Chapter 3 - Orbit Geometries

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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the E16 Orbit.

The figure on page 3 is a North Trajectory Pole View of the E16 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the E16 Orbit from +/- 5 days of Europa closest approach.

The figure on page 5 is a North Trajectory Pole View of the E16 Orbit from +/- 2 days of Europa closest approach.

The figure on page 6 is a North Trajectory Pole View of the E16 Orbit from +/- 1 day of Europa closest approach.

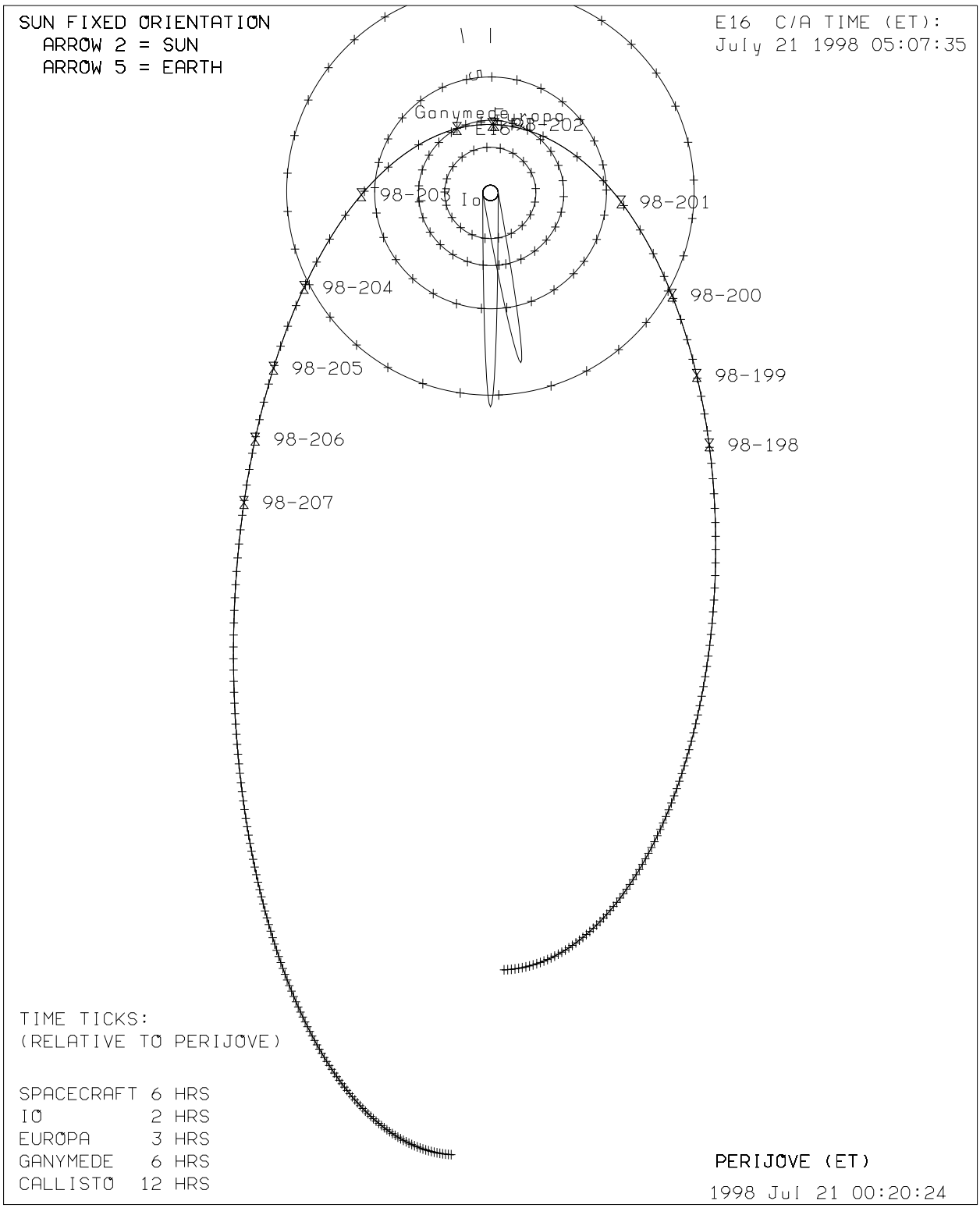
The figure on page 7 is a North Trajectory Pole View of the E16 Orbit from +/- 6 hours of Europa closest approach.

