# Chapter 3 - Orbit Geometries

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## Introduction to Chapter 3

**This chapter contains diagrams of various aspects of geometry for the C9 Orbit.**

**The figure on page 3 is a North Trajectory Pole View of the C9 Orbit from apoapsis to apoapsis.**

**The figure on page 4 is a North Trajectory Pole View of the C9 Orbit from +/- 5 days of Callisto closest approach.**

**The figure on page 5 is a North Trajectory Pole View of the C9 Orbit from +/- 1 day of Callisto closest approach.**

**The figure on page 6 shows the spacecraft’s groundtrack on Callisto at Callisto closest approach.**

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

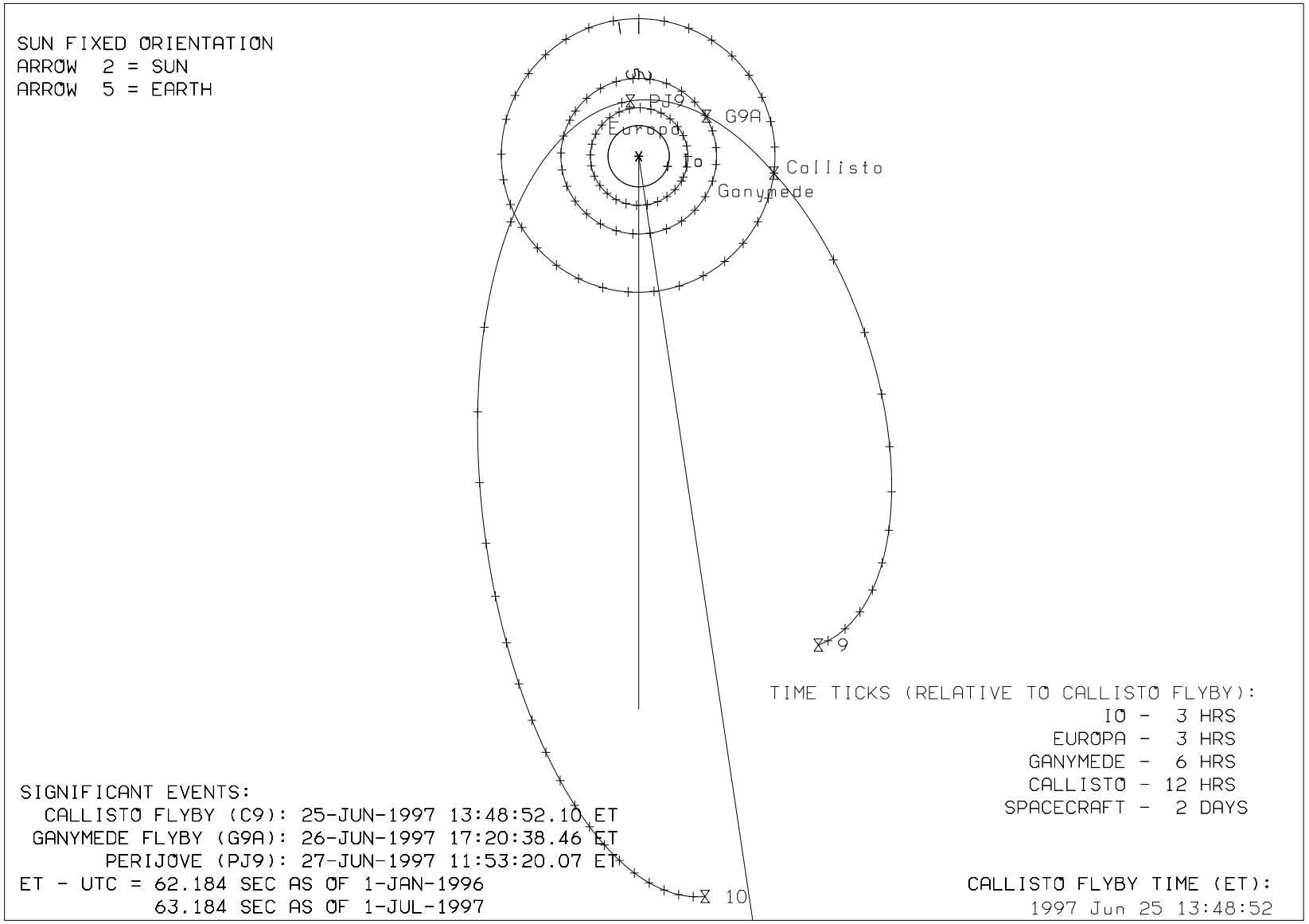
**The figure on page 8 shows the spacecraft’s groundtrack on Jupiter at Jupiter closest approach.**

