АСТРОНОМИЧЕСКОЕ ОБЩЕСТВО

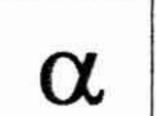


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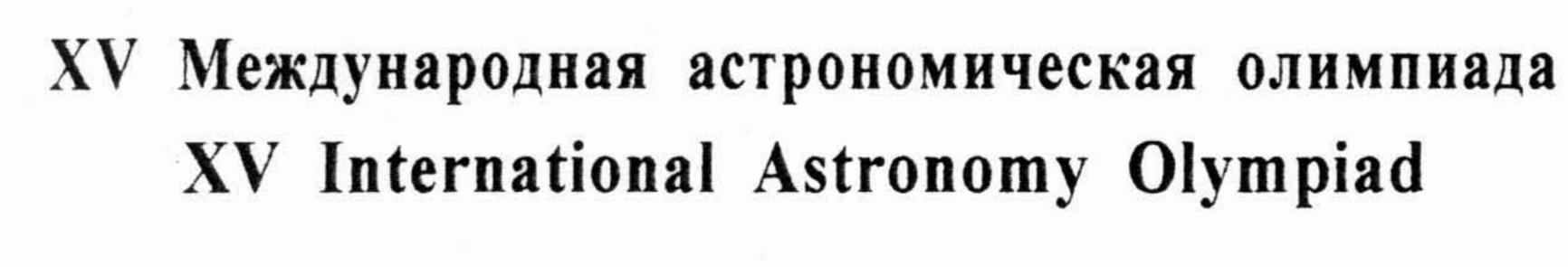
Round

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Group



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Крым, Судак

16 - 24. X. 2010