The figure on page 8 is a North Trajectory Pole View of the E16 Orbit from +/- 1 hour of Europa closest approach.

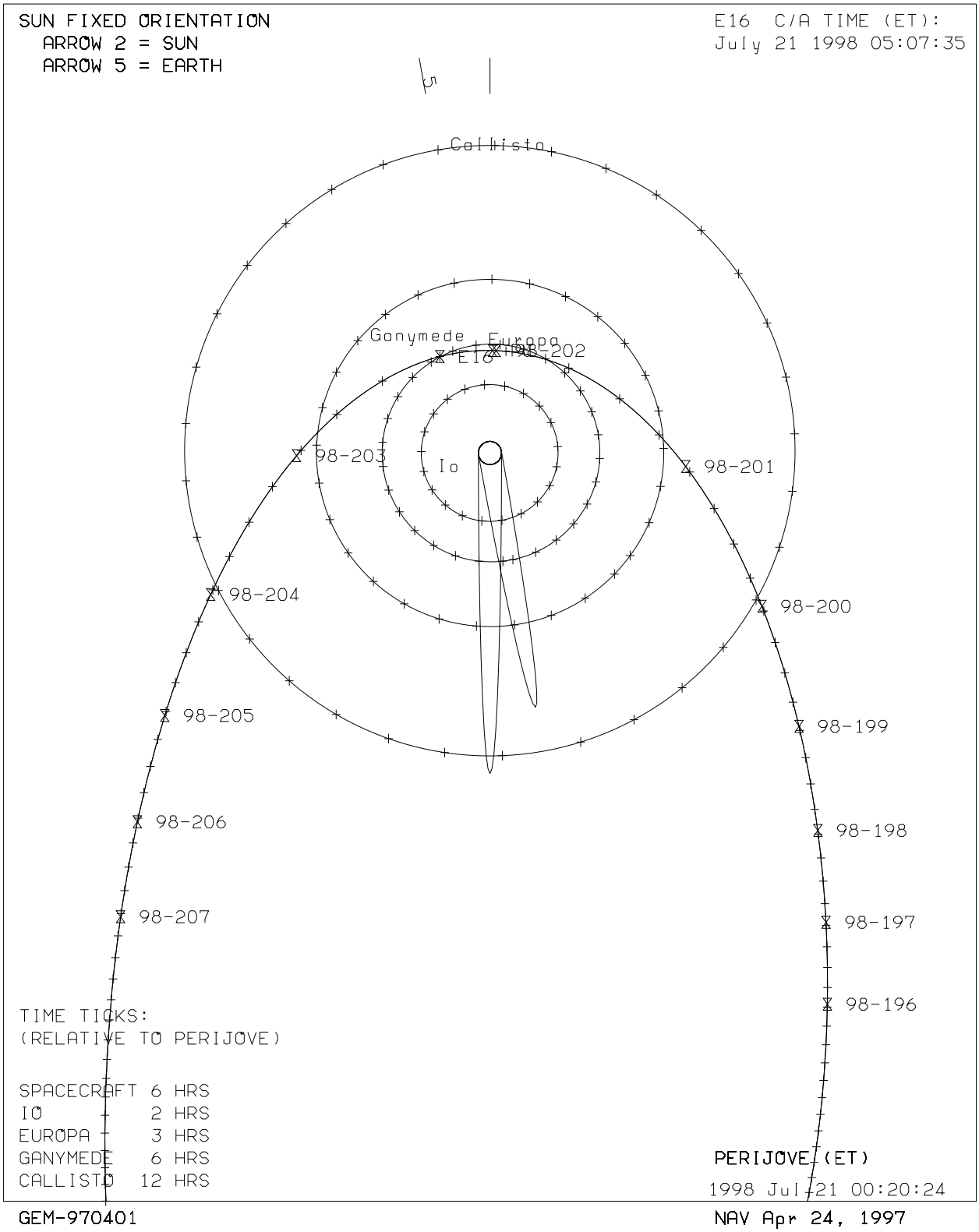
The figure on page 9 shows the spacecraft’s groundtrack on Europa at Europa closest approach.

