Chapter 3 - Orbit Geometries

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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the E17 Orbit.

The figure on page 3 is a North Trajectory Pole View of the E17 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the E17 Orbit from +/- 5 days of Europa closest approach.

The figure on page 5 is a North Trajectory Pole View of the E17 Orbit from +/- 2 days of Europa closest approach.

The figure on page 6 is a North Trajectory Pole View of the E17 Orbit from +/- 1 day of Europa closest approach.

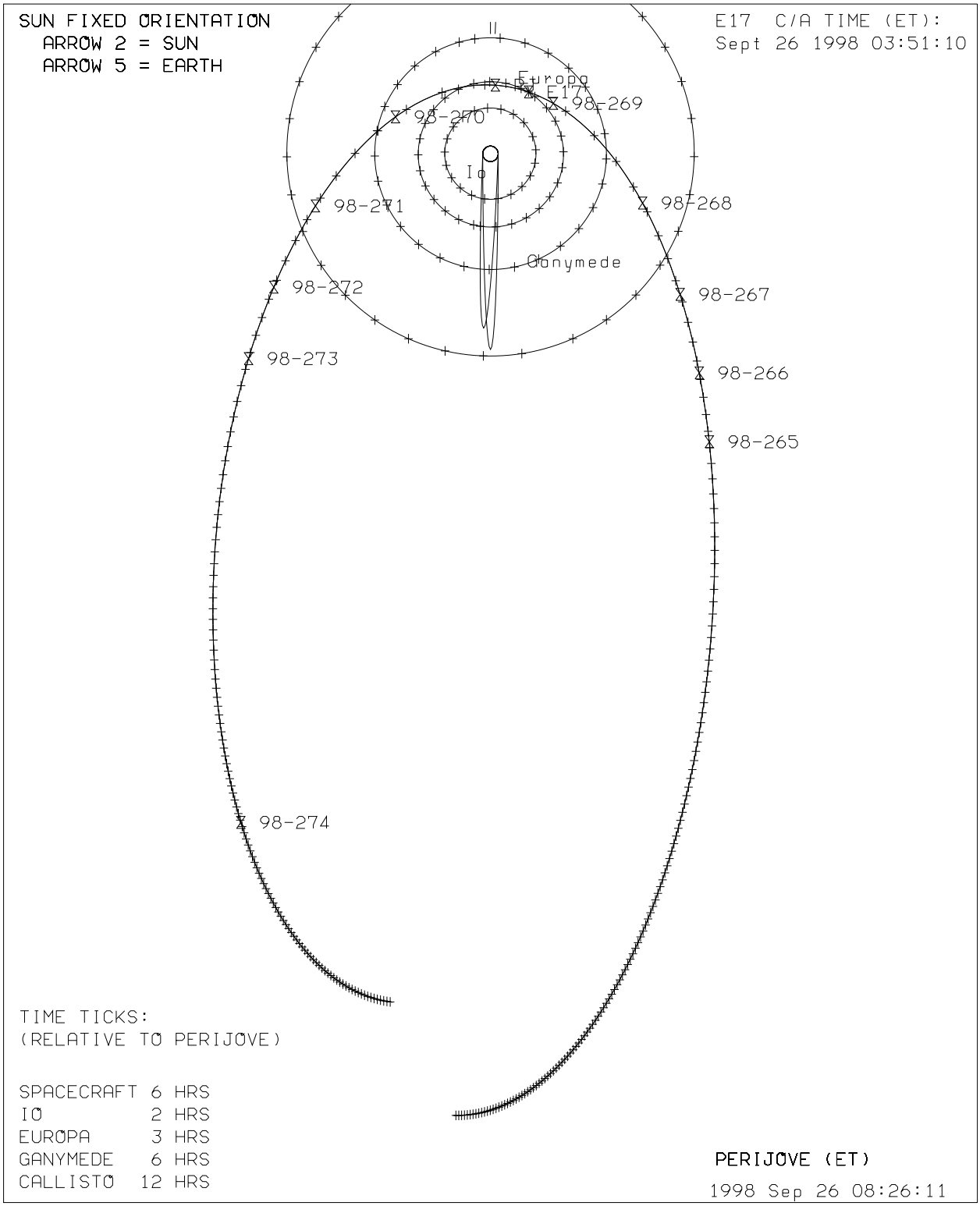
The figure on page 7 is a North Trajectory Pole View of the E17 Orbit from +/- 6 hours of Europa closest approach.

