

Frequenza Ampiezza e Fase dei costituenti di marea

Imperia

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				5.0980	.00
2	SSA	0.00022816	4382	53	21.12	2.9574	190.70
3	MSM	0.00130978	763	29	13.19	1.7312	134.39
4	MM	0.00151215	661	18	36.20	.6703	274.11
5	MSF	0.00282193	354	22	02.64	2.0997	277.39
6	MF	0.00305009	327	51	33.04	.3023	284.41
7	ALP1	0.03439657	29	04	21.60	.0327	158.03
8	2Q1	0.03570635	28	00	22.40	.0815	39.88
9	SIG1	0.03590872	27	50	54.20	.1118	197.69
10	Q1	0.03721850	26	52	06.09	.1557	357.69
11	RHO1	0.03742087	26	43	23.00	.0898	86.92
12	O1	0.03873065	25	49	09.64	1.7579	94.39
13	TAU1	0.03895881	25	40	05.29	.0415	131.91
14	BET1	0.04004043	24	58	29.12	.0803	150.79
15	NO1	0.04026859	24	49	59.70	.2209	129.72
16	CHI1	0.04047097	24	42	32.65	.0896	160.66
17	P1	0.04155259	24	03	57.20	1.1817	159.10
18	K1	0.04178075	23	56	04.08	3.4523	171.48
19	PHI1	0.04200891	23	48	16.11	.0791	133.53
20	THE1	0.04309053	23	12	25.04	.0188	117.83
21	J1	0.04329290	23	05	54.51	.1875	188.63
22	SO1	0.04460268	22	25	12.64	.0520	205.61
23	OO1	0.04483084	22	18	21.86	.0941	247.22
24	UPS1	0.04634299	21	34	41.65	.0260	199.40
25	OQ2	0.07597494	13	09	44.05	.0286	109.97
26	EPS2	0.07617731	13	07	38.17	.0234	178.97
27	2N2	0.07748710	12	54	19.35	.2333	166.34
28	MU2	0.07768947	12	52	18.33	.2534	180.53
29	N2	0.07899925	12	39	30.05	1.6374	190.81
30	NU2	0.07920162	12	37	33.62	.3554	199.54
31	M2	0.08051140	12	25	14.16	8.0208	199.91
32	MKS2	0.08073957	12	23	07.80	.1200	283.85
33	LDA2	0.08182118	12	13	18.39	.0920	183.21
34	L2	0.08202355	12	11	29.83	.2321	208.60
35	S2	0.08333334	11	59	60.00	3.0949	216.64
36	K2	0.08356149	11	58	02.05	.8826	215.48
37	MSN2	0.08484548	11	47	10.07	.0158	345.56
38	ETA2	0.08507364	11	45	16.28	.0513	196.38
39	MO3	0.11924210	08	23	10.68	.0091	70.53
40	M3	0.12076710	08	16	49.44	.0924	119.87
41	SO3	0.12206400	08	11	32.73	.0213	41.30
42	MK3	0.12229210	08	10	37.72	.0114	10.52
43	SK3	0.12511410	07	59	33.74	.0848	107.10
44	MN4	0.15951060	06	16	09.03	.2337	251.25
45	M4	0.16102280	06	12	37.08	.6007	293.85
46	SN4	0.16233260	06	09	36.69	.0394	315.51
47	MS4	0.16384470	06	06	12.03	.3938	359.23
48	MK4	0.16407290	06	05	41.47	.0968	13.13
49	S4	0.16666670	05	59	60.00	.0496	217.37
50	SK4	0.16689480	05	59	30.47	.0346	199.41
51	2MK5	0.20280360	04	55	51.16	.0083	251.44
52	2SK5	0.20844740	04	47	50.54	.0050	76.39
53	2MN6	0.24002200	04	09	58.63	.0055	307.40
54	M6	0.24153420	04	08	24.72	.0293	12.67
55	2MS6	0.24435610	04	05	32.60	.0487	95.08
56	2MK6	0.24458430	04	05	18.85	.0058	178.14
57	2SM6	0.24717810	04	02	44.40	.0118	170.03
58	MSK6	0.24740620	04	02	30.97	.0154	94.96
59	3MK7	0.28331490	03	31	46.71	.0139	110.12
60	M8	0.32204560	03	06	18.54	.0072	205.81

Frequenza Ampiezza e Fase dei costituenti di marea

Genova

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				8.2822	.00
2	SSA	0.00022816	4382	53	21.12	3.3144	190.99
3	MSM	0.00130978	763	29	13.19	1.7395	132.60
4	MM	0.00151215	661	18	36.20	.5690	271.26
5	MSF	0.00282193	354	22	02.64	1.9755	273.34
6	MF	0.00305009	327	51	33.04	.5283	286.52
7	ALP1	0.03439657	29	04	21.60	.0197	261.42
8	2Q1	0.03570635	28	00	22.40	.1500	49.60
9	SIG1	0.03590872	27	50	54.20	.0870	204.12
10	Q1	0.03721850	26	52	06.09	.1107	18.06
11	RHO1	0.03742087	26	43	23.00	.0502	79.92
12	O1	0.03873065	25	49	09.64	1.6718	93.65
13	TAU1	0.03895881	25	40	05.29	.0594	150.59
14	BET1	0.04004043	24	58	29.12	.0857	155.76
15	NO1	0.04026859	24	49	59.70	.2097	124.28
16	CHI1	0.04047097	24	42	32.65	.0861	170.10
17	P1	0.04155259	24	03	57.20	1.2225	156.35
18	K1	0.04178075	23	56	04.08	3.5819	170.65
19	PHI1	0.04200891	23	48	16.11	.0204	192.24
20	THE1	0.04309053	23	12	25.04	.0281	91.53
21	J1	0.04329290	23	05	54.51	.1910	202.46
22	SO1	0.04460268	22	25	12.64	.0365	221.85
23	OO1	0.04483084	22	18	21.86	.1029	238.87
24	UPS1	0.04634299	21	34	41.65	.0241	262.58
25	OQ2	0.07597494	13	09	44.05	.0587	138.36
26	EPS2	0.07617731	13	07	38.17	.0372	147.78
27	2N2	0.07748710	12	54	19.35	.2942	163.51
28	MU2	0.07768947	12	52	18.33	.2644	172.86
29	N2	0.07899925	12	39	30.05	1.7539	185.18
30	NU2	0.07920162	12	37	33.62	.3711	189.70
31	M2	0.08051140	12	25	14.16	8.5767	194.89
32	MKS2	0.08073957	12	23	07.80	.0936	303.05
33	LDA2	0.08182118	12	13	18.39	.1014	204.71
34	L2	0.08202355	12	11	29.83	.2074	202.93
35	S2	0.08333334	11	59	60.00	3.3747	209.92
36	K2	0.08356149	11	58	02.05	.9666	206.85
37	MSN2	0.08484548	11	47	10.07	.0330	64.34
38	ETA2	0.08507364	11	45	16.28	.0508	232.08
39	MO3	0.11924210	08	23	10.68	.0034	327.64
40	M3	0.12076710	08	16	49.44	.1153	107.27
41	SO3	0.12206400	08	11	32.73	.0348	177.88
42	MK3	0.12229210	08	10	37.72	.0037	43.20
43	SK3	0.12511410	07	59	33.74	.0558	92.88
44	MN4	0.15951060	06	16	09.03	.2455	242.93
45	M4	0.16102280	06	12	37.08	.6644	282.56
46	SN4	0.16233260	06	09	36.69	.0441	267.08
47	MS4	0.16384470	06	06	12.03	.4270	343.90
48	MK4	0.16407290	06	05	41.47	.1104	2.34
49	S4	0.16666670	05	59	60.00	.0504	195.13
50	SK4	0.16689480	05	59	30.47	.0390	177.44
51	2MK5	0.20280360	04	55	51.16	.0187	266.06
52	2SK5	0.20844740	04	47	50.54	.0168	275.02
53	2MN6	0.24002200	04	09	58.63	.0207	44.92
54	M6	0.24153420	04	08	24.72	.0743	1.16
55	2MS6	0.24435610	04	05	32.60	.0451	98.02
56	2MK6	0.24458430	04	05	18.85	.0211	73.99
57	2SM6	0.24717810	04	02	44.40	.0273	318.17
58	MSK6	0.24740620	04	02	30.97	.0344	130.51
59	3MK7	0.28331490	03	31	46.71	.0161	77.18
60	M8	0.32204560	03	06	18.54	.0264	89.41

Frequenza Ampiezza e Fase dei costituenti di marea

Livorno

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				1.4568	180.00
2	SSA	0.00022816	4382	53	21.12	2.9606	199.77
3	MSM	0.00130978	763	29	13.19	1.5929	130.63
4	MM	0.00151215	661	18	36.20	.6302	283.43
5	MSF	0.00282193	354	22	02.64	2.0056	277.48
6	MF	0.00305009	327	51	33.04	.7145	284.46
7	ALP1	0.03439657	29	04	21.60	.0070	54.62
8	2Q1	0.03570635	28	00	22.40	.1416	63.54
9	SIG1	0.03590872	27	50	54.20	.1140	172.73
10	Q1	0.03721850	26	52	06.09	.0543	359.89
11	RHO1	0.03742087	26	43	23.00	.0120	57.41
12	O1	0.03873065	25	49	09.64	1.6685	93.02
13	TAU1	0.03895881	25	40	05.29	.0961	140.99
14	BET1	0.04004043	24	58	29.12	.0921	187.03
15	NO1	0.04026859	24	49	59.70	.2596	111.62
16	CHI1	0.04047097	24	42	32.65	.0648	187.02
17	P1	0.04155259	24	03	57.20	1.1582	155.96
18	K1	0.04178075	23	56	04.08	3.5370	168.90
19	PHI1	0.04200891	23	48	16.11	.1197	102.38
20	THE1	0.04309053	23	12	25.04	.0432	225.44
21	J1	0.04329290	23	05	54.51	.2016	208.01
22	SO1	0.04460268	22	25	12.64	.0669	191.08
23	OO1	0.04483084	22	18	21.86	.1331	209.85
24	UPS1	0.04634299	21	34	41.65	.0372	60.08
25	OQ2	0.07597494	13	09	44.05	.0140	169.99
26	EPS2	0.07617731	13	07	38.17	.0718	71.84
27	2N2	0.07748710	12	54	19.35	.2508	176.35
28	MU2	0.07768947	12	52	18.33	.2774	184.02
29	N2	0.07899925	12	39	30.05	1.9327	191.03
30	NU2	0.07920162	12	37	33.62	.3056	194.06
31	M2	0.08051140	12	25	14.16	9.4672	200.21
32	MKS2	0.08073957	12	23	07.80	.0968	304.08
33	LDA2	0.08182118	12	13	18.39	.0814	181.13
34	L2	0.08202355	12	11	29.83	.2616	204.98
35	S2	0.08333334	11	59	60.00	3.5848	215.82
36	K2	0.08356149	11	58	02.05	1.0621	208.80
37	MSN2	0.08484548	11	47	10.07	.0172	333.98
38	ETA2	0.08507364	11	45	16.28	.0950	162.68
39	MO3	0.11924210	08	23	10.68	.0574	10.08
40	M3	0.12076710	08	16	49.44	.0809	33.06
41	SO3	0.12206400	08	11	32.73	.0851	118.61
42	MK3	0.12229210	08	10	37.72	.0176	64.75
43	SK3	0.12511410	07	59	33.74	.0469	32.29
44	MN4	0.15951060	06	16	09.03	.2366	224.98
45	M4	0.16102280	06	12	37.08	.5208	272.53
46	SN4	0.16233260	06	09	36.69	.0671	258.26
47	MS4	0.16384470	06	06	12.03	.3915	337.27
48	MK4	0.16407290	06	05	41.47	.1186	6.42
49	S4	0.16666670	05	59	60.00	.0499	208.05
50	SK4	0.16689480	05	59	30.47	.0273	7.23
51	2MK5	0.20280360	04	55	51.16	.0064	236.92
52	2SK5	0.20844740	04	47	50.54	.0294	187.48
53	2MN6	0.24002200	04	09	58.63	.0555	21.37
54	M6	0.24153420	04	08	24.72	.0837	.01
55	2MS6	0.24435610	04	05	32.60	.0488	113.24
56	2MK6	0.24458430	04	05	18.85	.0047	59.46
57	2SM6	0.24717810	04	02	44.40	.0687	229.19
58	MSK6	0.24740620	04	02	30.97	.0545	41.04
59	3MK7	0.28331490	03	31	46.71	.0227	293.95
60	M8	0.32204560	03	06	18.54	.0141	209.32

Frequenza Ampiezza e Fase dei costituenti di marea

Civitavecchia

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				1.1344	.00
2	SSA	0.00022816	4382	53	21.12	2.0522	190.53
3	MSM	0.00130978	763	29	13.19	1.6062	140.74
4	MM	0.00151215	661	18	36.20	.7168	308.45
5	MSF	0.00282193	354	22	02.64	1.8153	296.41
6	MF	0.00305009	327	51	33.04	.6421	280.01
7	ALP1	0.03439657	29	04	21.60	.0312	217.19
8	2Q1	0.03570635	28	00	22.40	.0584	14.92
9	SIG1	0.03590872	27	50	54.20	.0777	220.04
10	Q1	0.03721850	26	52	06.09	.1620	6.51
11	RHO1	0.03742087	26	43	23.00	.0823	15.82
12	O1	0.03873065	25	49	09.64	1.0943	93.72
13	TAU1	0.03895881	25	40	05.29	.0563	114.47
14	BET1	0.04004043	24	58	29.12	.0661	187.01
15	NO1	0.04026859	24	49	59.70	.1442	125.38
16	CHI1	0.04047097	24	42	32.65	.0151	173.25
17	P1	0.04155259	24	03	57.20	.6082	167.24
18	K1	0.04178075	23	56	04.08	2.3207	180.71
19	PHI1	0.04200891	23	48	16.11	.0659	121.29
20	THE1	0.04309053	23	12	25.04	.0594	240.68
21	J1	0.04329290	23	05	54.51	.1022	229.24
22	SO1	0.04460268	22	25	12.64	.0717	97.78
23	OO1	0.04483084	22	18	21.86	.0368	226.18
24	UPS1	0.04634299	21	34	41.65	.0076	108.94
25	OQ2	0.07597494	13	09	44.05	.0908	178.08
26	EPS2	0.07617731	13	07	38.17	.0947	187.89
27	2N2	0.07748710	12	54	19.35	.3618	197.28
28	MU2	0.07768947	12	52	18.33	.3118	186.19
29	N2	0.07899925	12	39	30.05	2.1166	201.65
30	NU2	0.07920162	12	37	33.62	.2704	223.96
31	M2	0.08051140	12	25	14.16	9.9177	214.33
32	MKS2	0.08073957	12	23	07.80	.2076	28.71
33	LDA2	0.08182118	12	13	18.39	.0888	147.30
34	L2	0.08202355	12	11	29.83	.3156	239.12
35	S2	0.08333334	11	59	60.00	3.4437	232.63
36	K2	0.08356149	11	58	02.05	.8228	226.95
37	MSN2	0.08484548	11	47	10.07	.0991	161.46
38	ETA2	0.08507364	11	45	16.28	.0888	231.07
39	MO3	0.11924210	08	23	10.68	.0689	259.06
40	M3	0.12076710	08	16	49.44	.2990	329.78
41	SO3	0.12206400	08	11	32.73	.0476	58.14
42	MK3	0.12229210	08	10	37.72	.1328	331.18
43	SK3	0.12511410	07	59	33.74	.1893	303.28
44	MN4	0.15951060	06	16	09.03	.2642	12.78
45	M4	0.16102280	06	12	37.08	.3837	34.88
46	SN4	0.16233260	06	09	36.69	.0770	29.26
47	MS4	0.16384470	06	06	12.03	.2228	61.84
48	MK4	0.16407290	06	05	41.47	.0800	100.25
49	S4	0.16666670	05	59	60.00	.0564	92.52
50	SK4	0.16689480	05	59	30.47	.0505	84.49
51	2MK5	0.20280360	04	55	51.16	.0781	98.00
52	2SK5	0.20844740	04	47	50.54	.0045	282.73
53	2MN6	0.24002200	04	09	58.63	.0356	147.49
54	M6	0.24153420	04	08	24.72	.0698	134.81
55	2MS6	0.24435610	04	05	32.60	.0735	180.24
56	2MK6	0.24458430	04	05	18.85	.0345	123.61
57	2SM6	0.24717810	04	02	44.40	.0488	197.24
58	MSK6	0.24740620	04	02	30.97	.0097	264.18
59	3MK7	0.28331490	03	31	46.71	.0229	32.62
60	M8	0.32204560	03	06	18.54	.0056	125.28

