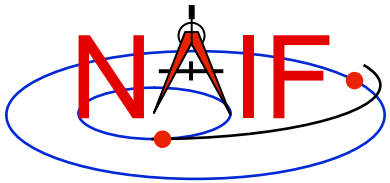


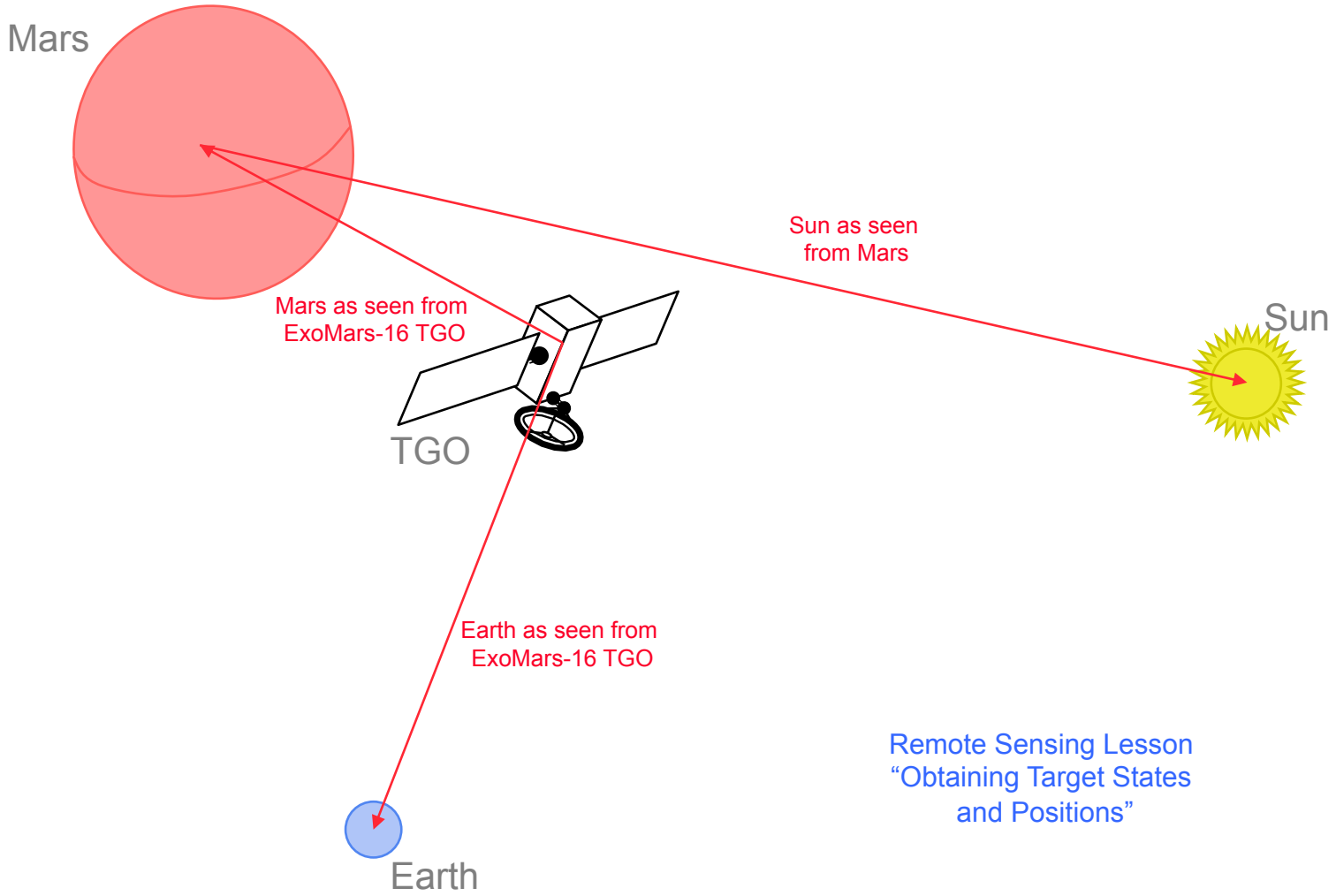
Navigation and Ancillary Information Facility