**The figure on page 9 is a North Trajectory Pole View of the C9 Orbit from +/- 1 hour of Callisto closest approach.**

**The figure on page 10 is a South Trajectory Pole View of the C9 Orbit from +/- 1 hour of Callisto closest approach.**

**The figure on page 11 is a North Trajectory Pole View of the C9 Orbit from +/- 1 hour of Ganymede closest approach.**

# Jupiter 9: North Traj Pole View (C9 Apo to Apo)

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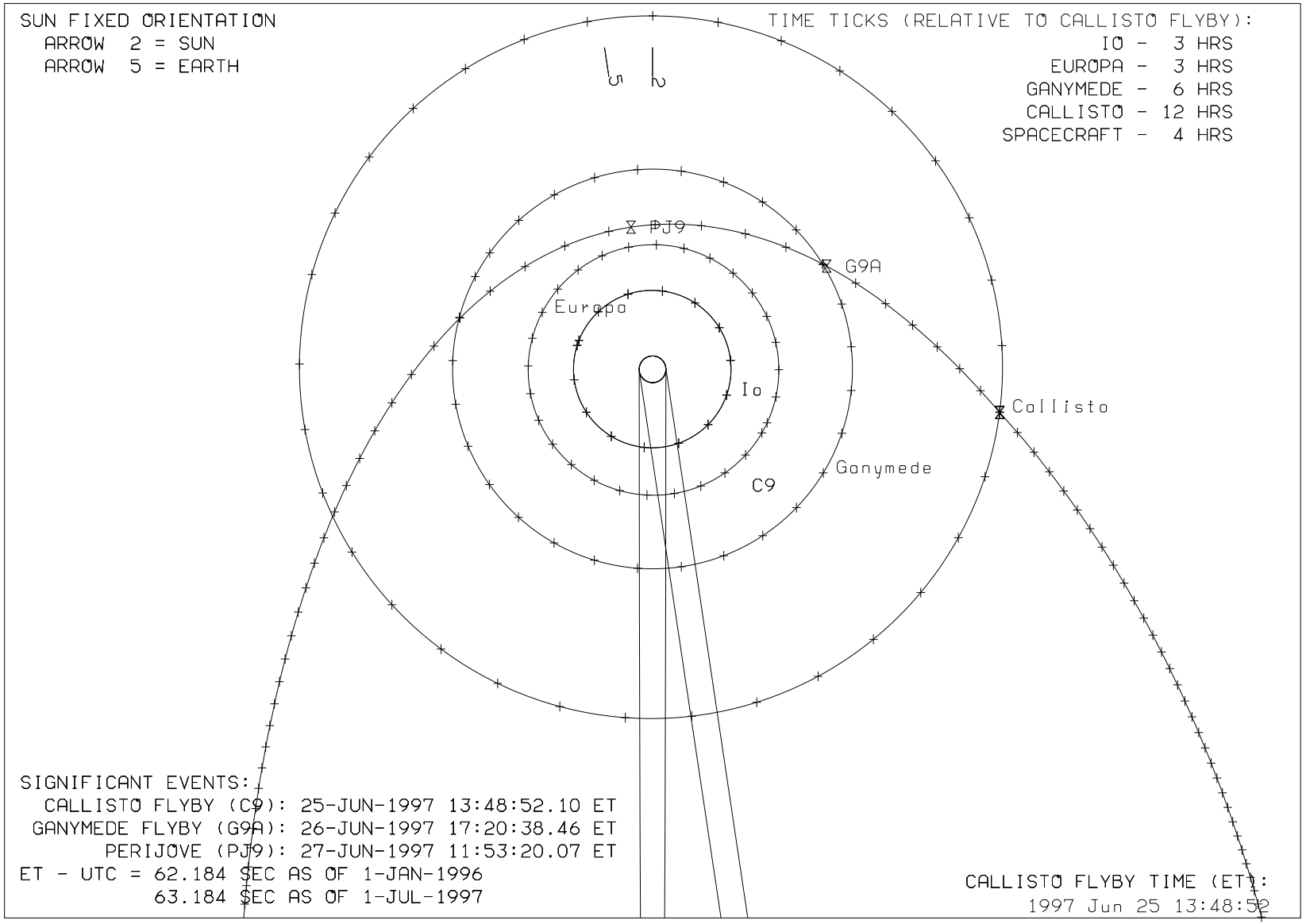
# Jupiter 9: North Traj Pole View (C9 +/- 5 days)