Frequenza Ampiezza e Fase dei costituenti di marea

Napoli

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				10.7595	180.00
2	SSA	0.00022816	4382	53	21.12	2.3809	198.99
3	MSM	0.00130978	763	29	13.19	1.7616	151.03
4	MM	0.00151215	661	18	36.20	1.1395	322.63
5	MSF	0.00282193	354	22	02.64	1.8932	307.56
6	MF	0.00305009	327	51	33.04	.2859	317.86
7	ALP1	0.03439657	29	04	21.60	.0344	321.59
8	2Q1	0.03570635	28	00	22.40	.0316	338.38
9	SIG1	0.03590872	27	50	54.20	.0687	242.79
10	Q1	0.03721850	26	52	06.09	.1512	341.85
11	RHO1	0.03742087	26	43	23.00	.0831	26.20
12	O1	0.03873065	25	49	09.64	.9709	101.55
13	TAU1	0.03895881	25	40	05.29	.0736	85.15
14	BET1	0.04004043	24	58	29.12	.0228	78.26
15	NO1	0.04026859	24	49	59.70	.1885	140.84
16	CHI1	0.04047097	24	42	32.65	.0163	.90
17	P1	0.04155259	24	03	57.20	.8701	172.63
18	K1	0.04178075	23	56	04.08	2.6854	190.82
19	PHI1	0.04200891	23	48	16.11	.1722	213.76
20	THE1	0.04309053	23	12	25.04	.0401	244.97
21	J1	0.04329290	23	05	54.51	.1520	208.58
22	SO1	0.04460268	22	25	12.64	.0370	244.47
23	OO1	0.04483084	22	18	21.86	.1122	237.29
24	UPS1	0.04634299	21	34	41.65	.0337	327.00
25	OQ2	0.07597494	13	09	44.05	.0659	232.32
26	EPS2	0.07617731	13	07	38.17	.0372	179.66
27	2N2	0.07748710	12	54	19.35	.3769	180.17
28	MU2	0.07768947	12	52	18.33	.3899	188.68
29	N2	0.07899925	12	39	30.05	2.3545	196.78
30	NU2	0.07920162	12	37	33.62	.6585	220.79
31	M2	0.08051140	12	25	14.16	11.5977	212.99
32	MKS2	0.08073957	12	23	07.80	.8274	290.67
33	LDA2	0.08182118	12	13	18.39	.0555	192.30
34	L2	0.08202355	12	11	29.83	.2926	243.77
35	S2	0.08333334	11	59	60.00	4.2318	235.27
36	K2	0.08356149	11	58	02.05	1.1791	242.19
37	MSN2	0.08484548	11	47	10.07	.0486	138.55
38	ETA2	0.08507364	11	45	16.28	.0921	246.46
39	MO3	0.11924210	08	23	10.68	.0888	235.67
40	M3	0.12076710	08	16	49.44	.4437	315.57
41	SO3	0.12206400	08	11	32.73	.0367	82.72
42	MK3	0.12229210	08	10	37.72	.1049	314.01
43	SK3	0.12511410	07	59	33.74	.1542	267.70
44	MN4	0.15951060	06	16	09.03	.1578	67.32
45	M4	0.16102280	06	12	37.08	.3486	101.67
46	SN4	0.16233260	06	09	36.69	.0191	77.68
47	MS4	0.16384470	06	06	12.03	.1973	156.36
48	MK4	0.16407290	06	05	41.47	.0763	193.53
49	S4	0.16666670	05	59	60.00	.0225	90.73
50	SK4	0.16689480	05	59	30.47	.0140	89.03
51	2MK5	0.20280360	04	55	51.16	.0402	169.55
52	2SK5	0.20844740	04	47	50.54	.0198	101.69
53	2MN6	0.24002200	04	09	58.63	.0072	274.78
54	M6	0.24153420	04	08	24.72	.0318	309.08
55	2MS6	0.24435610	04	05	32.60	.0639	333.56
56	2MK6	0.24458430	04	05	18.85	.0350	291.21
57	2SM6	0.24717810	04	02	44.40	.0710	211.04
58	MSK6	0.24740620	04	02	30.97	.0411	317.34
59	3MK7	0.28331490	03	31	46.71	.0110	211.79
60	M8	0.32204560	03	06	18.54	.0186	342.33

Frequenza Ampiezza e Fase dei costituenti di marea

Salerno

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				15.8345	180.00
2	SSA	0.00022816	4382	53	21.12	2.7375	195.79
3	MSM	0.00130978	763	29	13.19	1.8726	146.14
4	MM	0.00151215	661	18	36.20	1.1714	325.30
5	MSF	0.00282193	354	22	02.64	1.9630	307.10
6	MF	0.00305009	327	51	33.04	.4481	331.10
7	ALP1	0.03439657	29	04	21.60	.0330	308.29
8	2Q1	0.03570635	28	00	22.40	.0718	280.59
9	SIG1	0.03590872	27	50	54.20	.0446	224.27
10	Q1	0.03721850	26	52	06.09	.1720	325.89
11	RHO1	0.03742087	26	43	23.00	.0938	60.96
12	O1	0.03873065	25	49	09.64	.9766	97.18
13	TAU1	0.03895881	25	40	05.29	.0915	163.67
14	BET1	0.04004043	24	58	29.12	.0852	133.91
15	NO1	0.04026859	24	49	59.70	.2387	131.23
16	CHI1	0.04047097	24	42	32.65	.0413	178.98
17	P1	0.04155259	24	03	57.20	.7396	170.70
18	K1	0.04178075	23	56	04.08	2.8633	183.19
19	PHI1	0.04200891	23	48	16.11	.0910	217.52
20	THE1	0.04309053	23	12	25.04	.1196	171.56
21	J1	0.04329290	23	05	54.51	.2055	231.10
22	SO1	0.04460268	22	25	12.64	.1009	263.37
23	OO1	0.04483084	22	18	21.86	.0908	220.90
24	UPS1	0.04634299	21	34	41.65	.0926	11.32
25	OQ2	0.07597494	13	09	44.05	.0249	195.82
26	EPS2	0.07617731	13	07	38.17	.1063	160.70
27	2N2	0.07748710	12	54	19.35	.3011	164.34
28	MU2	0.07768947	12	52	18.33	.4045	170.46
29	N2	0.07899925	12	39	30.05	2.4604	189.40
30	NU2	0.07920162	12	37	33.62	.4080	193.80
31	M2	0.08051140	12	25	14.16	12.1196	202.66
32	MKS2	0.08073957	12	23	07.80	.0452	259.21
33	LDA2	0.08182118	12	13	18.39	.1413	201.81
34	L2	0.08202355	12	11	29.83	.2672	203.46
35	S2	0.08333334	11	59	60.00	4.4836	222.26
36	K2	0.08356149	11	58	02.05	1.2361	217.57
37	MSN2	0.08484548	11	47	10.07	.0288	235.20
38	ETA2	0.08507364	11	45	16.28	.0328	229.62
39	MO3	0.11924210	08	23	10.68	.0250	219.98
40	M3	0.12076710	08	16	49.44	.4785	309.98
41	SO3	0.12206400	08	11	32.73	.1034	24.83
42	MK3	0.12229210	08	10	37.72	.0175	350.56
43	SK3	0.12511410	07	59	33.74	.2046	269.46
44	MN4	0.15951060	06	16	09.03	.1552	61.77
45	M4	0.16102280	06	12	37.08	.4382	82.83
46	SN4	0.16233260	06	09	36.69	.0418	53.86
47	MS4	0.16384470	06	06	12.03	.2121	135.51
48	MK4	0.16407290	06	05	41.47	.0674	127.99
49	S4	0.16666670	05	59	60.00	.0696	43.13
50	SK4	0.16689480	05	59	30.47	.0327	11.30
51	2MK5	0.20280360	04	55	51.16	.0123	103.12
52	2SK5	0.20844740	04	47	50.54	.0175	41.90
53	2MN6	0.24002200	04	09	58.63	.0109	333.60
54	M6	0.24153420	04	08	24.72	.0274	221.58
55	2MS6	0.24435610	04	05	32.60	.0385	171.57
56	2MK6	0.24458430	04	05	18.85	.0271	193.35
57	2SM6	0.24717810	04	02	44.40	.0237	131.78
58	MSK6	0.24740620	04	02	30.97	.0379	131.25
59	3MK7	0.28331490	03	31	46.71	.0276	292.59
60	M8	0.32204560	03	06	18.54	.0111	149.54

Frequenza Ampiezza e Fase dei costituenti di marea

Palinuro

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				8.0871	180.00
2	SSA	0.00022816	4382	53	21.12	2.6130	186.30
3	MSM	0.00130978	763	29	13.19	1.9870	158.17
4	MM	0.00151215	661	18	36.20	1.2410	335.23
5	MSF	0.00282193	354	22	02.64	2.0048	316.21
6	MF	0.00305009	327	51	33.04	.3984	4.64
7	ALP1	0.03439657	29	04	21.60	.0728	288.91
8	2Q1	0.03570635	28	00	22.40	.0531	320.78
9	SIG1	0.03590872	27	50	54.20	.0454	297.85
10	Q1	0.03721850	26	52	06.09	.1111	311.60
11	RHO1	0.03742087	26	43	23.00	.0862	354.56
12	O1	0.03873065	25	49	09.64	.8918	102.23
13	TAU1	0.03895881	25	40	05.29	.0784	143.87
14	BET1	0.04004043	24	58	29.12	.0213	158.14
15	NO1	0.04026859	24	49	59.70	.1862	125.62
16	CHI1	0.04047097	24	42	32.65	.0111	216.55
17	P1	0.04155259	24	03	57.20	.8026	172.36
18	K1	0.04178075	23	56	04.08	2.8770	184.65
19	PHI1	0.04200891	23	48	16.11	.0391	147.90
20	THE1	0.04309053	23	12	25.04	.0978	230.92
21	J1	0.04329290	23	05	54.51	.1933	203.93
22	SO1	0.04460268	22	25	12.64	.0275	232.06
23	OO1	0.04483084	22	18	21.86	.0825	220.36
24	UPS1	0.04634299	21	34	41.65	.0207	311.22
25	OQ2	0.07597494	13	09	44.05	.0373	208.59
26	EPS2	0.07617731	13	07	38.17	.0816	162.59
27	2N2	0.07748710	12	54	19.35	.3587	174.84
28	MU2	0.07768947	12	52	18.33	.3955	171.61
29	N2	0.07899925	12	39	30.05	2.4919	190.86
30	NU2	0.07920162	12	37	33.62	.4959	196.43
31	M2	0.08051140	12	25	14.16	12.3258	203.70
32	MKS2	0.08073957	12	23	07.80	.0384	220.72
33	LDA2	0.08182118	12	13	18.39	.0785	167.02
34	L2	0.08202355	12	11	29.83	.2665	224.97
35	S2	0.08333334	11	59	60.00	4.6209	222.66
36	K2	0.08356149	11	58	02.05	1.2036	218.19
37	MSN2	0.08484548	11	47	10.07	.0324	170.75
38	ETA2	0.08507364	11	45	16.28	.0614	178.60
39	MO3	0.11924210	08	23	10.68	.0242	228.07
40	M3	0.12076710	08	16	49.44	.4601	308.79
41	SO3	0.12206400	08	11	32.73	.0509	49.46
42	MK3	0.12229210	08	10	37.72	.0483	247.32
43	SK3	0.12511410	07	59	33.74	.1890	262.93
44	MN4	0.15951060	06	16	09.03	.1762	39.53
45	M4	0.16102280	06	12	37.08	.4320	79.85
46	SN4	0.16233260	06	09	36.69	.0349	126.13
47	MS4	0.16384470	06	06	12.03	.2526	133.94
48	MK4	0.16407290	06	05	41.47	.0769	137.56
49	S4	0.16666670	05	59	60.00	.0427	69.26
50	SK4	0.16689480	05	59	30.47	.0218	51.91
51	2MK5	0.20280360	04	55	51.16	.0428	342.29
52	2SK5	0.20844740	04	47	50.54	.0210	340.70
53	2MN6	0.24002200	04	09	58.63	.0163	147.66
54	M6	0.24153420	04	08	24.72	.0127	184.38
55	2MS6	0.24435610	04	05	32.60	.0275	88.67
56	2MK6	0.24458430	04	05	18.85	.0348	344.53
57	2SM6	0.24717810	04	02	44.40	.0188	173.69
58	MSK6	0.24740620	04	02	30.97	.0197	178.77
59	3MK7	0.28331490	03	31	46.71	.0226	257.04
60	M8	0.32204560	03	06	18.54	.0070	8.22

Frequenza Ampiezza e Fase dei costituenti di marea

Reggio Calabria

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				13.8646	180.00
2	SSA	0.00022816	4382	53	21.12	1.6170	219.09
3	MSM	0.00130978	763	29	13.19	2.7727	160.06
4	MM	0.00151215	661	18	36.20	1.0579	342.08
5	MSF	0.00282193	354	22	02.64	2.2368	326.00
6	MF	0.00305009	327	51	33.04	.6648	95.63
7	ALP1	0.03439657	29	04	21.60	.1528	344.96
8	2Q1	0.03570635	28	00	22.40	.0326	221.25
9	SIG1	0.03590872	27	50	54.20	.0852	42.82
10	Q1	0.03721850	26	52	06.09	.2482	40.65
11	RHO1	0.03742087	26	43	23.00	.0777	291.54
12	O1	0.03873065	25	49	09.64	.9974	31.47
13	TAU1	0.03895881	25	40	05.29	.1333	41.46
14	BET1	0.04004043	24	58	29.12	.0537	326.21
15	NO1	0.04026859	24	49	59.70	.0313	5.99
16	CHI1	0.04047097	24	42	32.65	.0336	21.97
17	P1	0.04155259	24	03	57.20	.5860	26.18
18	K1	0.04178075	23	56	04.08	1.2366	24.76
19	PHI1	0.04200891	23	48	16.11	.0408	109.12
20	THE1	0.04309053	23	12	25.04	.0650	13.88
21	J1	0.04329290	23	05	54.51	.0647	24.27
22	SO1	0.04460268	22	25	12.64	.1145	92.19
23	OO1	0.04483084	22	18	21.86	.0700	348.09
24	UPS1	0.04634299	21	34	41.65	.0385	218.90
25	OQ2	0.07597494	13	09	44.05	.0337	35.42
26	EPS2	0.07617731	13	07	38.17	.0464	89.75
27	2N2	0.07748710	12	54	19.35	.1180	30.97
28	MU2	0.07768947	12	52	18.33	.1894	56.41
29	N2	0.07899925	12	39	30.05	1.1809	38.56
30	NU2	0.07920162	12	37	33.62	.2339	28.56
31	M2	0.08051140	12	25	14.16	6.2835	34.80
32	MKS2	0.08073957	12	23	07.80	.1326	111.50
33	LDA2	0.08182118	12	13	18.39	.0521	33.28
34	L2	0.08202355	12	11	29.83	.3247	42.72
35	S2	0.08333334	11	59	60.00	3.1392	40.73
36	K2	0.08356149	11	58	02.05	.9565	31.80
37	MSN2	0.08484548	11	47	10.07	.0461	229.23
38	ETA2	0.08507364	11	45	16.28	.0424	74.23
39	MO3	0.11924210	08	23	10.68	.0942	314.88
40	M3	0.12076710	08	16	49.44	.2081	127.01
41	SO3	0.12206400	08	11	32.73	.0910	247.47
42	MK3	0.12229210	08	10	37.72	.2726	216.18
43	SK3	0.12511410	07	59	33.74	.0578	119.54
44	MN4	0.15951060	06	16	09.03	.1920	312.76
45	M4	0.16102280	06	12	37.08	.5682	308.27
46	SN4	0.16233260	06	09	36.69	.0497	267.51
47	MS4	0.16384470	06	06	12.03	.4076	331.09
48	MK4	0.16407290	06	05	41.47	.1116	258.13
49	S4	0.16666670	05	59	60.00	.0329	7.96
50	SK4	0.16689480	05	59	30.47	.0058	157.67
51	2MK5	0.20280360	04	55	51.16	.1534	160.13
52	2SK5	0.20844740	04	47	50.54	.0371	279.47
53	2MN6	0.24002200	04	09	58.63	.0459	230.76
54	M6	0.24153420	04	08	24.72	.1548	234.31
55	2MS6	0.24435610	04	05	32.60	.1624	259.77
56	2MK6	0.24458430	04	05	18.85	.0500	248.57
57	2SM6	0.24717810	04	02	44.40	.0297	258.37
58	MSK6	0.24740620	04	02	30.97	.0171	290.43
59	3MK7	0.28331490	03	31	46.71	.0390	98.88
60	M8	0.32204560	03	06	18.54	.0313	90.98

