Chapter 3 - Orbit Geometries

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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the I24 Orbit.

The figure on page 3 is a North Trajectory Pole View of the I24 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the I24 Orbit from +/- 5 days of Io closest approach.

The figure on page 5 is a North Trajectory Pole View of the I24 Orbit from +/- 2 days of Io closest approach.

The figure on page 6 is a North Trajectory Pole View of the I24 Orbit from +/- 1 day of Io closest approach.

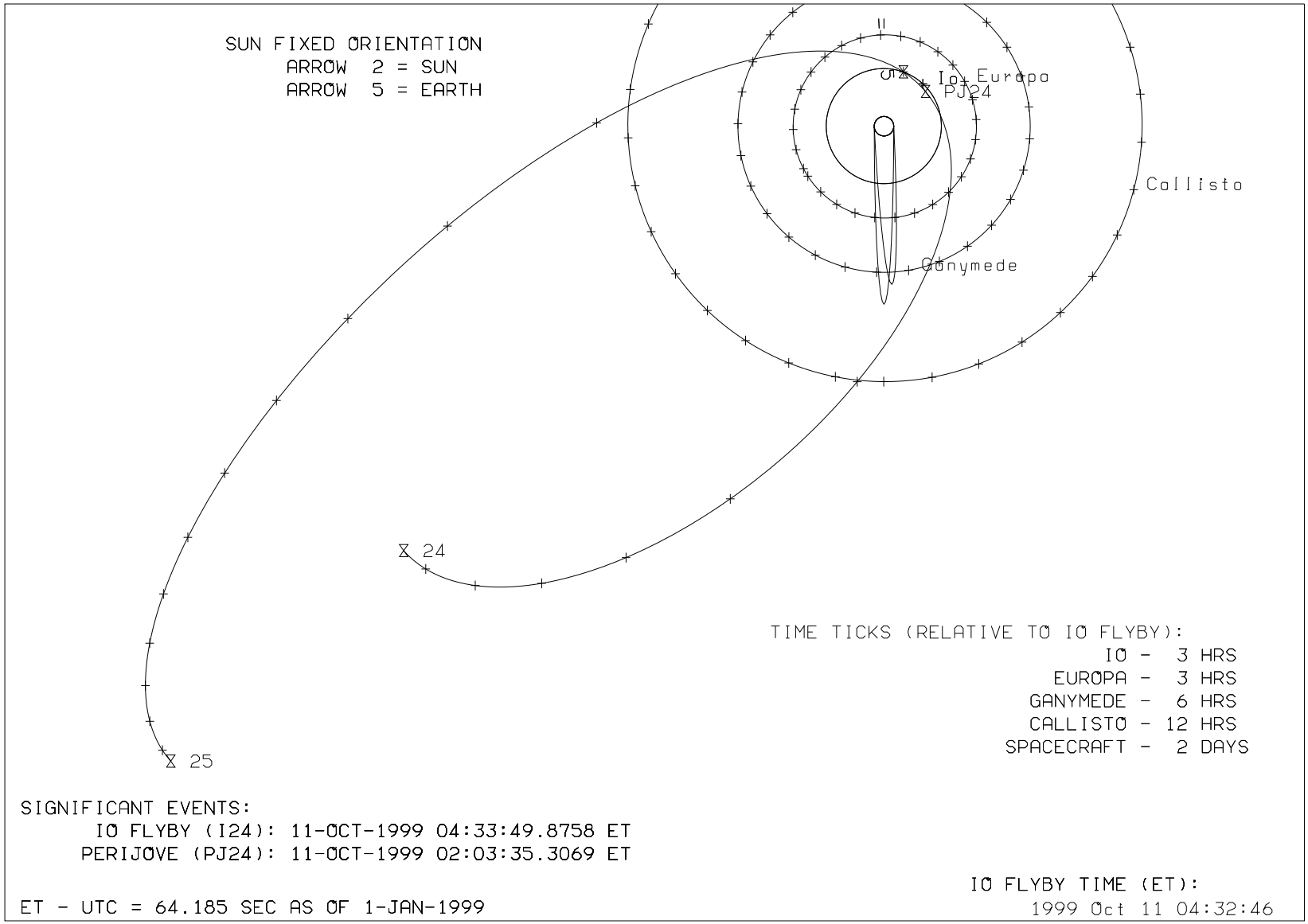
The figure on page 7 shows the spacecraft’s groundtrack on Jupiter at Jupiter closest approach.