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

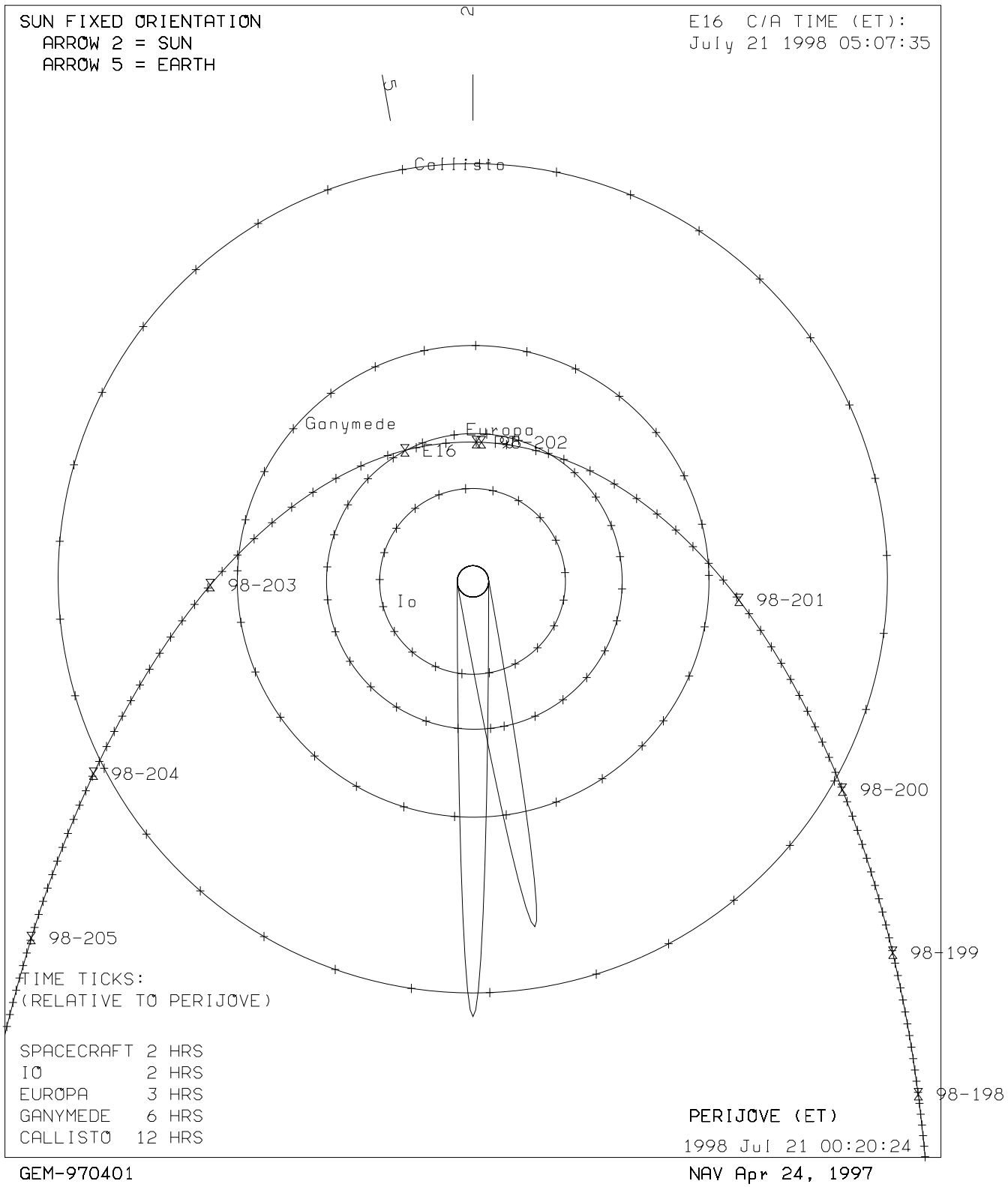
JUPITER 16: N. TRAJ. ~POLE VIEW (APO TO APO)



