Chapter 3 - Orbit Geometries

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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the I25 Orbit.

The figure on page 3 is a North Trajectory Pole View of the I25 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the I25 Orbit from +/- 5 days of Io closest approach.

The figure on page 5 is a North Trajectory Pole View of the I25 Orbit from +/- 2 days of Io closest approach.

The figure on page 6 is a North Trajectory Pole View of the I25 Orbit from +/- 1 day of Io closest approach.

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

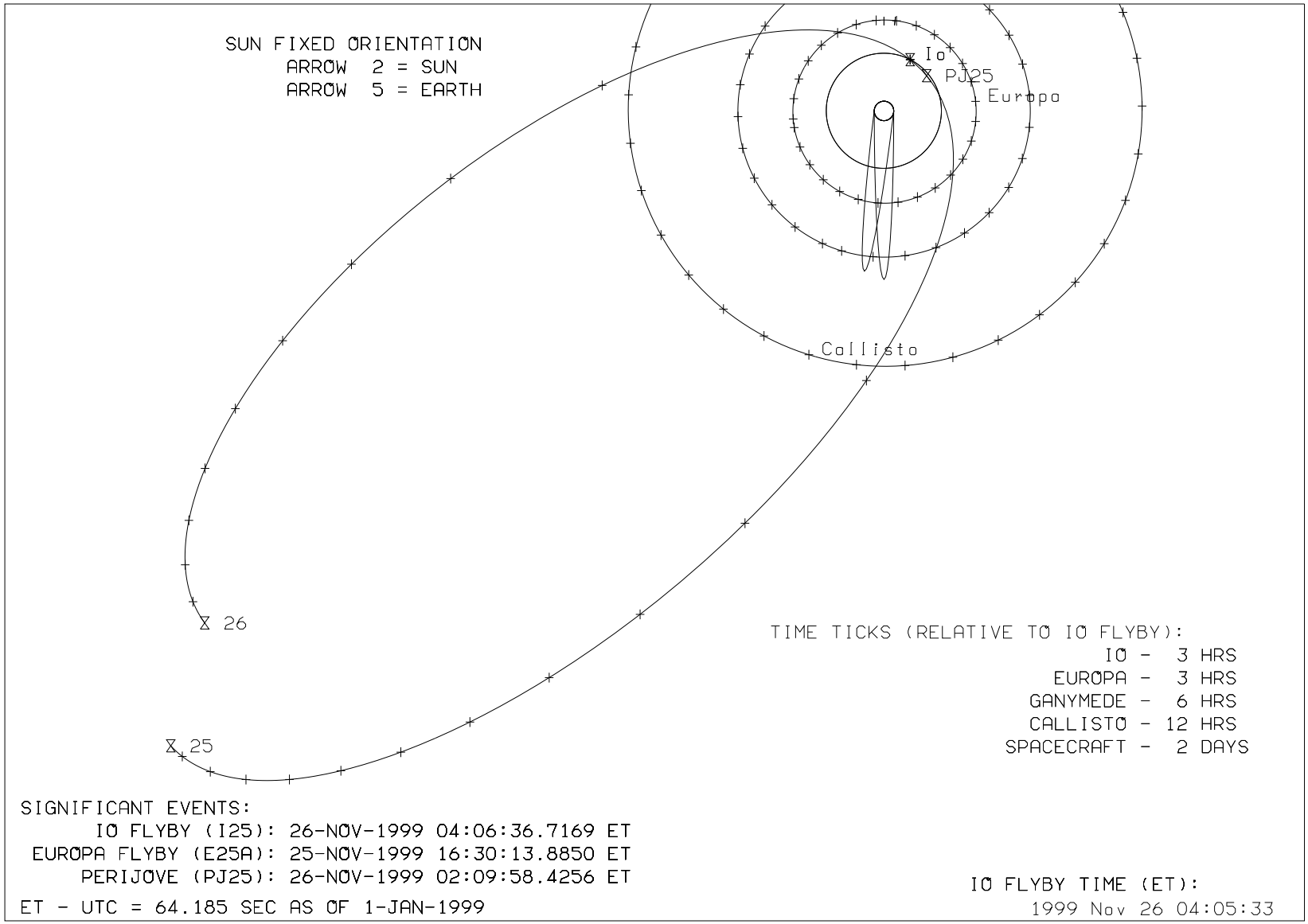
The figure on page 8 is a North Trajectory Pole View of the I25 Orbit from +/- 6 hours of Io closest approach.

The figure on page 9 is a North Trajectory Pole View of the I25 Orbit from +/- 1 hour of Io closest approach.

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

The figure on page 11 is a North Trajectory Pole View of the I25 Orbit from +/- 1 hour of Europa closest approach.

