

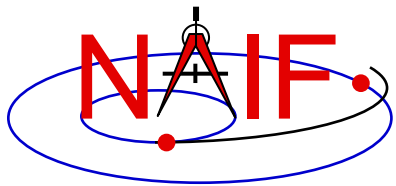


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Navigation and Ancillary Information Facility

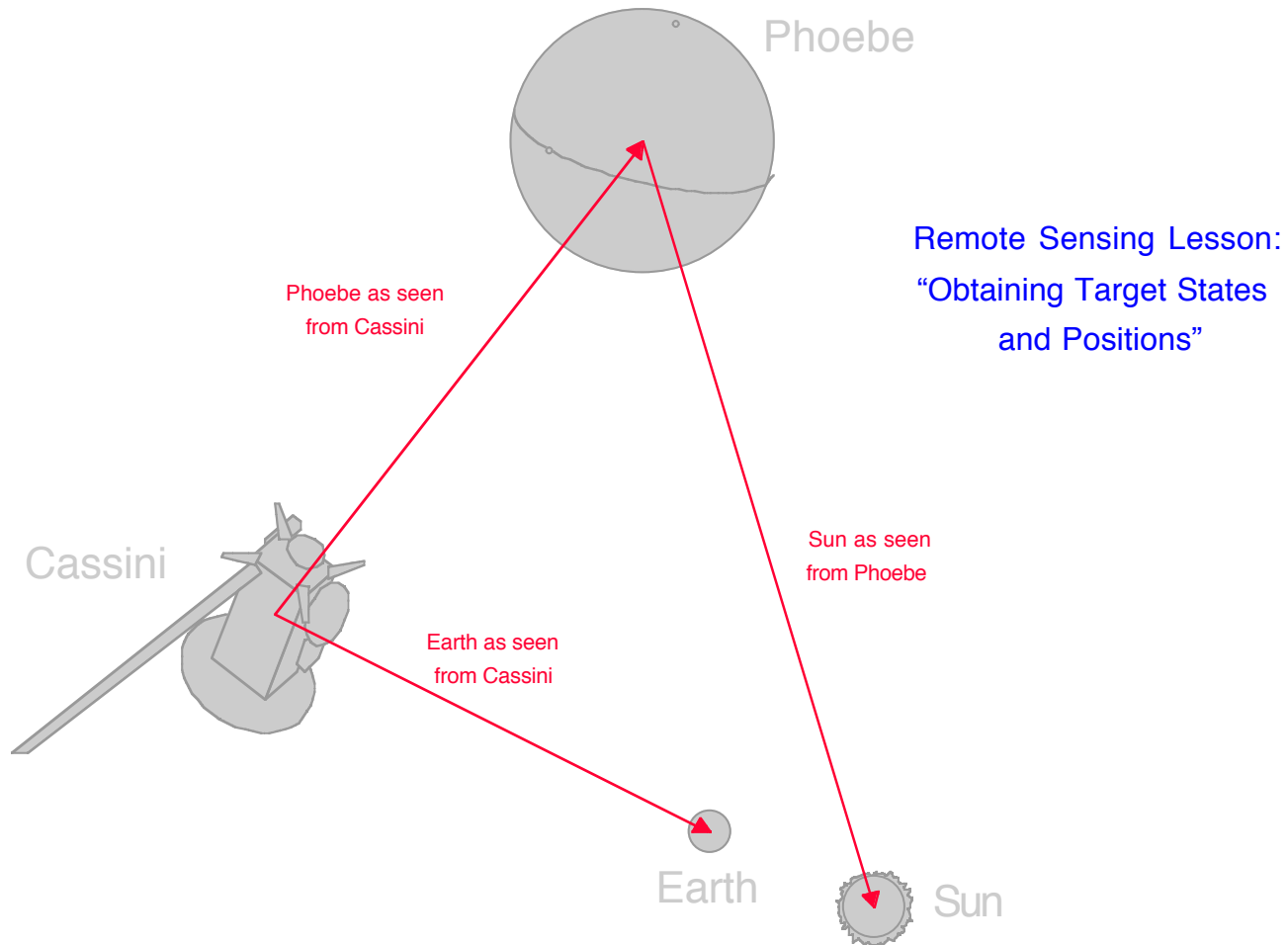
# **Remote Sensing Programming Lesson (Cassini)**