The figure on page 8 is a North Trajectory Pole View of the I24 Orbit from +/- 6 hours of Io closest approach.

The figure on page 9 is a North Trajectory Pole View of the I24 Orbit from +/- 1 hour of Io closest approach.

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

Jupiter 24: North Traj Pole View (Io24 Apo to Apo)



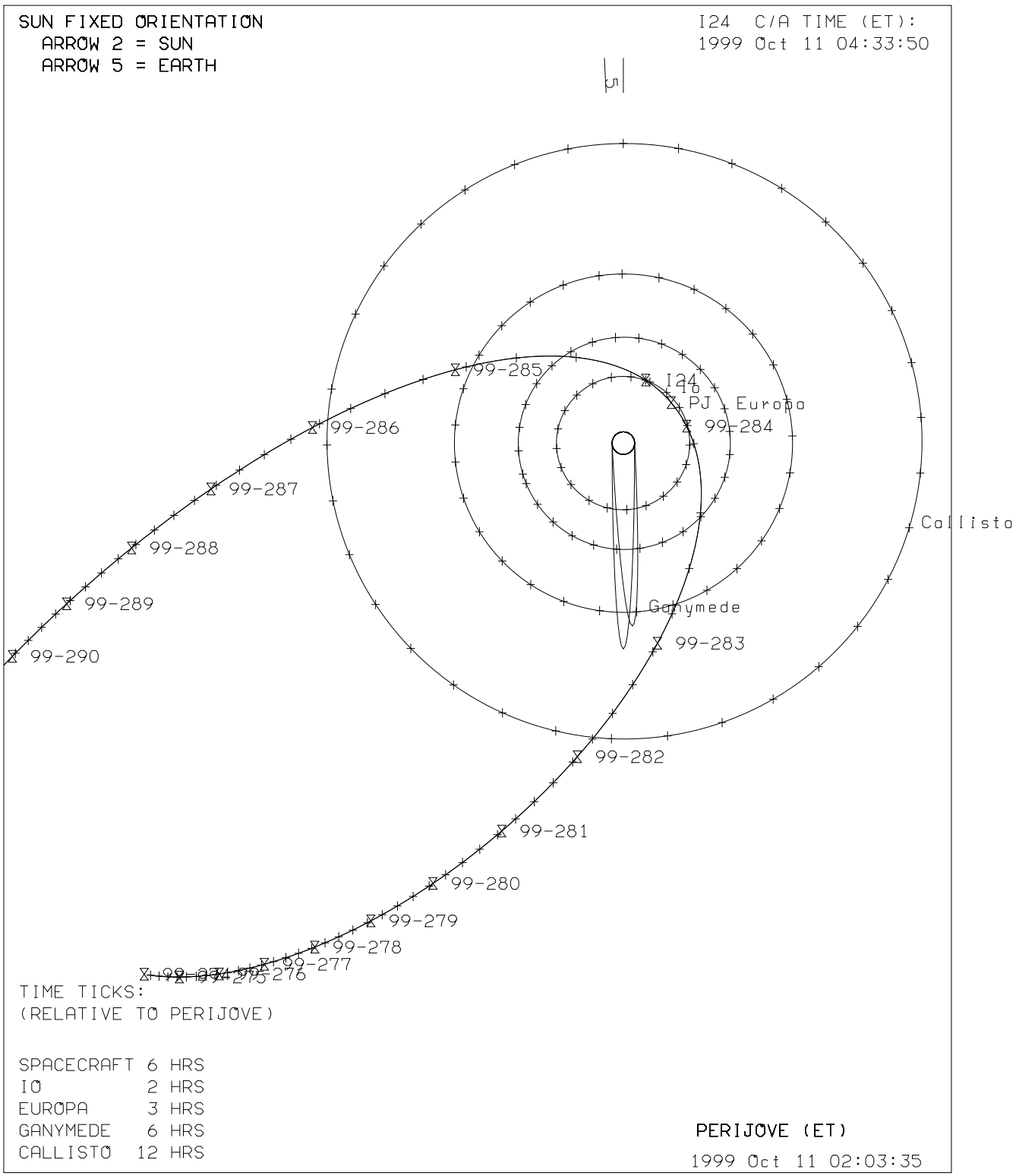
SIGNIFICANT EVENTS:
IO FLYBY (I24): 11-OCT-1999 04:33:49.8758 ET
PERIJOVE (PJ24): 11-OCT-1999 02:03:35.3069 ET