Jupiter 25: North Traj Pole View (^{25}Io25 Apo to Apo)



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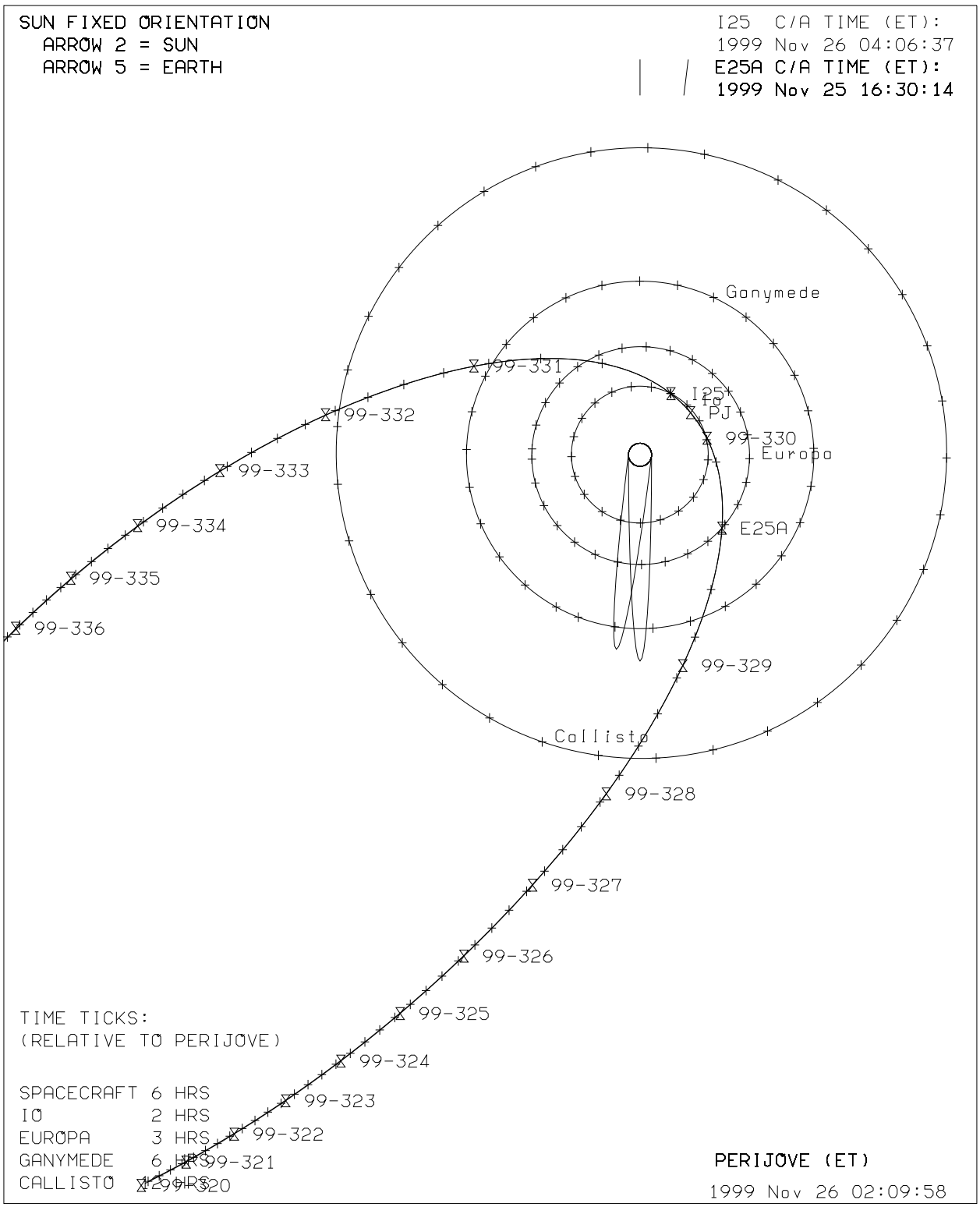
JUPITER 25: N. TRAJ. POLE VIEW (+/- 5 DAYS)



