Chapter 3 - Orbit Geometries

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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the g29 Orbit.

The figure on page 3 is a North Trajectory Pole View of the g29 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the g29 Orbit from +/- 5 days of Ganymede closest approach.

The figure on page 5 is a North Trajectory Pole View of the g29 Orbit from +/- 2 days of Ganymede closest approach.

The figure on page 6 is a North Trajectory Pole View of the g29 Orbit from +/- 1 day of Ganymede closest approach.

The figure on page 7 is a North Trajectory Pole View of the g29 Orbit from +/- 6 hours of Ganymede closest approach.

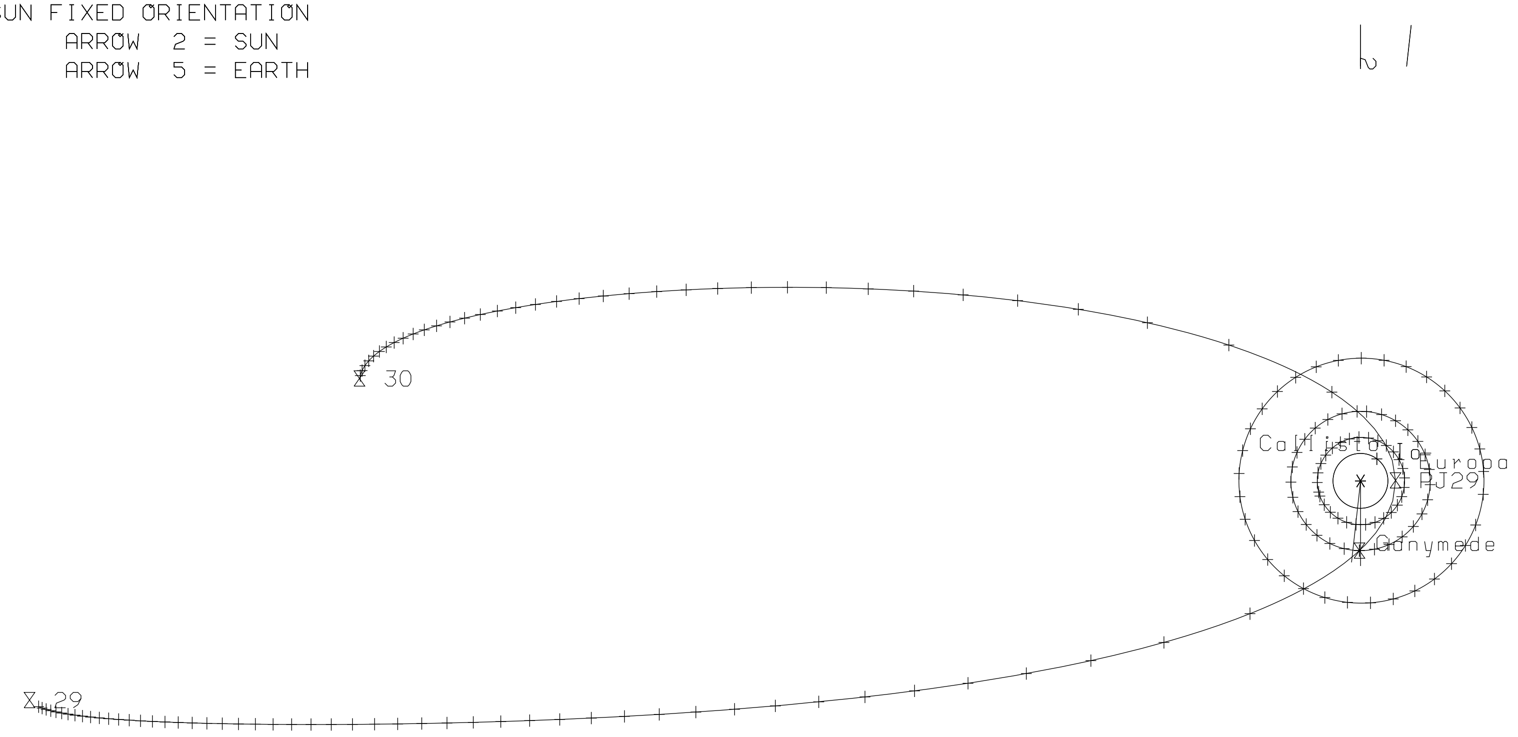
The figure on page 8 is a North Trajectory Pole View of the g29 Orbit from +/- 1 hour of Ganymede closest approach.