Frequenza Ampiezza e Fase dei costituenti di marea

Crotone

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				14.5492	180.00
2	SSA	0.00022816	4382	53	21.12	2.9561	225.38
3	MSM	0.00130978	763	29	13.19	3.0249	158.38
4	MM	0.00151215	661	18	36.20	1.0634	336.82
5	MSF	0.00282193	354	22	02.64	2.3229	327.29
6	MF	0.00305009	327	51	33.04	1.5900	80.16
7	ALP1	0.03439657	29	04	21.60	.0700	13.30
8	2Q1	0.03570635	28	00	22.40	.0692	308.95
9	SIG1	0.03590872	27	50	54.20	.1781	18.61
10	Q1	0.03721850	26	52	06.09	.1952	47.41
11	RHO1	0.03742087	26	43	23.00	.1201	25.28
12	O1	0.03873065	25	49	09.64	.9873	22.14
13	TAU1	0.03895881	25	40	05.29	.0952	181.68
14	BET1	0.04004043	24	58	29.12	.0708	47.69
15	NO1	0.04026859	24	49	59.70	.1172	23.01
16	CHI1	0.04047097	24	42	32.65	.0503	128.43
17	P1	0.04155259	24	03	57.20	.7931	20.51
18	K1	0.04178075	23	56	04.08	1.9002	27.00
19	PHI1	0.04200891	23	48	16.11	.0302	316.98
20	THE1	0.04309053	23	12	25.04	.0696	316.49
21	J1	0.04329290	23	05	54.51	.0547	186.68
22	SO1	0.04460268	22	25	12.64	.0685	228.73
23	OO1	0.04483084	22	18	21.86	.0272	271.71
24	UPS1	0.04634299	21	34	41.65	.0080	214.92
25	OQ2	0.07597494	13	09	44.05	.0236	267.35
26	EPS2	0.07617731	13	07	38.17	.0193	212.04
27	2N2	0.07748710	12	54	19.35	.1815	42.28
28	MU2	0.07768947	12	52	18.33	.1867	31.00
29	N2	0.07899925	12	39	30.05	1.1568	41.51
30	NU2	0.07920162	12	37	33.62	.2818	40.97
31	M2	0.08051140	12	25	14.16	6.3665	35.56
32	MKS2	0.08073957	12	23	07.80	.0199	96.17
33	LDA2	0.08182118	12	13	18.39	.0932	76.94
34	L2	0.08202355	12	11	29.83	.1276	45.34
35	S2	0.08333334	11	59	60.00	3.3281	40.05
36	K2	0.08356149	11	58	02.05	.9450	37.13
37	MSN2	0.08484548	11	47	10.07	.0427	90.04
38	ETA2	0.08507364	11	45	16.28	.0760	36.10
39	MO3	0.11924210	08	23	10.68	.0182	50.50
40	M3	0.12076710	08	16	49.44	.2615	127.38
41	SO3	0.12206400	08	11	32.73	.1288	210.08
42	MK3	0.12229210	08	10	37.72	.0927	310.72
43	SK3	0.12511410	07	59	33.74	.0228	91.17
44	MN4	0.15951060	06	16	09.03	.0733	81.55
45	M4	0.16102280	06	12	37.08	.0414	89.55
46	SN4	0.16233260	06	09	36.69	.0596	163.70
47	MS4	0.16384470	06	06	12.03	.0990	163.17
48	MK4	0.16407290	06	05	41.47	.0504	109.06
49	S4	0.16666670	05	59	60.00	.0407	143.50
50	SK4	0.16689480	05	59	30.47	.0069	94.61
51	2MK5	0.20280360	04	55	51.16	.0194	168.10
52	2SK5	0.20844740	04	47	50.54	.0468	316.67
53	2MN6	0.24002200	04	09	58.63	.0177	31.76
54	M6	0.24153420	04	08	24.72	.0104	174.33
55	2MS6	0.24435610	04	05	32.60	.0040	300.80
56	2MK6	0.24458430	04	05	18.85	.0487	187.99
57	2SM6	0.24717810	04	02	44.40	.0129	286.56
58	MSK6	0.24740620	04	02	30.97	.0502	55.21
59	3MK7	0.28331490	03	31	46.71	.0570	166.40
60	M8	0.32204560	03	06	18.54	.0337	90.71

Frequenza Ampiezza e Fase dei costituenti di marea

Taranto

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				18.3874	180.00
2	SSA	0.00022816	4382	53	21.12	3.0375	225.05
3	MSM	0.00130978	763	29	13.19	2.9471	148.19
4	MM	0.00151215	661	18	36.20	1.4034	331.07
5	MSF	0.00282193	354	22	02.64	2.2787	325.22
6	MF	0.00305009	327	51	33.04	.9830	61.44
7	ALP1	0.03439657	29	04	21.60	.1045	348.92
8	2Q1	0.03570635	28	00	22.40	.0094	218.27
9	SIG1	0.03590872	27	50	54.20	.1134	17.14
10	Q1	0.03721850	26	52	06.09	.2183	40.24
11	RHO1	0.03742087	26	43	23.00	.0682	12.11
12	O1	0.03873065	25	49	09.64	.9059	17.12
13	TAU1	0.03895881	25	40	05.29	.0348	312.25
14	BET1	0.04004043	24	58	29.12	.0441	13.61
15	NO1	0.04026859	24	49	59.70	.0934	352.82
16	CHI1	0.04047097	24	42	32.65	.0503	93.07
17	P1	0.04155259	24	03	57.20	.7355	13.58
18	K1	0.04178075	23	56	04.08	1.9838	24.84
19	PHI1	0.04200891	23	48	16.11	.0344	312.21
20	THE1	0.04309053	23	12	25.04	.0215	26.90
21	J1	0.04329290	23	05	54.51	.0789	9.06
22	SO1	0.04460268	22	25	12.64	.0506	329.94
23	OO1	0.04483084	22	18	21.86	.0472	28.01
24	UPS1	0.04634299	21	34	41.65	.0204	136.58
25	OQ2	0.07597494	13	09	44.05	.0040	57.74
26	EPS2	0.07617731	13	07	38.17	.0323	32.88
27	2N2	0.07748710	12	54	19.35	.1565	41.26
28	MU2	0.07768947	12	52	18.33	.1867	44.01
29	N2	0.07899925	12	39	30.05	1.1973	43.48
30	NU2	0.07920162	12	37	33.62	.2376	33.27
31	M2	0.08051140	12	25	14.16	6.5426	40.66
32	MKS2	0.08073957	12	23	07.80	.0285	238.86
33	LDA2	0.08182118	12	13	18.39	.0470	47.69
34	L2	0.08202355	12	11	29.83	.2616	51.81
35	S2	0.08333334	11	59	60.00	3.4617	44.99
36	K2	0.08356149	11	58	02.05	1.0047	41.06
37	MSN2	0.08484548	11	47	10.07	.0196	271.74
38	ETA2	0.08507364	11	45	16.28	.0762	53.23
39	MO3	0.11924210	08	23	10.68	.0340	34.63
40	M3	0.12076710	08	16	49.44	.2281	121.23
41	SO3	0.12206400	08	11	32.73	.0208	232.82
42	MK3	0.12229210	08	10	37.72	.0067	133.59
43	SK3	0.12511410	07	59	33.74	.1191	75.55
44	MN4	0.15951060	06	16	09.03	.0361	27.28
45	M4	0.16102280	06	12	37.08	.0902	77.23
46	SN4	0.16233260	06	09	36.69	.0236	18.23
47	MS4	0.16384470	06	06	12.03	.0693	115.68
48	MK4	0.16407290	06	05	41.47	.0088	102.01
49	S4	0.16666670	05	59	60.00	.0668	129.54
50	SK4	0.16689480	05	59	30.47	.0083	245.38
51	2MK5	0.20280360	04	55	51.16	.0239	173.37
52	2SK5	0.20844740	04	47	50.54	.0050	200.53
53	2MN6	0.24002200	04	09	58.63	.0046	268.31
54	M6	0.24153420	04	08	24.72	.0032	292.21
55	2MS6	0.24435610	04	05	32.60	.0471	258.49
56	2MK6	0.24458430	04	05	18.85	.0414	248.78
57	2SM6	0.24717810	04	02	44.40	.0461	8.66
58	MSK6	0.24740620	04	02	30.97	.0123	314.01
59	3MK7	0.28331490	03	31	46.71	.0217	292.64
60	M8	0.32204560	03	06	18.54	.0092	139.39

Frequenza Ampiezza e Fase dei costituenti di marea

Otranto

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				22.7102	180.00
2	SSA	0.00022816	4382	53	21.12	3.6111	238.94
3	MSM	0.00130978	763	29	13.19	2.8112	156.72
4	MM	0.00151215	661	18	36.20	1.3922	329.20
5	MSF	0.00282193	354	22	02.64	2.3359	330.68
6	MF	0.00305009	327	51	33.04	1.9404	79.50
7	ALP1	0.03439657	29	04	21.60	.0902	350.33
8	2Q1	0.03570635	28	00	22.40	.0368	211.08
9	SIG1	0.03590872	27	50	54.20	.0712	21.83
10	Q1	0.03721850	26	52	06.09	.3283	48.27
11	RHO1	0.03742087	26	43	23.00	.0778	355.27
12	O1	0.03873065	25	49	09.64	1.0136	36.05
13	TAU1	0.03895881	25	40	05.29	.0451	293.44
14	BET1	0.04004043	24	58	29.12	.0553	102.30
15	NO1	0.04026859	24	49	59.70	.1191	14.30
16	CHI1	0.04047097	24	42	32.65	.0328	107.15
17	P1	0.04155259	24	03	57.20	.8173	42.46
18	K1	0.04178075	23	56	04.08	2.3518	50.61
19	PHI1	0.04200891	23	48	16.11	.0573	91.76
20	THE1	0.04309053	23	12	25.04	.0425	324.35
21	J1	0.04329290	23	05	54.51	.0661	72.84
22	SO1	0.04460268	22	25	12.64	.0733	4.87
23	OO1	0.04483084	22	18	21.86	.0848	124.67
24	UPS1	0.04634299	21	34	41.65	.0265	50.72
25	OQ2	0.07597494	13	09	44.05	.0771	15.38
26	EPS2	0.07617731	13	07	38.17	.0466	69.06
27	2N2	0.07748710	12	54	19.35	.1219	35.36
28	MU2	0.07768947	12	52	18.33	.1394	40.73
29	N2	0.07899925	12	39	30.05	1.2102	48.03
30	NU2	0.07920162	12	37	33.62	.2874	50.74
31	M2	0.08051140	12	25	14.16	7.0412	44.68
32	MKS2	0.08073957	12	23	07.80	.0333	264.21
33	LDA2	0.08182118	12	13	18.39	.0611	63.61
34	L2	0.08202355	12	11	29.83	.3290	54.50
35	S2	0.08333334	11	59	60.00	4.1478	52.29
36	K2	0.08356149	11	58	02.05	1.2012	47.39
37	MSN2	0.08484548	11	47	10.07	.0281	272.31
38	ETA2	0.08507364	11	45	16.28	.0881	87.25
39	MO3	0.11924210	08	23	10.68	.0387	29.64
40	M3	0.12076710	08	16	49.44	.1523	122.76
41	SO3	0.12206400	08	11	32.73	.0558	197.73
42	MK3	0.12229210	08	10	37.72	.0239	338.08
43	SK3	0.12511410	07	59	33.74	.0770	94.35
44	MN4	0.15951060	06	16	09.03	.0108	87.43
45	M4	0.16102280	06	12	37.08	.0922	100.21
46	SN4	0.16233260	06	09	36.69	.0390	230.11
47	MS4	0.16384470	06	06	12.03	.0493	136.19
48	MK4	0.16407290	06	05	41.47	.0311	161.99
49	S4	0.16666670	05	59	60.00	.0338	108.32
50	SK4	0.16689480	05	59	30.47	.0273	153.74
51	2MK5	0.20280360	04	55	51.16	.0518	68.09
52	2SK5	0.20844740	04	47	50.54	.0254	119.02
53	2MN6	0.24002200	04	09	58.63	.0392	129.96
54	M6	0.24153420	04	08	24.72	.0467	1.74
55	2MS6	0.24435610	04	05	32.60	.0271	163.36
56	2MK6	0.24458430	04	05	18.85	.0227	19.55
57	2SM6	0.24717810	04	02	44.40	.0324	128.46
58	MSK6	0.24740620	04	02	30.97	.0288	260.64
59	3MK7	0.28331490	03	31	46.71	.0641	297.02
60	M8	0.32204560	03	06	18.54	.0244	146.01

Frequenza Ampiezza e Fase dei costituenti di marea

Bari

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				12.0012	180.00
2	SSA	0.00022816	4382	53	21.12	3.0501	218.75
3	MSM	0.00130978	763	29	13.19	2.9086	155.05
4	MM	0.00151215	661	18	36.20	1.5877	334.26
5	MSF	0.00282193	354	22	02.64	2.7757	331.34
6	MF	0.00305009	327	51	33.04	1.5401	64.45
7	ALP1	0.03439657	29	04	21.60	.0675	40.15
8	2Q1	0.03570635	28	00	22.40	.0728	112.62
9	SIG1	0.03590872	27	50	54.20	.1064	347.76
10	Q1	0.03721850	26	52	06.09	.4122	45.10
11	RHO1	0.03742087	26	43	23.00	.1463	335.78
12	O1	0.03873065	25	49	09.64	1.8739	18.54
13	TAU1	0.03895881	25	40	05.29	.0768	220.69
14	BET1	0.04004043	24	58	29.12	.0950	88.77
15	NO1	0.04026859	24	49	59.70	.2083	344.68
16	CHI1	0.04047097	24	42	32.65	.1020	57.04
17	P1	0.04155259	24	03	57.20	1.7472	25.48
18	K1	0.04178075	23	56	04.08	5.1883	36.99
19	PHI1	0.04200891	23	48	16.11	.2227	49.87
20	THE1	0.04309053	23	12	25.04	.1406	28.71
21	J1	0.04329290	23	05	54.51	.2197	28.86
22	SO1	0.04460268	22	25	12.64	.0256	193.59
23	OO1	0.04483084	22	18	21.86	.1946	81.79
24	UPS1	0.04634299	21	34	41.65	.2409	329.28
25	OQ2	0.07597494	13	09	44.05	.0506	23.61
26	EPS2	0.07617731	13	07	38.17	.0829	103.63
27	2N2	0.07748710	12	54	19.35	.1818	35.21
28	MU2	0.07768947	12	52	18.33	.2154	35.32
29	N2	0.07899925	12	39	30.05	1.7090	48.70
30	NU2	0.07920162	12	37	33.62	.3052	36.33
31	M2	0.08051140	12	25	14.16	9.7319	44.93
32	MKS2	0.08073957	12	23	07.80	.0678	196.80
33	LDA2	0.08182118	12	13	18.39	.0952	49.55
34	L2	0.08202355	12	11	29.83	.4381	54.84
35	S2	0.08333334	11	59	60.00	6.1860	51.70
36	K2	0.08356149	11	58	02.05	1.8290	46.29
37	MSN2	0.08484548	11	47	10.07	.0817	207.70
38	ETA2	0.08507364	11	45	16.28	.1789	70.53
39	MO3	0.11924210	08	23	10.68	.0295	317.85
40	M3	0.12076710	08	16	49.44	.1383	132.17
41	SO3	0.12206400	08	11	32.73	.0677	142.66
42	MK3	0.12229210	08	10	37.72	.0766	58.02
43	SK3	0.12511410	07	59	33.74	.1275	118.03
44	MN4	0.15951060	06	16	09.03	.0288	93.00
45	M4	0.16102280	06	12	37.08	.0157	121.73
46	SN4	0.16233260	06	09	36.69	.0251	260.56
47	MS4	0.16384470	06	06	12.03	.0295	112.13
48	MK4	0.16407290	06	05	41.47	.0403	298.90
49	S4	0.16666670	05	59	60.00	.1002	235.60
50	SK4	0.16689480	05	59	30.47	.0506	308.50
51	2MK5	0.20280360	04	55	51.16	.0485	67.34
52	2SK5	0.20844740	04	47	50.54	.0104	203.50
53	2MN6	0.24002200	04	09	58.63	.0485	90.55
54	M6	0.24153420	04	08	24.72	.0426	77.65
55	2MS6	0.24435610	04	05	32.60	.0255	179.61
56	2MK6	0.24458430	04	05	18.85	.0360	227.09
57	2SM6	0.24717810	04	02	44.40	.0222	140.00
58	MSK6	0.24740620	04	02	30.97	.0245	58.92
59	3MK7	0.28331490	03	31	46.71	.0625	345.81
60	M8	0.32204560	03	06	18.54	.0161	160.91

