

Osculação Epoca Equinócio				M	ω	Ω	i
1933	1925 Jan 1.0			44.531	317.645	51.386	3.418
1938	1931	Out 29	1950.0	1.438	691	689	420
39	1939	Out 22	"	13.630	315.762	404	418
40	1940	Dez 19	"	67.648	390	404	417
1941	1942	Fev 17	"	121.681	269	404	418
3MP 1948	1948	Ago 7	"	61.712	314.749	407	417
1965	1957	Jun 11	"	109.998	315.491	320	417
1969	1962	Dez 2	"	5.224	313.045	50.857	391
1980	1980	Dez 27.0	"	115.39275	.07321	76422	39068
1989	1989	Out 1.0	"	157.17340	310.74236	09809	36054

MARINA

= 1931 RL

$H = 10.2^{+6.0}$

$\phi = 54.93 \pm 2.6$

desc. 1931 Set. 13 G. Neujmin, Simeis

$alb = 9.034$

φ	μ	α	Ref.
12.103	457 ^h .812	3.9163	A. Kahrstedt. em 1932 } EL
"	"	"	—————"—————" } ignais. Hudson & pace & equin.
11.915	454.483	.9354	F. Gondolatsch. St. 74
.829	456.030	9265	F. Gondolatsch. St. 74
807	306	.49	F. Gondolatsch. St. 74
845	455.389	9302	ITA (S) (C.T. Makober).
808	456.544	9236	ITA (S)
355	451.904	9504	ITA BV 40pp 1931-54.
= 0.1943515	453.07749	9435686	ITA (p. B. Kamura) BV 70pp. 1925-70.
.1799158	448.59773	9697790	E. Goffin MPC 11726 BV 110pp. 1925-86 $\delta = 1''$