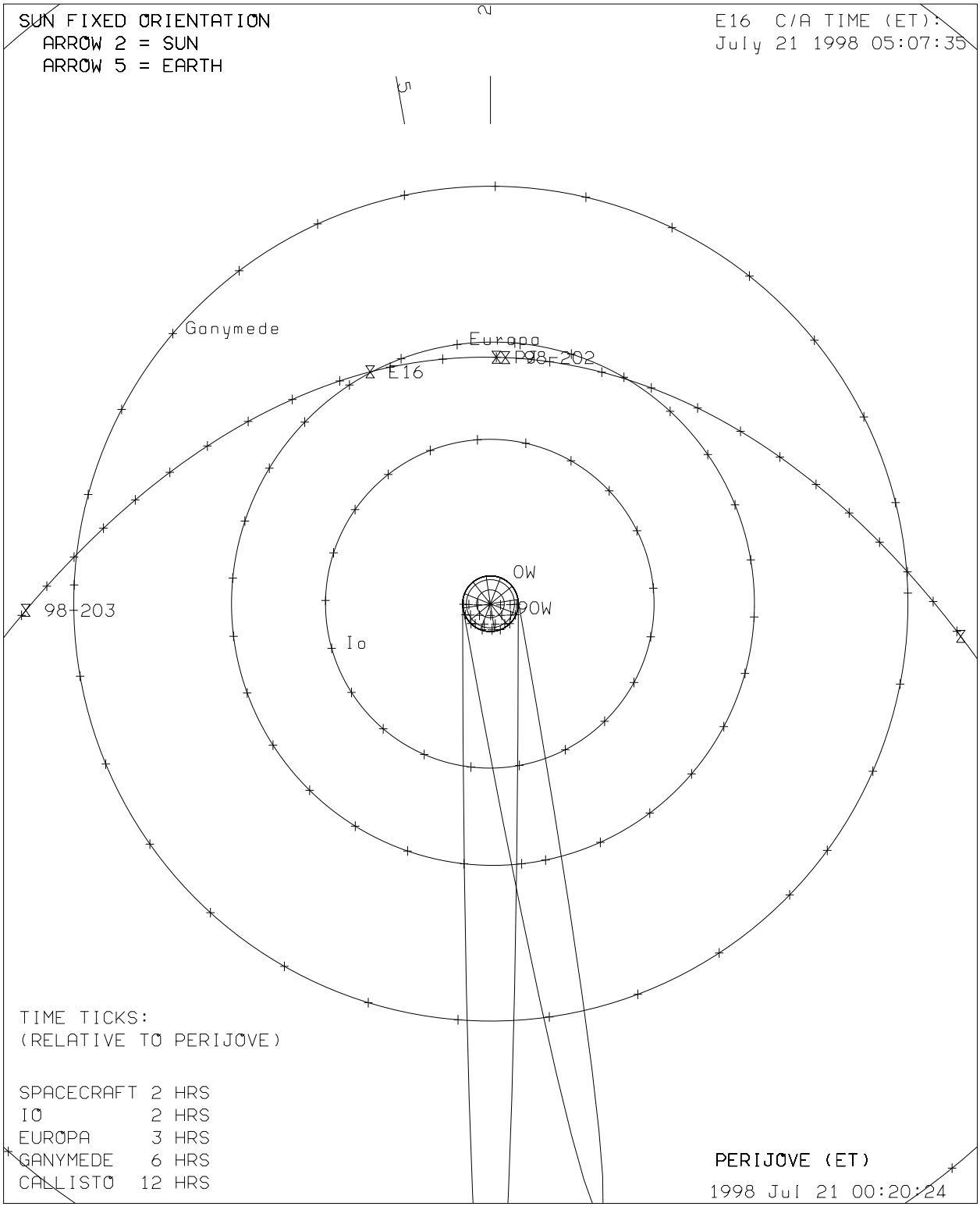
JUPITER 16: N. TRAJ. POLE VIEW (+/- 5 DAYS)