Frequenza Ampiezza e Fase dei costituenti di marea

Vieste

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				9.0645	180.00
2	SSA	0.00022816	4382	53	21.12	3.3296	200.61
3	MSM	0.00130978	763	29	13.19	2.7773	150.34
4	MM	0.00151215	661	18	36.20	1.6200	327.93
5	MSF	0.00282193	354	22	02.64	2.6471	326.40
6	MF	0.00305009	327	51	33.04	1.1198	51.54
7	ALP1	0.03439657	29	04	21.60	.1162	18.98
8	2Q1	0.03570635	28	00	22.40	.0552	17.08
9	SIG1	0.03590872	27	50	54.20	.1489	31.58
10	Q1	0.03721850	26	52	06.09	.4198	56.65
11	RHO1	0.03742087	26	43	23.00	.1258	14.50
12	O1	0.03873065	25	49	09.64	1.7698	44.46
13	TAU1	0.03895881	25	40	05.29	.0739	244.51
14	BET1	0.04004043	24	58	29.12	.0833	120.67
15	NO1	0.04026859	24	49	59.70	.2757	17.79
16	CHI1	0.04047097	24	42	32.65	.1201	103.61
17	P1	0.04155259	24	03	57.20	1.7432	48.80
18	K1	0.04178075	23	56	04.08	5.2054	61.15
19	PHI1	0.04200891	23	48	16.11	.2257	71.52
20	THE1	0.04309053	23	12	25.04	.0538	23.90
21	J1	0.04329290	23	05	54.51	.1997	54.60
22	SO1	0.04460268	22	25	12.64	.0628	117.62
23	OO1	0.04483084	22	18	21.86	.2127	90.43
24	UPS1	0.04634299	21	34	41.65	.2325	352.81
25	OQ2	0.07597494	13	09	44.05	.0526	4.98
26	EPS2	0.07617731	13	07	38.17	.1020	118.94
27	2N2	0.07748710	12	54	19.35	.1754	58.47
28	MU2	0.07768947	12	52	18.33	.2319	44.31
29	N2	0.07899925	12	39	30.05	1.6401	47.44
30	NU2	0.07920162	12	37	33.62	.2888	37.64
31	M2	0.08051140	12	25	14.16	9.5628	42.57
32	MKS2	0.08073957	12	23	07.80	.1195	151.32
33	LDA2	0.08182118	12	13	18.39	.0785	342.10
34	L2	0.08202355	12	11	29.83	.3824	52.34
35	S2	0.08333334	11	59	60.00	6.1252	51.11
36	K2	0.08356149	11	58	02.05	1.8686	46.28
37	MSN2	0.08484548	11	47	10.07	.0625	192.21
38	ETA2	0.08507364	11	45	16.28	.0778	53.46
39	MO3	0.11924210	08	23	10.68	.0327	172.67
40	M3	0.12076710	08	16	49.44	.0391	206.50
41	SO3	0.12206400	08	11	32.73	.0752	234.60
42	MK3	0.12229210	08	10	37.72	.0678	319.45
43	SK3	0.12511410	07	59	33.74	.0154	71.91
44	MN4	0.15951060	06	16	09.03	.0310	194.05
45	M4	0.16102280	06	12	37.08	.0434	149.43
46	SN4	0.16233260	06	09	36.69	.0561	63.52
47	MS4	0.16384470	06	06	12.03	.0140	344.79
48	MK4	0.16407290	06	05	41.47	.0388	238.69
49	S4	0.16666670	05	59	60.00	.0515	241.13
50	SK4	0.16689480	05	59	30.47	.0549	245.54
51	2MK5	0.20280360	04	55	51.16	.0194	112.08
52	2SK5	0.20844740	04	47	50.54	.0384	341.24
53	2MN6	0.24002200	04	09	58.63	.0484	100.91
54	M6	0.24153420	04	08	24.72	.0554	205.49
55	2MS6	0.24435610	04	05	32.60	.0193	149.64
56	2MK6	0.24458430	04	05	18.85	.0368	190.31
57	2SM6	0.24717810	04	02	44.40	.0164	258.76
58	MSK6	0.24740620	04	02	30.97	.0552	48.86
59	3MK7	0.28331490	03	31	46.71	.0509	200.57
60	M8	0.32204560	03	06	18.54	.0458	157.45

Frequenza Ampiezza e Fase dei costituenti di marea

Ortona

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				1.9590	180.00
2	SSA	0.00022816	4382	53	21.12	3.2174	205.22
3	MSM	0.00130978	763	29	13.19	2.6083	152.21
4	MM	0.00151215	661	18	36.20	1.7023	325.20
5	MSF	0.00282193	354	22	02.64	3.1413	312.59
6	MF	0.00305009	327	51	33.04	.6533	25.16
7	ALP1	0.03439657	29	04	21.60	.0986	319.06
8	2Q1	0.03570635	28	00	22.40	.1669	17.25
9	SIG1	0.03590872	27	50	54.20	.1463	33.06
10	Q1	0.03721850	26	52	06.09	.6408	57.48
11	RHO1	0.03742087	26	43	23.00	.1570	27.05
12	O1	0.03873065	25	49	09.64	2.9487	40.78
13	TAU1	0.03895881	25	40	05.29	.0783	200.58
14	BET1	0.04004043	24	58	29.12	.2237	126.01
15	NO1	0.04026859	24	49	59.70	.3793	22.55
16	CHI1	0.04047097	24	42	32.65	.0578	73.84
17	P1	0.04155259	24	03	57.20	2.7996	41.95
18	K1	0.04178075	23	56	04.08	9.1912	53.95
19	PHI1	0.04200891	23	48	16.11	.2673	80.66
20	THE1	0.04309053	23	12	25.04	.1914	34.55
21	J1	0.04329290	23	05	54.51	.4108	54.87
22	SO1	0.04460268	22	25	12.64	.1693	187.41
23	OO1	0.04483084	22	18	21.86	.3119	91.17
24	UPS1	0.04634299	21	34	41.65	.5763	341.79
25	OQ2	0.07597494	13	09	44.05	.0194	358.12
26	EPS2	0.07617731	13	07	38.17	.0380	84.69
27	2N2	0.07748710	12	54	19.35	.1105	43.62
28	MU2	0.07768947	12	52	18.33	.0982	13.60
29	N2	0.07899925	12	39	30.05	1.0809	38.53
30	NU2	0.07920162	12	37	33.62	.2280	34.60
31	M2	0.08051140	12	25	14.16	6.7731	34.63
32	MKS2	0.08073957	12	23	07.80	.0580	161.33
33	LDA2	0.08182118	12	13	18.39	.0872	8.34
34	L2	0.08202355	12	11	29.83	.2883	44.90
35	S2	0.08333334	11	59	60.00	4.9529	43.32
36	K2	0.08356149	11	58	02.05	1.5085	38.10
37	MSN2	0.08484548	11	47	10.07	.0289	185.14
38	ETA2	0.08507364	11	45	16.28	.1461	60.07
39	MO3	0.11924210	08	23	10.68	.0544	202.55
40	M3	0.12076710	08	16	49.44	.3872	304.26
41	SO3	0.12206400	08	11	32.73	.0793	356.30
42	MK3	0.12229210	08	10	37.72	.0912	294.77
43	SK3	0.12511410	07	59	33.74	.1550	234.74
44	MN4	0.15951060	06	16	09.03	.0591	260.71
45	M4	0.16102280	06	12	37.08	.1470	278.09
46	SN4	0.16233260	06	09	36.69	.0576	54.07
47	MS4	0.16384470	06	06	12.03	.1428	299.16
48	MK4	0.16407290	06	05	41.47	.0386	225.81
49	S4	0.16666670	05	59	60.00	.0869	11.20
50	SK4	0.16689480	05	59	30.47	.0285	245.95
51	2MK5	0.20280360	04	55	51.16	.0216	111.24
52	2SK5	0.20844740	04	47	50.54	.0825	316.25
53	2MN6	0.24002200	04	09	58.63	.0755	123.13
54	M6	0.24153420	04	08	24.72	.0115	165.23
55	2MS6	0.24435610	04	05	32.60	.0255	165.54
56	2MK6	0.24458430	04	05	18.85	.0141	165.86
57	2SM6	0.24717810	04	02	44.40	.0725	324.71
58	MSK6	0.24740620	04	02	30.97	.0766	182.76
59	3MK7	0.28331490	03	31	46.71	.0141	156.72
60	M8	0.32204560	03	06	18.54	.0175	329.55

Frequenza Ampiezza e Fase dei costituenti di marea

Ancona

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				.4891	180.00
2	SSA	0.00022816	4382	53	21.12	3.0910	204.08
3	MSM	0.00130978	763	29	13.19	2.9132	149.71
4	MM	0.00151215	661	18	36.20	1.7888	331.46
5	MSF	0.00282193	354	22	02.64	2.9880	303.32
6	MF	0.00305009	327	51	33.04	.6884	4.89
7	ALP1	0.03439657	29	04	21.60	.0662	280.72
8	2Q1	0.03570635	28	00	22.40	.2084	31.25
9	SIG1	0.03590872	27	50	54.20	.1592	39.57
10	Q1	0.03721850	26	52	06.09	.8428	58.51
11	RHO1	0.03742087	26	43	23.00	.1525	30.79
12	O1	0.03873065	25	49	09.64	4.1139	46.06
13	TAU1	0.03895881	25	40	05.29	.1005	155.51
14	BET1	0.04004043	24	58	29.12	.4342	113.52
15	NO1	0.04026859	24	49	59.70	.5588	23.42
16	CHI1	0.04047097	24	42	32.65	.0407	136.40
17	P1	0.04155259	24	03	57.20	4.0441	46.86
18	K1	0.04178075	23	56	04.08	13.5244	59.23
19	PHI1	0.04200891	23	48	16.11	.3988	87.55
20	THE1	0.04309053	23	12	25.04	.3013	55.60
21	J1	0.04329290	23	05	54.51	.5383	53.26
22	SO1	0.04460268	22	25	12.64	.2372	182.66
23	OO1	0.04483084	22	18	21.86	.4936	90.94
24	UPS1	0.04634299	21	34	41.65	.8065	337.46
25	OQ2	0.07597494	13	09	44.05	.0644	238.08
26	EPS2	0.07617731	13	07	38.17	.0342	232.31
27	2N2	0.07748710	12	54	19.35	.1984	264.10
28	MU2	0.07768947	12	52	18.33	.2014	252.10
29	N2	0.07899925	12	39	30.05	1.1705	277.00
30	NU2	0.07920162	12	37	33.62	.2399	276.58
31	M2	0.08051140	12	25	14.16	6.7246	275.20
32	MKS2	0.08073957	12	23	07.80	.1112	115.69
33	LDA2	0.08182118	12	13	18.39	.0280	292.45
34	L2	0.08202355	12	11	29.83	.2736	285.02
35	S2	0.08333334	11	59	60.00	3.6694	289.83
36	K2	0.08356149	11	58	02.05	1.1001	283.81
37	MSN2	0.08484548	11	47	10.07	.0022	165.48
38	ETA2	0.08507364	11	45	16.28	.1049	326.01
39	MO3	0.11924210	08	23	10.68	.0643	121.23
40	M3	0.12076710	08	16	49.44	.3146	298.55
41	SO3	0.12206400	08	11	32.73	.0655	45.88
42	MK3	0.12229210	08	10	37.72	.0964	259.06
43	SK3	0.12511410	07	59	33.74	.1638	249.33
44	MN4	0.15951060	06	16	09.03	.0054	245.92
45	M4	0.16102280	06	12	37.08	.0380	103.95
46	SN4	0.16233260	06	09	36.69	.0135	91.81
47	MS4	0.16384470	06	06	12.03	.0322	119.82
48	MK4	0.16407290	06	05	41.47	.0449	86.01
49	S4	0.16666670	05	59	60.00	.0857	53.86
50	SK4	0.16689480	05	59	30.47	.0804	101.02
51	2MK5	0.20280360	04	55	51.16	.0150	206.97
52	2SK5	0.20844740	04	47	50.54	.0391	234.48
53	2MN6	0.24002200	04	09	58.63	.0246	226.27
54	M6	0.24153420	04	08	24.72	.0359	357.57
55	2MS6	0.24435610	04	05	32.60	.0558	61.54
56	2MK6	0.24458430	04	05	18.85	.0352	65.42
57	2SM6	0.24717810	04	02	44.40	.0014	273.23
58	MSK6	0.24740620	04	02	30.97	.0604	159.88
59	3MK7	0.28331490	03	31	46.71	.0188	276.59
60	M8	0.32204560	03	06	18.54	.0397	57.12

Frequenza Ampiezza e Fase dei costituenti di marea

Ravenna

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				10.7887	.00
2	SSA	0.00022816	4382	53	21.12	2.3282	201.88
3	MSM	0.00130978	763	29	13.19	3.2142	140.67
4	MM	0.00151215	661	18	36.20	1.9181	309.05
5	MSF	0.00282193	354	22	02.64	2.7617	297.33
6	MF	0.00305009	327	51	33.04	.5804	341.32
7	ALP1	0.03439657	29	04	21.60	.1272	257.75
8	2Q1	0.03570635	28	00	22.40	.1356	34.13
9	SIG1	0.03590872	27	50	54.20	.0401	236.74
10	Q1	0.03721850	26	52	06.09	1.1165	53.93
11	RHO1	0.03742087	26	43	23.00	.2303	56.45
12	O1	0.03873065	25	49	09.64	5.0649	40.11
13	TAU1	0.03895881	25	40	05.29	.0940	146.72
14	BET1	0.04004043	24	58	29.12	.6192	105.41
15	NO1	0.04026859	24	49	59.70	.7035	13.24
16	CHI1	0.04047097	24	42	32.65	.0849	104.65
17	P1	0.04155259	24	03	57.20	5.1388	40.47
18	K1	0.04178075	23	56	04.08	16.7889	53.23
19	PHI1	0.04200891	23	48	16.11	.5745	62.78
20	THE1	0.04309053	23	12	25.04	.5218	39.23
21	J1	0.04329290	23	05	54.51	.6557	57.44
22	SO1	0.04460268	22	25	12.64	.3711	180.53
23	OO1	0.04483084	22	18	21.86	.5968	88.50
24	UPS1	0.04634299	21	34	41.65	1.1475	327.24
25	OQ2	0.07597494	13	09	44.05	.0912	198.26
26	EPS2	0.07617731	13	07	38.17	.1285	283.33
27	2N2	0.07748710	12	54	19.35	.3639	242.02
28	MU2	0.07768947	12	52	18.33	.3677	247.92
29	N2	0.07899925	12	39	30.05	2.9178	242.57
30	NU2	0.07920162	12	37	33.62	.6308	248.19
31	M2	0.08051140	12	25	14.16	17.0798	241.57
32	MKS2	0.08073957	12	23	07.80	.0181	242.64
33	LDA2	0.08182118	12	13	18.39	.1486	248.26
34	L2	0.08202355	12	11	29.83	.7237	241.81
35	S2	0.08333334	11	59	60.00	10.1683	248.32
36	K2	0.08356149	11	58	02.05	3.0847	244.76
37	MSN2	0.08484548	11	47	10.07	.0786	61.26
38	ETA2	0.08507364	11	45	16.28	.2274	261.47
39	MO3	0.11924210	08	23	10.68	.0202	56.74
40	M3	0.12076710	08	16	49.44	.3340	153.44
41	SO3	0.12206400	08	11	32.73	.0322	285.99
42	MK3	0.12229210	08	10	37.72	.1216	136.59
43	SK3	0.12511410	07	59	33.74	.1464	101.00
44	MN4	0.15951060	06	16	09.03	.0306	309.24
45	M4	0.16102280	06	12	37.08	.0606	296.72
46	SN4	0.16233260	06	09	36.69	.0265	275.81
47	MS4	0.16384470	06	06	12.03	.0983	331.40
48	MK4	0.16407290	06	05	41.47	.0727	53.37
49	S4	0.16666670	05	59	60.00	.0986	60.32
50	SK4	0.16689480	05	59	30.47	.0836	340.59
51	2MK5	0.20280360	04	55	51.16	.0448	93.60
52	2SK5	0.20844740	04	47	50.54	.0210	26.67
53	2MN6	0.24002200	04	09	58.63	.0629	83.79
54	M6	0.24153420	04	08	24.72	.0532	338.85
55	2MS6	0.24435610	04	05	32.60	.0510	340.24
56	2MK6	0.24458430	04	05	18.85	.0205	347.99
57	2SM6	0.24717810	04	02	44.40	.0364	329.17
58	MSK6	0.24740620	04	02	30.97	.0539	269.39
59	3MK7	0.28331490	03	31	46.71	.0488	138.60
60	M8	0.32204560	03	06	18.54	.0101	308.64

