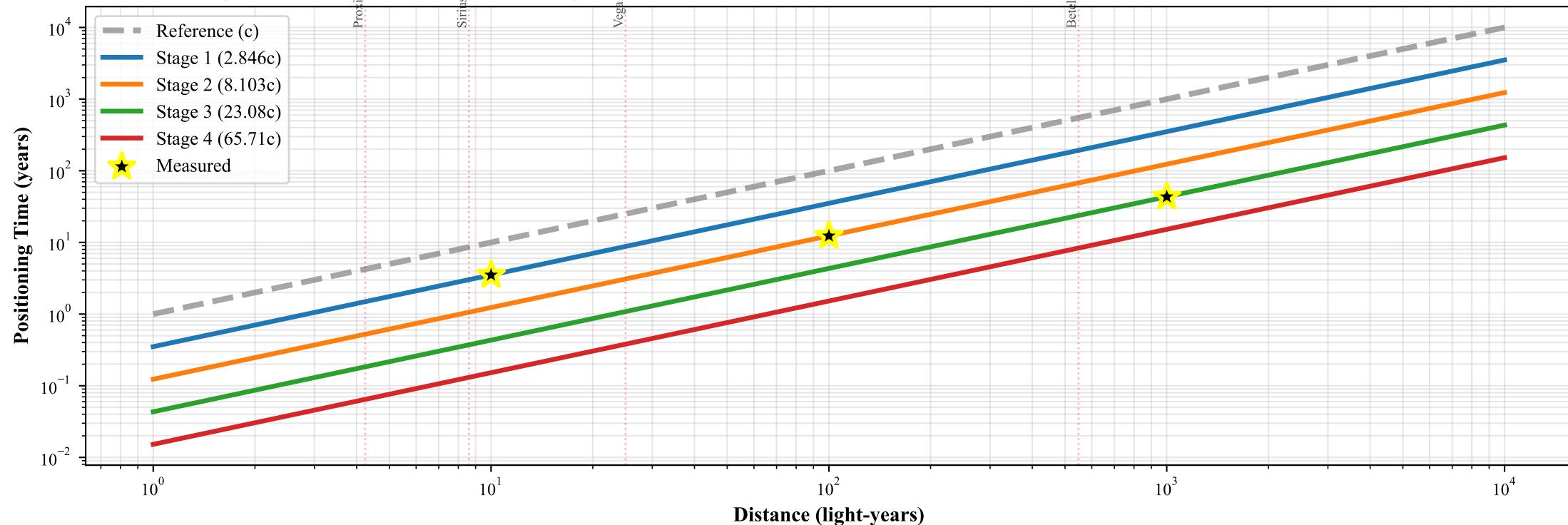
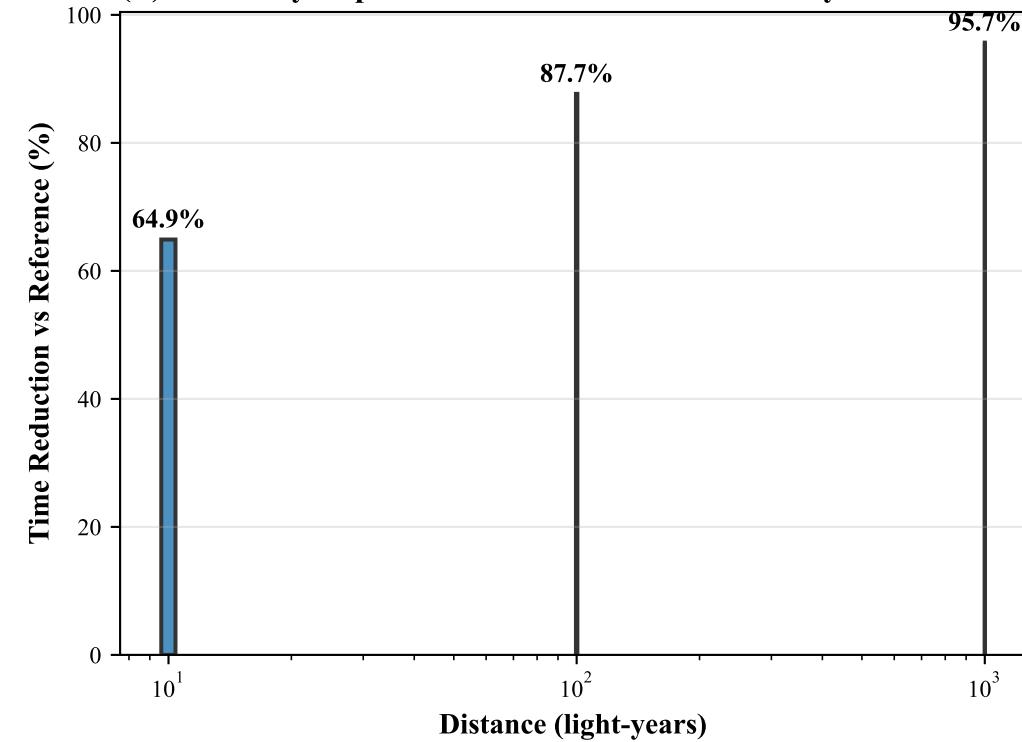


Figure 4: Extended Distance Positioning Capabilities

(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