In-situ Sensing
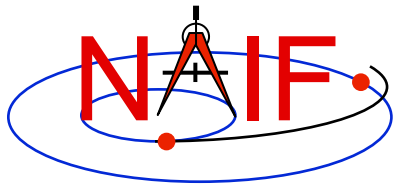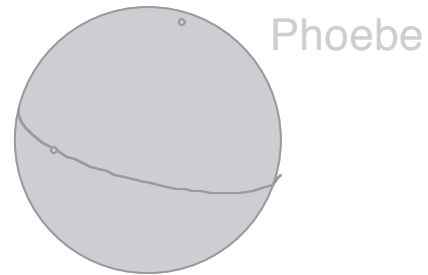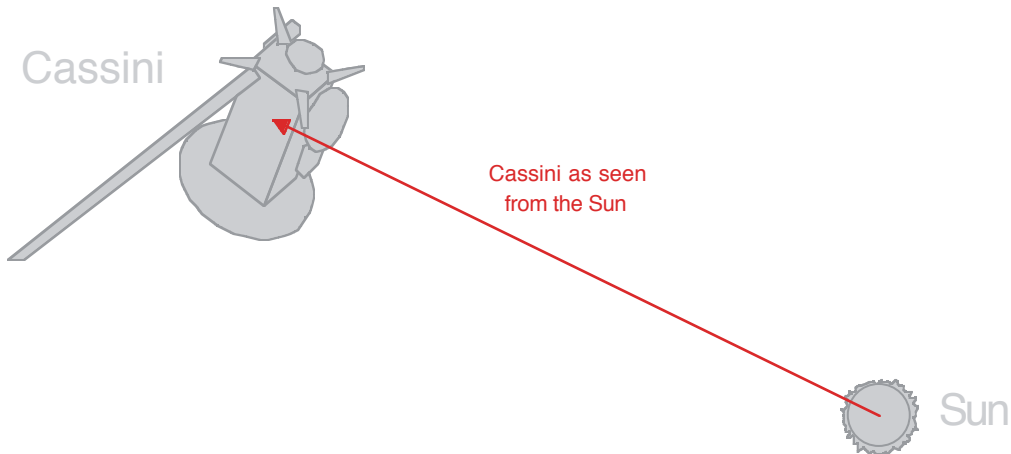## Programming Lesson
(Cassini)

October 2017

Navigation and Ancillary Information Facility

Phoebe

In-situ Sensing Lesson:
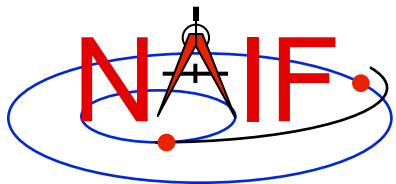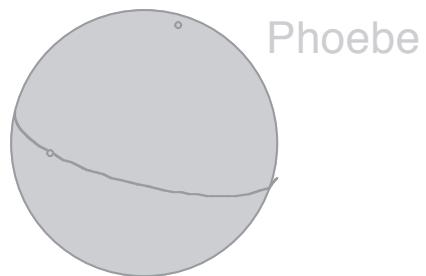"Step-3: Spacecraft State"

Cassini

Cassini as seen
from the Sun

Sun

Navigation and Ancillary Information Facility

Phoebe

In-situ Sensing Lesson:
"Step-4: Sun Direction"

Cassini

CASSINI_INMS
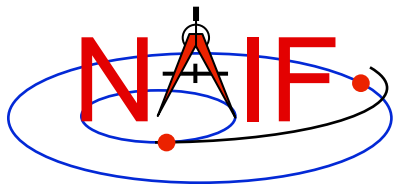
Sun as seen
from Cassini

Sun
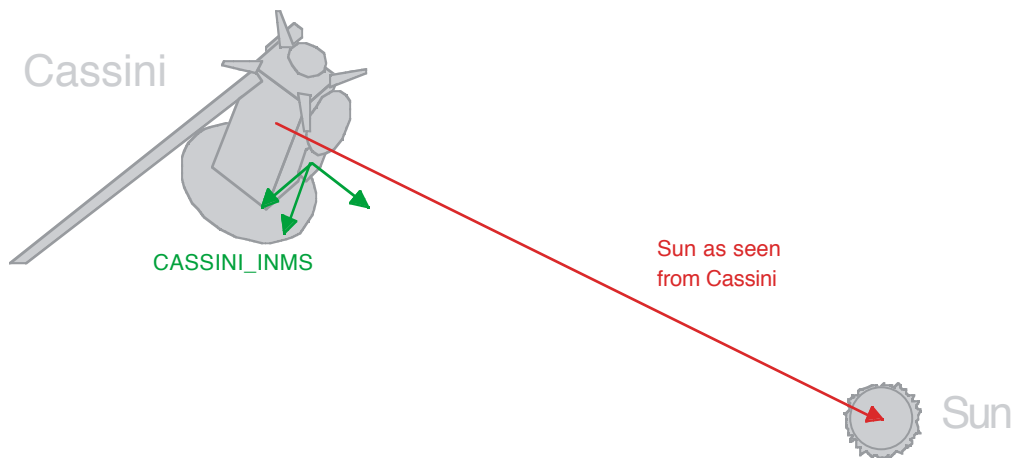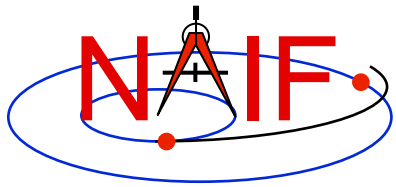
Diagram for Step 5

Navigation and Ancillary Information Facility

IAU_PHOEBE

Phoebe

Sub-spacecraft point on Phoebe (nearest point)

Vector from Cassini to sub-spacecraft point

Cassini as seen from Phoebe

In-situ Sensing Lesson: "Step-5: Sub-Spacecraft Point"

Cassini

CASSINI_INMS

Sun

Phoebe

In-situ Sensing Lesson:
"Step-6: Spacecraft Velocity"

Cassini

Cassini velocity
relative to Phoebe

CASSINI_INMS

Sun