The figure on page 8 is a North Trajectory Pole View of the E17 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.

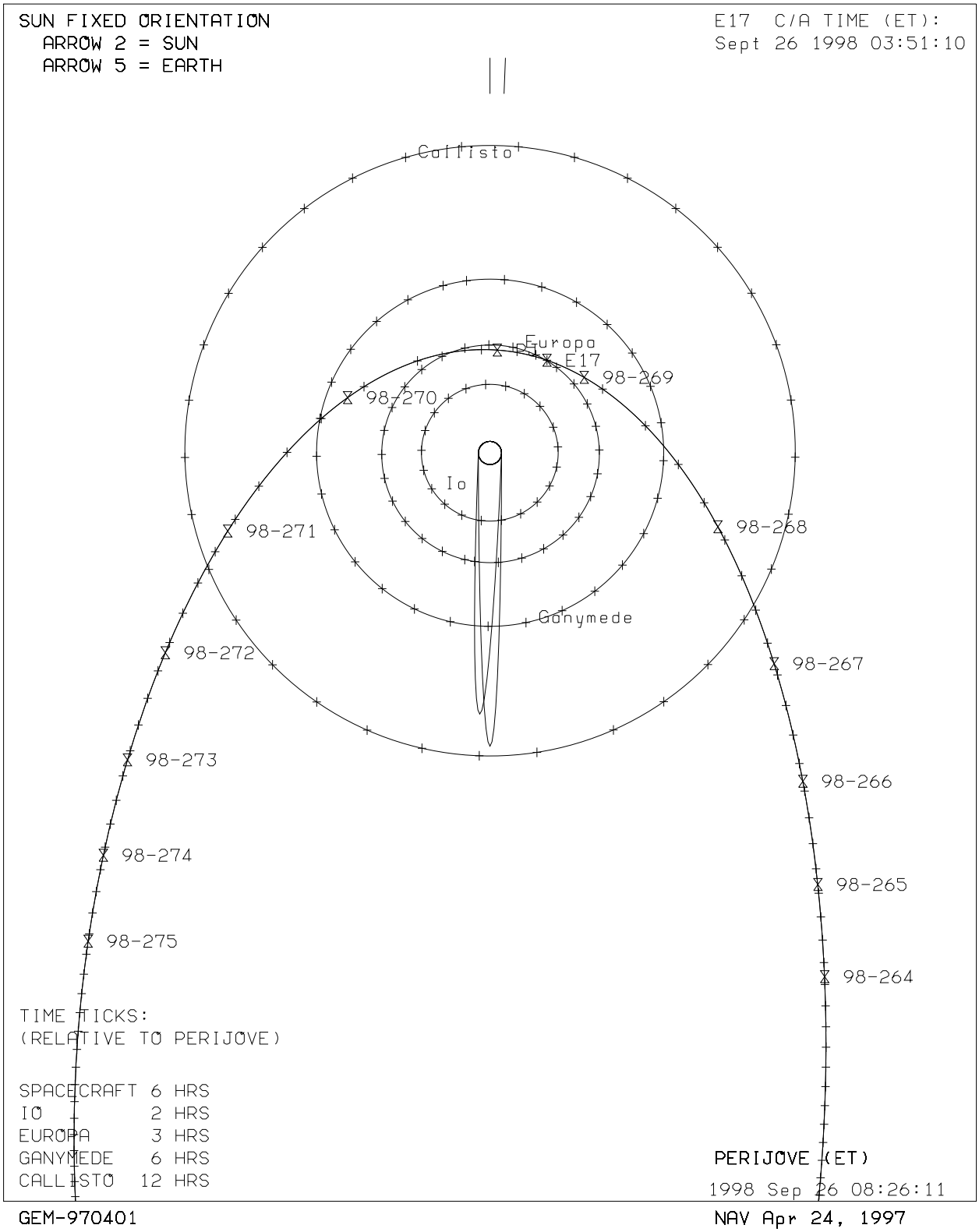
JUPITER 17: N. TRAJ. POLE VIEW (APO TO APO)