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

IO FLYBY TIME (ET):
1999 Oct 11 04:32:46

NAV Feb 4, 1999

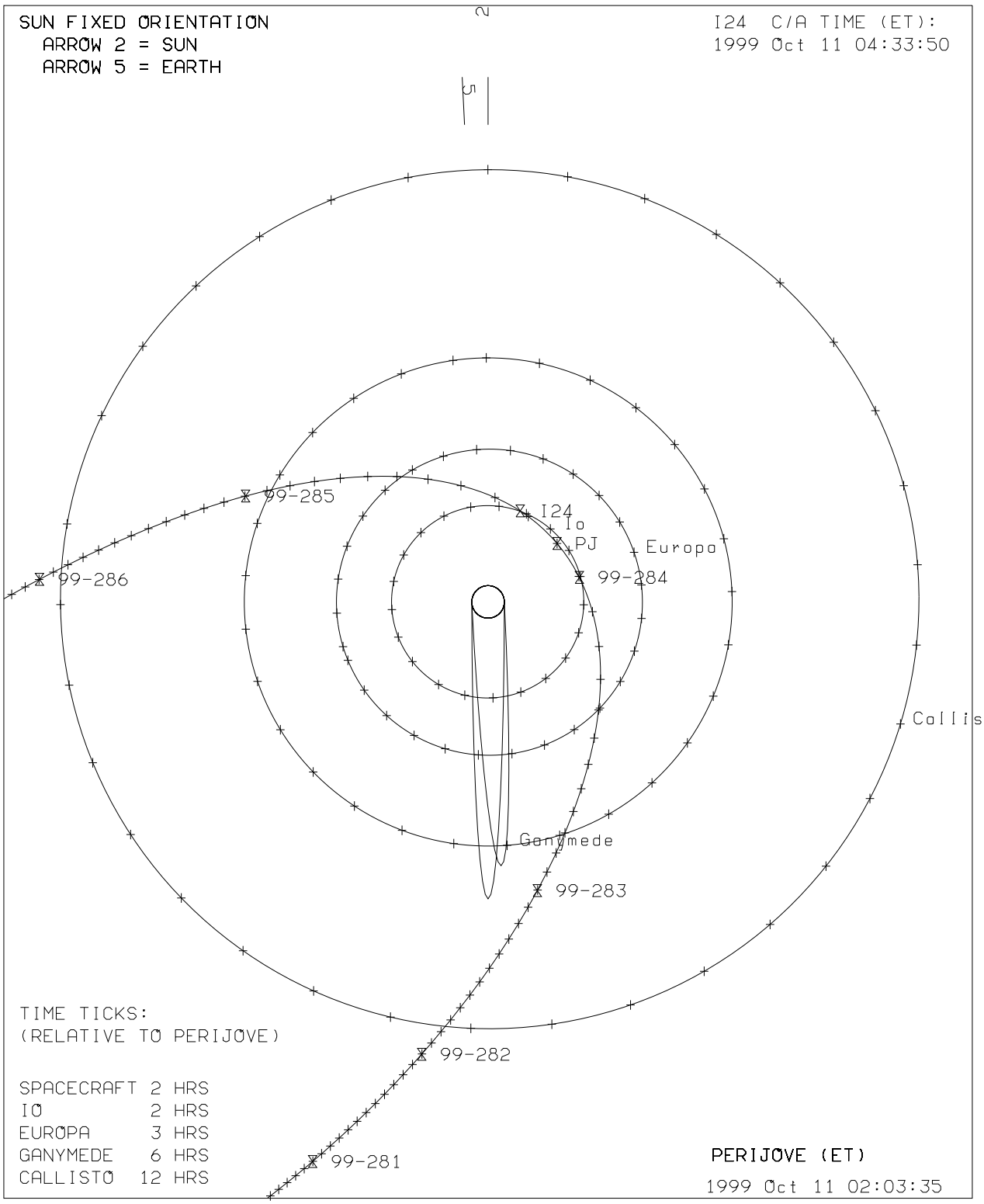
JUPITER 24: N. TRAJ. POLE VIEW (+/- 5 DAYS)