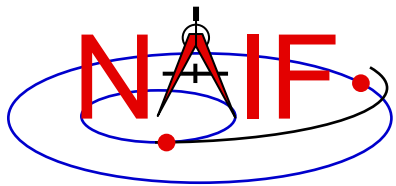
**October 2022**



# Diagram for “getsta” Exercise

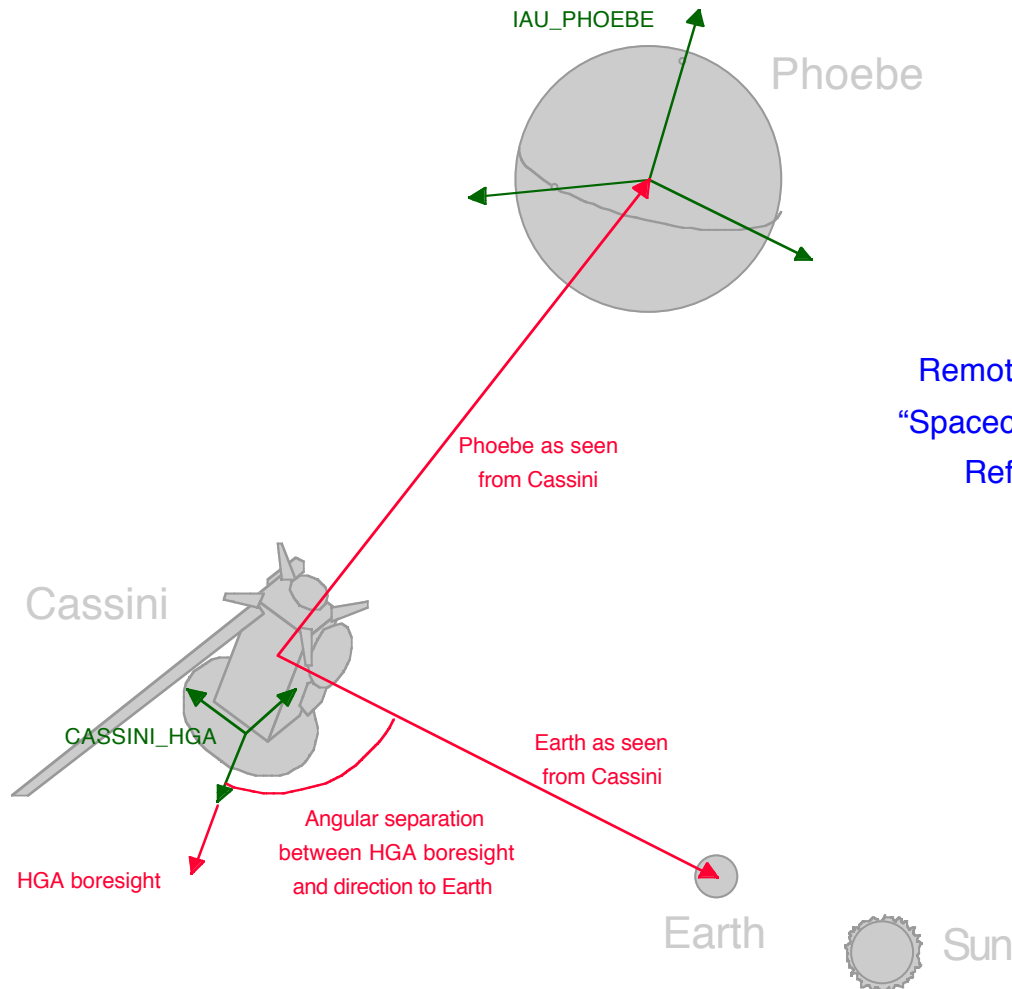
Navigation and Ancillary Information Facility