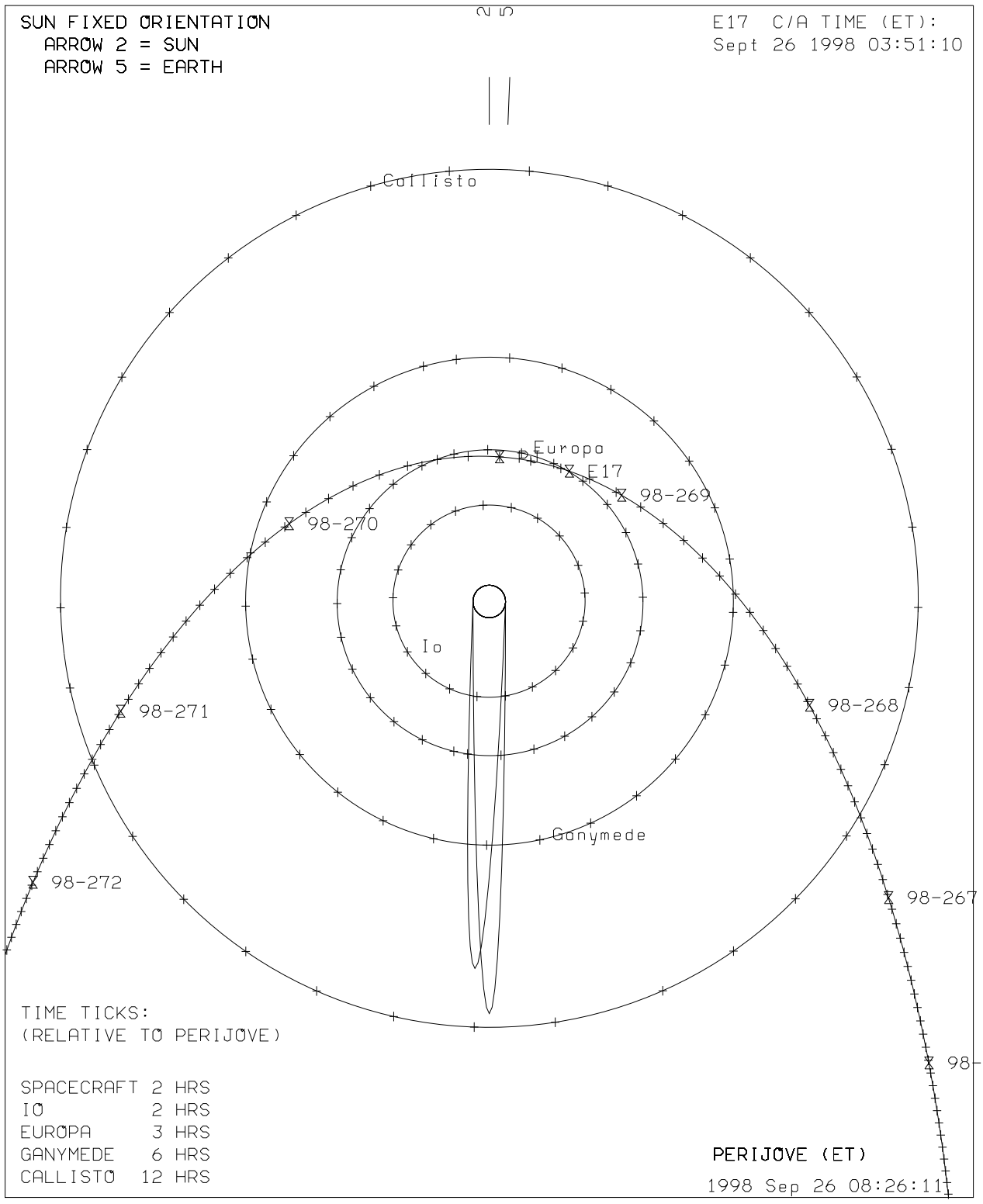
GEM-970401

NAV Apr 24, 1997