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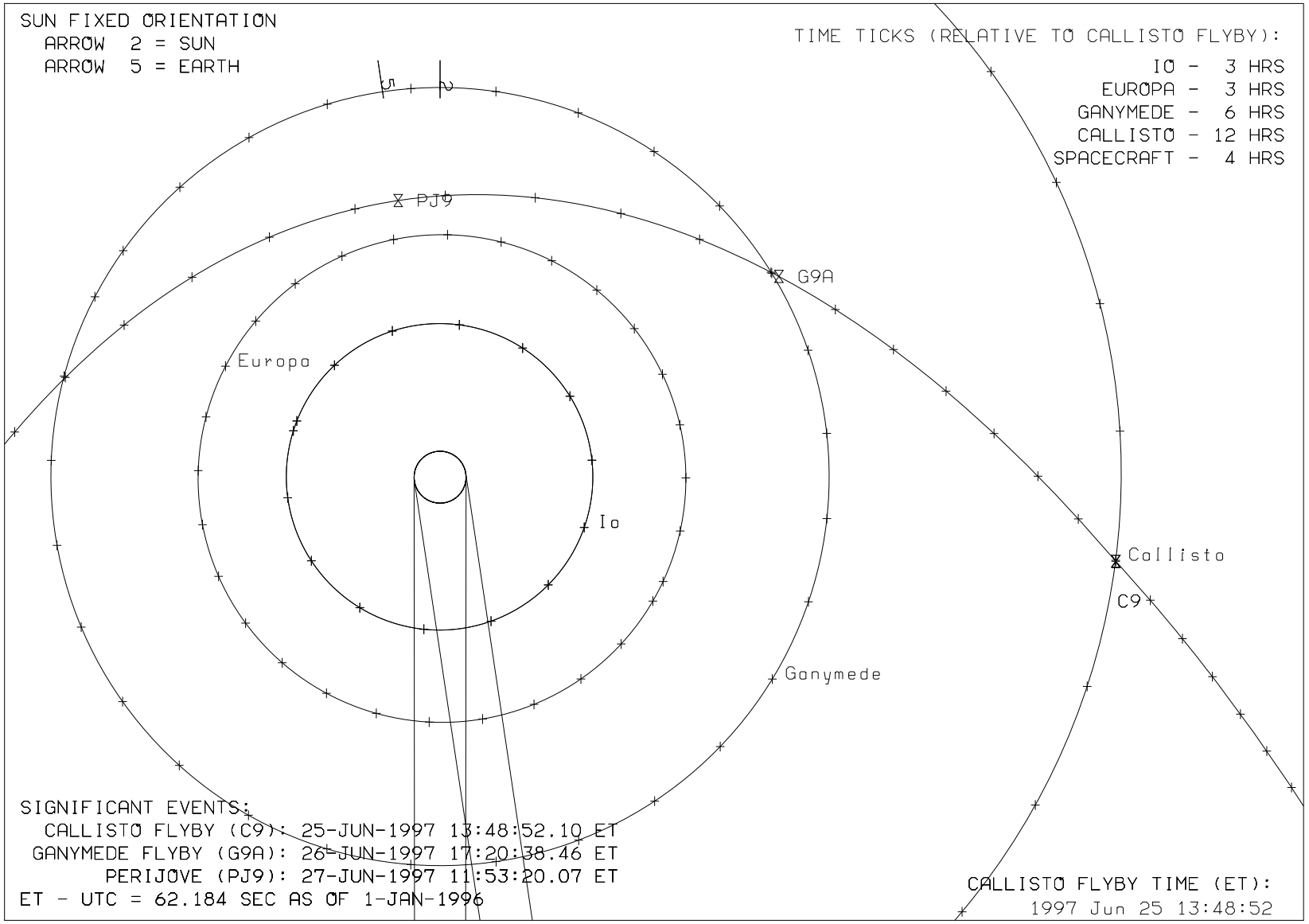
# Jupiter 9: North Traj Pole View (C9 +/- 1 day)

