

National Oceanography Centre Marine Data Products

Table of Harmonic Constants and Speeds

No.	Name	Speed (°/hr)	No.	Name	Speed (°/hr)	No.	Name	Speed (°/hr)
1	Sa \mathcal{P}	0.0410686	39	MSN ₂	30.5443747	77	2(MN)S ₆	84.8476674
2	Ssa	0.0821373	40	KJ ₂	30.6265120	78	3MNS ₆	85.3920422
3	Mm	0.5443747	41	2SM ₂	31.0158958	79	4MK ₆	85.8542795
4	Msf	1.0158958	42	MO ₃	42.9271398	80	4MS ₆	85.9364168
5	Mf	1.0980331	43	M ₃	43.4761563	81	2MSNK ₆	86.3258006
6	2Q ₁	12.8542862	44	SO ₃	43.9430356	82	2MV ₆	86.4807915
7	σ_1 (sigma)	12.9271398	45	MK ₃	44.0251729	83	3MSK ₆	86.8701754
8	Q ₁	13.3986609	46	SK ₃	45.0410686	84	4MN ₆	87.4966873
9	ρ_1 (rho)	13.4715145	47	MN ₄	57.4238337	85	3MSN ₆	88.5125832
10	O ₁	13.9430356	48	M ₄	57.9682084	86	MKL ₆	88.5947204
11	MP ₁	14.0251729	49	SN ₄	58.4397295	87	2(MN) ₈	114.8476674
12	M ₁	14.4920521	50	MS ₄	58.9841042	88	3MN ₈	115.3920422
13	χ_1 (chi)	14.5695476	51	MK ₄	59.0662415	89	M ₈	115.9364168
14	π_1 (pi)	14.9178647	52	S ₄	60.0000000	90	2MSN ₈	116.4079379
15	P ₁	14.9589314	53	SK ₄	60.0821373	91	3MS ₈	116.9523127
16	S ₁	15.0000000	54	2MN ₆	86.4079380	92	3MK ₈	117.0344500
17	K ₁	15.0410686	55	M ₆	86.9523127	93	MSNK ₈	117.5059710
18	ψ_1 (psi)	15.0821353	56	MSN ₆	87.4238337	94	2(MS) ₈	117.9682084
19	ϕ_1 (phi)	15.1232059	57	2MS ₆	87.9682084	95	2MSK ₈	118.0503457
20	θ_1 (theta)	15.5125897	58	2MK ₆	88.0503457	96	4MS ₁₀	145.9364168
21	J ₁	15.5854433	59	2SM ₆	88.9841042	97	3M2S ₁₀	146.9523127
22	SO ₁	16.0569644	60	MSK ₆	89.0662415	98	4MSN ₁₂	174.3761463
23	OO ₁	16.1391017	61	2MN ₂ S ₂	26.4079379	99	5MS ₁₂	174.9205210
24	OQ ₂	27.3416965	62	3M(SK) ₂	26.8701754	100	4M ₂ S ₁₂	175.9364168
25	MNS ₂	27.4238337	63	3M ₂ S ₂	26.9523127	101	MVS ₂	27.4966873
26	2N ₂	27.8953548	64	MNK ₂ S ₂	27.5059710	102	2MK ₂	27.8860711
27	μ_2 (mu)	27.9682084	65	SNK ₂	28.3575922	103	MA ₂	28.9430356
28	N ₂	28.4397295	66	2SK ₂	29.9178627	104	MB ₂	29.0251728
29	ν_2 (nu)	28.5125831	67	2MS ₂ N ₂	31.0887494	105	MSV ₂	30.4715211
30	OP ₂	28.9019669	68	MQ ₃	42.3827651	106	SKM ₂	31.0980331
31	M ₂	28.9841042	69	2MP ₃	43.0092770	107	2MNS ₄	56.4079379
32	MKS ₂	29.0662415	70	2MQ ₃	44.5695475	108	MV ₄	57.4966873
33	λ_2	29.4556253	71	3MK ₄	56.8701754	109	3MN ₄	58.5125830
34	L ₂	29.5284789	72	3MS ₄	56.9523127	110	2MSN ₄	59.5284789
35	T ₂	29.9589333	73	2MSK ₄	57.8860711	111	NA ₂	28.3986609
36	S ₂	30.0000000	74	3MK ₅	71.9112441	112	NB ₂	28.4807981
37	R ₂	30.0410667	75	M ₅	72.4602605	113	MSO ₅	72.9271398
38	K ₂	30.0821373	76	3MO ₅	73.0092771	114	MSK ₅	74.0251728

\mathcal{P} Note the harmonic constituent Sa has two different definitions (and therefore different speeds).
They can't be used interchangeably.

