

THE ASTRONOMICAL JOURNAL

VOLUME 72, NUMBER 3 APRIL 1967

Astronomical Constants and Planetary Ephemerides Deduced from Radar and Optical Observations

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(Received 16 September 1966)

MERCURIO			VENUS	
Orbita	Newton	Einstein	Newton	Einstein
Semieje Mayor "a"	0.3870984504	0.3870984149	0.7233299028	0.7233298596
Excentricidad ϵ	0.2056252912	0.2056252616	0.0067893379	0.0067893036
Inclinación, i	28.6032096	28.6032349	24.4665221	24.4665152

TIERRA	a (1UA)	a (km)	ϵ	i
Orbita	1	149.59×10^6	0.0167	$23^{\circ} 27'$

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Lugar	Frecuencia Radar (MHz)	Fecha	Segundos-luz τ_{luz}	Unidad Astronómica "a", m $\tau_{luz} * c$
Millstone (MIT)	440	1961	499.0052 ± 0.001	149,598,000,000 $\pm 300,000$
Goldstone (JPL)	2388	1961	499.0071 ± 0.001	149,598,600,000 $\pm 250,000$
Jodrell Bank (U Manchester)	408	1961	499.011 ± 0.017	149,600,000,000 $\pm 5,000,000$
Goldstone (JPL)	2388	1964	499.0065 ± 0.0002	149,598,388,000 $\pm 50,000$
MIT, JPL, UM		1967	499.004785 N 499.004786 E	149,597,871,049 $\pm 2,218$
Jet Propulsion Laboratory		2010's	499.004783806 ± 0.00000001	149,597,870,691 ± 3

Unidad Astronómica

Semieje Mayor, a , de la órbita de la Tierra

Año	U.A.
1941	$149,419,000,000 \pm 120,000,000$ m
1941	$149,674,000,000 \pm 17,000,000$ m
1961	$149,600,000,000 \pm 5,000,000$ m
1962	$149,597,850,000 \pm 400,000$ m
1962	$149,598,600,000 \pm 250,000$ m
1963	$149,596,600,000 \pm 900,000$ m
1964	$149,597,400,000 \pm 600,000$ m
2010's	$149,597,870,691 \pm 3$ m