GEM-990114

NAV Feb 4, 1999

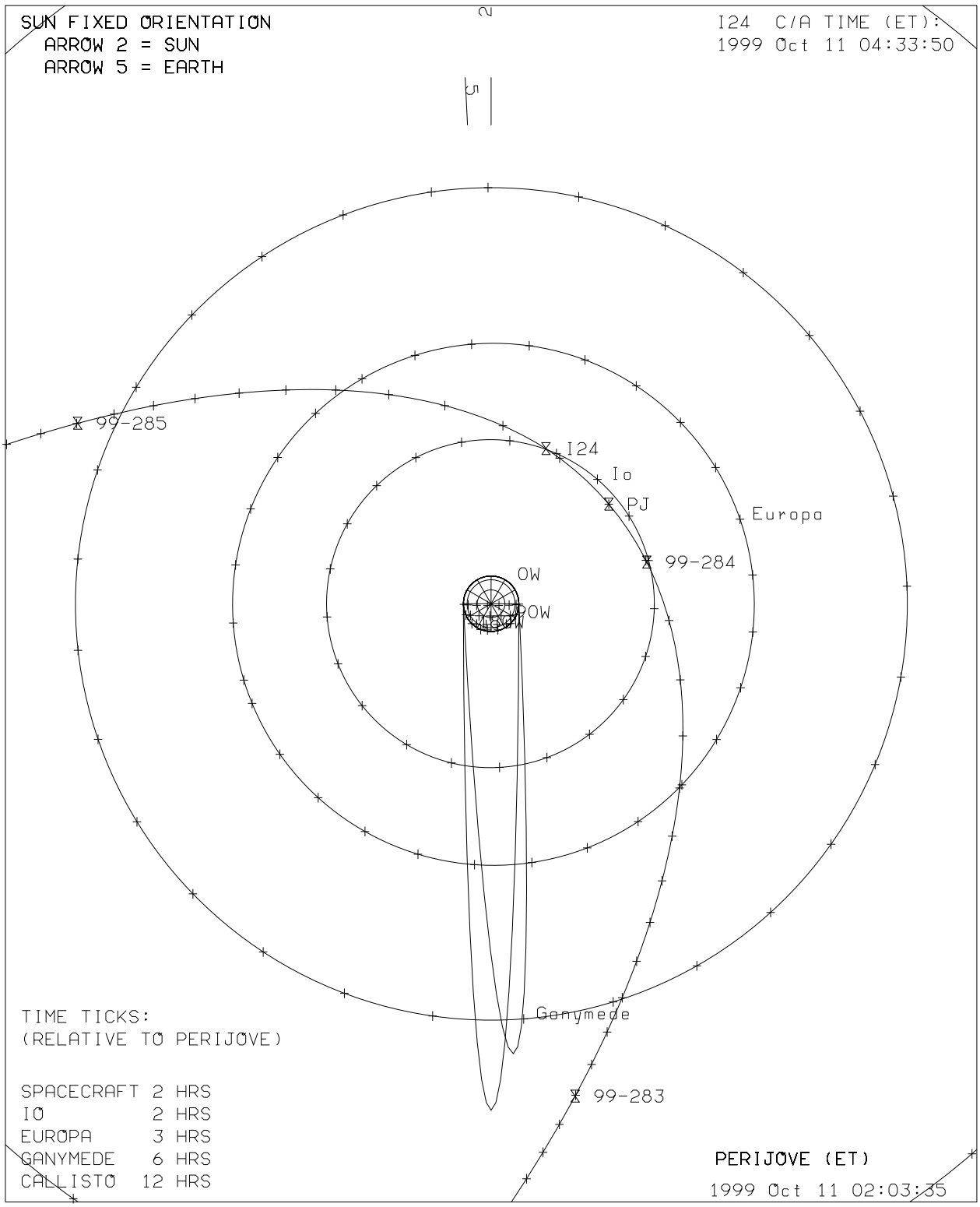
JUPITER 24: N. TRAJ. POLE VIEW (+/- 2 DAYS)