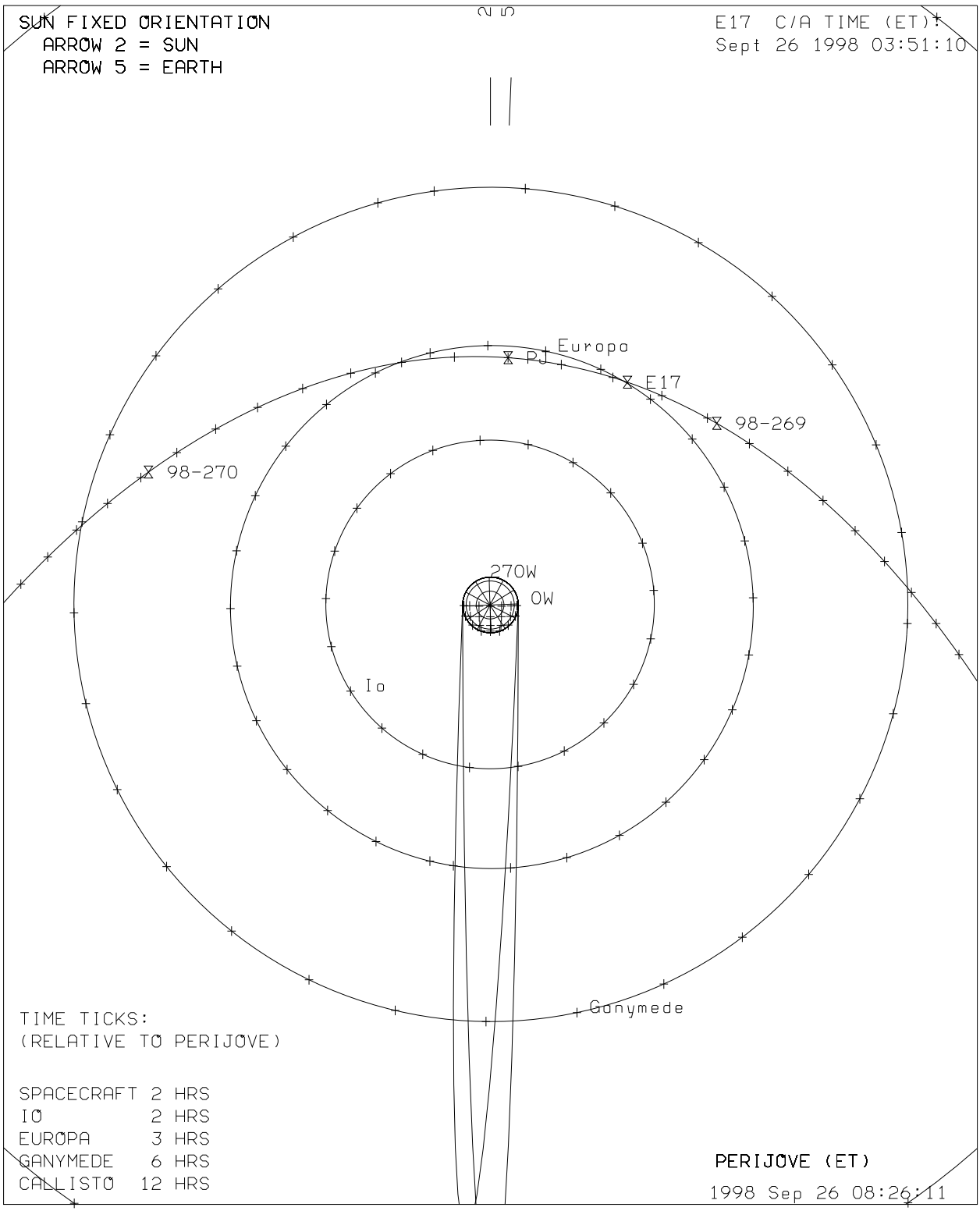
JUPITER 17: N. TRAJ. POLE VIEW (+/- 5 DAYS)



