, programming lessons and free training classes are available. For further information check out:

https://naif.jpl.nasa.gov