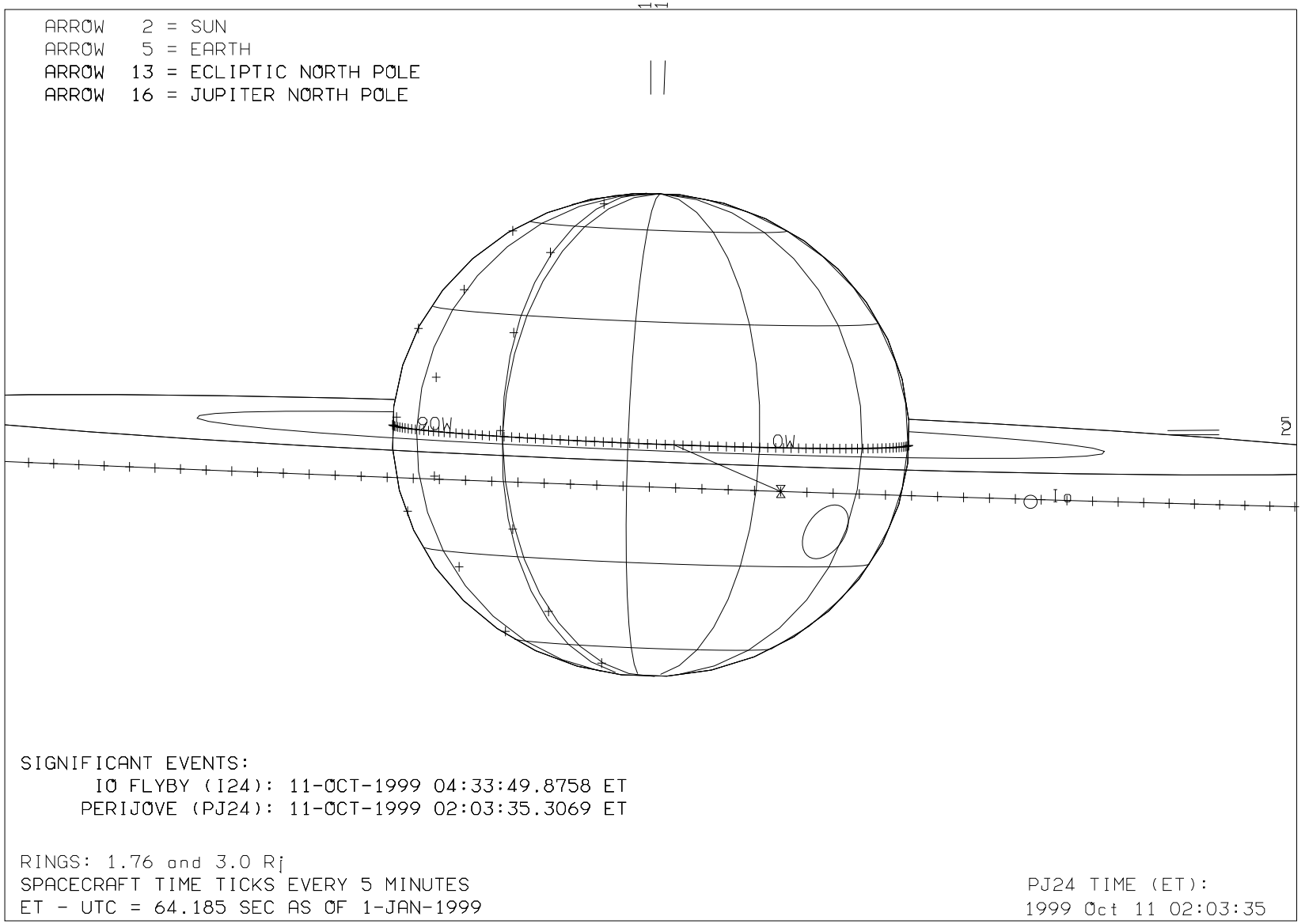
GEM-990114

NAV Feb 4, 1999

JUPITER 24: N. TRAJ. POLE VIEW (+/- 1 DAY)