Frequenza Ampiezza e Fase dei costituenti di marea

Venezia

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				17.4017	.00
2	SSA	0.00022816	4382	53	21.12	2.6241	209.99
3	MSM	0.00130978	763	29	13.19	3.1386	136.75
4	MM	0.00151215	661	18	36.20	1.6880	298.37
5	MSF	0.00282193	354	22	02.64	2.7339	290.48
6	MF	0.00305009	327	51	33.04	.7744	333.23
7	ALP1	0.03439657	29	04	21.60	.0984	274.85
8	2Q1	0.03570635	28	00	22.40	.1223	5.30
9	SIG1	0.03590872	27	50	54.20	.0884	356.34
10	Q1	0.03721850	26	52	06.09	1.1596	51.41
11	RHO1	0.03742087	26	43	23.00	.1949	43.10
12	O1	0.03873065	25	49	09.64	5.3652	36.91
13	TAU1	0.03895881	25	40	05.29	.2323	102.74
14	BET1	0.04004043	24	58	29.12	.6344	111.48
15	NO1	0.04026859	24	49	59.70	.7121	7.68
16	CHI1	0.04047097	24	42	32.65	.0388	15.36
17	P1	0.04155259	24	03	57.20	5.6086	40.52
18	K1	0.04178075	23	56	04.08	18.2110	49.95
19	PHI1	0.04200891	23	48	16.11	.4930	47.95
20	THE1	0.04309053	23	12	25.04	.6068	54.39
21	J1	0.04329290	23	05	54.51	.6250	49.66
22	SO1	0.04460268	22	25	12.64	.4330	179.25
23	OO1	0.04483084	22	18	21.86	.6256	91.20
24	UPS1	0.04634299	21	34	41.65	1.0887	323.01
25	OQ2	0.07597494	13	09	44.05	.1374	220.44
26	EPS2	0.07617731	13	07	38.17	.2407	285.64
27	2N2	0.07748710	12	54	19.35	.4635	231.86
28	MU2	0.07768947	12	52	18.33	.5101	249.67
29	N2	0.07899925	12	39	30.05	4.1712	235.90
30	NU2	0.07920162	12	37	33.62	.7567	232.43
31	M2	0.08051140	12	25	14.16	23.8671	233.20
32	MKS2	0.08073957	12	23	07.80	.2362	93.92
33	LDA2	0.08182118	12	13	18.39	.2219	227.34
34	L2	0.08202355	12	11	29.83	1.0690	236.42
35	S2	0.08333334	11	59	60.00	14.4817	239.25
36	K2	0.08356149	11	58	02.05	4.3348	233.18
37	MSN2	0.08484548	11	47	10.07	.1030	24.91
38	ETA2	0.08507364	11	45	16.28	.2955	274.13
39	MO3	0.11924210	08	23	10.68	.1293	333.64
40	M3	0.12076710	08	16	49.44	.7032	140.55
41	SO3	0.12206400	08	11	32.73	.2091	292.12
42	MK3	0.12229210	08	10	37.72	.2561	7.33
43	SK3	0.12511410	07	59	33.74	.3714	82.38
44	MN4	0.15951060	06	16	09.03	.0688	240.92
45	M4	0.16102280	06	12	37.08	.2461	209.47
46	SN4	0.16233260	06	09	36.69	.0510	238.09
47	MS4	0.16384470	06	06	12.03	.2529	223.22
48	MK4	0.16407290	06	05	41.47	.1047	242.43
49	S4	0.16666670	05	59	60.00	.0930	277.60
50	SK4	0.16689480	05	59	30.47	.0781	264.25
51	2MK5	0.20280360	04	55	51.16	.1117	277.97
52	2SK5	0.20844740	04	47	50.54	.0227	297.88
53	2MN6	0.24002200	04	09	58.63	.0852	129.45
54	M6	0.24153420	04	08	24.72	.0974	153.45
55	2MS6	0.24435610	04	05	32.60	.1659	156.55
56	2MK6	0.24458430	04	05	18.85	.1269	182.66
57	2SM6	0.24717810	04	02	44.40	.0828	179.31
58	MSK6	0.24740620	04	02	30.97	.0557	151.77
59	3MK7	0.28331490	03	31	46.71	.0330	299.29
60	M8	0.32204560	03	06	18.54	.0045	52.73

Frequenza Ampiezza e Fase dei costituenti di marea

Trieste

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				1.3794	180.00
2	SSA	0.00022816	4382	53	21.12	3.7166	201.98
3	MSM	0.00130978	763	29	13.19	2.1612	135.72
4	MM	0.00151215	661	18	36.20	1.4942	286.64
5	MSF	0.00282193	354	22	02.64	2.2412	284.23
6	MF	0.00305009	327	51	33.04	.6235	342.17
7	ALP1	0.03439657	29	04	21.60	.0376	247.40
8	2Q1	0.03570635	28	00	22.40	.2551	337.25
9	SIG1	0.03590872	27	50	54.20	.3562	1.38
10	Q1	0.03721850	26	52	06.09	1.1163	56.52
11	RHO1	0.03742087	26	43	23.00	.2245	1.60
12	O1	0.03873065	25	49	09.64	5.2890	31.11
13	TAU1	0.03895881	25	40	05.29	.2666	104.51
14	BET1	0.04004043	24	58	29.12	.6367	116.43
15	NO1	0.04026859	24	49	59.70	.7782	1.86
16	CHI1	0.04047097	24	42	32.65	.0844	97.38
17	P1	0.04155259	24	03	57.20	5.7789	32.92
18	K1	0.04178075	23	56	04.08	18.1138	42.39
19	PHI1	0.04200891	23	48	16.11	.7102	45.51
20	THE1	0.04309053	23	12	25.04	.6286	45.78
21	J1	0.04329290	23	05	54.51	.5284	31.17
22	SO1	0.04460268	22	25	12.64	.4078	160.66
23	OO1	0.04483084	22	18	21.86	.5464	79.78
24	UPS1	0.04634299	21	34	41.65	1.0837	317.25
25	OQ2	0.07597494	13	09	44.05	.1066	198.02
26	EPS2	0.07617731	13	07	38.17	.2028	261.02
27	2N2	0.07748710	12	54	19.35	.5222	219.84
28	MU2	0.07768947	12	52	18.33	.5506	228.69
29	N2	0.07899925	12	39	30.05	4.6699	221.79
30	NU2	0.07920162	12	37	33.62	.9528	217.38
31	M2	0.08051140	12	25	14.16	26.7699	218.77
32	MKS2	0.08073957	12	23	07.80	.1234	338.79
33	LDA2	0.08182118	12	13	18.39	.2227	228.09
34	L2	0.08202355	12	11	29.83	1.1153	220.76
35	S2	0.08333334	11	59	60.00	16.2583	224.63
36	K2	0.08356149	11	58	02.05	5.0120	218.89
37	MSN2	0.08484548	11	47	10.07	.1620	2.68
38	ETA2	0.08507364	11	45	16.28	.2701	242.22
39	MO3	0.11924210	08	23	10.68	.0306	12.18
40	M3	0.12076710	08	16	49.44	.9882	113.53
41	SO3	0.12206400	08	11	32.73	.2484	184.90
42	MK3	0.12229210	08	10	37.72	.0962	33.17
43	SK3	0.12511410	07	59	33.74	.4581	87.41
44	MN4	0.15951060	06	16	09.03	.0854	241.06
45	M4	0.16102280	06	12	37.08	.1346	247.47
46	SN4	0.16233260	06	09	36.69	.0852	149.15
47	MS4	0.16384470	06	06	12.03	.1148	257.70
48	MK4	0.16407290	06	05	41.47	.0744	289.92
49	S4	0.16666670	05	59	60.00	.1764	221.28
50	SK4	0.16689480	05	59	30.47	.0528	220.37
51	2MK5	0.20280360	04	55	51.16	.1172	51.37
52	2SK5	0.20844740	04	47	50.54	.0436	234.94
53	2MN6	0.24002200	04	09	58.63	.0718	304.09
54	M6	0.24153420	04	08	24.72	.1254	330.58
55	2MS6	0.24435610	04	05	32.60	.2303	336.00
56	2MK6	0.24458430	04	05	18.85	.0835	8.10
57	2SM6	0.24717810	04	02	44.40	.1028	1.86
58	MSK6	0.24740620	04	02	30.97	.1579	.14
59	3MK7	0.28331490	03	31	46.71	.0424	107.60
60	M8	0.32204560	03	06	18.54	.0177	281.66

Frequenza Ampiezza e Fase dei costituenti di marea

Palermo

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				9.0421	.00
2	SSA	0.00022816	4382	53	21.12	1.7859	185.40
3	MSM	0.00130978	763	29	13.19	1.9662	156.78
4	MM	0.00151215	661	18	36.20	1.1936	331.78
5	MSF	0.00282193	354	22	02.64	2.1283	302.98
6	MF	0.00305009	327	51	33.04	.3994	300.45
7	ALP1	0.03439657	29	04	21.60	.1079	259.35
8	2Q1	0.03570635	28	00	22.40	.0816	96.07
9	SIG1	0.03590872	27	50	54.20	.0744	158.81
10	Q1	0.03721850	26	52	06.09	.1008	348.29
11	RHO1	0.03742087	26	43	23.00	.0439	337.64
12	O1	0.03873065	25	49	09.64	1.2249	107.66
13	TAU1	0.03895881	25	40	05.29	.0956	88.21
14	BET1	0.04004043	24	58	29.12	.1047	184.05
15	NO1	0.04026859	24	49	59.70	.2194	126.17
16	CHI1	0.04047097	24	42	32.65	.1335	139.47
17	P1	0.04155259	24	03	57.20	.8277	172.29
18	K1	0.04178075	23	56	04.08	2.8939	181.26
19	PHI1	0.04200891	23	48	16.11	.1947	217.78
20	THE1	0.04309053	23	12	25.04	.0574	189.91
21	J1	0.04329290	23	05	54.51	.1703	173.86
22	SO1	0.04460268	22	25	12.64	.0550	200.74
23	OO1	0.04483084	22	18	21.86	.1308	238.17
24	UPS1	0.04634299	21	34	41.65	.0849	130.95
25	OQ2	0.07597494	13	09	44.05	.0886	257.48
26	EPS2	0.07617731	13	07	38.17	.1398	172.49
27	2N2	0.07748710	12	54	19.35	.3211	171.84
28	MU2	0.07768947	12	52	18.33	.3579	168.50
29	N2	0.07899925	12	39	30.05	2.3257	192.16
30	NU2	0.07920162	12	37	33.62	.4077	202.43
31	M2	0.08051140	12	25	14.16	11.4315	206.23
32	MKS2	0.08073957	12	23	07.80	.0670	346.54
33	LDA2	0.08182118	12	13	18.39	.0721	147.44
34	L2	0.08202355	12	11	29.83	.2827	216.24
35	S2	0.08333334	11	59	60.00	4.2892	227.77
36	K2	0.08356149	11	58	02.05	1.1366	222.11
37	MSN2	0.08484548	11	47	10.07	.0634	268.59
38	ETA2	0.08507364	11	45	16.28	.0696	151.10
39	MO3	0.11924210	08	23	10.68	.0841	198.88
40	M3	0.12076710	08	16	49.44	.4601	307.93
41	SO3	0.12206400	08	11	32.73	.0436	63.89
42	MK3	0.12229210	08	10	37.72	.0534	340.11
43	SK3	0.12511410	07	59	33.74	.2076	267.41
44	MN4	0.15951060	06	16	09.03	.1555	36.95
45	M4	0.16102280	06	12	37.08	.4528	76.23
46	SN4	0.16233260	06	09	36.69	.0395	113.03
47	MS4	0.16384470	06	06	12.03	.2700	138.52
48	MK4	0.16407290	06	05	41.47	.0685	110.76
49	S4	0.16666670	05	59	60.00	.0429	27.34
50	SK4	0.16689480	05	59	30.47	.0610	69.27
51	2MK5	0.20280360	04	55	51.16	.0187	78.21
52	2SK5	0.20844740	04	47	50.54	.0284	8.32
53	2MN6	0.24002200	04	09	58.63	.0228	44.07
54	M6	0.24153420	04	08	24.72	.0285	171.52
55	2MS6	0.24435610	04	05	32.60	.0101	354.30
56	2MK6	0.24458430	04	05	18.85	.0277	221.69
57	2SM6	0.24717810	04	02	44.40	.0292	153.80
58	MSK6	0.24740620	04	02	30.97	.0251	44.32
59	3MK7	0.28331490	03	31	46.71	.0013	28.07
60	M8	0.32204560	03	06	18.54	.0228	221.37

Frequenza Ampiezza e Fase dei costituenti di marea

Messina

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				4.2392	180.00
2	SSA	0.00022816	4382	53	21.12	2.1229	173.18
3	MSM	0.00130978	763	29	13.19	2.2149	161.79
4	MM	0.00151215	661	18	36.20	1.3624	337.03
5	MSF	0.00282193	354	22	02.64	2.4650	324.76
6	MF	0.00305009	327	51	33.04	.4096	63.54
7	ALP1	0.03439657	29	04	21.60	.1407	2.10
8	2Q1	0.03570635	28	00	22.40	.0336	345.86
9	SIG1	0.03590872	27	50	54.20	.2347	45.14
10	Q1	0.03721850	26	52	06.09	.3525	20.91
11	RHO1	0.03742087	26	43	23.00	.1383	257.51
12	O1	0.03873065	25	49	09.64	.9817	38.62
13	TAU1	0.03895881	25	40	05.29	.2128	39.43
14	BET1	0.04004043	24	58	29.12	.0744	318.92
15	NO1	0.04026859	24	49	59.70	.0388	63.70
16	CHI1	0.04047097	24	42	32.65	.0885	245.12
17	P1	0.04155259	24	03	57.20	.1632	59.67
18	K1	0.04178075	23	56	04.08	.6257	249.21
19	PHI1	0.04200891	23	48	16.11	.1215	335.79
20	THE1	0.04309053	23	12	25.04	.1056	340.35
21	J1	0.04329290	23	05	54.51	.0959	202.52
22	SO1	0.04460268	22	25	12.64	.2174	115.57
23	OO1	0.04483084	22	18	21.86	.0173	287.73
24	UPS1	0.04634299	21	34	41.65	.0528	152.09
25	OQ2	0.07597494	13	09	44.05	.0625	11.94
26	EPS2	0.07617731	13	07	38.17	.1208	89.87
27	2N2	0.07748710	12	54	19.35	.1503	319.96
28	MU2	0.07768947	12	52	18.33	.1894	70.54
29	N2	0.07899925	12	39	30.05	.7160	326.21
30	NU2	0.07920162	12	37	33.62	.2311	330.92
31	M2	0.08051140	12	25	14.16	4.8291	330.02
32	MKS2	0.08073957	12	23	07.80	.3910	87.74
33	LDA2	0.08182118	12	13	18.39	.1918	39.76
34	L2	0.08202355	12	11	29.83	.3765	359.50
35	S2	0.08333334	11	59	60.00	2.5453	355.74
36	K2	0.08356149	11	58	02.05	.7797	347.30
37	MSN2	0.08484548	11	47	10.07	.0943	193.53
38	ETA2	0.08507364	11	45	16.28	.0278	202.74
39	MO3	0.11924210	08	23	10.68	.1746	138.49
40	M3	0.12076710	08	16	49.44	.2292	51.59
41	SO3	0.12206400	08	11	32.73	.3215	125.71
42	MK3	0.12229210	08	10	37.72	.7960	129.72
43	SK3	0.12511410	07	59	33.74	.2140	156.90
44	MN4	0.15951060	06	16	09.03	.5103	169.74
45	M4	0.16102280	06	12	37.08	1.3851	173.46
46	SN4	0.16233260	06	09	36.69	.1767	193.39
47	MS4	0.16384470	06	06	12.03	1.0419	200.57
48	MK4	0.16407290	06	05	41.47	.2623	198.43
49	S4	0.16666670	05	59	60.00	.1401	190.76
50	SK4	0.16689480	05	59	30.47	.1569	234.93
51	2MK5	0.20280360	04	55	51.16	.1973	16.87
52	2SK5	0.20844740	04	47	50.54	.0227	40.86
53	2MN6	0.24002200	04	09	58.63	.1285	64.09
54	M6	0.24153420	04	08	24.72	.1732	78.58
55	2MS6	0.24435610	04	05	32.60	.1672	89.68
56	2MK6	0.24458430	04	05	18.85	.0779	225.86
57	2SM6	0.24717810	04	02	44.40	.0417	141.15
58	MSK6	0.24740620	04	02	30.97	.0787	156.16
59	3MK7	0.28331490	03	31	46.71	.0453	208.33
60	M8	0.32204560	03	06	18.54	.0318	196.09