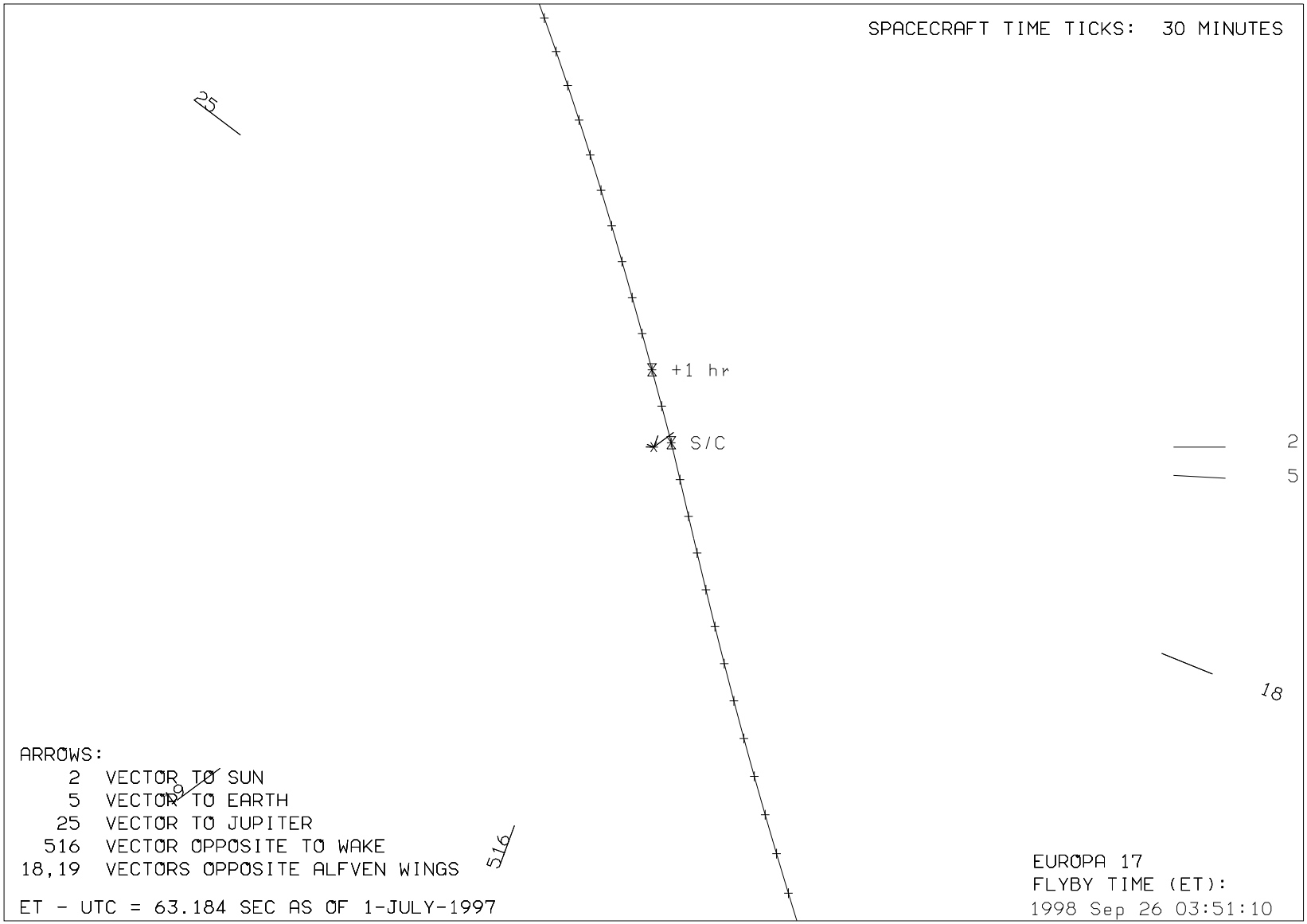
JUPITER 17: N. TRAJ. POLE VIEW (+/- 2 DAYS)



JUPITER 17: N. TRAJ. POLE VIEW (+/- 1 DAY)