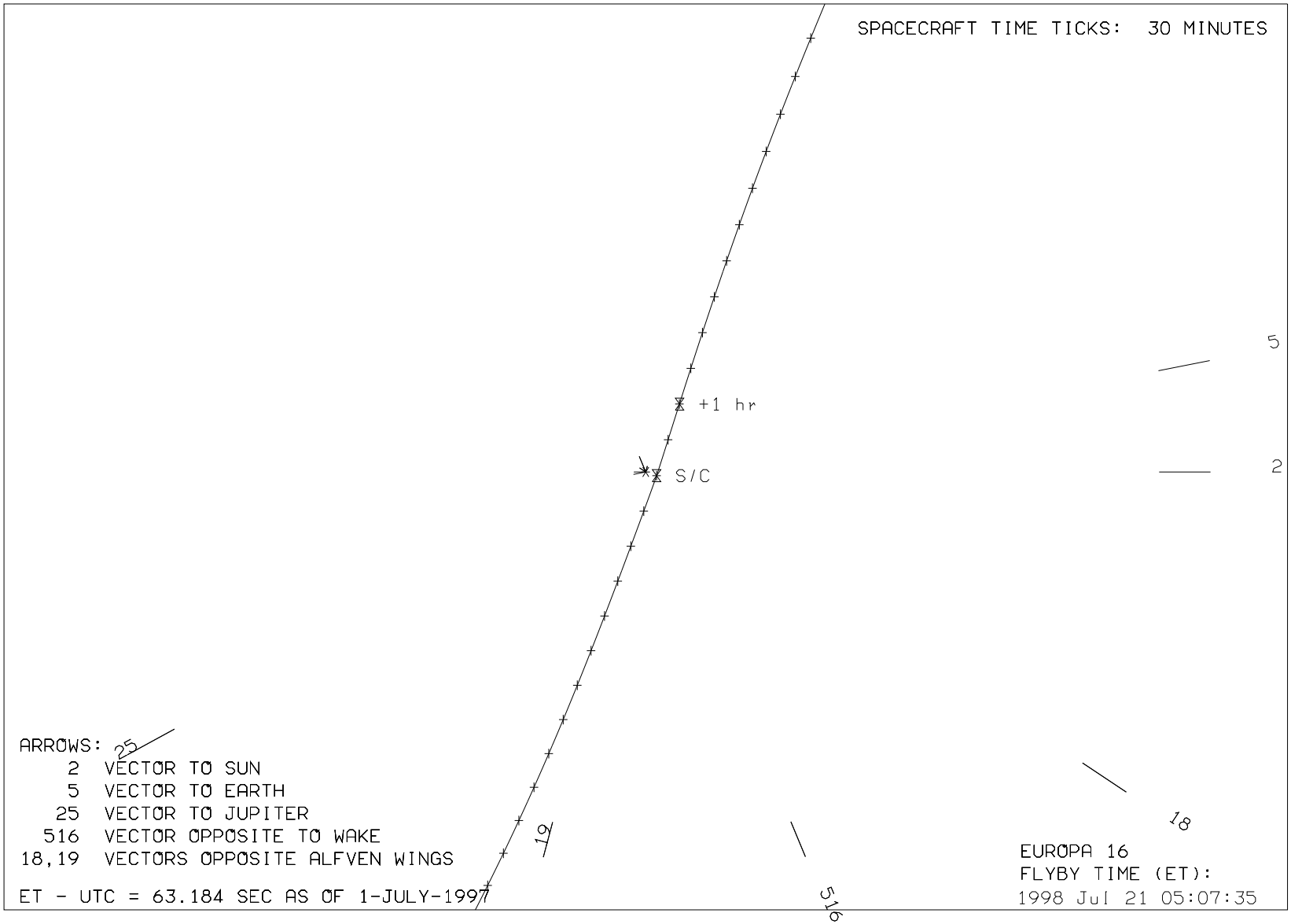
JUPITER 16: N. TRAJ. POLE VIEW (+/- 2 DAYS)



JUPITER 16: N. TRAJ. POLE VIEW (+/- 1 DAY)



EUROPA 16: N. TRAJ POLE VIEW (+/- 6 HRS)