Remote Sensing
Programming Lesson

September 2016

Diagram for “getsta” Exercise

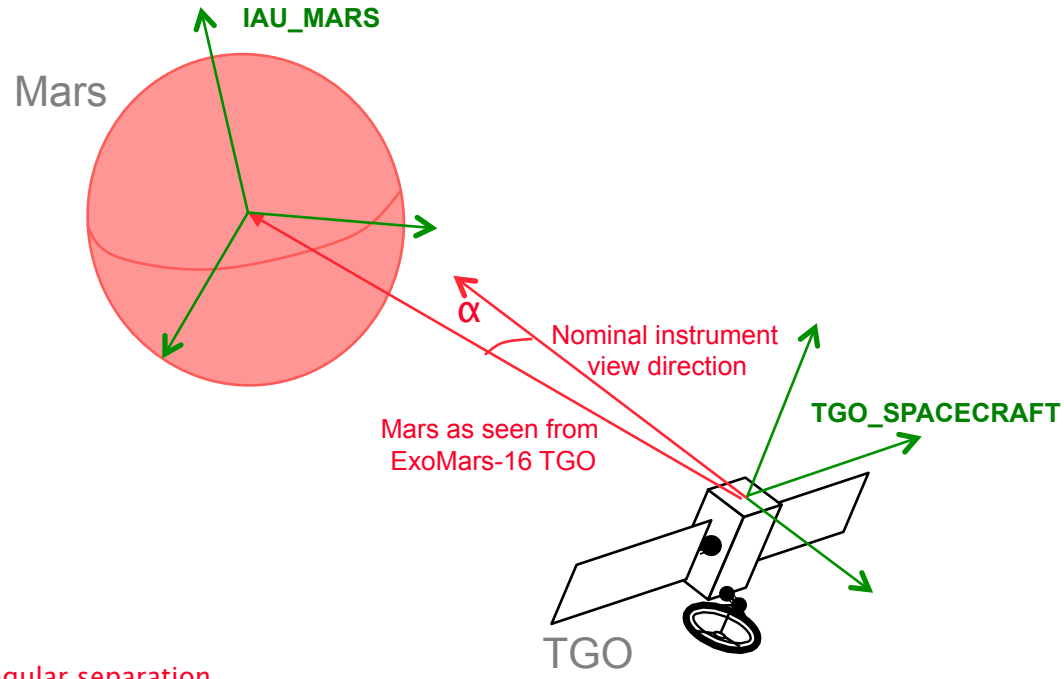
Navigation and Ancillary Information Facility



Remote Sensing Lesson
“Obtaining Target States
and Positions”

Diagram for “xform” Exercise

Navigation and Ancillary Information Facility



Remote Sensing Lesson
“Spacecraft Orientation and
Reference Frames”

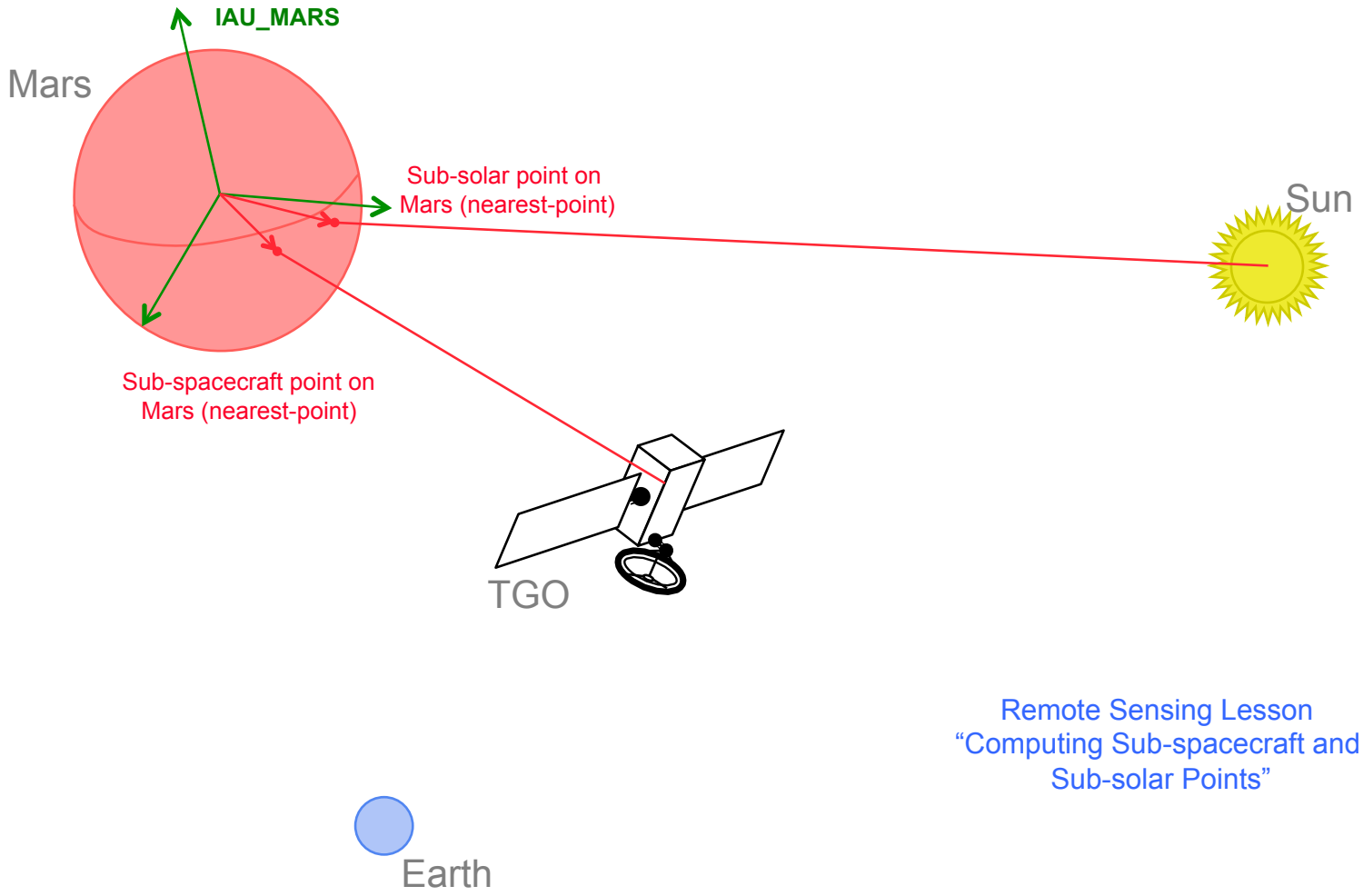
α: Angular separation
between nominal instrument
direction and direction to Mars