GEM-990114

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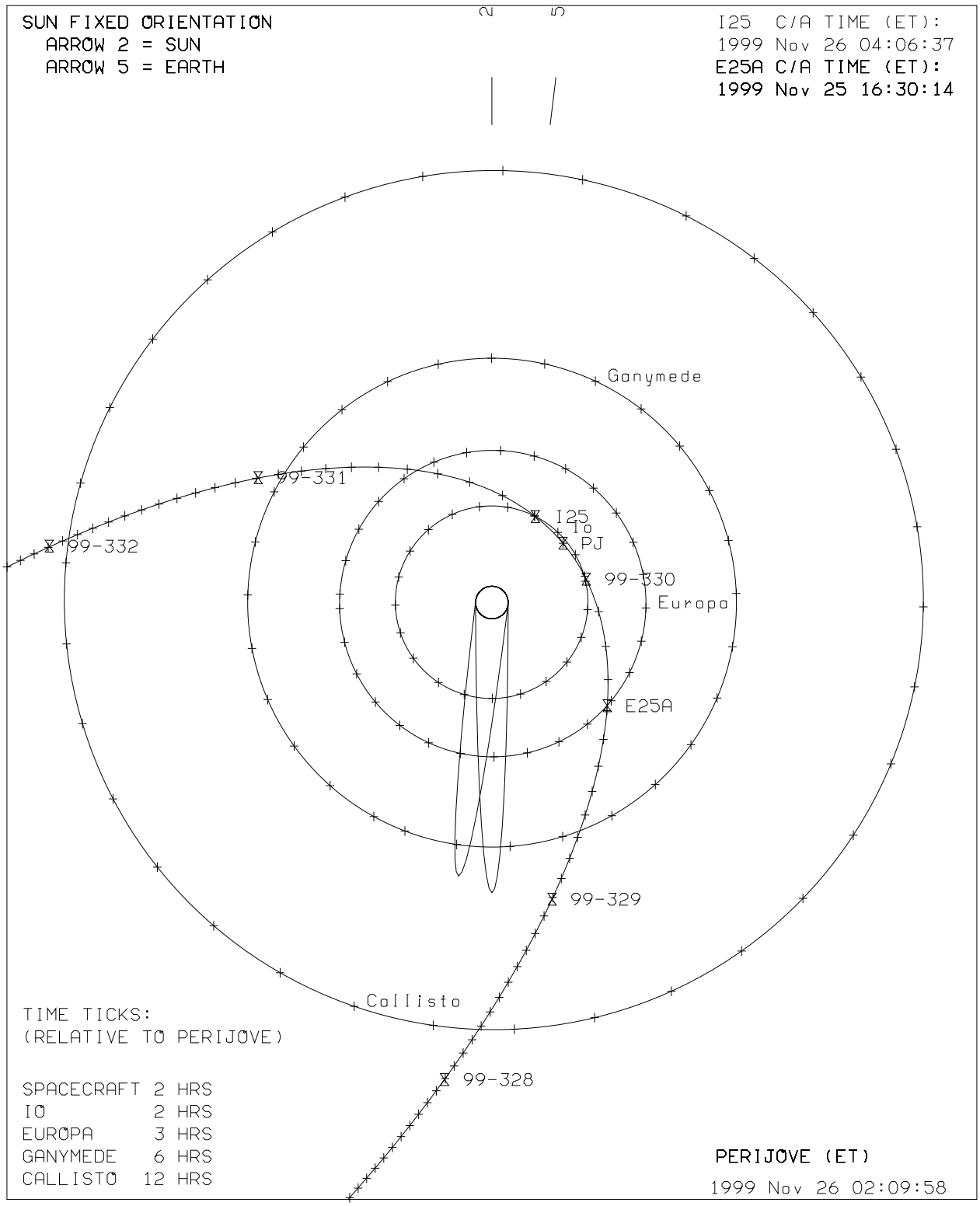