Sudak, Crimea

язык	Fualich
language	English
язык	Puccuii
language	Русский

Practical round. Answers for problem 6 to solve

Ответы к задаче 6 практического тура

Table 1. Таблица 1.

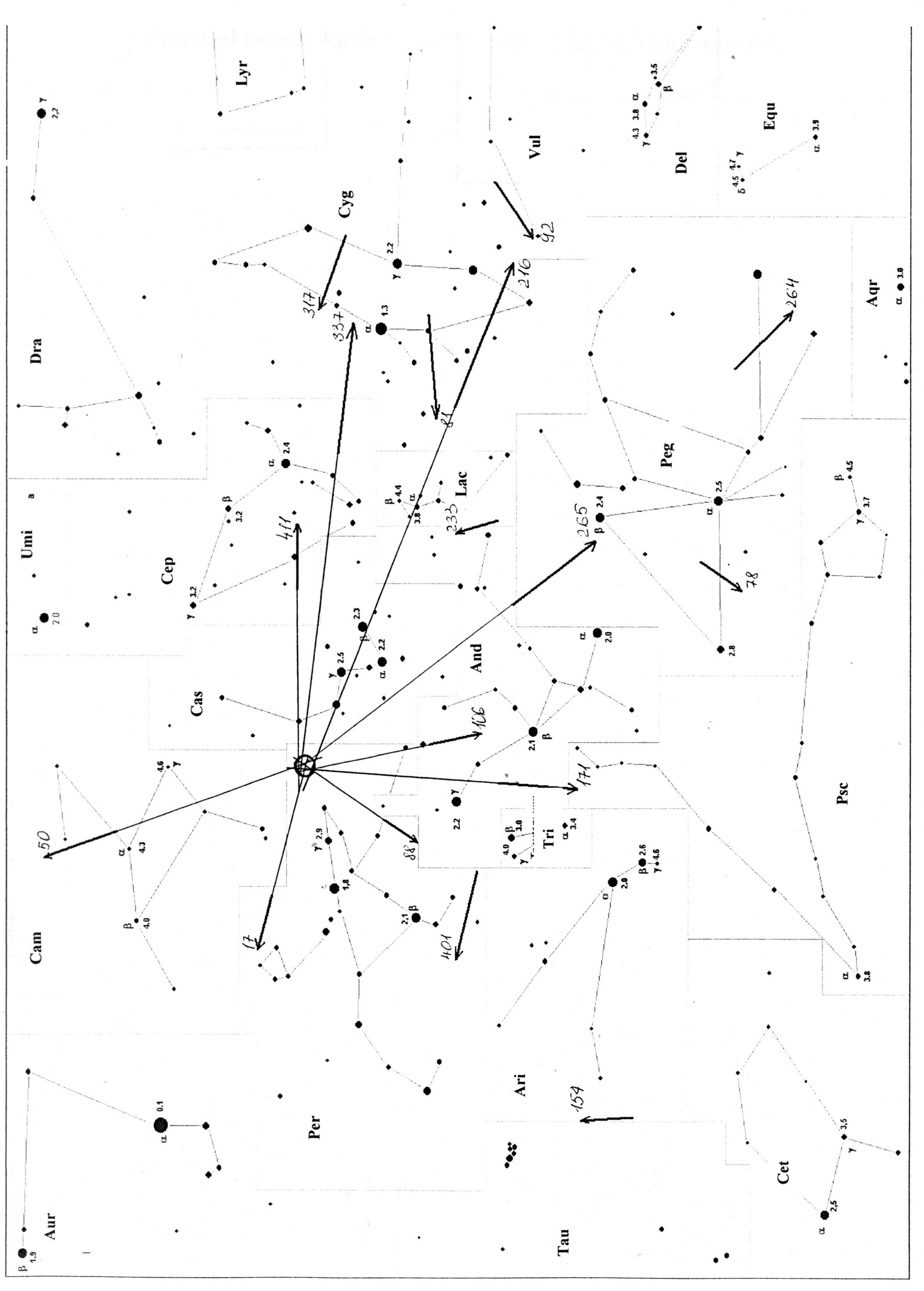
	7 4 0 3 7 4 4 4	**************************************
	(LT)	(UT)
T _b	21:15	18:15
T _e	04:00	01:00