The figure on page 9 shows the spacecraft’s groundtrack on Ganymede at Ganymede closest approach.

The figure on page 10 shows the spacecraft’s groundtrack on Jupiter at Jupiter closest approach.

Jupiter 29: North Traj Pole View (Ganymede29 Apo to Apo)

SUN FIXED ORIENTATION
ARROW 2 = SUN
ARROW 5 = EARTH



TIME TICKS (RELATIVE TO GANYMEDE FLYBY):
IO - 3 HRS
EUROPA - 3 HRS
GANYMEDE - 6 HRS
CALLISTO - 12 HRS
SPACECRAFT - 2 DAYS

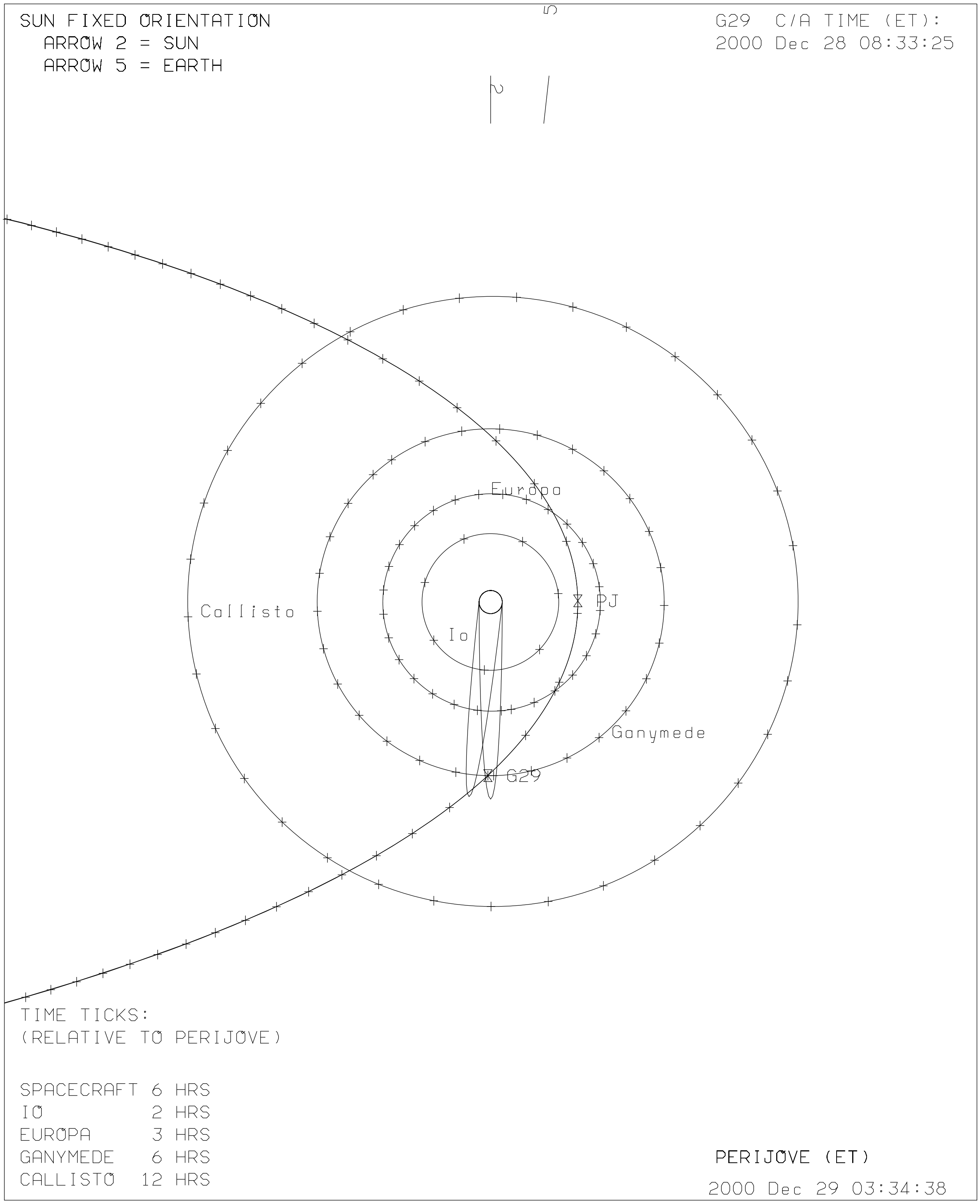
SIGNIFICANT EVENTS:
GANYMEDE FLYBY (G29): 28-DEC-2000 08:33:25.0000 ET
PERIJOVE (PJ29): 29-DEC-2000 03:34:37.9058 ET