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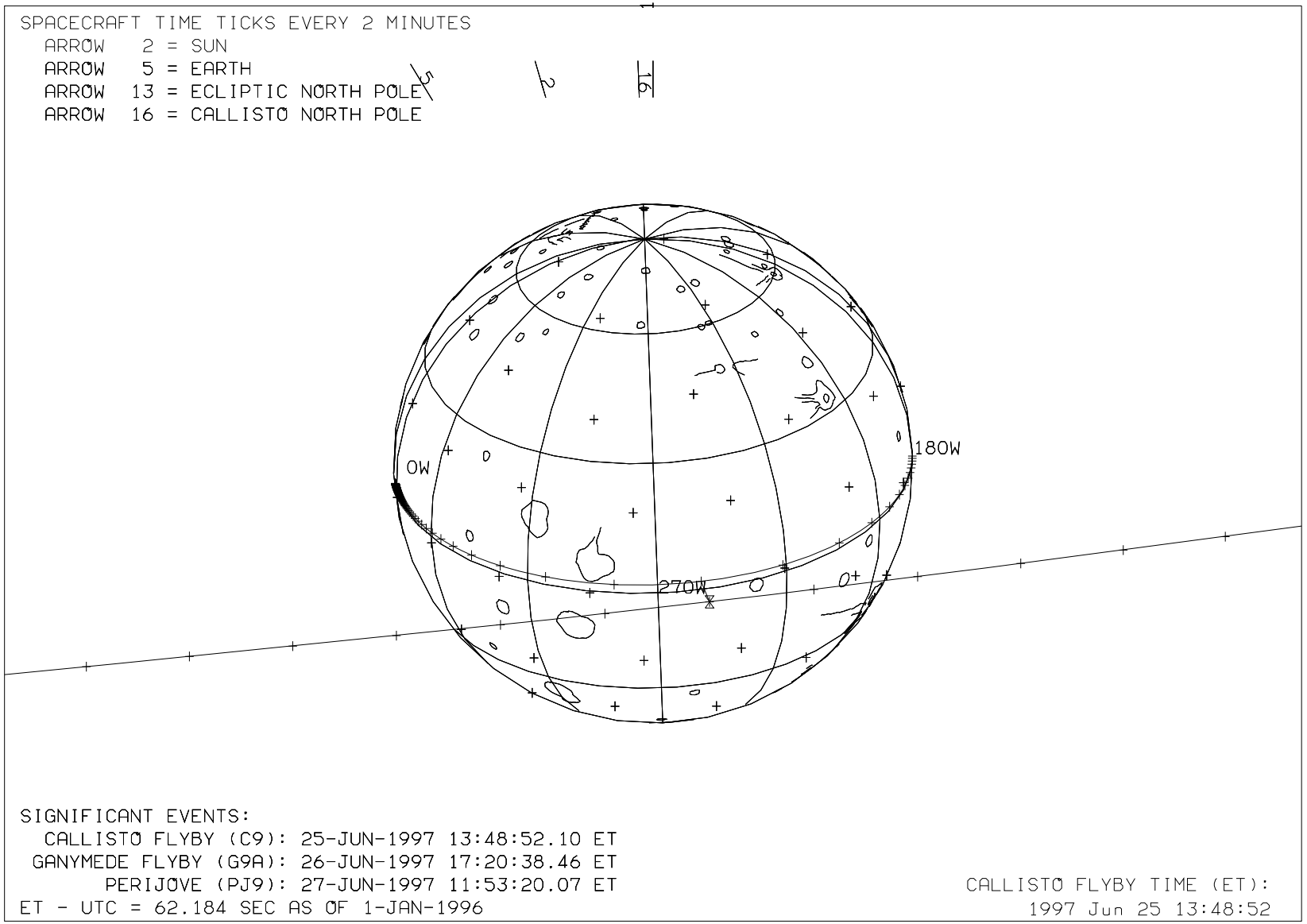
# CALLISTO 9: GROUNDTRACK AT CLOSEST APPROACH