Sun

Earth

Diagram for “subpts” Exercise

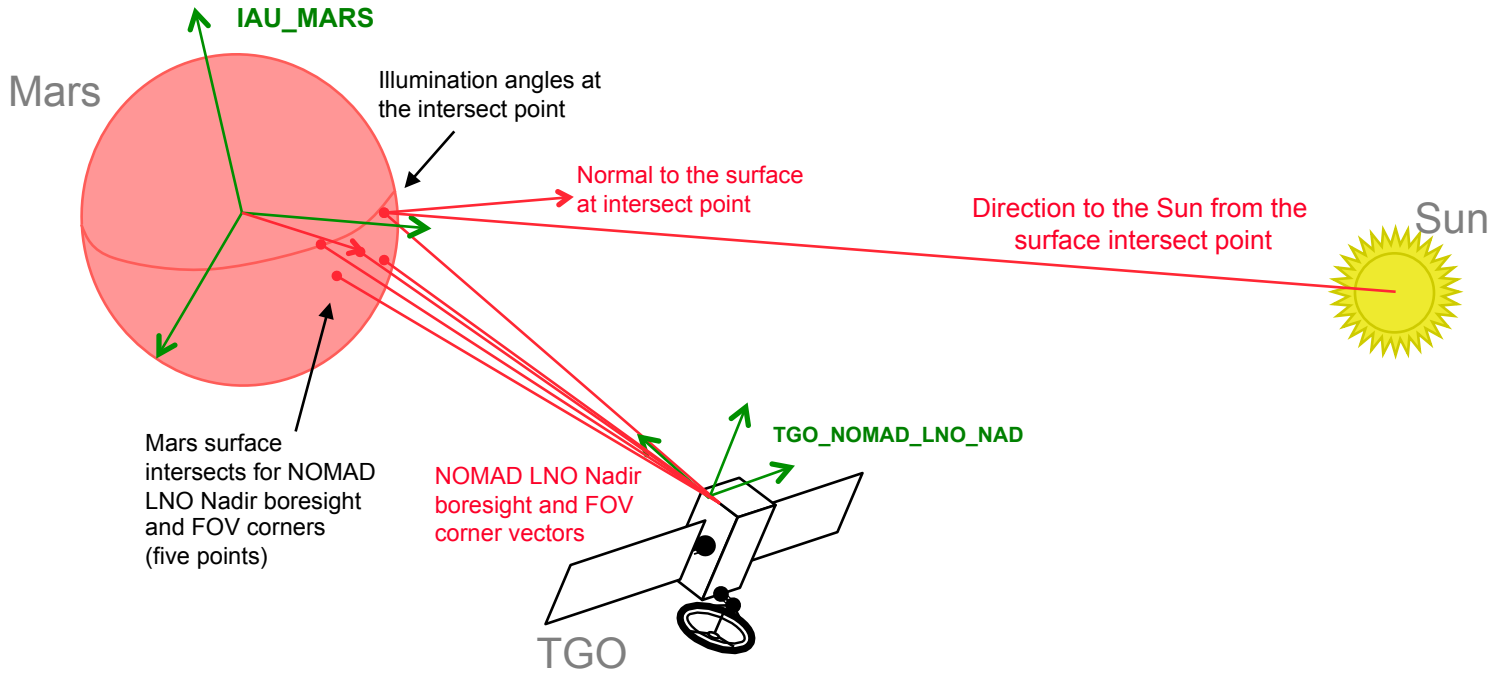
Navigation and Ancillary Information Facility



Remote Sensing Lesson
“Computing Sub-spacecraft and
Sub-solar Points”

Diagram for "fovint" Exercise

Navigation and Ancillary Information Facility



Remote Sensing Lesson
"Intersecting Vectors with a Triaxial Ellipsoid "

Earth