ET - UTC = 64.185 SEC AS OF 1-JAN-1999

GANYMEDE FLYBY TIME (ET):
2000 Dec 28 08:33:25

NAV May 21, 2000

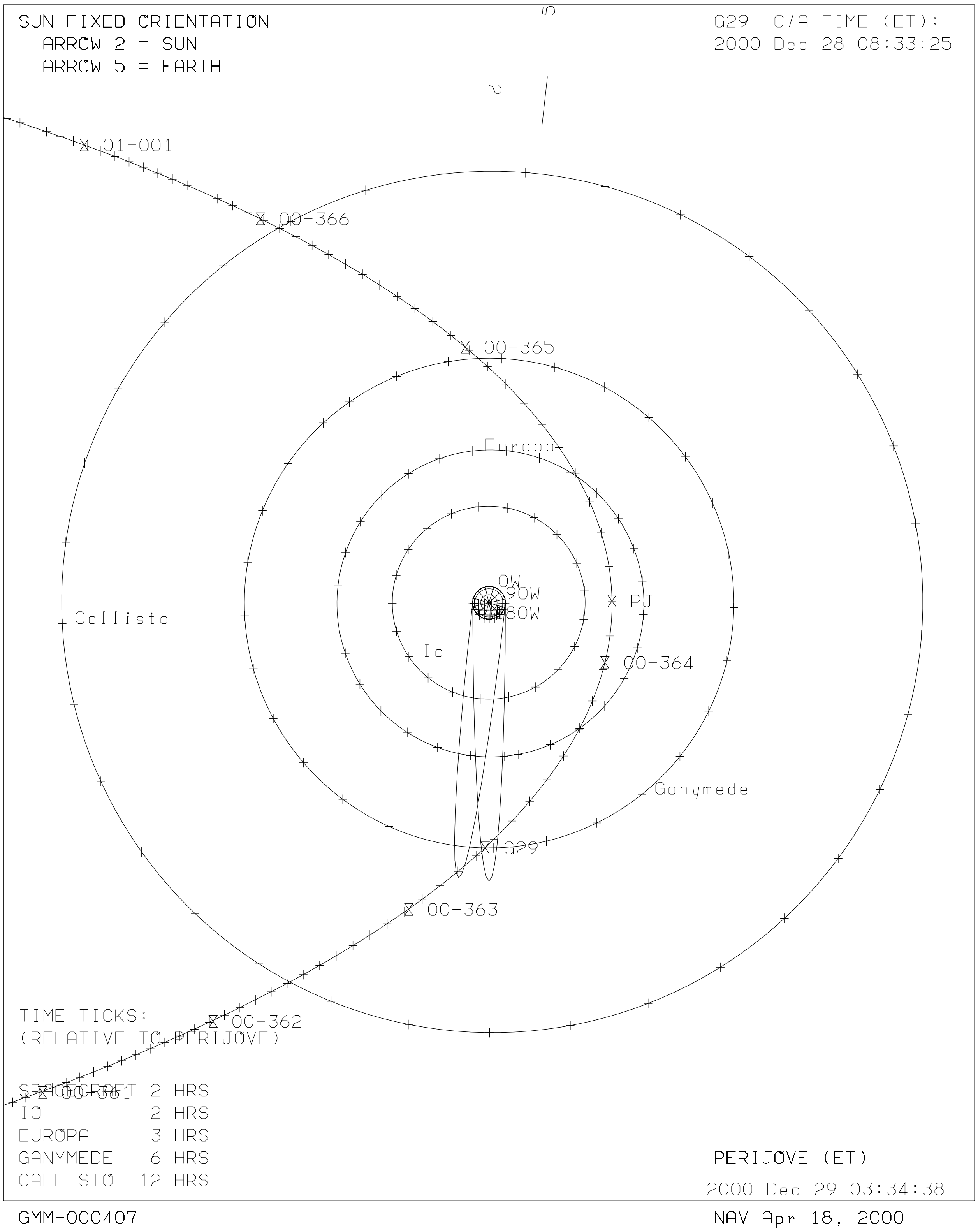
JUPITER 29: N. TRAJ. POLE VIEW (+/- 5 DAYS)