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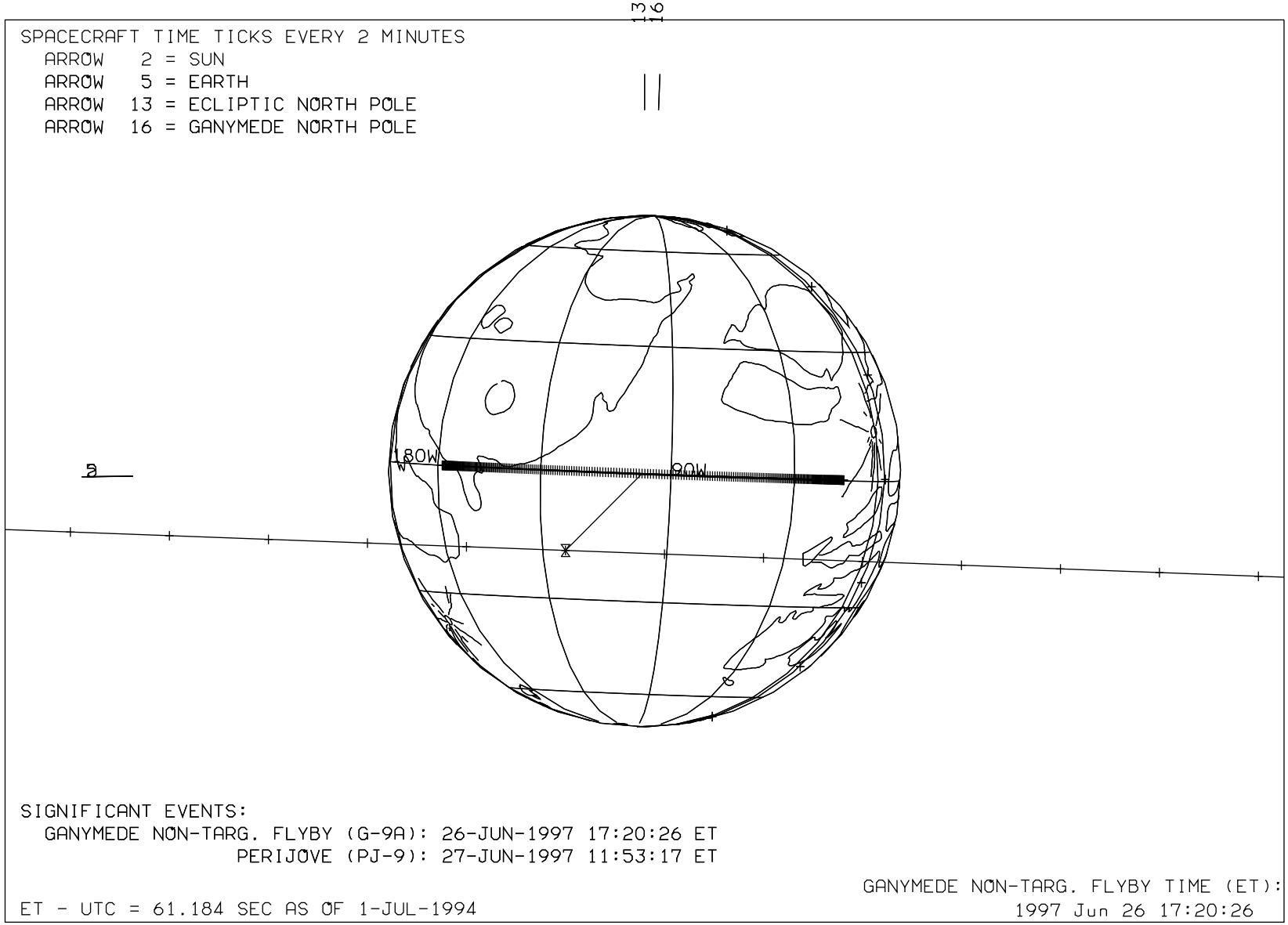
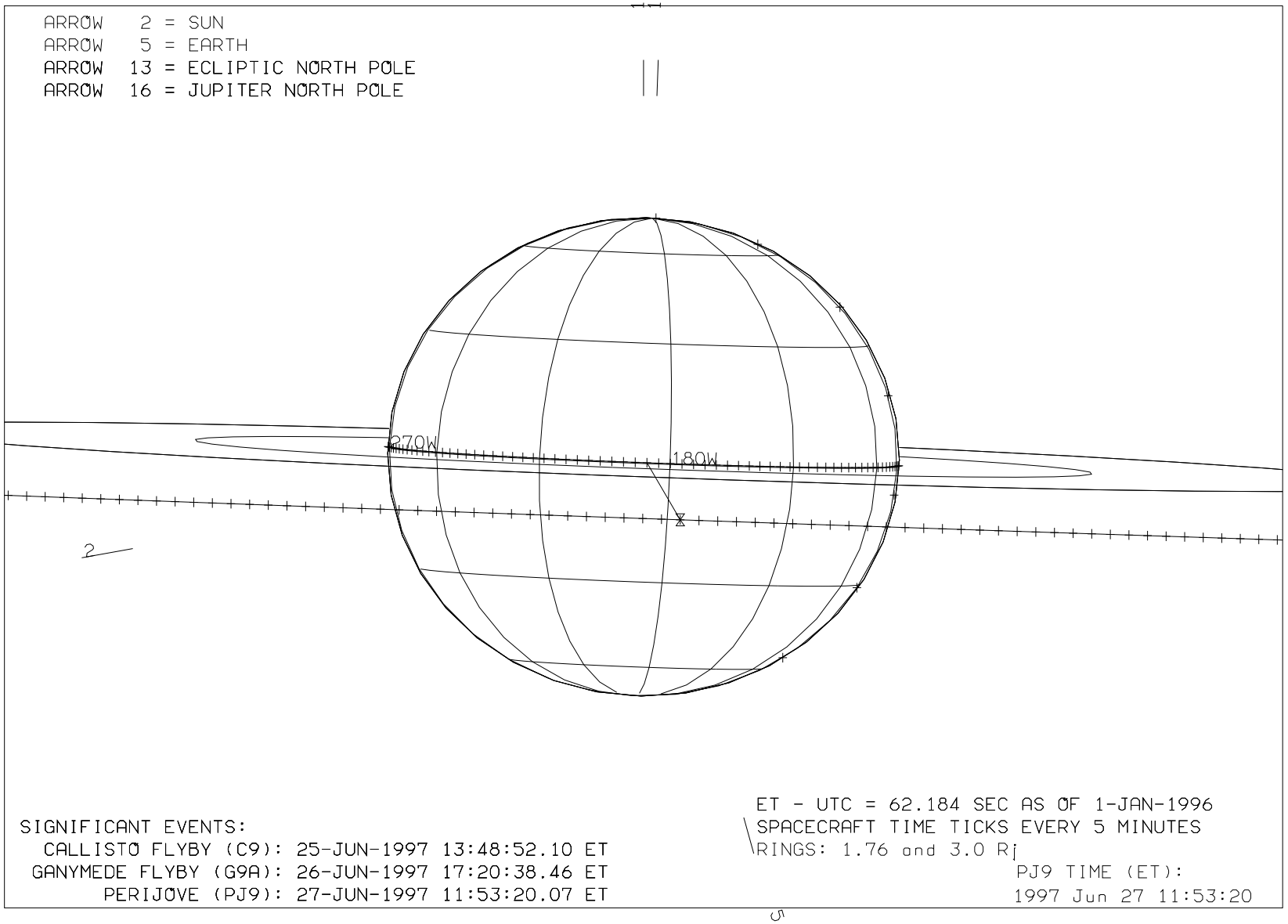
# GANYMEDE 9A: GROUNDTRACK AT CLOSEST APPROACH