Table 2. Таблица 2.

No	17, 50, 88, 106, 171, 216, 265, 337, 411
$\alpha =$	$2^{h}30^{m}$ $\delta = 61^{\circ}30'$
DD.MM	$12.08 - 13.08 \ (\pm 1^d)$
Тъ	21:00 - 22:00
T _e	04:00 - 05:00

Table 3. Таблица 3.

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No	h _r	lm	N	T_{eff}	F	ZHR
1	23	5,7	12	0,75	1,022	86
2	29	6,5	19	0,83	1	48
3	37	6,5	40	0,83	1	80
4	47	6,5	48	0,83	1,033	82
5	54	6,5	65	0,83	1	96
6	63	6,2	66	1	1	98



Practical round. Answers for problem 7. Cataclysmic variable

7.1. 2004

7.2. Mg system = Mg comparison (4.6^m) + Mg relative (2nd column in Table 1.)

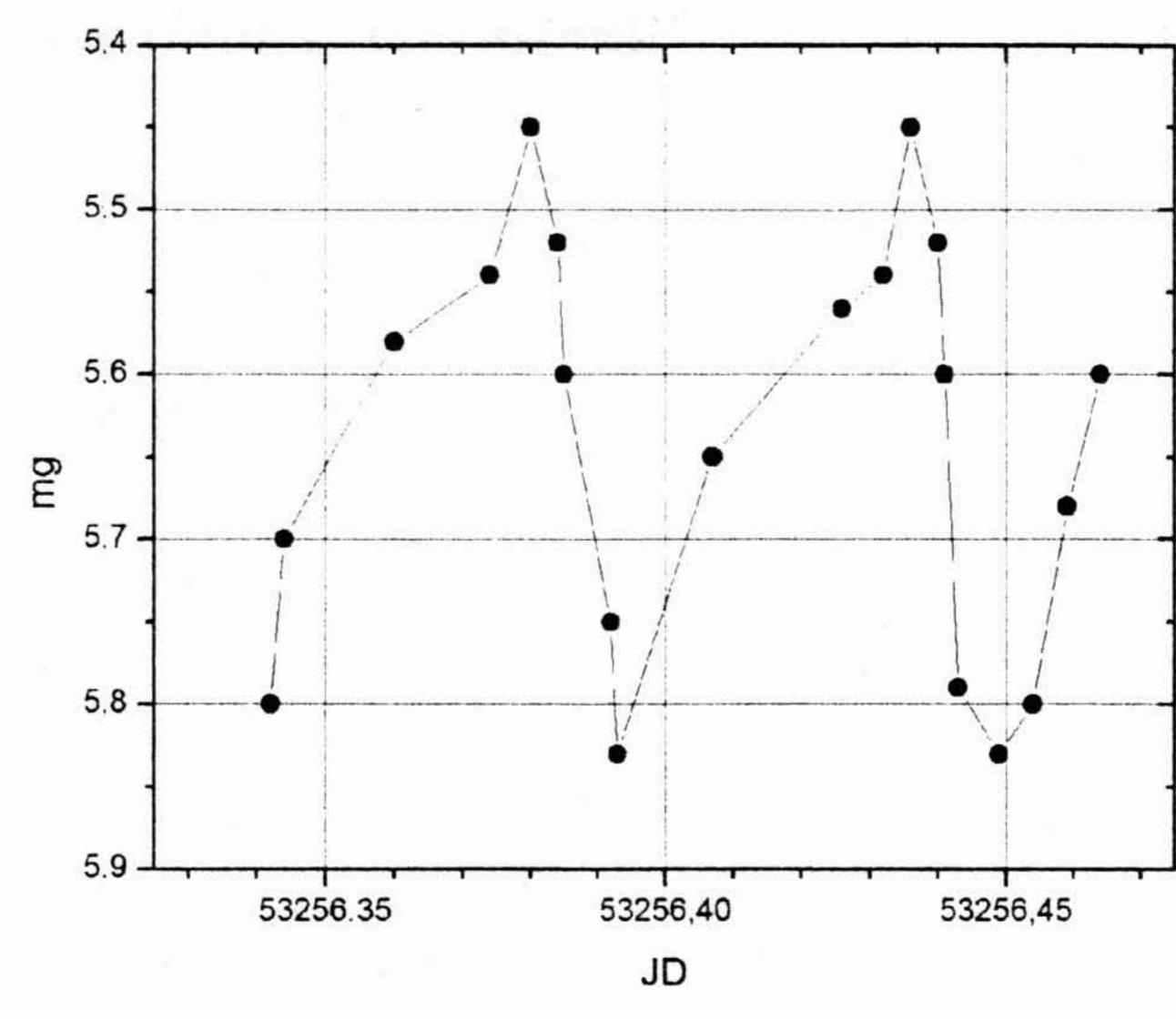
7.3.

JD _{max}	Mg _{max}	JD_{min}	Mg_{min}
53256.38	5.45 (0.85)	53256.393	5.825 (1.23)
53256.436	5.45 (0.85)	53256.449	5.825 (1.23)