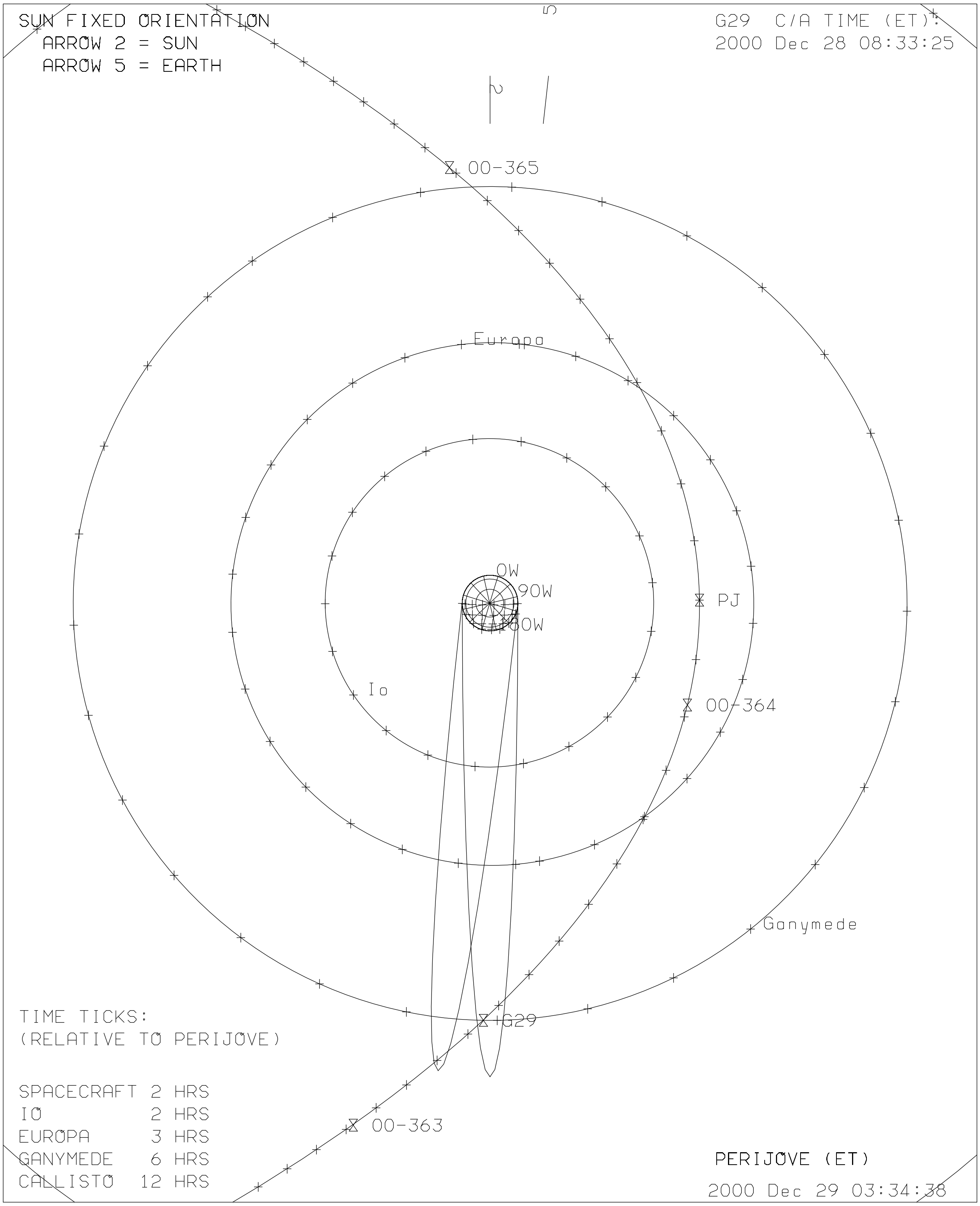
GMM-000407

NAV Apr 18, 2000

JUPITER 29: N. TRAJ. POLE VIEW (+/- 2 DAYS)