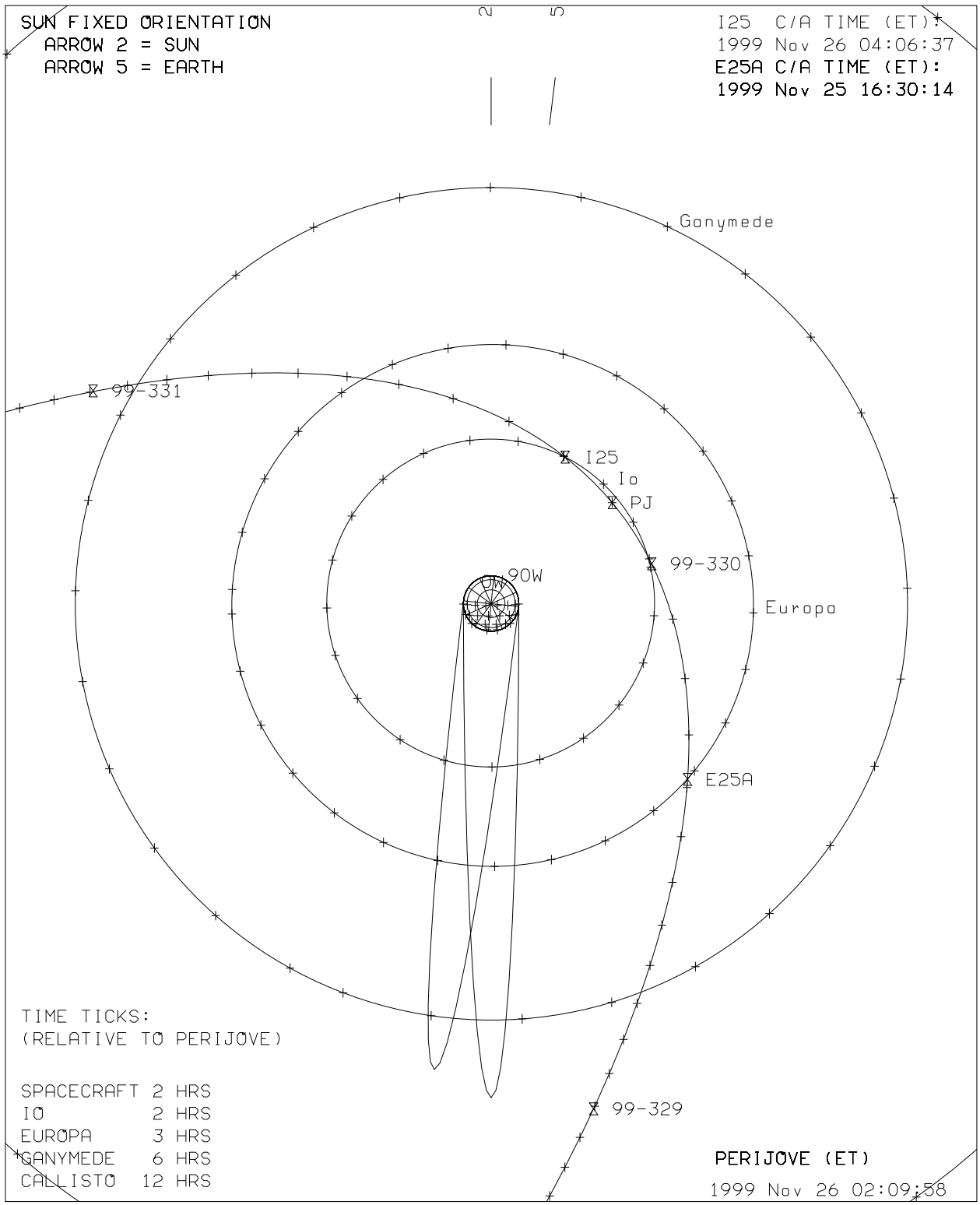
JUPITER 25: N. TRAJ. POLE VIEW (+/- 2 DAYS)