# Diagram for “xform” Exercise

Navigation and Ancillary Information Facility



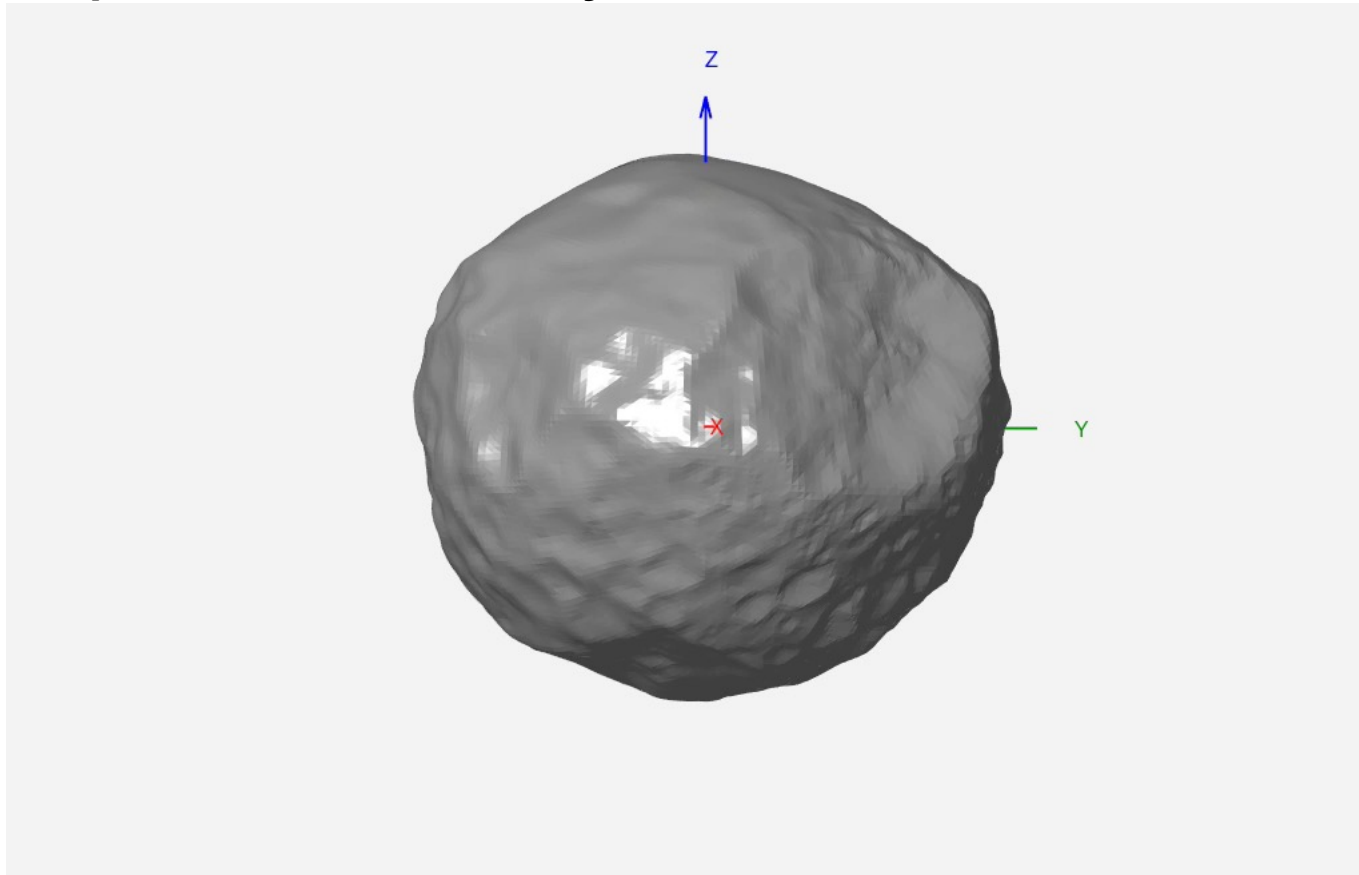
Remote Sensing Lesson:  
“Spacecraft Orientation and  
Reference Frames”