# JUPITER 9: GROUNDTRACK AT CLOSEST APPROACH

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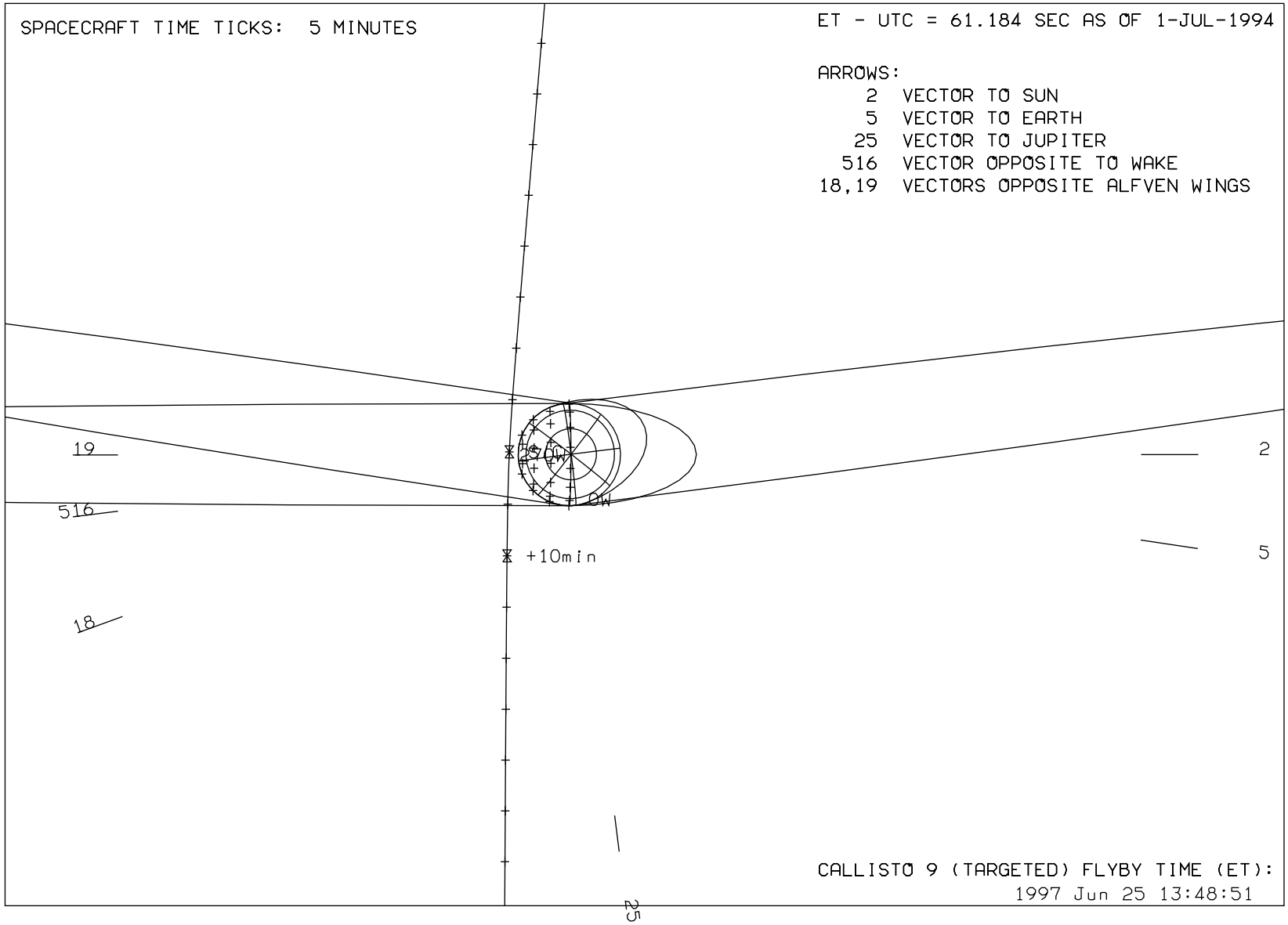