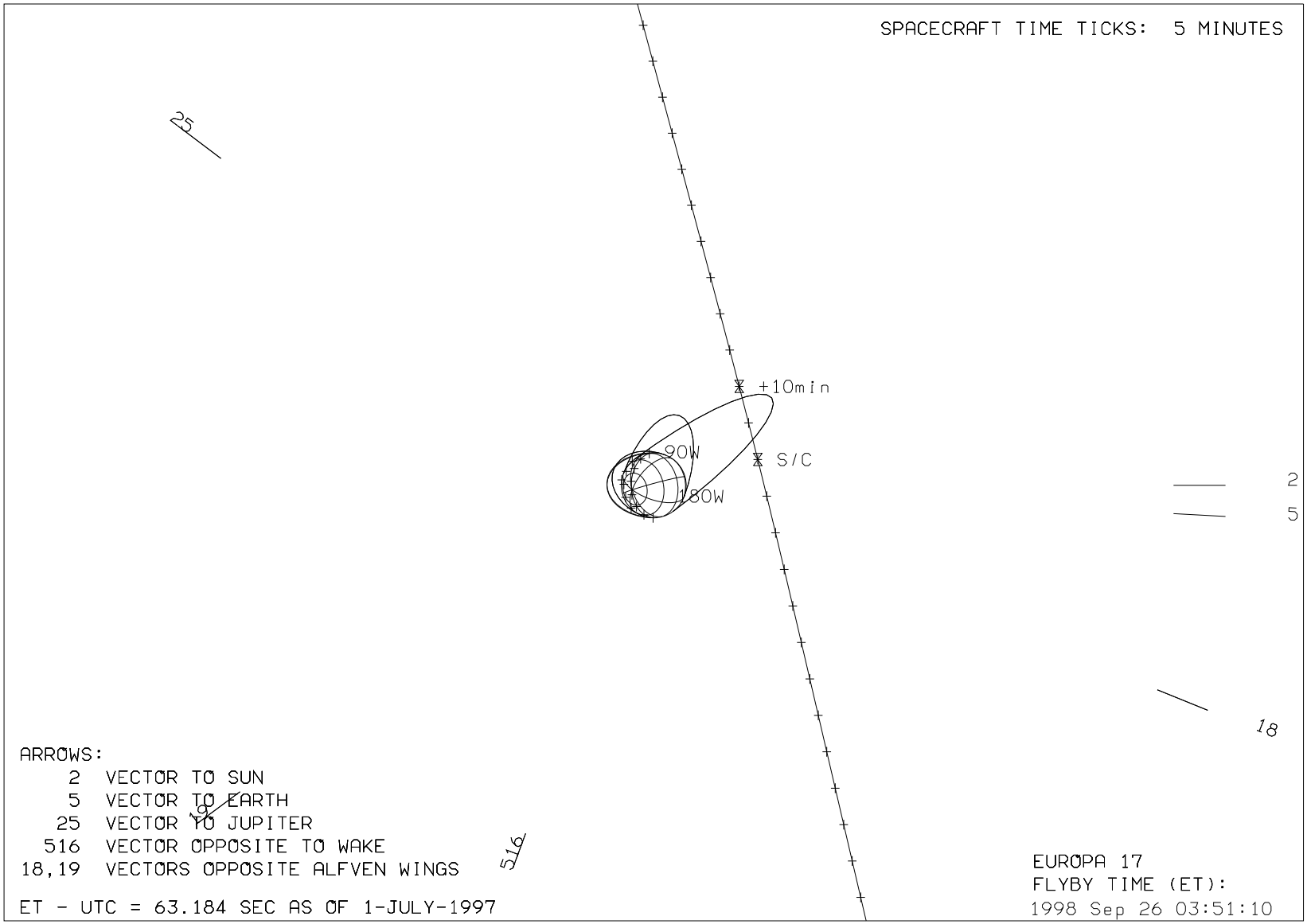


EUROPA 17: N. TRAJ POLE VIEW (+/- 6 HRS)