Frequenza Ampiezza e Fase dei costituenti di marea

Catania

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				6.5081	.00
2	SSA	0.00022816	4382	53	21.12	2.1500	220.79
3	MSM	0.00130978	763	29	13.19	2.8351	167.83
4	MM	0.00151215	661	18	36.20	1.0703	350.44
5	MSF	0.00282193	354	22	02.64	2.5648	325.41
6	MF	0.00305009	327	51	33.04	.5827	75.20
7	ALP1	0.03439657	29	04	21.60	.0416	14.24
8	2Q1	0.03570635	28	00	22.40	.0953	316.58
9	SIG1	0.03590872	27	50	54.20	.1220	8.31
10	Q1	0.03721850	26	52	06.09	.2387	40.40
11	RHO1	0.03742087	26	43	23.00	.0577	35.98
12	O1	0.03873065	25	49	09.64	1.1326	23.78
13	TAU1	0.03895881	25	40	05.29	.1362	9.17
14	BET1	0.04004043	24	58	29.12	.0566	324.80
15	NO1	0.04026859	24	49	59.70	.0879	53.29
16	CHI1	0.04047097	24	42	32.65	.0480	78.51
17	P1	0.04155259	24	03	57.20	.4858	30.15
18	K1	0.04178075	23	56	04.08	1.5278	26.05
19	PHI1	0.04200891	23	48	16.11	.0818	69.39
20	THE1	0.04309053	23	12	25.04	.0195	76.99
21	J1	0.04329290	23	05	54.51	.0744	318.81
22	SO1	0.04460268	22	25	12.64	.0674	124.08
23	OO1	0.04483084	22	18	21.86	.1032	67.10
24	UPS1	0.04634299	21	34	41.65	.0264	22.32
25	OQ2	0.07597494	13	09	44.05	.0307	349.29
26	EPS2	0.07617731	13	07	38.17	.1164	359.95
27	2N2	0.07748710	12	54	19.35	.1295	17.98
28	MU2	0.07768947	12	52	18.33	.1957	51.72
29	N2	0.07899925	12	39	30.05	1.1883	35.90
30	NU2	0.07920162	12	37	33.62	.2051	55.80
31	M2	0.08051140	12	25	14.16	6.4705	32.29
32	MKS2	0.08073957	12	23	07.80	.1944	226.49
33	LDA2	0.08182118	12	13	18.39	.1531	52.89
34	L2	0.08202355	12	11	29.83	.2563	41.51
35	S2	0.08333334	11	59	60.00	3.5187	37.98
36	K2	0.08356149	11	58	02.05	.9743	29.11
37	MSN2	0.08484548	11	47	10.07	.0511	16.69
38	ETA2	0.08507364	11	45	16.28	.1025	55.21
39	MO3	0.11924210	08	23	10.68	.0135	89.01
40	M3	0.12076710	08	16	49.44	.1753	118.89
41	SO3	0.12206400	08	11	32.73	.0629	170.67
42	MK3	0.12229210	08	10	37.72	.0569	37.53
43	SK3	0.12511410	07	59	33.74	.0604	89.65
44	MN4	0.15951060	06	16	09.03	.0312	49.21
45	M4	0.16102280	06	12	37.08	.0923	80.37
46	SN4	0.16233260	06	09	36.69	.0226	207.69
47	MS4	0.16384470	06	06	12.03	.0473	109.37
48	MK4	0.16407290	06	05	41.47	.0462	140.24
49	S4	0.16666670	05	59	60.00	.0321	137.67
50	SK4	0.16689480	05	59	30.47	.0088	222.79
51	2MK5	0.20280360	04	55	51.16	.0229	159.15
52	2SK5	0.20844740	04	47	50.54	.0388	313.43
53	2MN6	0.24002200	04	09	58.63	.0191	250.80
54	M6	0.24153420	04	08	24.72	.0189	207.41
55	2MS6	0.24435610	04	05	32.60	.0263	294.81
56	2MK6	0.24458430	04	05	18.85	.0298	275.72
57	2SM6	0.24717810	04	02	44.40	.0348	77.59
58	MSK6	0.24740620	04	02	30.97	.0194	317.76
59	3MK7	0.28331490	03	31	46.71	.0390	233.08
60	M8	0.32204560	03	06	18.54	.0214	142.04

Frequenza Ampiezza e Fase dei costituenti di marea

PortoEmpedocle

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				1.4256	180.00
2	SSA	0.00022816	4382	53	21.12	.9428	200.78
3	MSM	0.00130978	763	29	13.19	1.9225	161.18
4	MM	0.00151215	661	18	36.20	.6817	25.87
5	MSF	0.00282193	354	22	02.64	1.2281	325.77
6	MF	0.00305009	327	51	33.04	.1363	229.18
7	ALP1	0.03439657	29	04	21.60	.0569	295.09
8	2Q1	0.03570635	28	00	22.40	.0461	6.49
9	SIG1	0.03590872	27	50	54.20	.0662	173.00
10	Q1	0.03721850	26	52	06.09	.2140	71.56
11	RHO1	0.03742087	26	43	23.00	.1141	42.40
12	O1	0.03873065	25	49	09.64	1.3176	59.96
13	TAU1	0.03895881	25	40	05.29	.2056	92.96
14	BET1	0.04004043	24	58	29.12	.0348	187.56
15	NO1	0.04026859	24	49	59.70	.1795	67.71
16	CHI1	0.04047097	24	42	32.65	.0937	164.38
17	P1	0.04155259	24	03	57.20	.6646	58.79
18	K1	0.04178075	23	56	04.08	1.8532	67.55
19	PHI1	0.04200891	23	48	16.11	.0194	103.01
20	THE1	0.04309053	23	12	25.04	.0646	176.07
21	J1	0.04329290	23	05	54.51	.1539	83.80
22	SO1	0.04460268	22	25	12.64	.0800	271.28
23	OO1	0.04483084	22	18	21.86	.1150	14.62
24	UPS1	0.04634299	21	34	41.65	.0783	90.49
25	OQ2	0.07597494	13	09	44.05	.0588	212.81
26	EPS2	0.07617731	13	07	38.17	.0913	105.57
27	2N2	0.07748710	12	54	19.35	.1248	59.62
28	MU2	0.07768947	12	52	18.33	.2401	94.04
29	N2	0.07899925	12	39	30.05	.8648	69.99
30	NU2	0.07920162	12	37	33.62	.1928	36.02
31	M2	0.08051140	12	25	14.16	4.7616	44.37
32	MKS2	0.08073957	12	23	07.80	.0232	315.76
33	LDA2	0.08182118	12	13	18.39	.1105	52.24
34	L2	0.08202355	12	11	29.83	.3344	22.04
35	S2	0.08333334	11	59	60.00	3.3759	40.90
36	K2	0.08356149	11	58	02.05	1.0459	32.47
37	MSN2	0.08484548	11	47	10.07	.0315	279.19
38	ETA2	0.08507364	11	45	16.28	.0702	58.79
39	MO3	0.11924210	08	23	10.68	.0520	44.63
40	M3	0.12076710	08	16	49.44	.0764	233.71
41	SO3	0.12206400	08	11	32.73	.0105	336.21
42	MK3	0.12229210	08	10	37.72	.0657	127.15
43	SK3	0.12511410	07	59	33.74	.0512	231.25
44	MN4	0.15951060	06	16	09.03	.0366	160.89
45	M4	0.16102280	06	12	37.08	.2044	215.54
46	SN4	0.16233260	06	09	36.69	.0734	183.39
47	MS4	0.16384470	06	06	12.03	.1865	237.46
48	MK4	0.16407290	06	05	41.47	.1106	234.89
49	S4	0.16666670	05	59	60.00	.1722	192.19
50	SK4	0.16689480	05	59	30.47	.0404	94.54
51	2MK5	0.20280360	04	55	51.16	.1024	205.31
52	2SK5	0.20844740	04	47	50.54	.0135	356.86
53	2MN6	0.24002200	04	09	58.63	.0654	290.41
54	M6	0.24153420	04	08	24.72	.0261	151.57
55	2MS6	0.24435610	04	05	32.60	.0363	100.99
56	2MK6	0.24458430	04	05	18.85	.1394	283.57
57	2SM6	0.24717810	04	02	44.40	.0442	85.34
58	MSK6	0.24740620	04	02	30.97	.1277	242.09
59	3MK7	0.28331490	03	31	46.71	.0793	35.11
60	M8	0.32204560	03	06	18.54	.0607	103.37

Frequenza Ampiezza e Fase dei costituenti di marea

Cagliari

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				16.0215	.00
2	SSA	0.00022816	4382	53	21.12	.9125	185.13
3	MSM	0.00130978	763	29	13.19	1.5137	145.38
4	MM	0.00151215	661	18	36.20	1.1027	324.10
5	MSF	0.00282193	354	22	02.64	1.5378	301.40
6	MF	0.00305009	327	51	33.04	.2474	231.09
7	ALP1	0.03439657	29	04	21.60	.0745	290.76
8	2Q1	0.03570635	28	00	22.40	.1020	13.54
9	SIG1	0.03590872	27	50	54.20	.0752	156.78
10	Q1	0.03721850	26	52	06.09	.0907	359.68
11	RHO1	0.03742087	26	43	23.00	.1373	48.26
12	O1	0.03873065	25	49	09.64	1.6021	92.96
13	TAU1	0.03895881	25	40	05.29	.1018	97.81
14	BET1	0.04004043	24	58	29.12	.0628	138.40
15	NO1	0.04026859	24	49	59.70	.2332	112.69
16	CHI1	0.04047097	24	42	32.65	.1361	183.21
17	P1	0.04155259	24	03	57.20	.7508	151.14
18	K1	0.04178075	23	56	04.08	2.9342	166.15
19	PHI1	0.04200891	23	48	16.11	.1137	189.39
20	THE1	0.04309053	23	12	25.04	.0887	195.56
21	J1	0.04329290	23	05	54.51	.1058	195.12
22	SO1	0.04460268	22	25	12.64	.0724	187.31
23	OO1	0.04483084	22	18	21.86	.0485	212.61
24	UPS1	0.04634299	21	34	41.65	.0421	319.04
25	OQ2	0.07597494	13	09	44.05	.0066	99.10
26	EPS2	0.07617731	13	07	38.17	.0467	107.31
27	2N2	0.07748710	12	54	19.35	.2721	162.26
28	MU2	0.07768947	12	52	18.33	.3304	175.65
29	N2	0.07899925	12	39	30.05	1.7784	193.69
30	NU2	0.07920162	12	37	33.62	.4454	198.68
31	M2	0.08051140	12	25	14.16	8.7076	207.23
32	MKS2	0.08073957	12	23	07.80	.0831	273.73
33	LDA2	0.08182118	12	13	18.39	.0422	226.91
34	L2	0.08202355	12	11	29.83	.2213	218.02
35	S2	0.08333334	11	59	60.00	3.0566	228.99
36	K2	0.08356149	11	58	02.05	.8896	229.84
37	MSN2	0.08484548	11	47	10.07	.0493	93.85
38	ETA2	0.08507364	11	45	16.28	.0496	229.27
39	MO3	0.11924210	08	23	10.68	.0524	178.12
40	M3	0.12076710	08	16	49.44	.2624	317.96
41	SO3	0.12206400	08	11	32.73	.0884	18.52
42	MK3	0.12229210	08	10	37.72	.0099	31.06
43	SK3	0.12511410	07	59	33.74	.1240	290.95
44	MN4	0.15951060	06	16	09.03	.0750	26.21
45	M4	0.16102280	06	12	37.08	.1974	117.41
46	SN4	0.16233260	06	09	36.69	.1181	269.39
47	MS4	0.16384470	06	06	12.03	.0627	66.39
48	MK4	0.16407290	06	05	41.47	.0130	155.34
49	S4	0.16666670	05	59	60.00	.0638	133.56
50	SK4	0.16689480	05	59	30.47	.0907	138.61
51	2MK5	0.20280360	04	55	51.16	.0478	190.10
52	2SK5	0.20844740	04	47	50.54	.0157	305.36
53	2MN6	0.24002200	04	09	58.63	.0584	120.84
54	M6	0.24153420	04	08	24.72	.0688	212.90
55	2MS6	0.24435610	04	05	32.60	.0088	240.90
56	2MK6	0.24458430	04	05	18.85	.0542	67.97
57	2SM6	0.24717810	04	02	44.40	.0214	183.77
58	MSK6	0.24740620	04	02	30.97	.0415	333.70
59	3MK7	0.28331490	03	31	46.71	.0064	33.15
60	M8	0.32204560	03	06	18.54	.0594	75.07

Frequenza Ampiezza e Fase dei costituenti di marea

Carloforte

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				14.3882	.00
2	SSA	0.00022816	4382	53	21.12	.5784	113.14
3	MSM	0.00130978	763	29	13.19	1.2497	132.79
4	MM	0.00151215	661	18	36.20	1.1675	335.91
5	MSF	0.00282193	354	22	02.64	1.1827	295.01
6	MF	0.00305009	327	51	33.04	.4165	201.89
7	ALP1	0.03439657	29	04	21.60	.0666	192.99
8	2Q1	0.03570635	28	00	22.40	.0875	59.40
9	SIG1	0.03590872	27	50	54.20	.1108	167.44
10	Q1	0.03721850	26	52	06.09	.1164	16.19
11	RHO1	0.03742087	26	43	23.00	.0639	97.10
12	O1	0.03873065	25	49	09.64	1.7415	97.62
13	TAU1	0.03895881	25	40	05.29	.1196	88.36
14	BET1	0.04004043	24	58	29.12	.0723	181.81
15	NO1	0.04026859	24	49	59.70	.2424	122.73
16	CHI1	0.04047097	24	42	32.65	.0926	170.97
17	P1	0.04155259	24	03	57.20	1.1671	156.44
18	K1	0.04178075	23	56	04.08	3.6834	168.97
19	PHI1	0.04200891	23	48	16.11	.1224	165.80
20	THE1	0.04309053	23	12	25.04	.0667	173.15
21	J1	0.04329290	23	05	54.51	.1729	203.31
22	SO1	0.04460268	22	25	12.64	.0779	168.76
23	OO1	0.04483084	22	18	21.86	.0422	220.65
24	UPS1	0.04634299	21	34	41.65	.0128	198.11
25	OQ2	0.07597494	13	09	44.05	.0377	338.86
26	EPS2	0.07617731	13	07	38.17	.0193	139.04
27	2N2	0.07748710	12	54	19.35	.1233	167.09
28	MU2	0.07768947	12	52	18.33	.2351	163.05
29	N2	0.07899925	12	39	30.05	1.3567	192.63
30	NU2	0.07920162	12	37	33.62	.2395	197.03
31	M2	0.08051140	12	25	14.16	6.7608	201.82
32	MKS2	0.08073957	12	23	07.80	.0877	78.88
33	LDA2	0.08182118	12	13	18.39	.0501	197.04
34	L2	0.08202355	12	11	29.83	.1936	227.88
35	S2	0.08333334	11	59	60.00	2.6071	221.08
36	K2	0.08356149	11	58	02.05	.6616	215.89
37	MSN2	0.08484548	11	47	10.07	.0258	74.01
38	ETA2	0.08507364	11	45	16.28	.0562	183.07
39	MO3	0.11924210	08	23	10.68	.0160	130.47
40	M3	0.12076710	08	16	49.44	.0367	96.28
41	SO3	0.12206400	08	11	32.73	.0092	79.59
42	MK3	0.12229210	08	10	37.72	.0190	324.08
43	SK3	0.12511410	07	59	33.74	.0715	110.25
44	MN4	0.15951060	06	16	09.03	.1457	228.36
45	M4	0.16102280	06	12	37.08	.3923	271.52
46	SN4	0.16233260	06	09	36.69	.0508	287.77
47	MS4	0.16384470	06	06	12.03	.2371	328.87
48	MK4	0.16407290	06	05	41.47	.0462	336.71
49	S4	0.16666670	05	59	60.00	.0292	214.35
50	SK4	0.16689480	05	59	30.47	.0638	173.54
51	2MK5	0.20280360	04	55	51.16	.0617	101.68
52	2SK5	0.20844740	04	47	50.54	.0287	304.32
53	2MN6	0.24002200	04	09	58.63	.0365	222.74
54	M6	0.24153420	04	08	24.72	.0035	343.62
55	2MS6	0.24435610	04	05	32.60	.0408	325.84
56	2MK6	0.24458430	04	05	18.85	.0111	36.12
57	2SM6	0.24717810	04	02	44.40	.0460	113.88
58	MSK6	0.24740620	04	02	30.97	.0111	358.96
59	3MK7	0.28331490	03	31	46.71	.0124	281.70
60	M8	0.32204560	03	06	18.54	.0288	83.95