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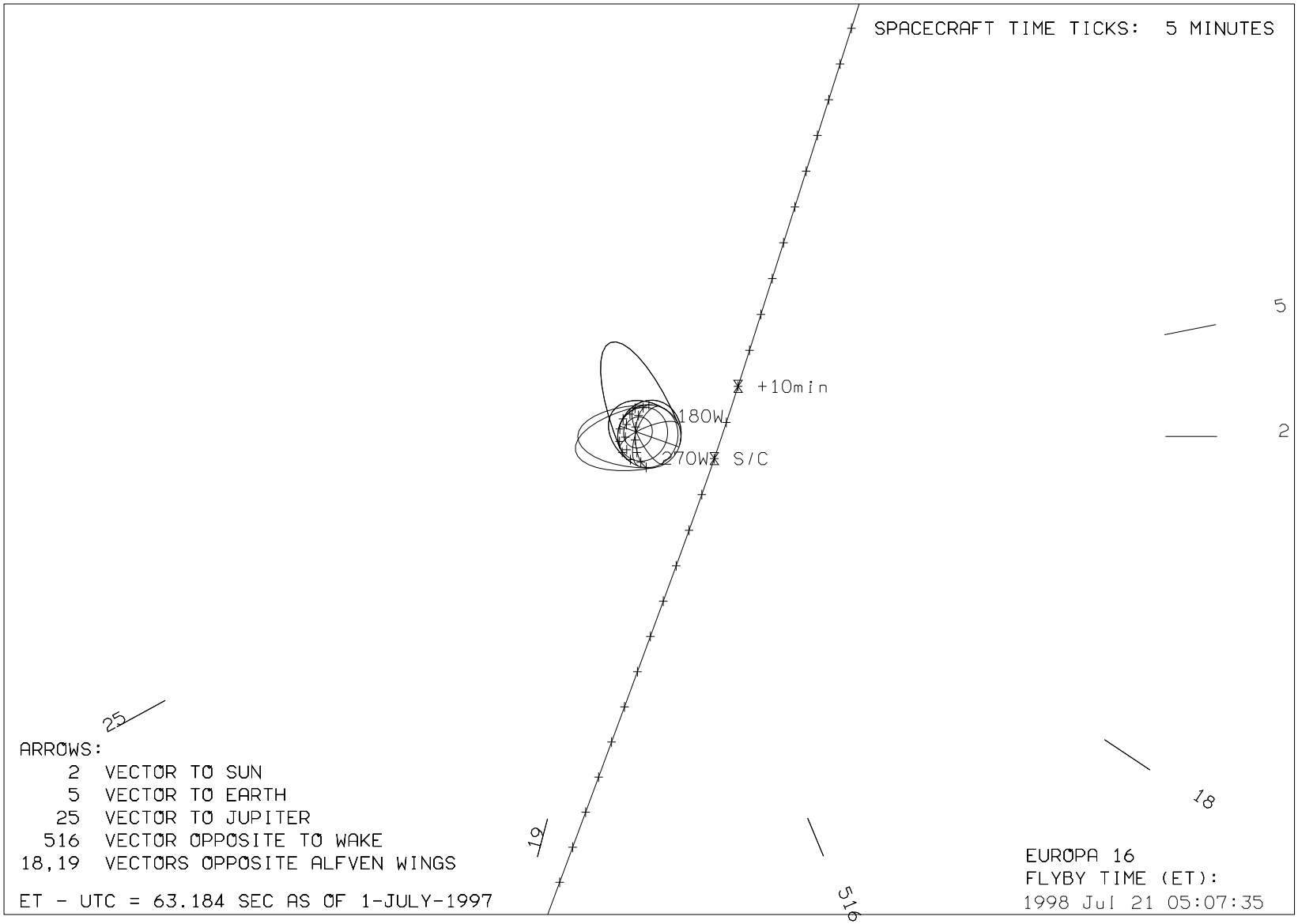
EUROPA 16: N. TRAJ POLE VIEW (+/- 1 HR)