GEM-990114

NAV Feb 4, 1999

JUPITER 25: N. TRAJ. POLE VIEW (+/- 1 DAY)



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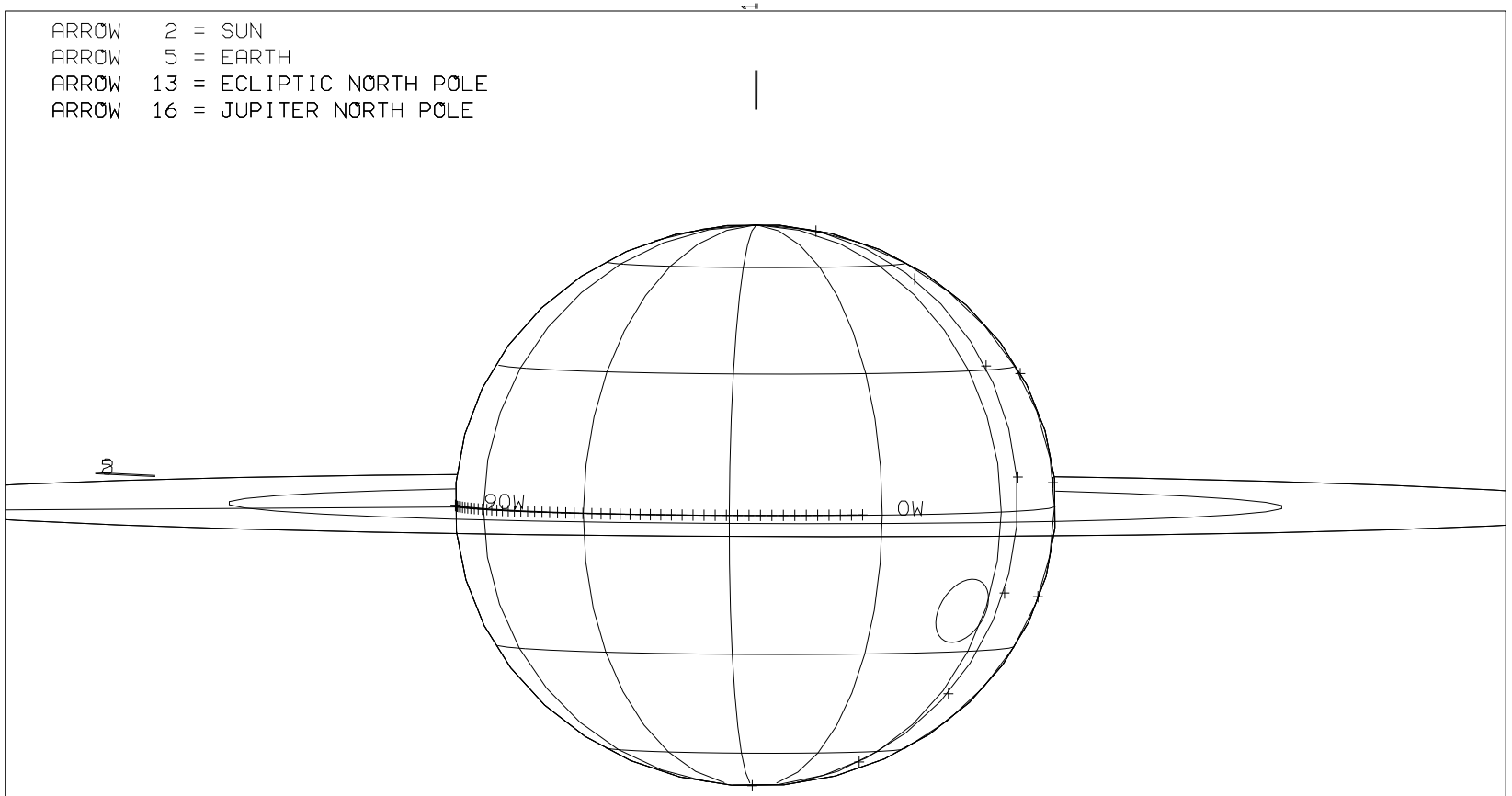
NAV Feb 4, 1999

JUPITER 25: GROUNDTRACK AT CLOSEST APPROACH



SIGNIFICANT EVENTS:

IO FLYBY (I25):	26-NOV-1999 04:06:36.7169 ET
EUROPA FLYBY (E25A):	25-NOV-1999 16:30:13.8850 ET
PERIJOVE (PJ25):	26-NOV-1999 02:09:58.4256 ET

