

Navigation and Ancillary Information Facility

Remote Sensing Programming Lesson (Cassini)

October 2017

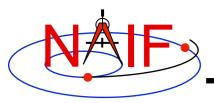
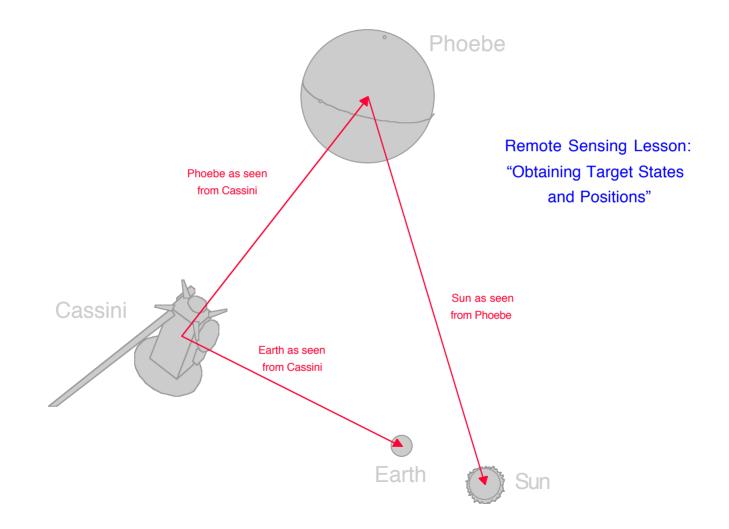


Diagram for "getsta" Exercise



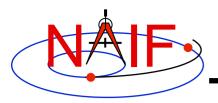
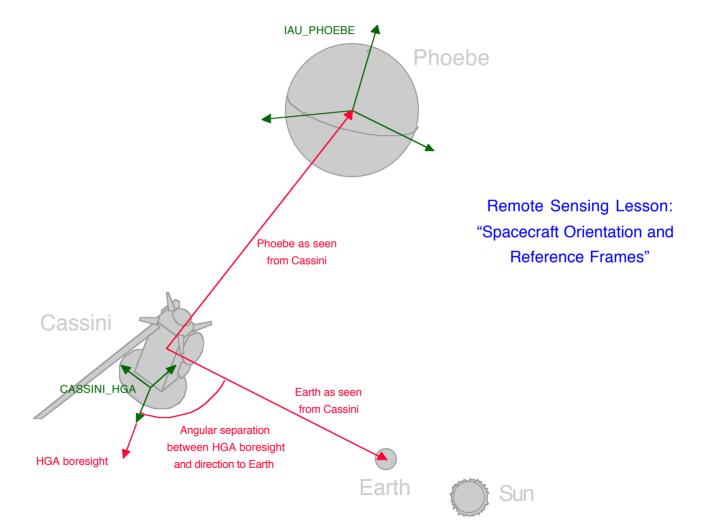
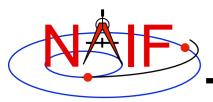


Diagram for "xform" Exercise

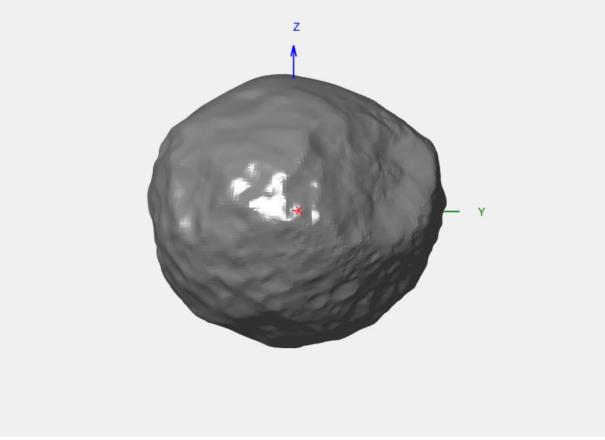




Phoebe Shape

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The next two tasks ask for computing observation geometry parameters for Phoebe modeled as a triaxial ellipsoid and as a triangular plate model provided in a DSK, resulting in significantly different values for these two cases. This should not be surprising given how different Phoebe's shape is from an ellipsoid, as illustrated by the animation/view below.



