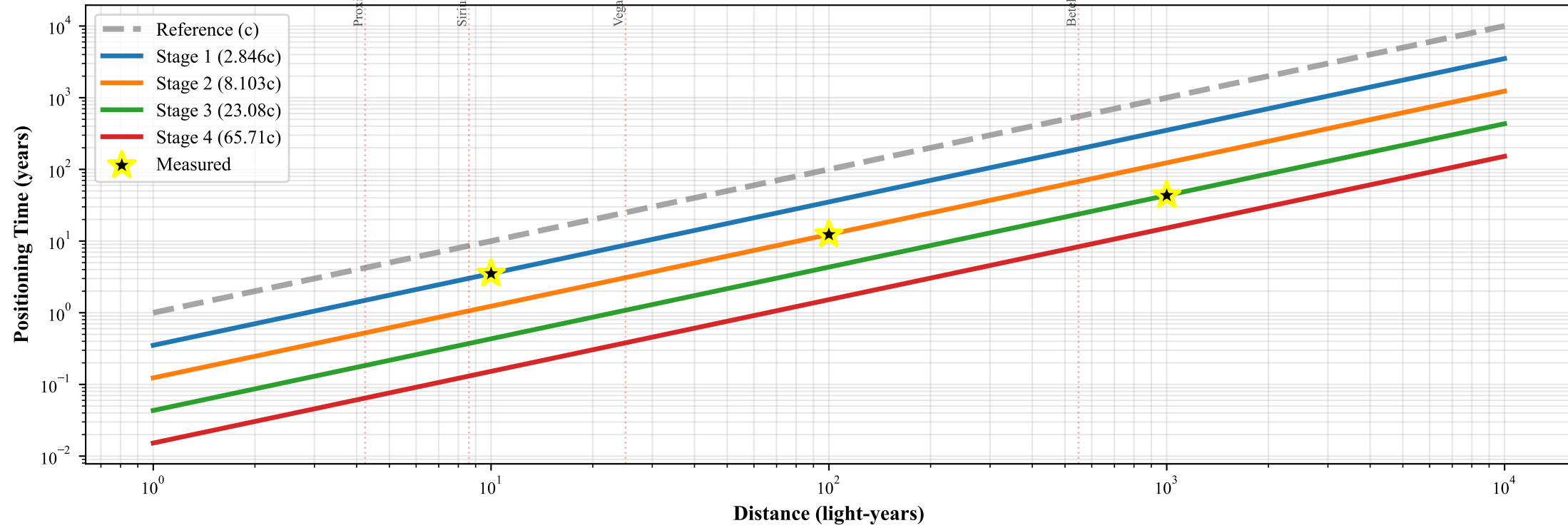
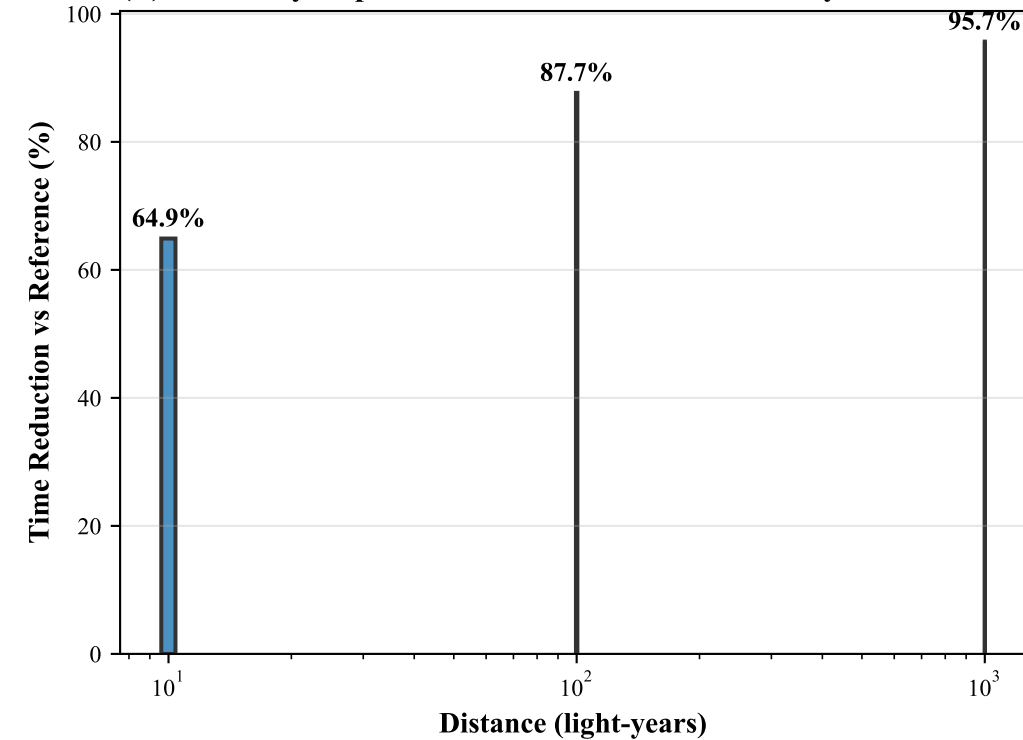


# Figure 4: Extended Distance Positioning Capabilities

## (A) Positioning Time vs Distance (All Cascade Stages)



## (B) Efficiency Improvement Over Reference Velocity



EXTENDED DISTANCE POSITIONING			
Destination	Distance	Time	Stage
Mars	2.40e-05 ly	0.1 hours	Stage 1
Proxima Centauri	4.24e+00 ly	1.5 years	Stage 1
Sirius	8.60e+00 ly	3.0 years	Stage 1
Vega	2.50e+01 ly	3.1 years	Stage 2
Betelgeuse	5.48e+02 ly	23.7 years	Stage 3
Galactic Center	2.67e+04 ly	406.3 years	Stage 4
Andromeda Galaxy	2.54e+06 ly	38.6 kyr	Stage 4