JUPITER 24: GROUNDTRACK AT CLOSEST APPROACH



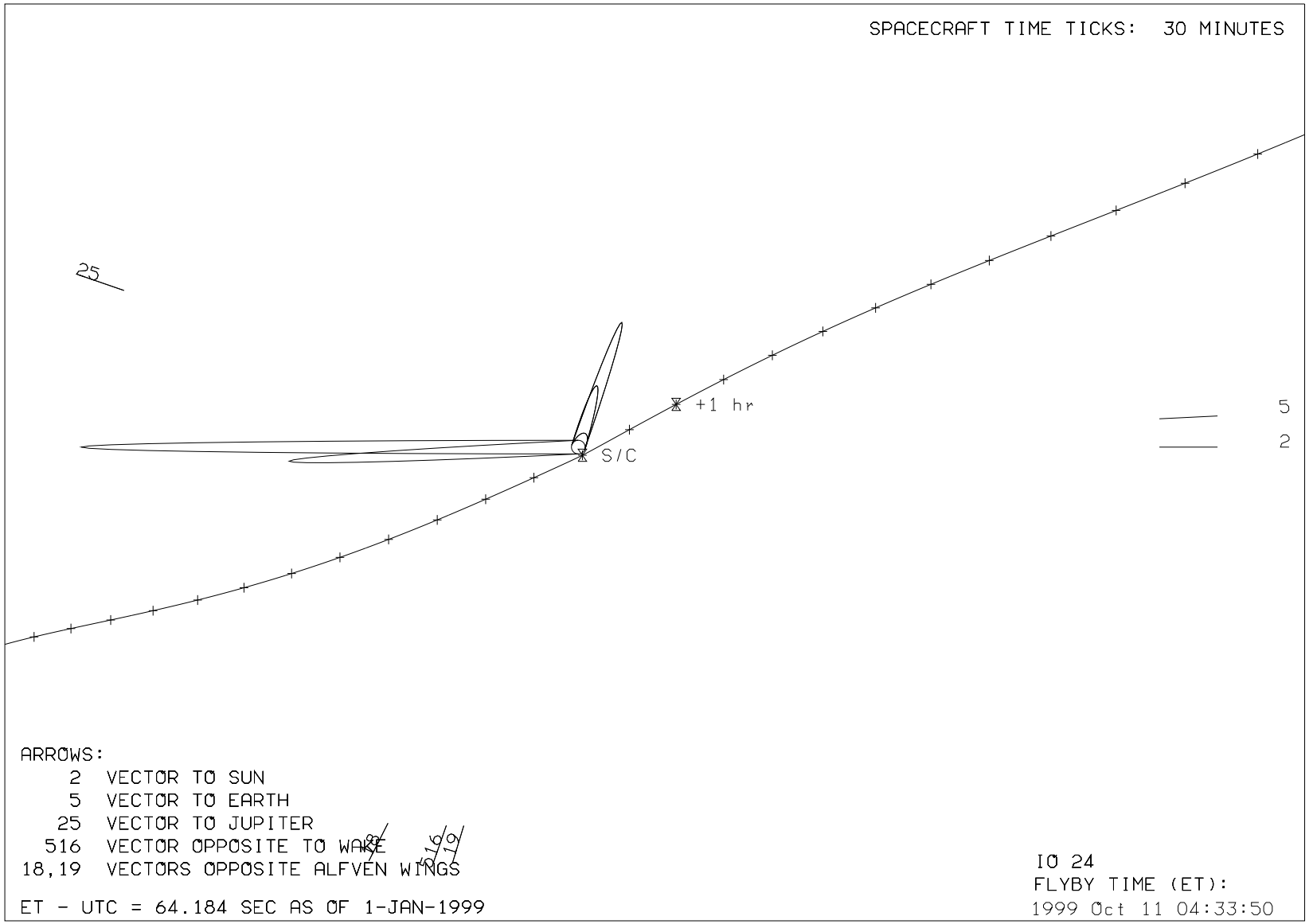
SIGNIFICANT EVENTS:
IO FLYBY (I24): 11-OCT-1999 04:33:49.8758 ET
PERIJOVE (PJ24): 11-OCT-1999 02:03:35.3069 ET