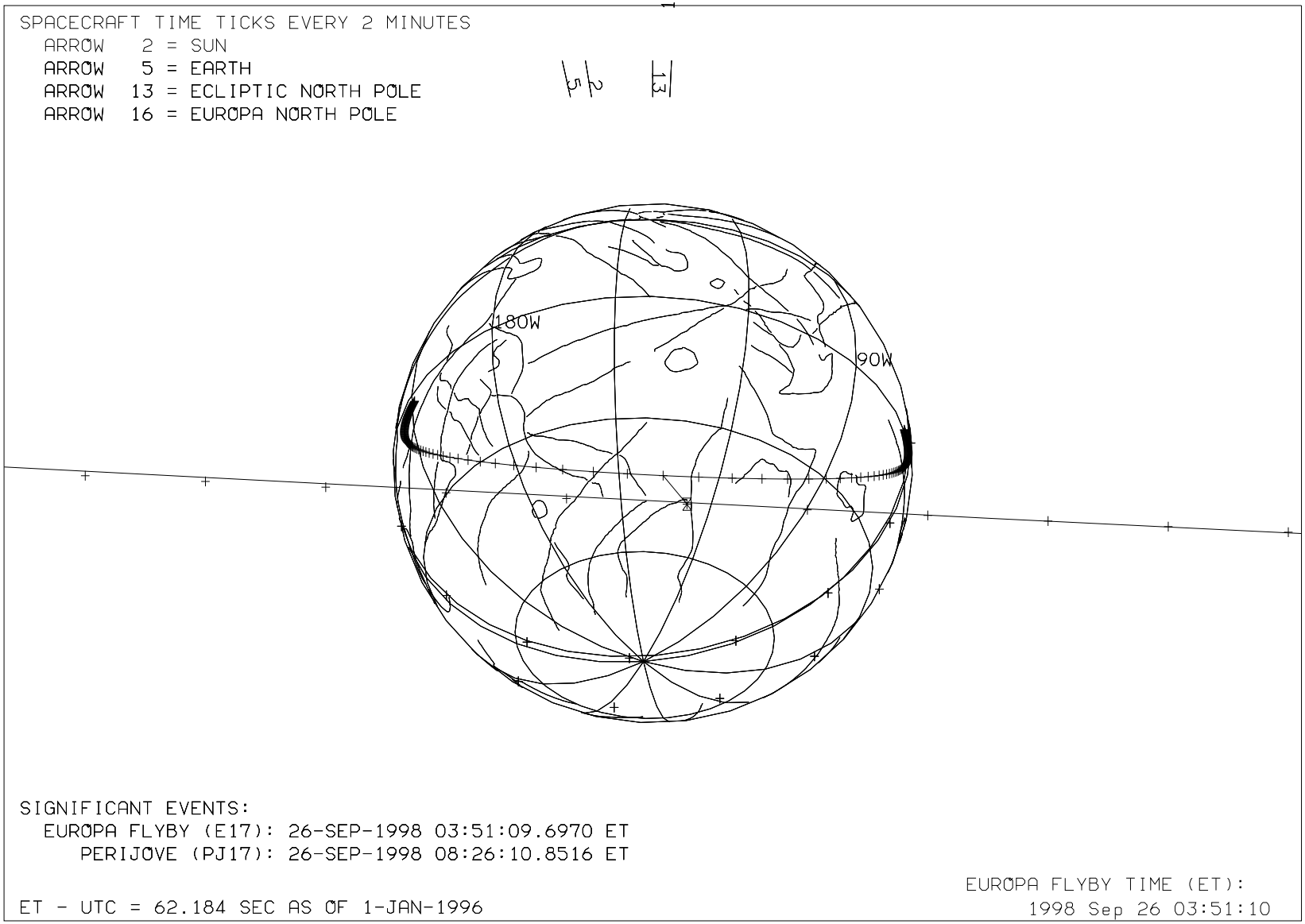
NAV 4/30/97

EUROPA 17: N. TRAJ POLE VIEW (+/- 1 HR)