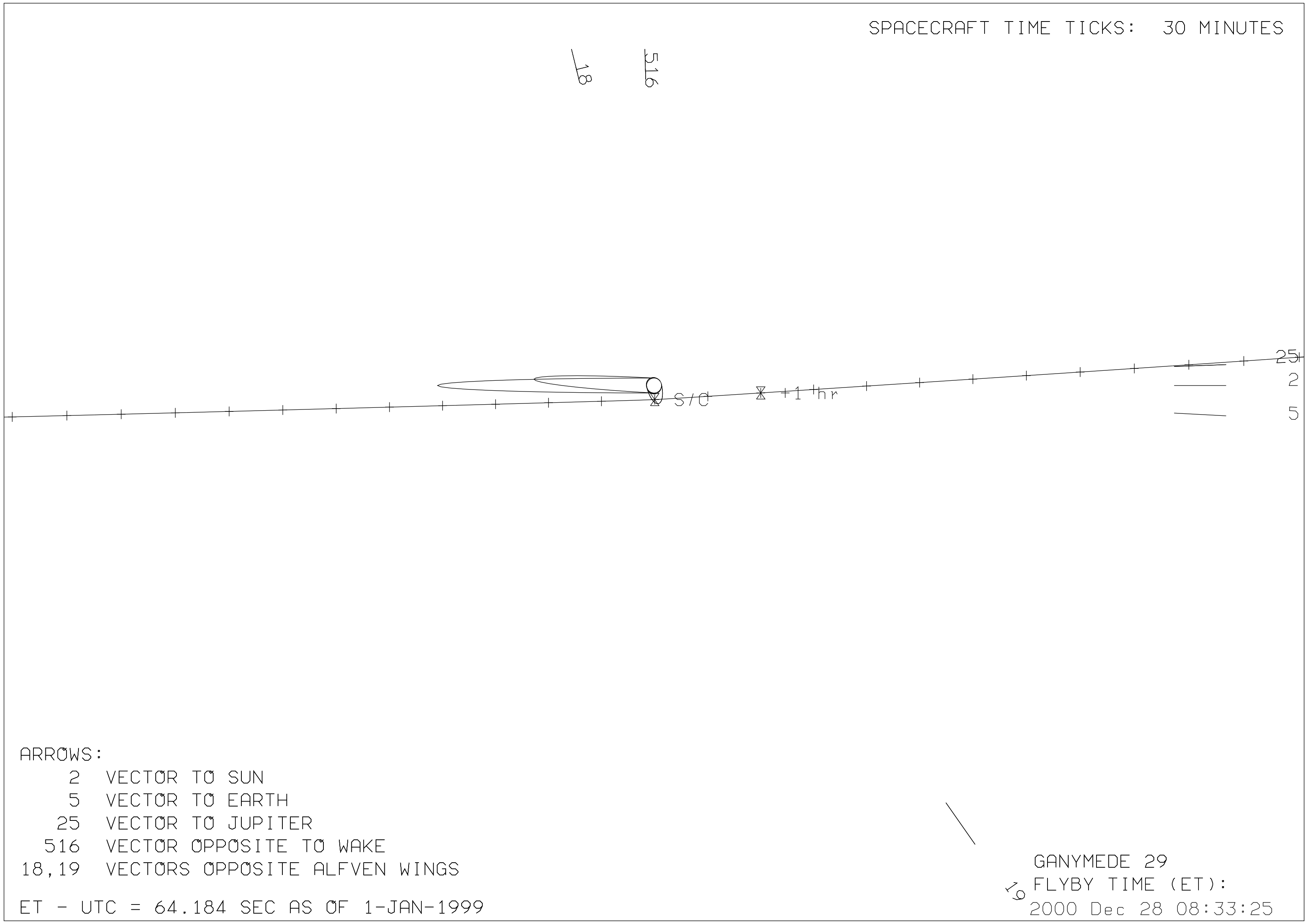


JUPITER 29: N. TRAJ. POLE VIEW (+/- 1 DAY)