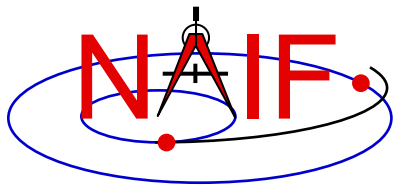


# Phoebe Shape

Navigation and Ancillary Information Facility

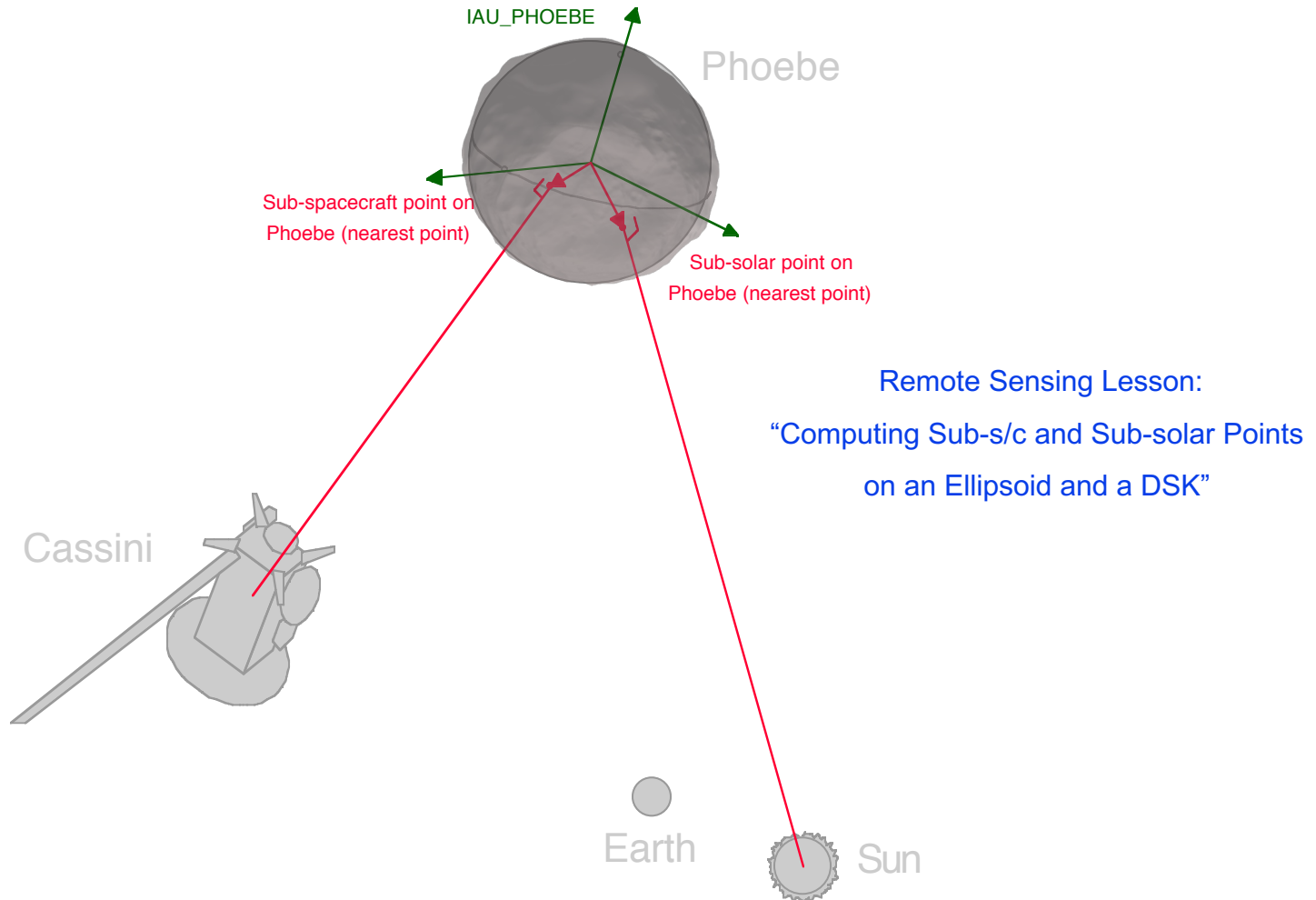
The next two tasks ask for computing observation geometry parameters for Phoebe modeled as a triaxial ellipsoid and as a triangular plate model provided in a DSK, resulting in significantly different values for these two cases. This should not be surprising given how different Phoebe's shape is from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