Frequenza Ampiezza e Fase dei costituenti di marea

Porto Torres

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				17.1193	.00
2	SSA	0.00022816	4382	53	21.12	1.2119	160.81
3	MSM	0.00130978	763	29	13.19	1.8385	128.90
4	MM	0.00151215	661	18	36.20	1.0468	312.45
5	MSF	0.00282193	354	22	02.64	1.7833	277.71
6	MF	0.00305009	327	51	33.04	.6513	255.46
7	ALP1	0.03439657	29	04	21.60	.0714	195.46
8	2Q1	0.03570635	28	00	22.40	.0697	93.13
9	SIG1	0.03590872	27	50	54.20	.0619	200.48
10	Q1	0.03721850	26	52	06.09	.1206	352.04
11	RHO1	0.03742087	26	43	23.00	.0082	24.03
12	O1	0.03873065	25	49	09.64	1.6872	100.90
13	TAU1	0.03895881	25	40	05.29	.0756	124.26
14	BET1	0.04004043	24	58	29.12	.0400	159.18
15	NO1	0.04026859	24	49	59.70	.2392	144.77
16	CHI1	0.04047097	24	42	32.65	.0657	161.46
17	P1	0.04155259	24	03	57.20	1.0846	164.95
18	K1	0.04178075	23	56	04.08	3.5539	176.69
19	PHI1	0.04200891	23	48	16.11	.1677	176.33
20	THE1	0.04309053	23	12	25.04	.0764	176.63
21	J1	0.04329290	23	05	54.51	.1716	195.07
22	SO1	0.04460268	22	25	12.64	.0641	177.36
23	OO1	0.04483084	22	18	21.86	.0816	186.74
24	UPS1	0.04634299	21	34	41.65	.0137	174.41
25	OQ2	0.07597494	13	09	44.05	.0350	63.51
26	EPS2	0.07617731	13	07	38.17	.0593	203.97
27	2N2	0.07748710	12	54	19.35	.2089	185.72
28	MU2	0.07768947	12	52	18.33	.2253	182.71
29	N2	0.07899925	12	39	30.05	1.4928	199.51
30	NU2	0.07920162	12	37	33.62	.3064	196.67
31	M2	0.08051140	12	25	14.16	7.4900	209.15
32	MKS2	0.08073957	12	23	07.80	.0370	121.71
33	LDA2	0.08182118	12	13	18.39	.0854	187.71
34	L2	0.08202355	12	11	29.83	.2282	221.51
35	S2	0.08333334	11	59	60.00	2.9518	227.95
36	K2	0.08356149	11	58	02.05	.8571	222.04
37	MSN2	0.08484548	11	47	10.07	.0289	58.39
38	ETA2	0.08507364	11	45	16.28	.0681	239.71
39	MO3	0.11924210	08	23	10.68	.0060	117.85
40	M3	0.12076710	08	16	49.44	.0964	148.36
41	SO3	0.12206400	08	11	32.73	.0176	337.27
42	MK3	0.12229210	08	10	37.72	.0276	350.91
43	SK3	0.12511410	07	59	33.74	.0862	111.90
44	MN4	0.15951060	06	16	09.03	.2245	261.30
45	M4	0.16102280	06	12	37.08	.5587	303.33
46	SN4	0.16233260	06	09	36.69	.0411	321.50
47	MS4	0.16384470	06	06	12.03	.3617	7.18
48	MK4	0.16407290	06	05	41.47	.1007	11.81
49	S4	0.16666670	05	59	60.00	.0437	237.12
50	SK4	0.16689480	05	59	30.47	.0232	230.72
51	2MK5	0.20280360	04	55	51.16	.0160	206.06
52	2SK5	0.20844740	04	47	50.54	.0009	241.79
53	2MN6	0.24002200	04	09	58.63	.0136	57.61
54	M6	0.24153420	04	08	24.72	.0042	289.41
55	2MS6	0.24435610	04	05	32.60	.0238	111.24
56	2MK6	0.24458430	04	05	18.85	.0084	164.36
57	2SM6	0.24717810	04	02	44.40	.0200	235.26
58	MSK6	0.24740620	04	02	30.97	.0013	109.08
59	3MK7	0.28331490	03	31	46.71	.0067	165.05
60	M8	0.32204560	03	06	18.54	.0018	325.41

Frequenza Ampiezza e Fase dei costituenti di marea

Lampedusa

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				4.8509	.00
2	SSA	0.00022816	4382	53	21.12	3.1500	233.39
3	MSM	0.00130978	763	29	13.19	1.7956	153.27
4	MM	0.00151215	661	18	36.20	1.4453	352.73
5	MSF	0.00282193	354	22	02.64	1.8777	333.32
6	MF	0.00305009	327	51	33.04	.5129	77.83
7	ALP1	0.03439657	29	04	21.60	.0704	301.20
8	2Q1	0.03570635	28	00	22.40	.0373	306.45
9	SIG1	0.03590872	27	50	54.20	.0749	14.18
10	Q1	0.03721850	26	52	06.09	.2873	33.13
11	RHO1	0.03742087	26	43	23.00	.1510	32.49
12	O1	0.03873065	25	49	09.64	.6859	71.63
13	TAU1	0.03895881	25	40	05.29	.0476	30.93
14	BET1	0.04004043	24	58	29.12	.0472	269.14
15	NO1	0.04026859	24	49	59.70	.0870	73.87
16	CHI1	0.04047097	24	42	32.65	.0541	276.73
17	P1	0.04155259	24	03	57.20	.1881	27.45
18	K1	0.04178075	23	56	04.08	.5905	344.80
19	PHI1	0.04200891	23	48	16.11	.0710	268.35
20	THE1	0.04309053	23	12	25.04	.1087	181.92
21	J1	0.04329290	23	05	54.51	.0379	319.07
22	SO1	0.04460268	22	25	12.64	.0871	32.93
23	OO1	0.04483084	22	18	21.86	.0347	54.62
24	UPS1	0.04634299	21	34	41.65	.0953	205.16
25	OQ2	0.07597494	13	09	44.05	.0315	322.68
26	EPS2	0.07617731	13	07	38.17	.0819	154.43
27	2N2	0.07748710	12	54	19.35	.0598	79.35
28	MU2	0.07768947	12	52	18.33	.2285	65.25
29	N2	0.07899925	12	39	30.05	1.0449	26.95
30	NU2	0.07920162	12	37	33.62	.2626	21.51
31	M2	0.08051140	12	25	14.16	7.6083	13.55
32	MKS2	0.08073957	12	23	07.80	.0160	207.07
33	LDA2	0.08182118	12	13	18.39	.0835	25.79
34	L2	0.08202355	12	11	29.83	.4194	43.32
35	S2	0.08333334	11	59	60.00	5.1452	27.78
36	K2	0.08356149	11	58	02.05	1.5336	24.31
37	MSN2	0.08484548	11	47	10.07	.0807	317.23
38	ETA2	0.08507364	11	45	16.28	.0959	79.50
39	MO3	0.11924210	08	23	10.68	.0857	31.37
40	M3	0.12076710	08	16	49.44	.0906	115.81
41	SO3	0.12206400	08	11	32.73	.0454	141.70
42	MK3	0.12229210	08	10	37.72	.0278	303.75
43	SK3	0.12511410	07	59	33.74	.0509	28.06
44	MN4	0.15951060	06	16	09.03	.0828	220.87
45	M4	0.16102280	06	12	37.08	.2741	215.84
46	SN4	0.16233260	06	09	36.69	.1154	233.55
47	MS4	0.16384470	06	06	12.03	.2548	261.22
48	MK4	0.16407290	06	05	41.47	.0456	245.38
49	S4	0.16666670	05	59	60.00	.0399	214.12
50	SK4	0.16689480	05	59	30.47	.0490	275.45
51	2MK5	0.20280360	04	55	51.16	.0439	108.50
52	2SK5	0.20844740	04	47	50.54	.0660	1.83
53	2MN6	0.24002200	04	09	58.63	.0298	328.71
54	M6	0.24153420	04	08	24.72	.0222	50.71
55	2MS6	0.24435610	04	05	32.60	.0551	61.87
56	2MK6	0.24458430	04	05	18.85	.0230	132.97
57	2SM6	0.24717810	04	02	44.40	.0828	347.11
58	MSK6	0.24740620	04	02	30.97	.0708	80.09
59	3MK7	0.28331490	03	31	46.71	.0574	1.38
60	M8	0.32204560	03	06	18.54	.0448	121.66

Frequenza Ampiezza e Fase dei costituenti di marea

San Benedetto

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				.2447	180.00
2	SSA	0.00022816	4382	53	21.12	2.8453	207.51
3	MSM	0.00130978	763	29	13.19	2.7178	152.97
4	MM	0.00151215	661	18	36.20	1.6337	328.21
5	MSF	0.00282193	354	22	02.64	3.2269	308.13
6	MF	0.00305009	327	51	33.04	.6680	7.29
7	ALP1	0.03439657	29	04	21.60	.0911	315.72
8	2Q1	0.03570635	28	00	22.40	.1518	28.12
9	SIG1	0.03590872	27	50	54.20	.1518	71.60
10	Q1	0.03721850	26	52	06.09	.6067	64.23
11	RHO1	0.03742087	26	43	23.00	.1396	35.13
12	O1	0.03873065	25	49	09.64	3.1945	43.66
13	TAU1	0.03895881	25	40	05.29	.1387	157.30
14	BET1	0.04004043	24	58	29.12	.2367	161.22
15	NO1	0.04026859	24	49	59.70	.4346	31.12
16	CHI1	0.04047097	24	42	32.65	.0336	172.03
17	P1	0.04155259	24	03	57.20	2.9641	47.61
18	K1	0.04178075	23	56	04.08	9.7285	58.17
19	PHI1	0.04200891	23	48	16.11	.3061	57.70
20	THE1	0.04309053	23	12	25.04	.3624	61.98
21	J1	0.04329290	23	05	54.51	.3815	53.88
22	SO1	0.04460268	22	25	12.64	.1324	175.54
23	OO1	0.04483084	22	18	21.86	.4095	95.14
24	UPS1	0.04634299	21	34	41.65	.6342	337.47
25	OQ2	0.07597494	13	09	44.05	.0353	335.26
26	EPS2	0.07617731	13	07	38.17	.0625	21.46
27	2N2	0.07748710	12	54	19.35	.0282	60.49
28	MU2	0.07768947	12	52	18.33	.1187	16.01
29	N2	0.07899925	12	39	30.05	.9151	29.02
30	NU2	0.07920162	12	37	33.62	.1964	356.31
31	M2	0.08051140	12	25	14.16	5.7122	22.68
32	MKS2	0.08073957	12	23	07.80	.1139	294.25
33	LDA2	0.08182118	12	13	18.39	.0371	281.18
34	L2	0.08202355	12	11	29.83	.3266	15.86
35	S2	0.08333334	11	59	60.00	4.1961	33.68
36	K2	0.08356149	11	58	02.05	1.3811	25.09
37	MSN2	0.08484548	11	47	10.07	.0224	240.24
38	ETA2	0.08507364	11	45	16.28	.1404	72.42
39	MO3	0.11924210	08	23	10.68	.0941	199.50
40	M3	0.12076710	08	16	49.44	.3515	314.11
41	SO3	0.12206400	08	11	32.73	.0630	28.80
42	MK3	0.12229210	08	10	37.72	.0270	231.14
43	SK3	0.12511410	07	59	33.74	.1221	239.00
44	MN4	0.15951060	06	16	09.03	.0852	230.18
45	M4	0.16102280	06	12	37.08	.0870	317.51
46	SN4	0.16233260	06	09	36.69	.0147	309.07
47	MS4	0.16384470	06	06	12.03	.0116	.19
48	MK4	0.16407290	06	05	41.47	.0335	156.50
49	S4	0.16666670	05	59	60.00	.1335	7.75
50	SK4	0.16689480	05	59	30.47	.0449	158.84
51	2MK5	0.20280360	04	55	51.16	.0119	290.51
52	2SK5	0.20844740	04	47	50.54	.0286	230.58
53	2MN6	0.24002200	04	09	58.63	.0378	356.35
54	M6	0.24153420	04	08	24.72	.0384	7.17
55	2MS6	0.24435610	04	05	32.60	.0334	109.95
56	2MK6	0.24458430	04	05	18.85	.0135	350.02
57	2SM6	0.24717810	04	02	44.40	.0345	168.14
58	MSK6	0.24740620	04	02	30.97	.0216	224.83
59	3MK7	0.28331490	03	31	46.71	.0402	288.21
60	M8	0.32204560	03	06	18.54	.0097	183.83

Frequenza Ampiezza e Fase dei costituenti di marea

Gaeta

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				6.1165	180.00
2	SSA	0.00022816	4382	53	21.12	2.0334	201.74
3	MSM	0.00130978	763	29	13.19	1.7954	147.51
4	MM	0.00151215	661	18	36.20	1.1073	323.76
5	MSF	0.00282193	354	22	02.64	2.0629	308.99
6	MF	0.00305009	327	51	33.04	.3360	298.17
7	ALP1	0.03439657	29	04	21.60	.0578	317.44
8	2Q1	0.03570635	28	00	22.40	.0442	316.87
9	SIG1	0.03590872	27	50	54.20	.0965	247.89
10	Q1	0.03721850	26	52	06.09	.1378	344.71
11	RHO1	0.03742087	26	43	23.00	.0900	350.35
12	O1	0.03873065	25	49	09.64	1.0570	95.93
13	TAU1	0.03895881	25	40	05.29	.0988	124.98
14	BET1	0.04004043	24	58	29.12	.0636	111.11
15	NO1	0.04026859	24	49	59.70	.1798	131.10
16	CHI1	0.04047097	24	42	32.65	.0073	168.93
17	P1	0.04155259	24	03	57.20	.7521	168.42
18	K1	0.04178075	23	56	04.08	2.7272	183.78
19	PHI1	0.04200891	23	48	16.11	.0642	148.06
20	THE1	0.04309053	23	12	25.04	.0861	251.34
21	J1	0.04329290	23	05	54.51	.1502	211.21
22	SO1	0.04460268	22	25	12.64	.0410	192.95
23	OO1	0.04483084	22	18	21.86	.1283	217.09
24	UPS1	0.04634299	21	34	41.65	.0062	309.06
25	OQ2	0.07597494	13	09	44.05	.0275	202.54
26	EPS2	0.07617731	13	07	38.17	.0786	161.61
27	2N2	0.07748710	12	54	19.35	.3633	176.17
28	MU2	0.07768947	12	52	18.33	.3867	166.90
29	N2	0.07899925	12	39	30.05	2.4225	192.29
30	NU2	0.07920162	12	37	33.62	.4406	194.65
31	M2	0.08051140	12	25	14.16	11.8222	205.09
32	MKS2	0.08073957	12	23	07.80	.0852	15.01
33	LDA2	0.08182118	12	13	18.39	.0746	183.43
34	L2	0.08202355	12	11	29.83	.2118	217.99
35	S2	0.08333334	11	59	60.00	4.3662	224.80
36	K2	0.08356149	11	58	02.05	1.1488	221.47
37	MSN2	0.08484548	11	47	10.07	.0076	296.37
38	ETA2	0.08507364	11	45	16.28	.0495	223.33
39	MO3	0.11924210	08	23	10.68	.0831	251.64
40	M3	0.12076710	08	16	49.44	.4196	305.43
41	SO3	0.12206400	08	11	32.73	.0820	41.64
42	MK3	0.12229210	08	10	37.72	.0555	287.51
43	SK3	0.12511410	07	59	33.74	.2173	270.10
44	MN4	0.15951060	06	16	09.03	.1617	44.46
45	M4	0.16102280	06	12	37.08	.4049	88.55
46	SN4	0.16233260	06	09	36.69	.0105	107.81
47	MS4	0.16384470	06	06	12.03	.2315	142.90
48	MK4	0.16407290	06	05	41.47	.0618	158.56
49	S4	0.16666670	05	59	60.00	.0301	91.49
50	SK4	0.16689480	05	59	30.47	.0148	68.76
51	2MK5	0.20280360	04	55	51.16	.0080	333.31
52	2SK5	0.20844740	04	47	50.54	.0129	104.07
53	2MN6	0.24002200	04	09	58.63	.0177	151.27
54	M6	0.24153420	04	08	24.72	.0456	191.47
55	2MS6	0.24435610	04	05	32.60	.0392	237.32
56	2MK6	0.24458430	04	05	18.85	.0097	94.80
57	2SM6	0.24717810	04	02	44.40	.0424	116.73
58	MSK6	0.24740620	04	02	30.97	.0044	216.23
59	3MK7	0.28331490	03	31	46.71	.0199	206.51
60	M8	0.32204560	03	06	18.54	.0260	256.10