RINGS: 1.76 and 3.0 Rj
SPACECRAFT TIME TICKS EVERY 5 MINUTES
ET - UTC = 64.185 SEC AS OF 1-JAN-1999

PJ24 TIME (ET):
1999 Oct 11 02:03:35

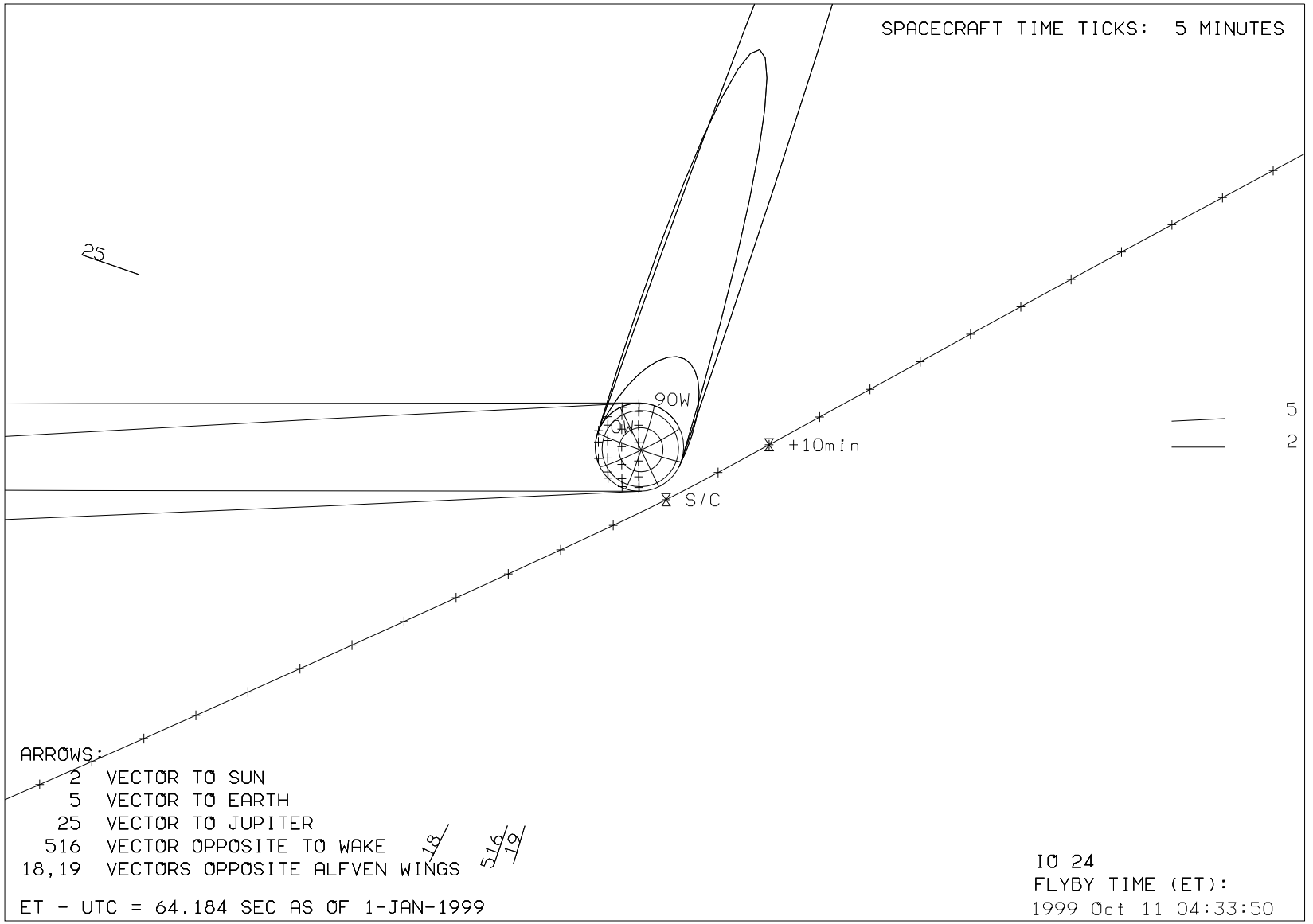
NAV Feb 4, 1999

IO 24: N. TRAJ POLE VIEW (+/- 6 HRS)