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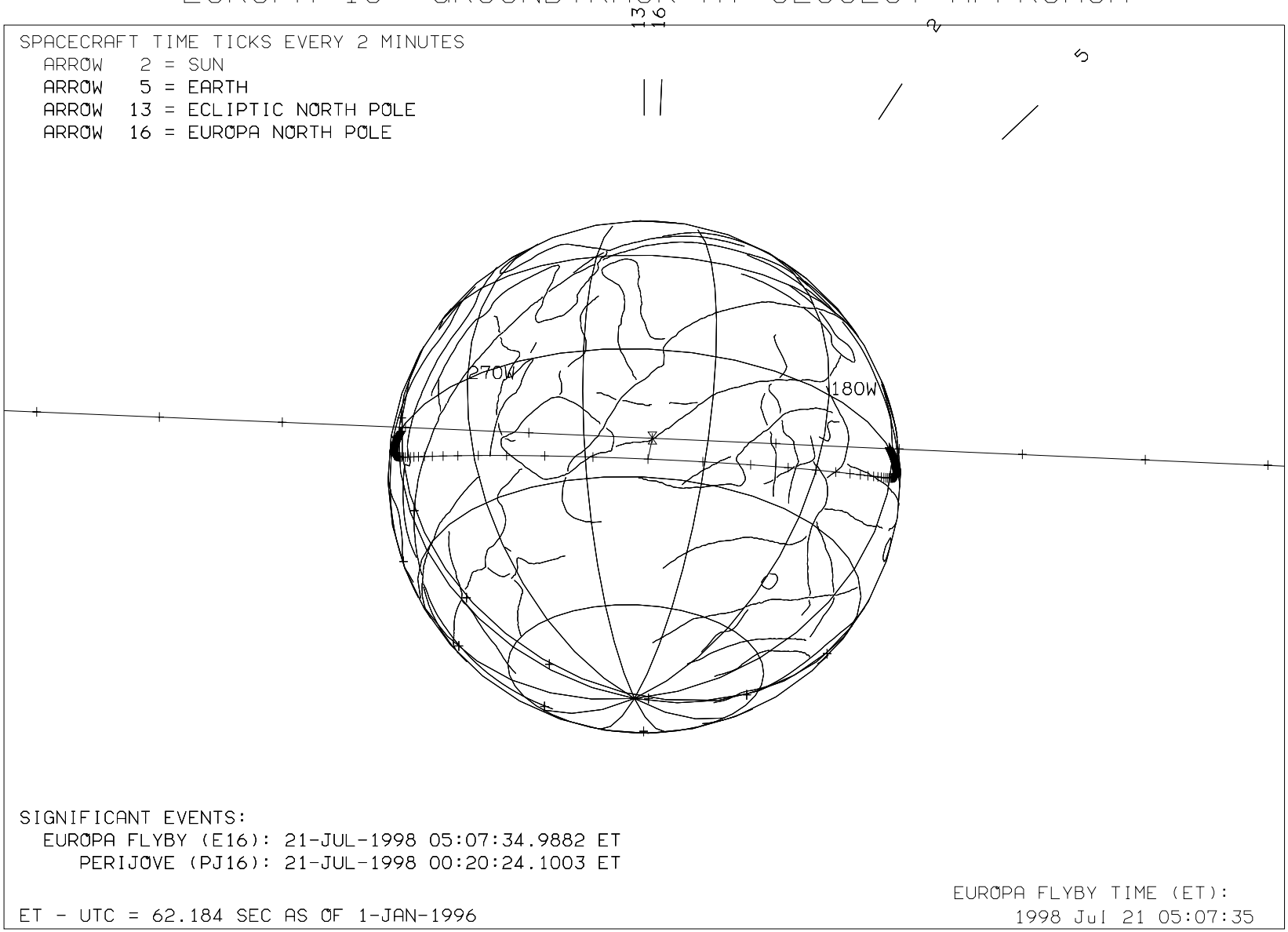
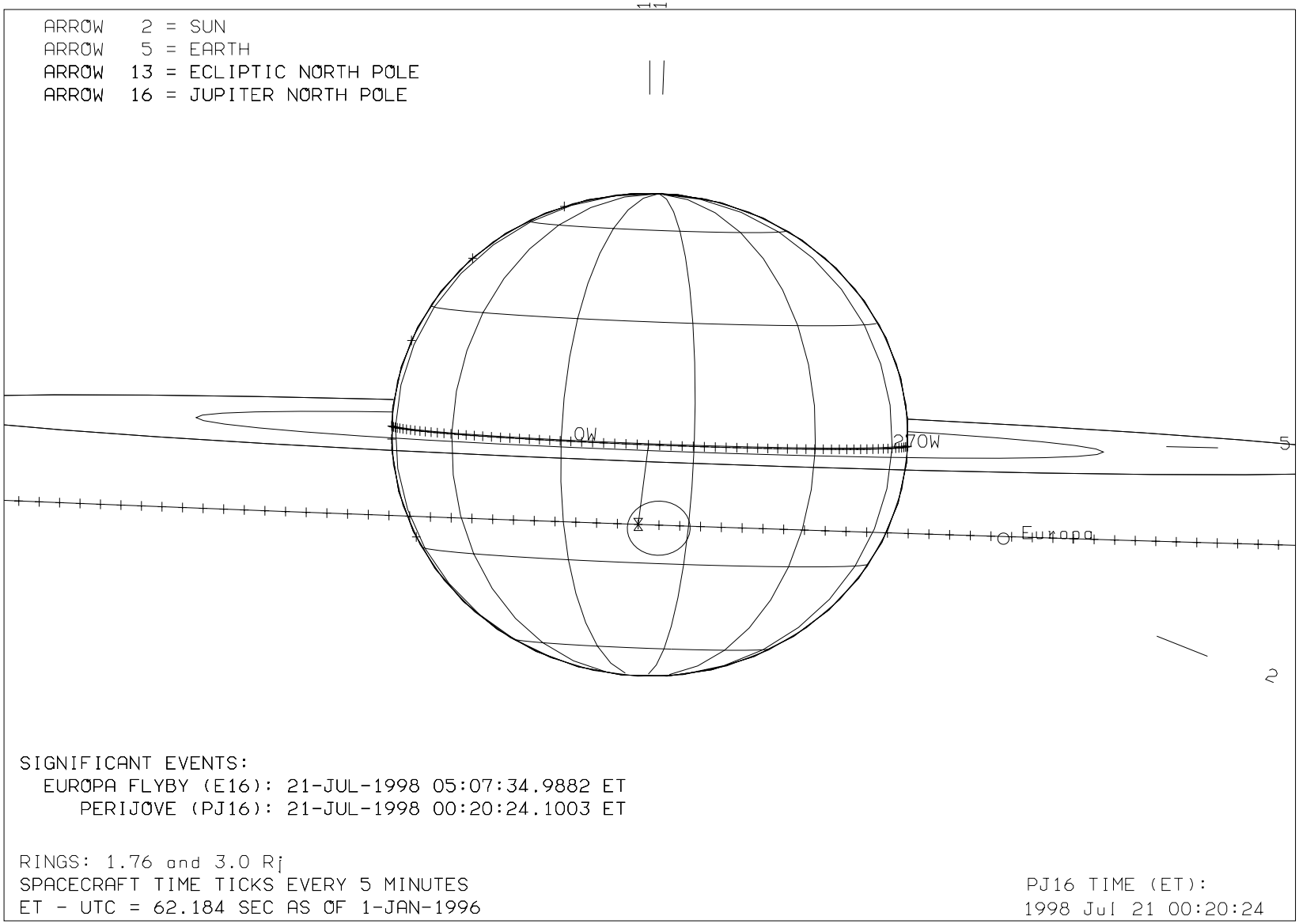
EUROPA 16: GROUNDTRACK AT CLOSEST APPROACH



NAV Apr 6, 1997

JUPITER 16: GROUNDTRACK AT CLOSEST APPROACH



SIGNIFICANT EVENTS:
EUROPA FLYBY (E16): 21-JUL-1998 05:07:34.9882 ET
PERIJOVE (PJ16): 21-JUL-1998 00:20:24.1003 ET

RINGS: 1.76 and 3.0 Rj
SPACECRAFT TIME TICKS EVERY 5 MINUTES
ET - UTC = 62.184 SEC AS OF 1-JAN-1996

PJ16 TIME (ET):
1998 Jul 21 00:20:24

NAV Apr 6, 1997