RINGS: 1.76 and 3.0 Rj

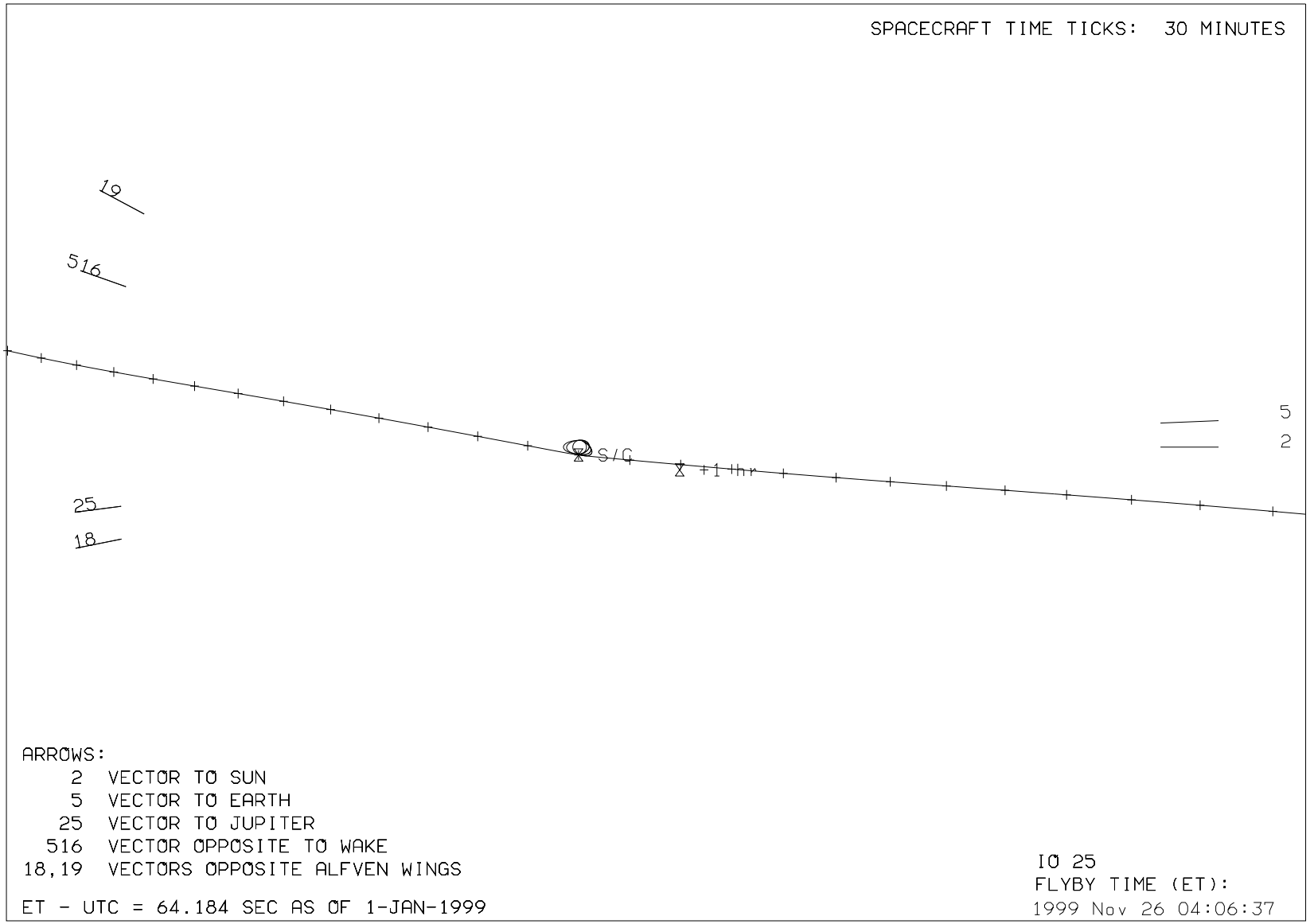
SPACECRAFT TIME TICKS EVERY 5 MINUTES

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

PJ25 TIME (ET):
1999 Nov 26 02:09:58