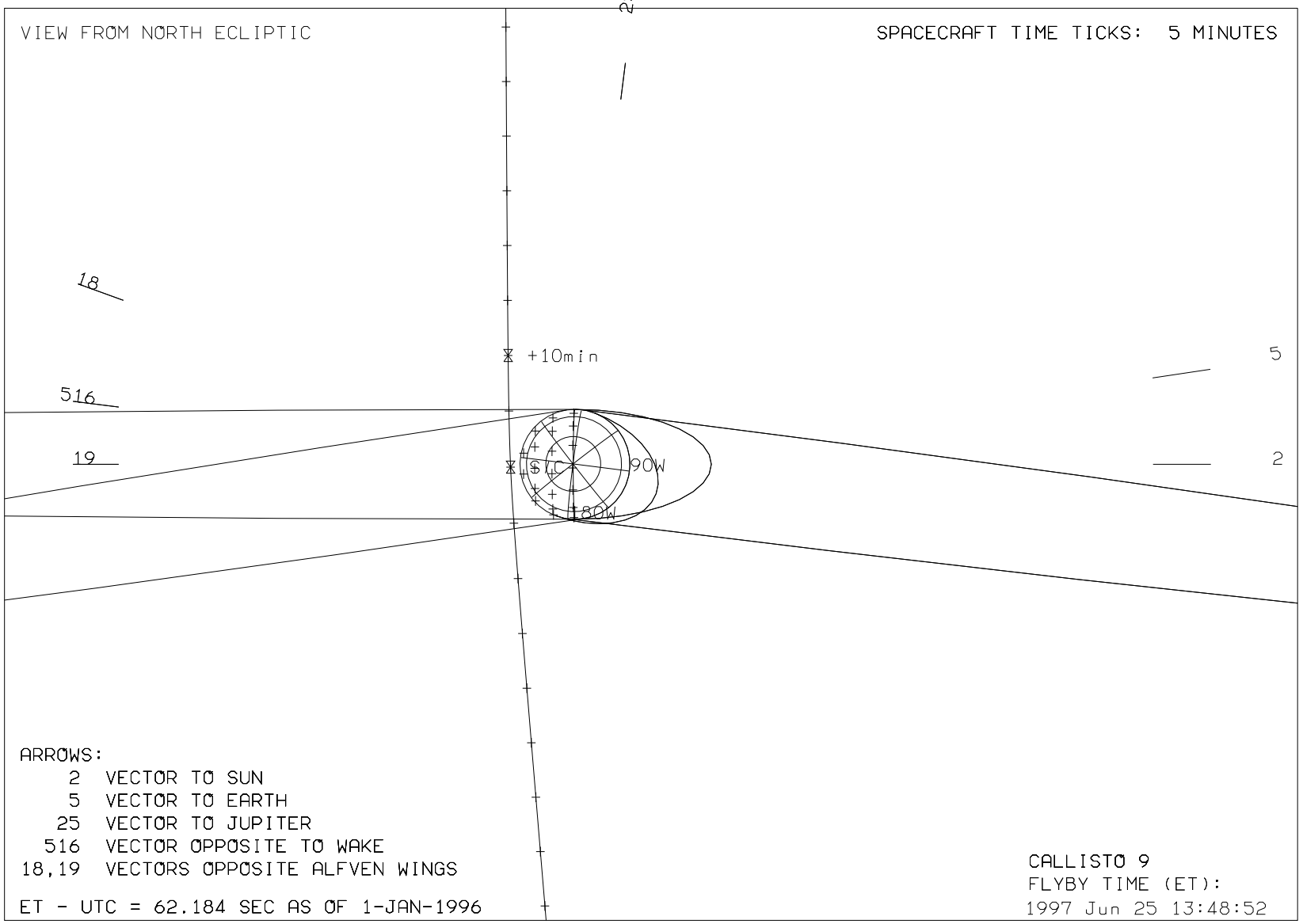
# CALLISTO 9: CLOSEST APPROACH (NORTH TRAJECTORY POLE VIEW)