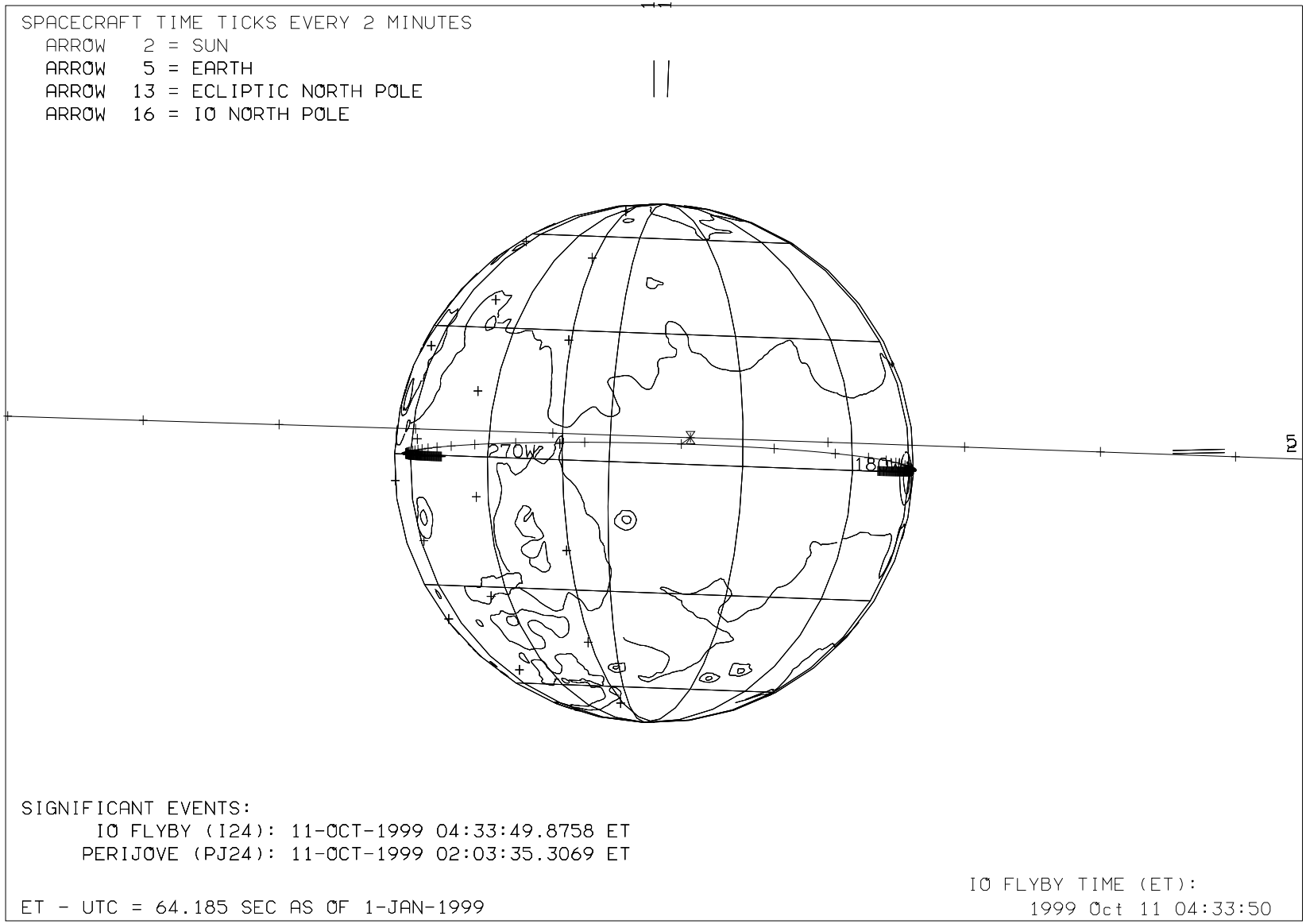
NAV 2/9/99

IO 24: N. TRAJ POLE VIEW (+/- 1 HR)



NAV 2/9/99

IO 24: GROUNDTRACK AT CLOSEST APPROACH



NAV Feb 4, 1999