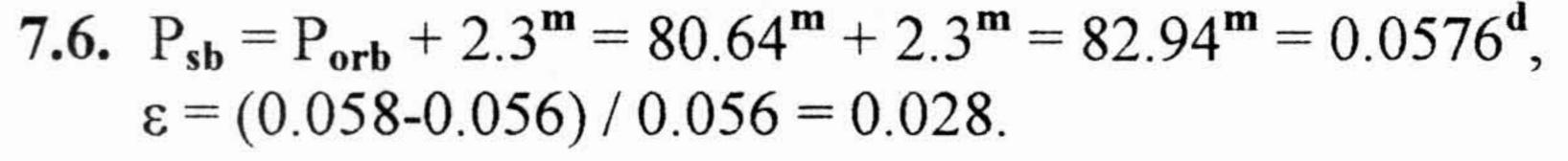
7.4.
$$P_{orb} = 0.056^d = 80.64^m$$

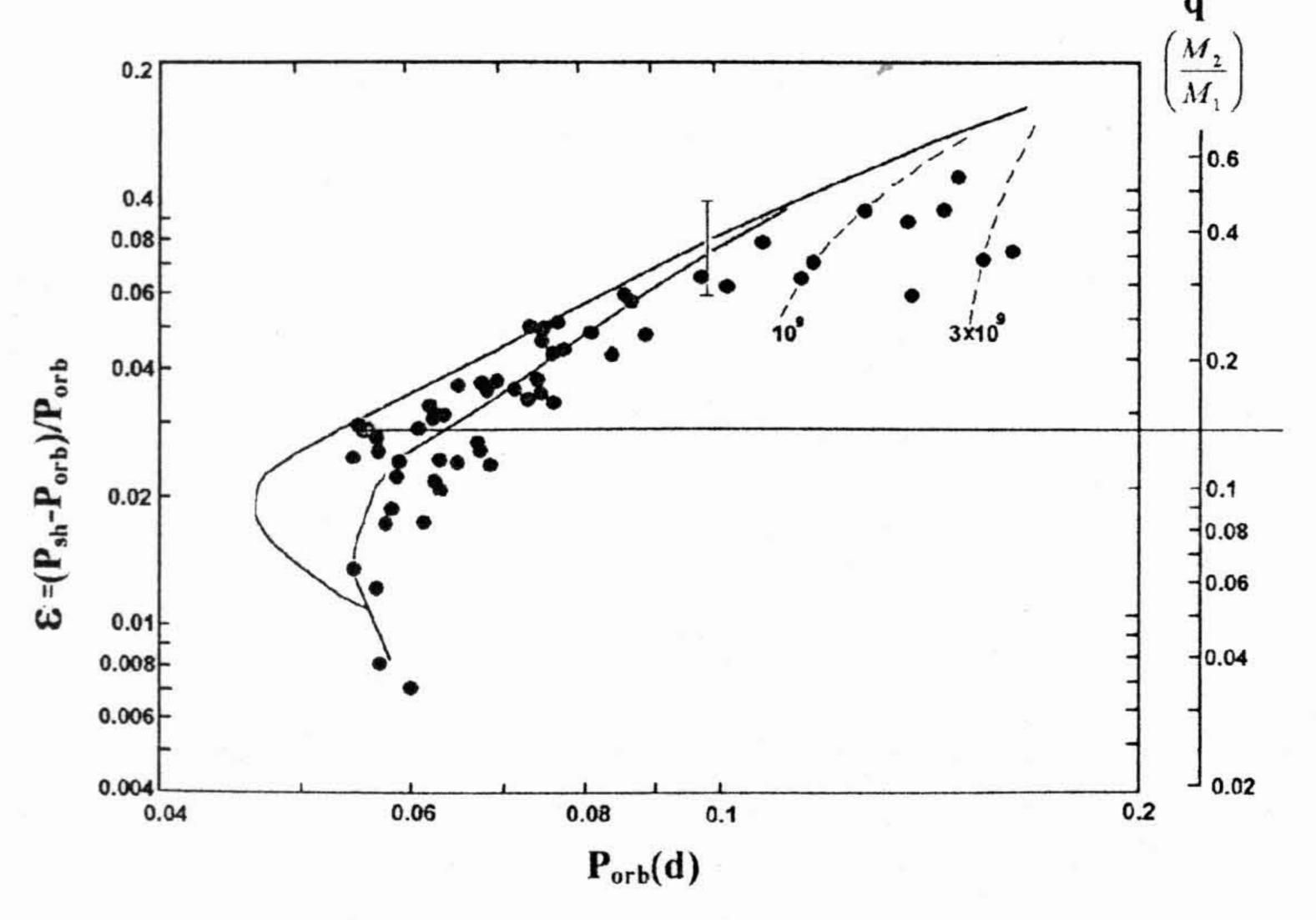
7.5.

JD 2400000 +	Mg	Phasa
53256,337		0
53256,342	1,2	0,08929
53256,344	1,1	0,125
53256,36	0,98	0,41071
53256,374	0,94	0,66071
53256,38	0,85	0,76786
53256,384	0,92	0,83929
53256,385	1	0,85714
53256,392	1,15	0,98214
53256,393	1,23	1
53256,407	1,05	0,25



JD 2400000 +	Mg	Phasa
53256,426	0,96	0,58929
53256,432	0,94	0,69643
53256,436	0,85	0,76786
53256,44	0,92	0,83929
53256,441	1	0,85714
53256,443	1,19	0,89286
53256,449	1,23	0
53256,454	1,2	0,08929
53256,459	1,08	0,17857
53256,464	1	0,26786





Ratio of masses of the components: $M_2/M_1 = 0.15 \pm 0.01$.