# CALLISTO 9: CLOSEST APPROACH (SOUTH TRAJ POLE VIEW)

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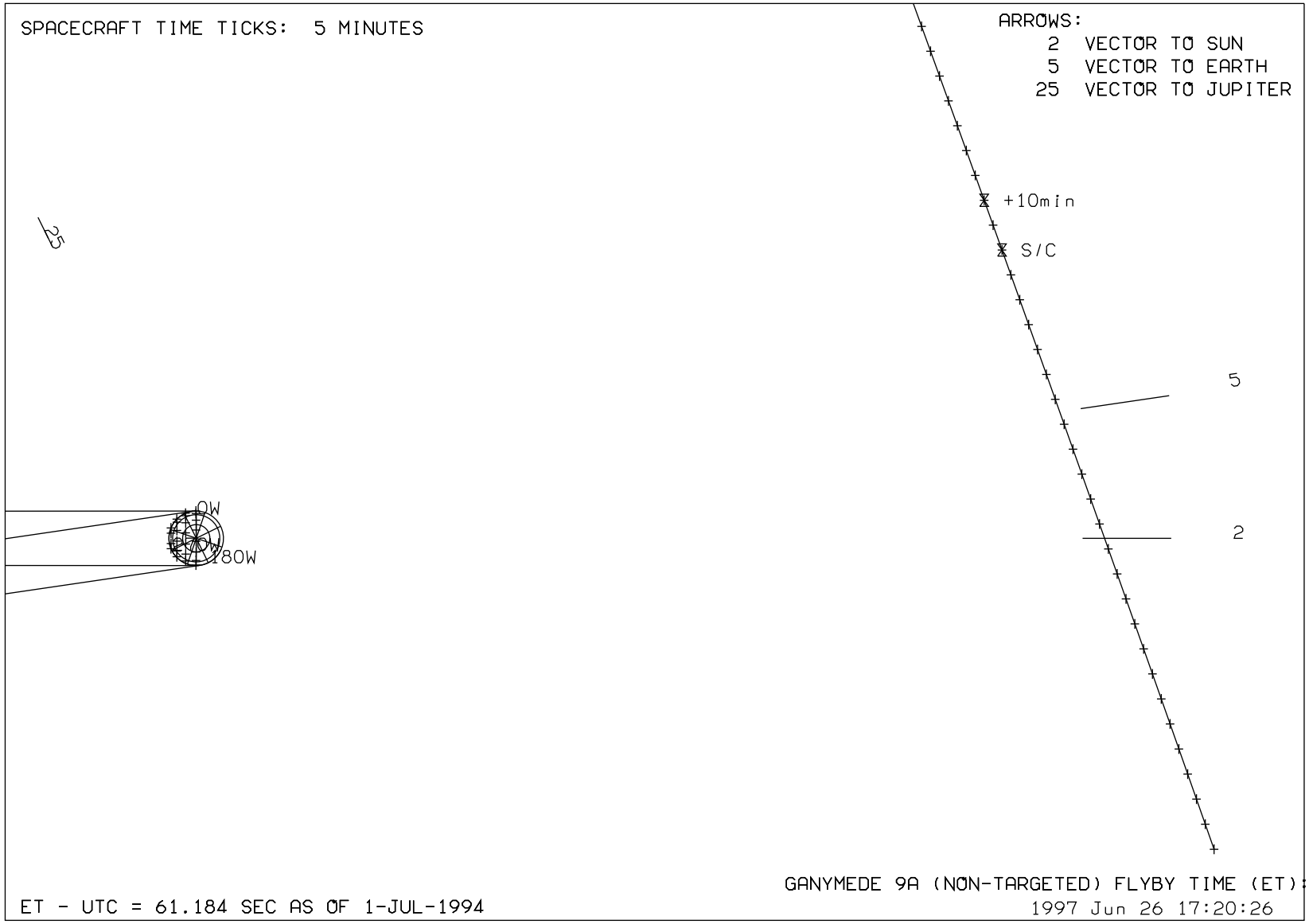
# GANYMEDE 9A: CLOSEST APPROACH (NORTH TRAJECTORY POLE VIEW)