NAIF

Diagram for "subpts" Exercise

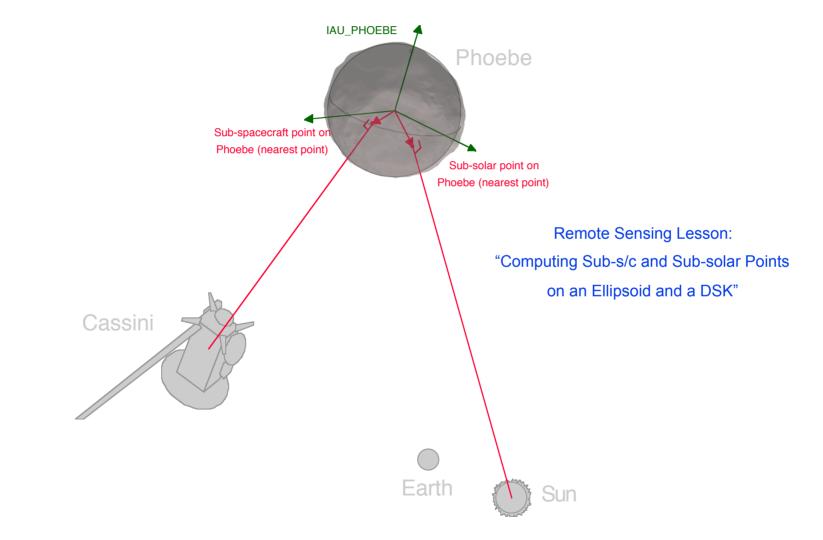
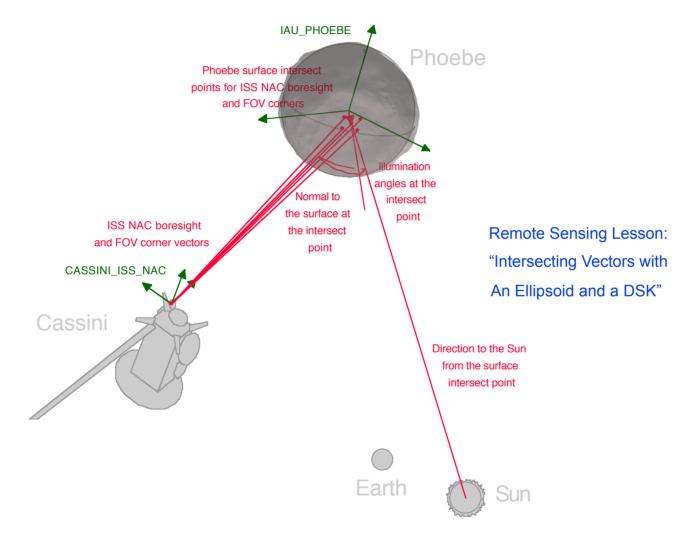
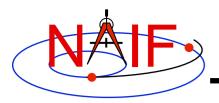


Diagram for "fovint" Exercise

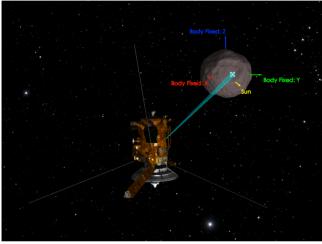




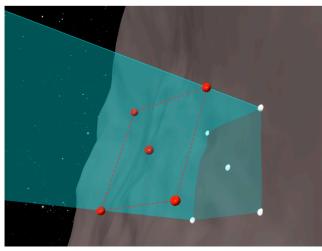
"fovint" Cosmographia Views

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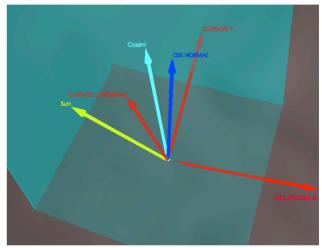
The "big" picture



Ellipsoid (red) and DSK (white) intercept points



Principal directions at the boresight DSK intercept point (top view)



Principal directions at the boresight DSK intercept point (side view)