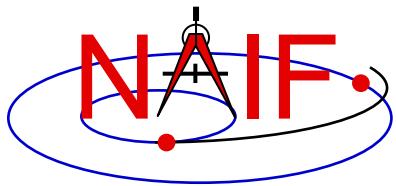




# Diagram for “subpts” Exercise

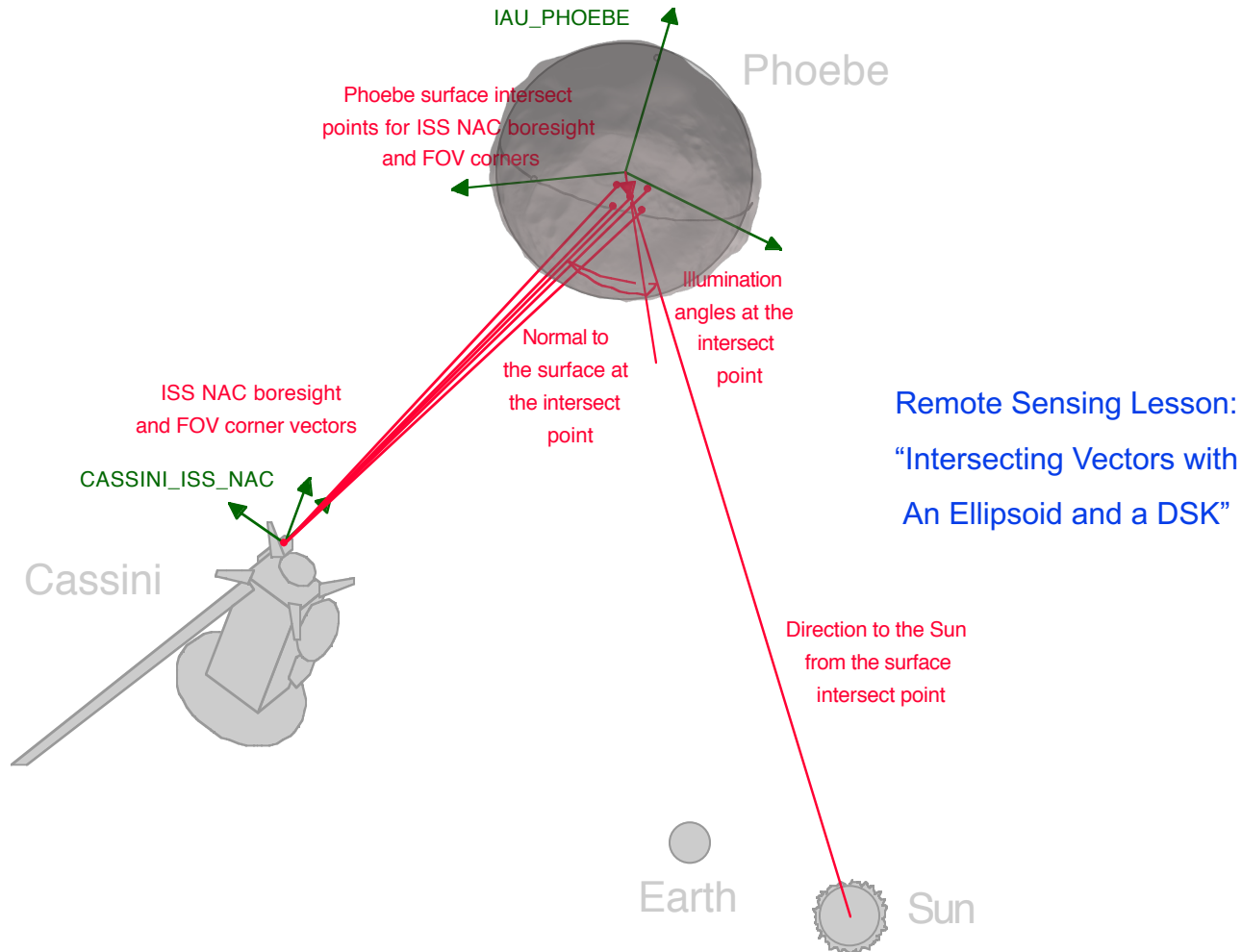
Navigation and Ancillary Information Facility