Frequenza Ampiezza e Fase dei costituenti di marea

La Spezia

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				7.2296	.00
2	SSA	0.00022816	4382	53	21.12	3.1994	193.55
3	MSM	0.00130978	763	29	13.19	1.4861	127.95
4	MM	0.00151215	661	18	36.20	.6178	258.32
5	MSF	0.00282193	354	22	02.64	1.9687	272.31
6	MF	0.00305009	327	51	33.04	.6678	284.17
7	ALP1	0.03439657	29	04	21.60	.1047	331.23
8	2Q1	0.03570635	28	00	22.40	.0578	2.87
9	SIG1	0.03590872	27	50	54.20	.0429	166.85
10	Q1	0.03721850	26	52	06.09	.0738	311.56
11	RHO1	0.03742087	26	43	23.00	.1096	184.01
12	O1	0.03873065	25	49	09.64	1.4518	97.16
13	TAU1	0.03895881	25	40	05.29	.1551	146.70
14	BET1	0.04004043	24	58	29.12	.0959	156.18
15	NO1	0.04026859	24	49	59.70	.1619	113.18
16	CHI1	0.04047097	24	42	32.65	.0633	193.40
17	P1	0.04155259	24	03	57.20	1.1883	162.65
18	K1	0.04178075	23	56	04.08	3.6480	174.76
19	PHI1	0.04200891	23	48	16.11	.1598	105.30
20	THE1	0.04309053	23	12	25.04	.1044	149.11
21	J1	0.04329290	23	05	54.51	.2047	221.20
22	SO1	0.04460268	22	25	12.64	.1080	106.07
23	OO1	0.04483084	22	18	21.86	.1285	237.02
24	UPS1	0.04634299	21	34	41.65	.0520	62.40
25	OQ2	0.07597494	13	09	44.05	.0681	78.85
26	EPS2	0.07617731	13	07	38.17	.0285	147.65
27	2N2	0.07748710	12	54	19.35	.2413	183.56
28	MU2	0.07768947	12	52	18.33	.2571	167.47
29	N2	0.07899925	12	39	30.05	1.9396	190.81
30	NU2	0.07920162	12	37	33.62	.3557	186.64
31	M2	0.08051140	12	25	14.16	9.0118	197.47
32	MKS2	0.08073957	12	23	07.80	.1729	94.89
33	LDA2	0.08182118	12	13	18.39	.1282	158.95
34	L2	0.08202355	12	11	29.83	.2623	189.91
35	S2	0.08333334	11	59	60.00	3.4835	213.13
36	K2	0.08356149	11	58	02.05	.9724	200.29
37	MSN2	0.08484548	11	47	10.07	.0761	29.64
38	ETA2	0.08507364	11	45	16.28	.0597	159.28
39	MO3	0.11924210	08	23	10.68	.0373	122.40
40	M3	0.12076710	08	16	49.44	.1752	129.02
41	SO3	0.12206400	08	11	32.73	.0763	223.13
42	MK3	0.12229210	08	10	37.72	.0568	272.61
43	SK3	0.12511410	07	59	33.74	.1002	86.54
44	MN4	0.15951060	06	16	09.03	.2190	242.95
45	M4	0.16102280	06	12	37.08	.6494	280.33
46	SN4	0.16233260	06	09	36.69	.0675	300.60
47	MS4	0.16384470	06	06	12.03	.4580	346.47
48	MK4	0.16407290	06	05	41.47	.1281	333.26
49	S4	0.16666670	05	59	60.00	.1342	223.44
50	SK4	0.16689480	05	59	30.47	.0936	181.33
51	2MK5	0.20280360	04	55	51.16	.0194	191.27
52	2SK5	0.20844740	04	47	50.54	.0173	18.16
53	2MN6	0.24002200	04	09	58.63	.0530	346.90
54	M6	0.24153420	04	08	24.72	.0393	343.45
55	2MS6	0.24435610	04	05	32.60	.0893	49.92
56	2MK6	0.24458430	04	05	18.85	.0213	66.70
57	2SM6	0.24717810	04	02	44.40	.0337	90.22
58	MSK6	0.24740620	04	02	30.97	.0249	1.78
59	3MK7	0.28331490	03	31	46.71	.0257	101.78
60	M8	0.32204560	03	06	18.54	.0421	194.05

Frequenza Ampiezza e Fase dei costituenti di marea

Ginotra

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				5.6619	180.00
2	SSA	0.00022816	4382	53	21.12	4.4781	280.16
3	MSM	0.00130978	763	29	13.19	1.6192	154.18
4	MM	0.00151215	661	18	36.20	1.4440	328.51
5	MSF	0.00282193	354	22	02.64	1.9485	315.83
6	MF	0.00305009	327	51	33.04	.2011	339.37
7	ALP1	0.03439657	29	04	21.60	.0509	293.34
8	2Q1	0.03570635	28	00	22.40	.0321	265.95
9	SIG1	0.03590872	27	50	54.20	.0236	315.33
10	Q1	0.03721850	26	52	06.09	.1214	309.90
11	RHO1	0.03742087	26	43	23.00	.0734	12.91
12	O1	0.03873065	25	49	09.64	.9361	110.53
13	TAU1	0.03895881	25	40	05.29	.0625	118.70
14	BET1	0.04004043	24	58	29.12	.0641	110.86
15	NO1	0.04026859	24	49	59.70	.2166	127.20
16	CHI1	0.04047097	24	42	32.65	.0739	188.51
17	P1	0.04155259	24	03	57.20	.8181	170.70
18	K1	0.04178075	23	56	04.08	2.9052	186.25
19	PHI1	0.04200891	23	48	16.11	.0481	141.62
20	THE1	0.04309053	23	12	25.04	.0585	185.92
21	J1	0.04329290	23	05	54.51	.1578	203.79
22	SO1	0.04460268	22	25	12.64	.0394	221.41
23	OO1	0.04483084	22	18	21.86	.0613	237.68
24	UPS1	0.04634299	21	34	41.65	.0492	285.83
25	OQ2	0.07597494	13	09	44.05	.0379	122.27
26	EPS2	0.07617731	13	07	38.17	.0574	166.97
27	2N2	0.07748710	12	54	19.35	.2703	168.59
28	MU2	0.07768947	12	52	18.33	.3738	174.73
29	N2	0.07899925	12	39	30.05	2.2668	194.37
30	NU2	0.07920162	12	37	33.62	.4218	200.12
31	M2	0.08051140	12	25	14.16	11.5464	207.45
32	MKS2	0.08073957	12	23	07.80	.0677	202.66
33	LDA2	0.08182118	12	13	18.39	.0935	201.86
34	L2	0.08202355	12	11	29.83	.2836	213.83
35	S2	0.08333334	11	59	60.00	4.3779	226.55
36	K2	0.08356149	11	58	02.05	1.1388	220.51
37	MSN2	0.08484548	11	47	10.07	.0153	75.92
38	ETA2	0.08507364	11	45	16.28	.0688	265.09
39	MO3	0.11924210	08	23	10.68	.0943	218.69
40	M3	0.12076710	08	16	49.44	.4754	306.74
41	SO3	0.12206400	08	11	32.73	.0323	26.80
42	MK3	0.12229210	08	10	37.72	.0839	51.25
43	SK3	0.12511410	07	59	33.74	.2239	270.26
44	MN4	0.15951060	06	16	09.03	.1867	47.57
45	M4	0.16102280	06	12	37.08	.3895	81.65
46	SN4	0.16233260	06	09	36.69	.0639	75.15
47	MS4	0.16384470	06	06	12.03	.2240	128.58
48	MK4	0.16407290	06	05	41.47	.0740	130.89
49	S4	0.16666670	05	59	60.00	.0224	49.07
50	SK4	0.16689480	05	59	30.47	.0249	27.77
51	2MK5	0.20280360	04	55	51.16	.0343	248.11
52	2SK5	0.20844740	04	47	50.54	.0146	300.25
53	2MN6	0.24002200	04	09	58.63	.0225	130.11
54	M6	0.24153420	04	08	24.72	.0023	162.20
55	2MS6	0.24435610	04	05	32.60	.0626	249.43
56	2MK6	0.24458430	04	05	18.85	.0300	143.71
57	2SM6	0.24717810	04	02	44.40	.0273	176.88
58	MSK6	0.24740620	04	02	30.97	.0586	317.73
59	3MK7	0.28331490	03	31	46.71	.0118	122.82
60	M8	0.32204560	03	06	18.54	.0194	59.89

Frequenza Ampiezza e Fase dei costituenti di marea

Ponza

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. - Frequenze in cicli/ora

Periodi in ore, minuti, secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				8.4976	180.00
2	SSA	0.00022816	4382	53	21.12	2.2091	25.30
3	MSM	0.00130978	763	29	13.19	1.6371	178.80
4	MM	0.00151215	661	18	36.20	2.5434	297.08
5	MSF	0.00282193	354	22	02.64	.8737	261.17
6	MF	0.00305009	327	51	33.04	1.7848	44.14
7	ALP1	0.03439657	29	04	21.60	.0467	36.85
8	2Q1	0.03570635	28	00	22.40	.0971	125.83
9	SIG1	0.03590872	27	50	54.20	.2083	232.82
10	Q1	0.03721850	26	52	06.09	.2576	315.17
11	RHO1	0.03742087	26	43	23.00	.1324	117.72
12	O1	0.03873065	25	49	09.64	1.1250	104.91
13	TAU1	0.03895881	25	40	05.29	.0965	156.68
14	BET1	0.04004043	24	58	29.12	.1448	117.85
15	NO1	0.04026859	24	49	59.70	.2083	136.68
16	CHI1	0.04047097	24	42	32.65	.2043	87.23
17	P1	0.04155259	24	03	57.20	1.2300	150.64
18	K1	0.04178075	23	56	04.08	3.2362	187.39
19	PHI1	0.04200891	23	48	16.11	.4652	93.14
20	THE1	0.04309053	23	12	25.04	.2061	310.82
21	J1	0.04329290	23	05	54.51	.1440	189.72
22	SO1	0.04460268	22	25	12.64	.1117	280.93
23	OO1	0.04483084	22	18	21.86	.1629	195.52
24	UPS1	0.04634299	21	34	41.65	.1112	28.46
25	OQ2	0.07597494	13	09	44.05	.0447	196.04
26	EPS2	0.07617731	13	07	38.17	.1195	114.42
27	2N2	0.07748710	12	54	19.35	.3343	130.87
28	MU2	0.07768947	12	52	18.33	.3209	214.03
29	N2	0.07899925	12	39	30.05	2.2651	197.26
30	NU2	0.07920162	12	37	33.62	.6006	182.27
31	M2	0.08051140	12	25	14.16	11.6239	204.05
32	MKS2	0.08073957	12	23	07.80	.1946	73.16
33	LDA2	0.08182118	12	13	18.39	.0795	65.90
34	L2	0.08202355	12	11	29.83	.4844	221.90
35	S2	0.08333334	11	59	60.00	3.9524	221.52
36	K2	0.08356149	11	58	02.05	1.0305	235.98
37	MSN2	0.08484548	11	47	10.07	.1104	224.03
38	ETA2	0.08507364	11	45	16.28	.1250	173.79
39	MO3	0.11924210	08	23	10.68	.2567	197.95
40	M3	0.12076710	08	16	49.44	.4224	307.37
41	SO3	0.12206400	08	11	32.73	.2288	5.76
42	MK3	0.12229210	08	10	37.72	.1473	97.21
43	SK3	0.12511410	07	59	33.74	.0998	284.15
44	MN4	0.15951060	06	16	09.03	.2448	49.97
45	M4	0.16102280	06	12	37.08	.3209	108.14
46	SN4	0.16233260	06	09	36.69	.0601	97.56
47	MS4	0.16384470	06	06	12.03	.2738	144.46
48	MK4	0.16407290	06	05	41.47	.1445	127.07
49	S4	0.16666670	05	59	60.00	.1699	20.21
50	SK4	0.16689480	05	59	30.47	.1480	311.40
51	2MK5	0.20280360	04	55	51.16	.0362	7.63
52	2SK5	0.20844740	04	47	50.54	.1958	299.33
53	2MN6	0.24002200	04	09	58.63	.1342	28.59
54	M6	0.24153420	04	08	24.72	.2679	244.42
55	2MS6	0.24435610	04	05	32.60	.2347	106.43
56	2MK6	0.24458430	04	05	18.85	.2486	20.75
57	2SM6	0.24717810	04	02	44.40	.2467	342.82
58	MSK6	0.24740620	04	02	30.97	.2400	270.93
59	3MK7	0.28331490	03	31	46.71	.0460	9.30
60	M8	0.32204560	03	06	18.54	.0626	191.00

Frequenza Ampiezza e Fase dei costituenti di marea

Marina di Campo

Analisi effettuata con misure orarie

Periodo da 01 Gennaio 2011 a 31 Dicembre 2011

Ampiezze in cm. -Frequenze in cicli/ora

Periodi in ore,minuti,secondi - Fase in gradi

No	Nome	Frequenza	hhhh	mm	sssss	Amp	Fase
1	Z0	0.00000000				3.2782	.00
2	SSA	0.00022816	4382	53	21.12	.3041	174.54
3	MSM	0.00130978	763	29	13.19	1.8319	120.59
4	MM	0.00151215	661	18	36.20	2.8974	260.72
5	MSF	0.00282193	354	22	02.64	2.0622	250.23
6	MF	0.00305009	327	51	33.04	1.9283	45.94
7	ALP1	0.03439657	29	04	21.60	.0976	230.75
8	2Q1	0.03570635	28	00	22.40	.1093	71.22
9	SIG1	0.03590872	27	50	54.20	.1077	202.38
10	Q1	0.03721850	26	52	06.09	.1063	14.69
11	RHO1	0.03742087	26	43	23.00	.0920	34.89
12	O1	0.03873065	25	49	09.64	1.5062	84.52
13	TAU1	0.03895881	25	40	05.29	.2388	88.28
14	BET1	0.04004043	24	58	29.12	.0458	61.59
15	NO1	0.04026859	24	49	59.70	.2460	116.99
16	CHI1	0.04047097	24	42	32.65	.0294	195.48
17	P1	0.04155259	24	03	57.20	.5662	162.94
18	K1	0.04178075	23	56	04.08	2.6558	164.04
19	PHI1	0.04200891	23	48	16.11	.1100	14.71
20	THE1	0.04309053	23	12	25.04	.0567	129.78
21	J1	0.04329290	23	05	54.51	.2463	214.88
22	SO1	0.04460268	22	25	12.64	.0754	265.84
23	OO1	0.04483084	22	18	21.86	.0580	189.77
24	UPS1	0.04634299	21	34	41.65	.0880	329.92
25	OQ2	0.07597494	13	09	44.05	.0829	260.85
26	EPS2	0.07617731	13	07	38.17	.0694	82.19
27	2N2	0.07748710	12	54	19.35	.3786	160.89
28	MU2	0.07768947	12	52	18.33	.4395	176.56
29	N2	0.07899925	12	39	30.05	2.1858	188.20
30	NU2	0.07920162	12	37	33.62	.3853	192.60
31	M2	0.08051140	12	25	14.16	10.8088	199.55
32	MKS2	0.08073957	12	23	07.80	.1209	204.91
33	LDA2	0.08182118	12	13	18.39	.0587	165.26
34	L2	0.08202355	12	11	29.83	.3020	215.24
35	S2	0.08333334	11	59	60.00	3.9239	215.39
36	K2	0.08356149	11	58	02.05	1.0408	219.57
37	MSN2	0.08484548	11	47	10.07	.0656	305.95
38	ETA2	0.08507364	11	45	16.28	.1296	195.70
39	MO3	0.11924210	08	23	10.68	.0899	194.84
40	M3	0.12076710	08	16	49.44	.3304	328.88
41	SO3	0.12206400	08	11	32.73	.1008	18.52
42	MK3	0.12229210	08	10	37.72	.0558	320.58
43	SK3	0.12511410	07	59	33.74	.1944	252.03
44	MN4	0.15951060	06	16	09.03	.0622	73.68
45	M4	0.16102280	06	12	37.08	.1301	93.55
46	SN4	0.16233260	06	09	36.69	.0513	126.77
47	MS4	0.16384470	06	06	12.03	.0545	120.68
48	MK4	0.16407290	06	05	41.47	.0225	215.59
49	S4	0.16666670	05	59	60.00	.0224	59.42
50	SK4	0.16689480	05	59	30.47	.0687	115.15
51	2MK5	0.20280360	04	55	51.16	.0317	99.08
52	2SK5	0.20844740	04	47	50.54	.0092	23.46
53	2MN6	0.24002200	04	09	58.63	.0236	153.42
54	M6	0.24153420	04	08	24.72	.0132	105.71
55	2MS6	0.24435610	04	05	32.60	.0777	74.40
56	2MK6	0.24458430	04	05	18.85	.0788	157.48
57	2SM6	0.24717810	04	02	44.40	.0270	78.62
58	MSK6	0.24740620	04	02	30.97	.0184	342.93
59	3MK7	0.28331490	03	31	46.71	.0327	137.70
60	M8	0.32204560	03	06	18.54	.0048	43.49