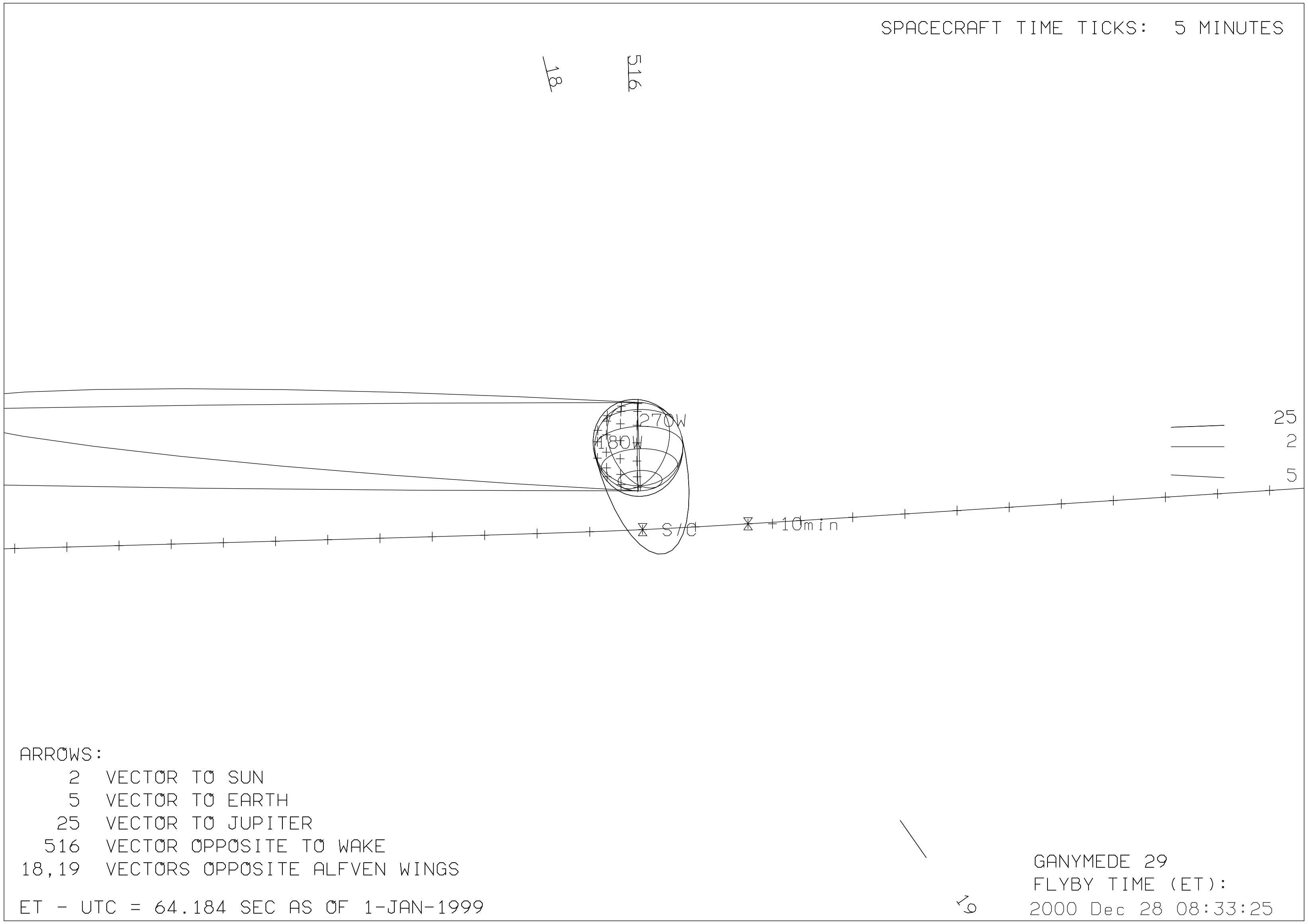
GMM-000407 NAV Apr 18, 2000

GANYMEDE 29: N. TRAJ POLE VIEW (+/- 6 HRS)