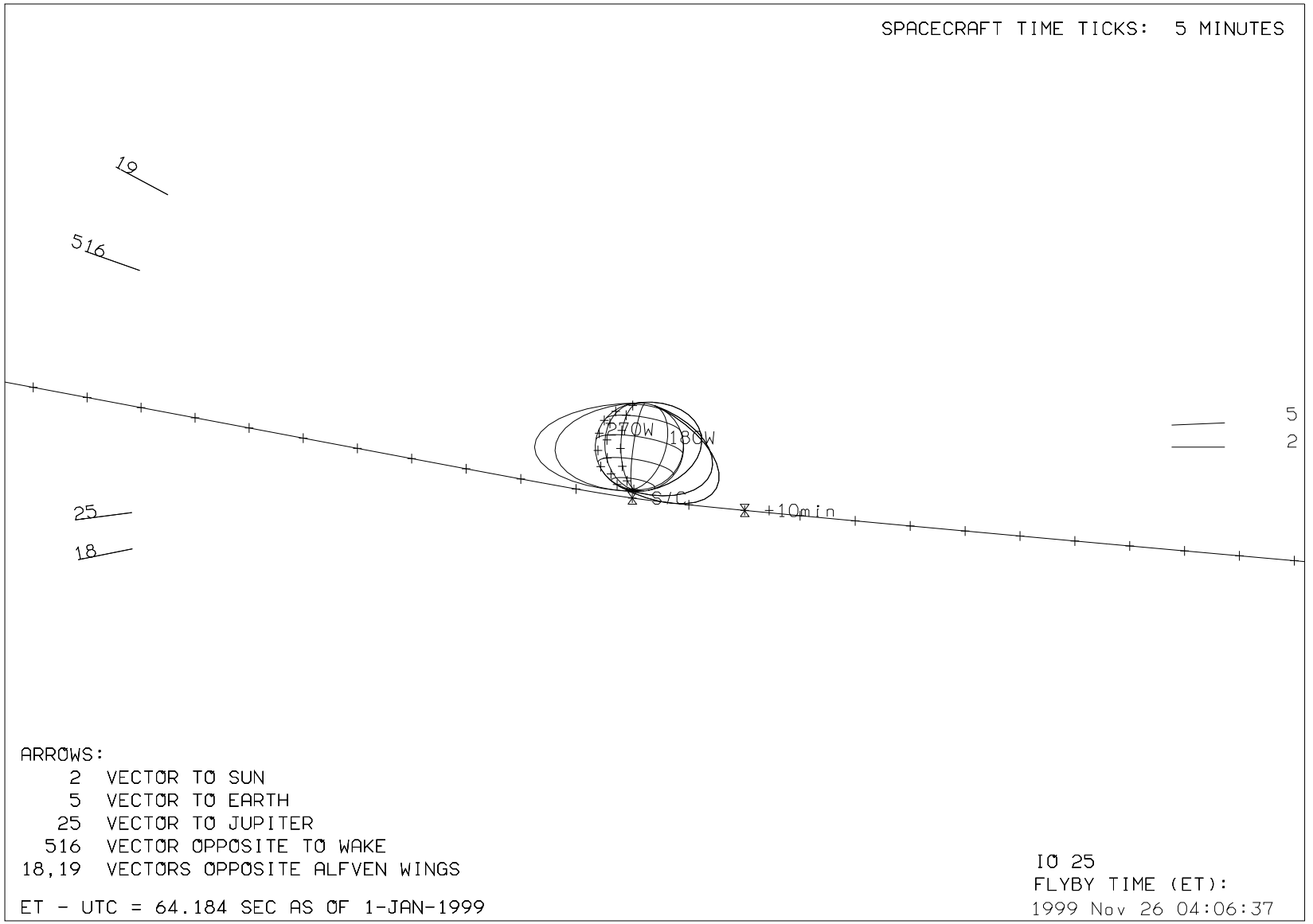
NAV Feb 4, 1999

IO 25: N. TRAJ POLE VIEW (+/- 6 HRS)



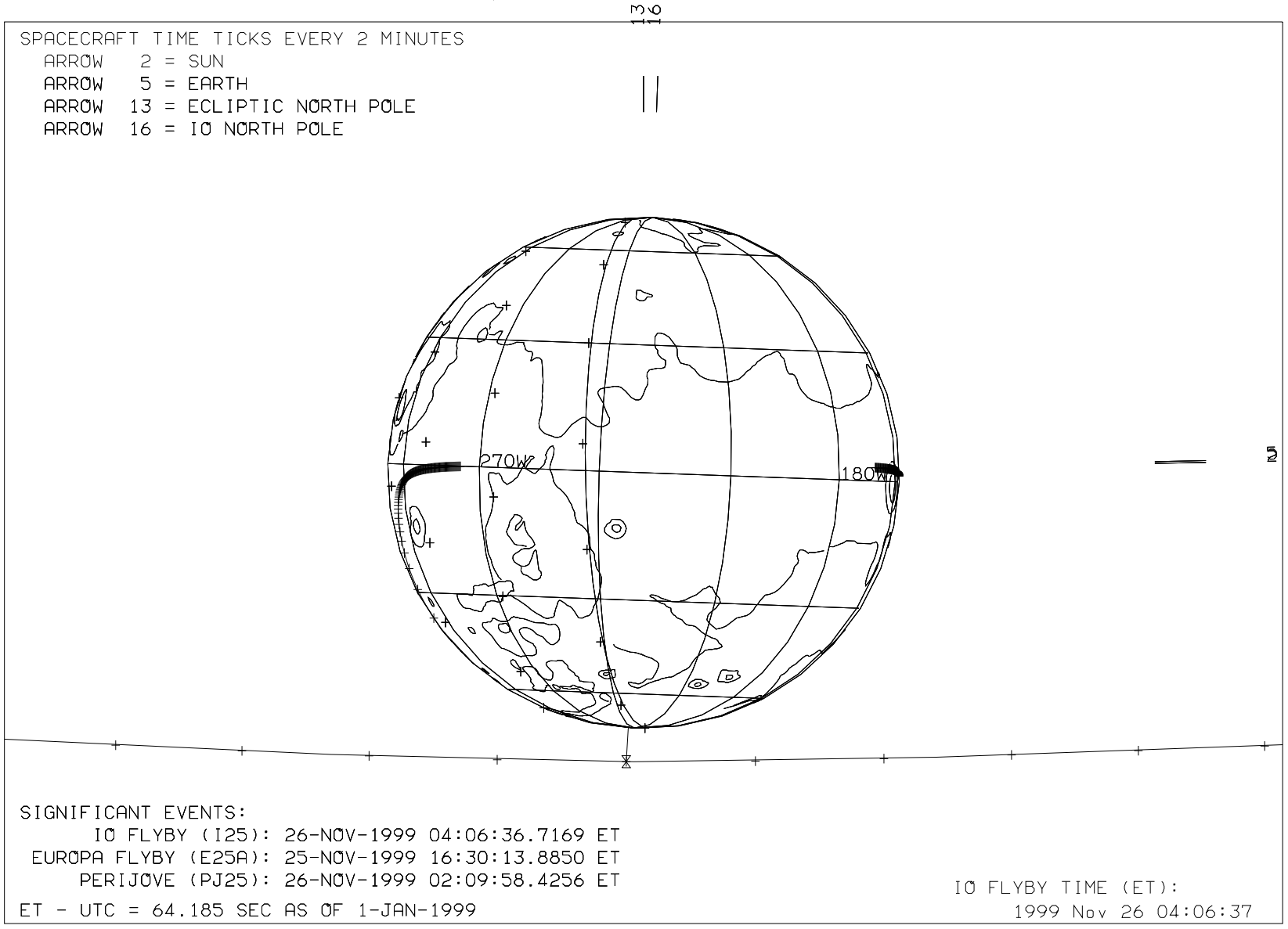
NAV 2/9/99

IO 25: N. TRAJ POLE VIEW (+/- 1 HR)