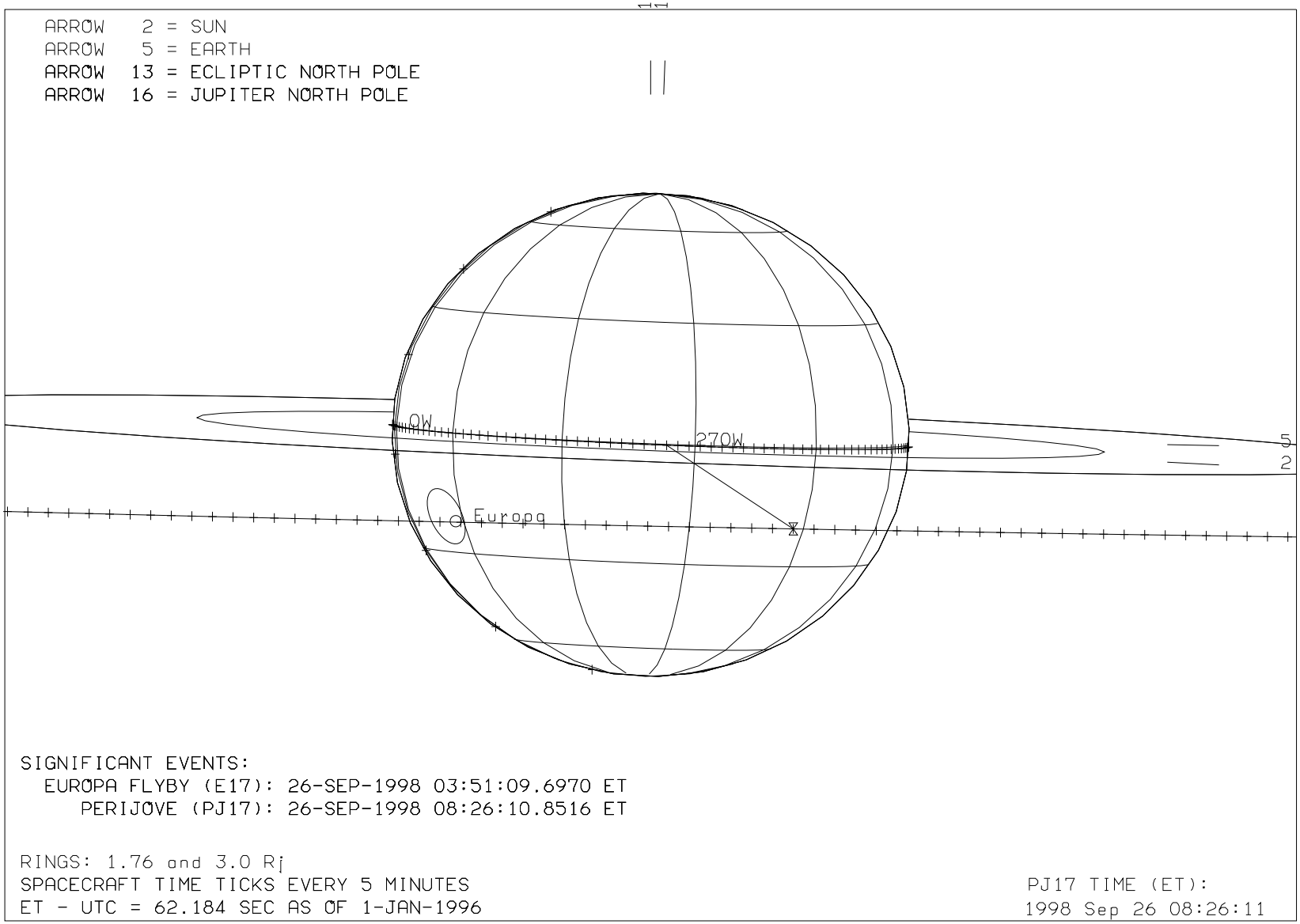
NAV 4/30/97

EUROPA 17: GROUNDTRACK AT CLOSEST APPROACH



NAV Apr 6, 1997

JUPITER 17: GROUNDTRACK AT CLOSEST APPROACH



SIGNIFICANT EVENTS:
EUROPA FLYBY (E17): 26-SEP-1998 03:51:09.6970 ET
PERIJOVE (PJ17): 26-SEP-1998 08:26:10.8516 ET

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

PJ17 TIME (ET):
1998 Sep 26 08:26:11

NAV Apr 6, 1997