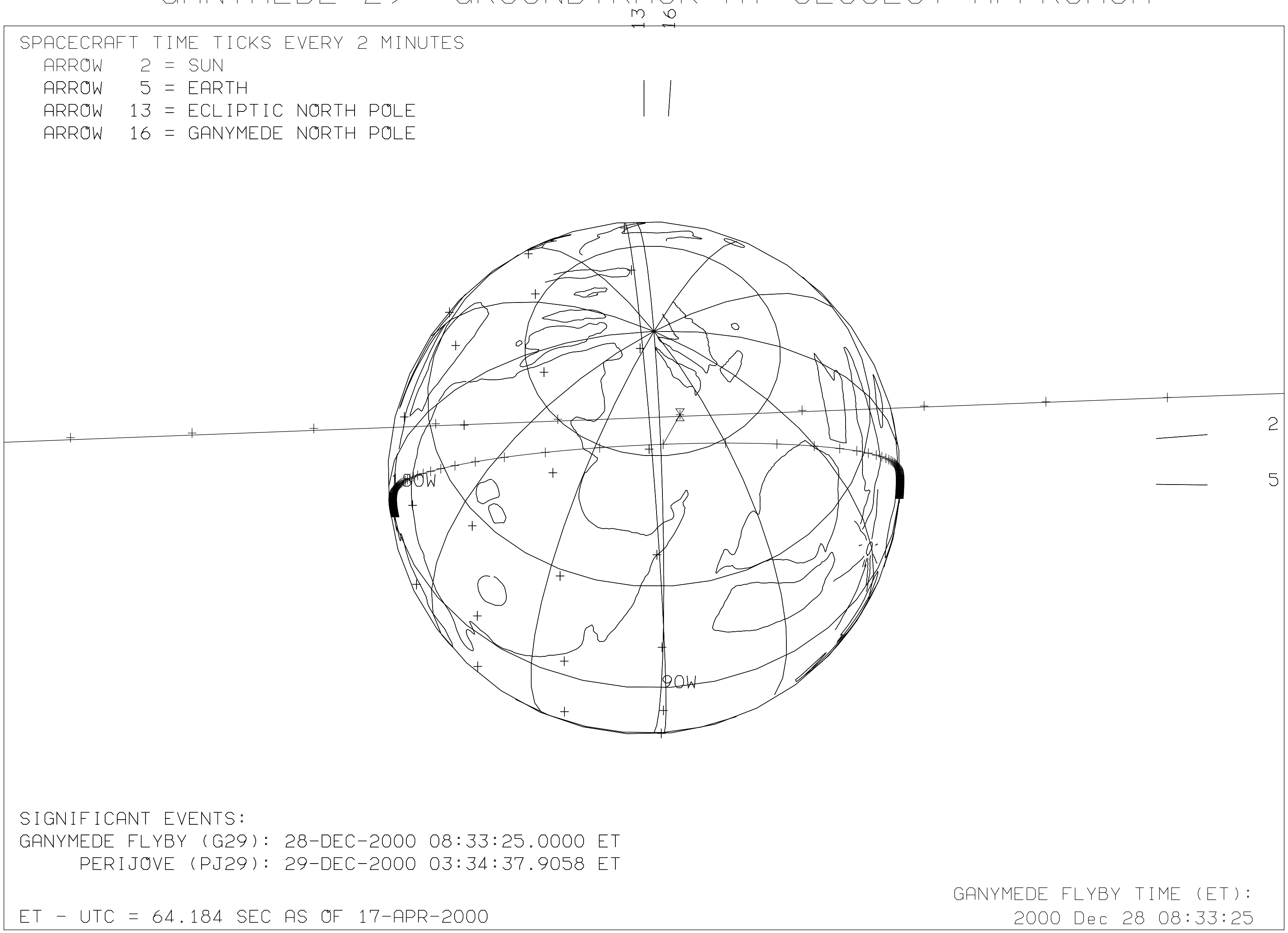
NAV 4/18/00

GANYMEDE 29: N. TRAJ POLE VIEW (+/- 1 HR)