NAV 2/9/99

IO 25: GROUNDTRACK AT CLOSEST APPROACH



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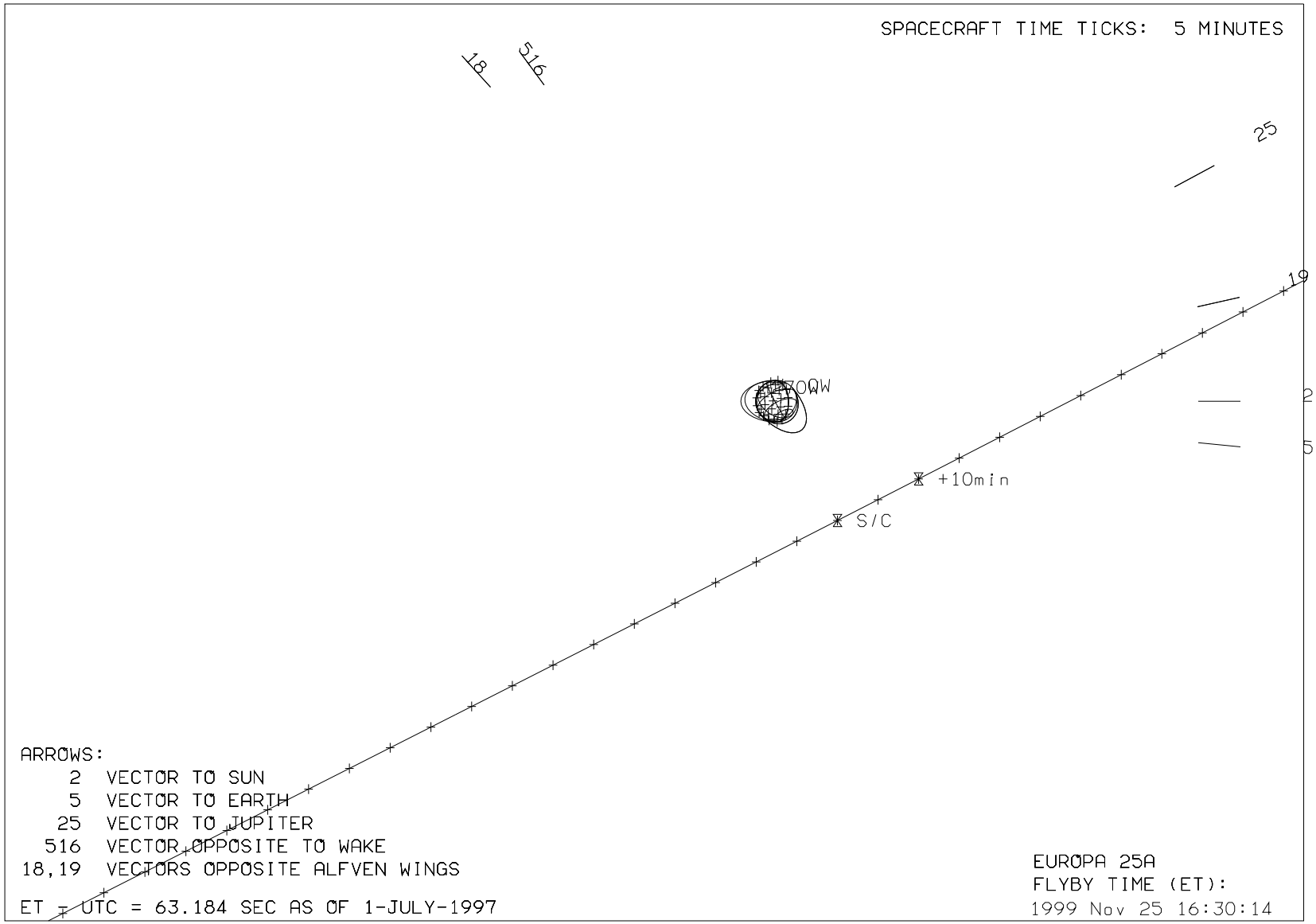
EUROPA 25A: N. TRAJ POLE VIEW (+/- 1 HR)



NAV 2.9/99