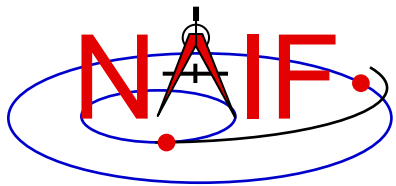




# Diagram for “fovint” Exercise

Navigation and Ancillary Information Facility

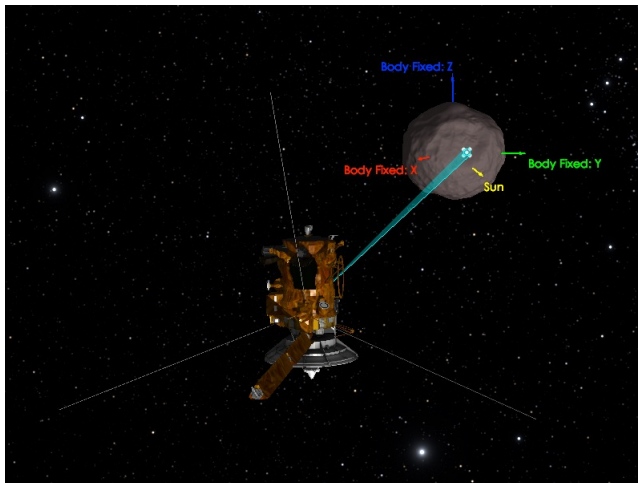




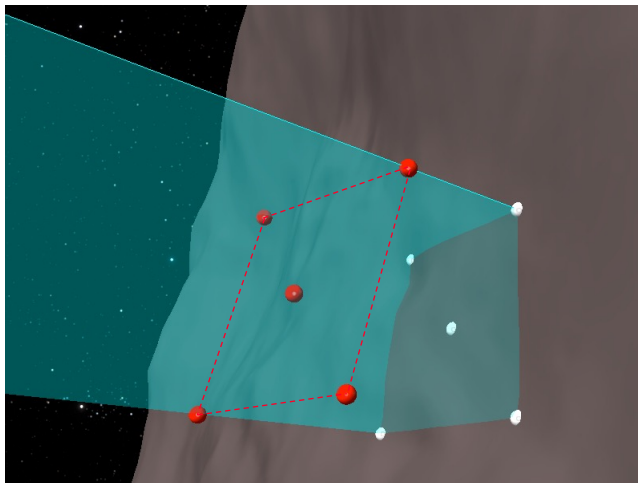
# “fovint” Cosmographia Views

Navigation and Ancillary Information Facility

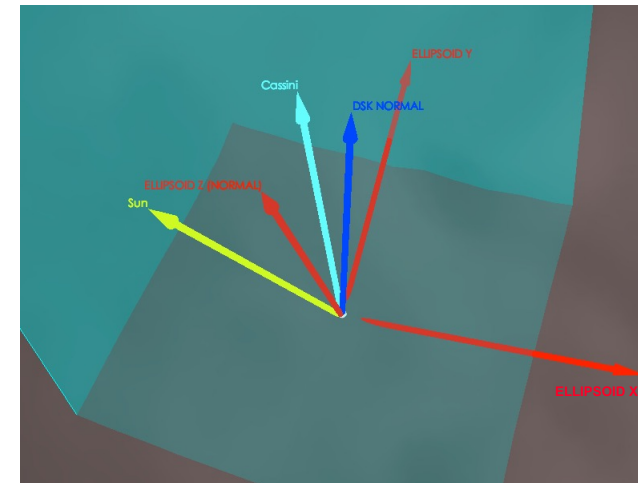
The “big” picture



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)