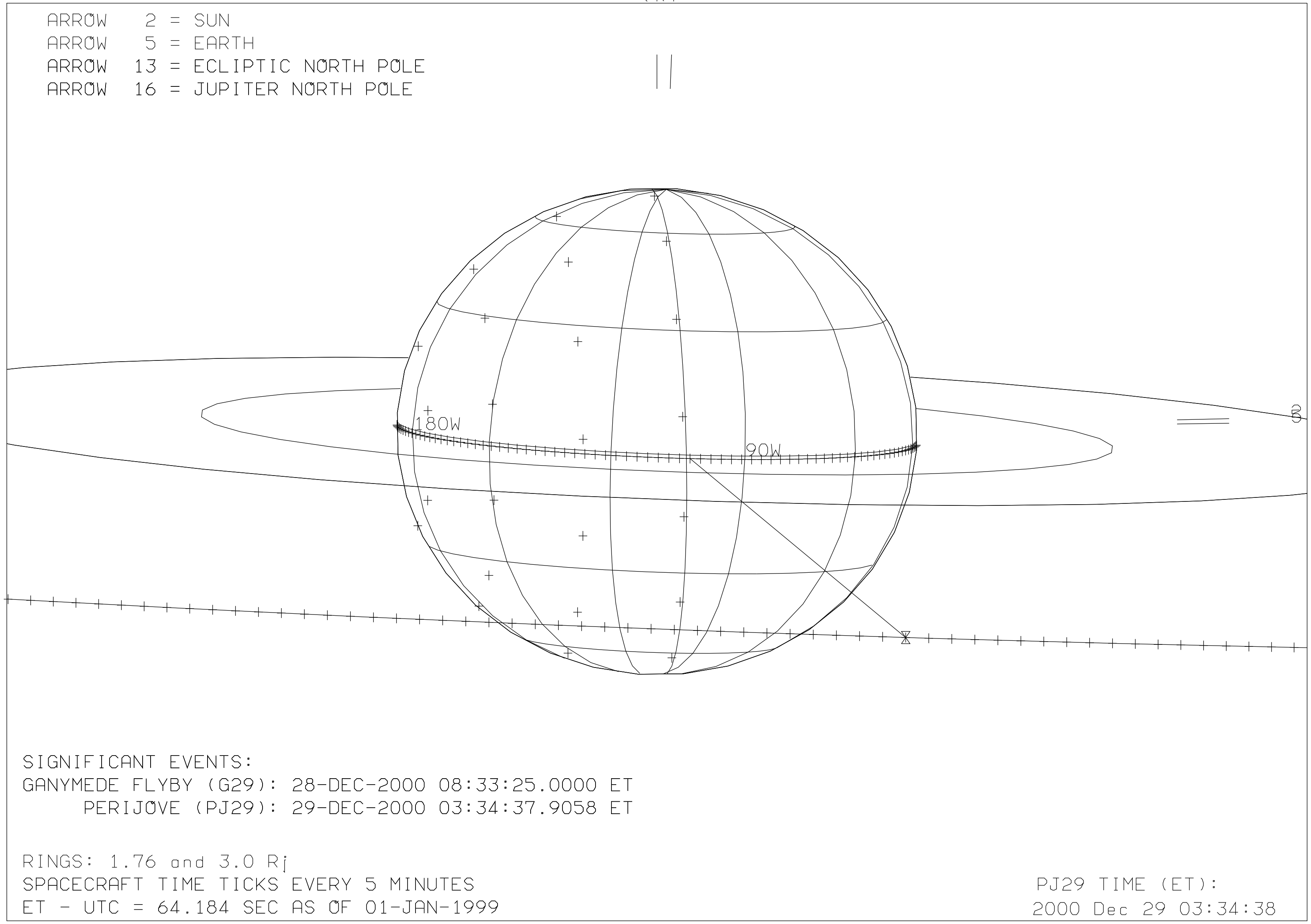
NAV 4/18/00

GANYMEDE 29: GROUNDTRACK AT CLOSEST APPROACH



NAV Apr 17, 2000

JUPITER 29: GROUNDTRACK AT CLOSEST APPROACH



NAV Apr 17, 2000