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 INFORMATION BULLETIN ON VARIABLE STARS
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Konkoly Observatory
 Budapest
 11 November 1963

THE ELEMENTS OF THE VARIABLE STAR
 390.1933 (CEPHEI)

The star is No 5411 in the Catalogue of Stars Suspected of
 Variability (Moscow 1951) = BD + 77^o813 (9^m5), Mira type, $m_{ph} = 12^m.5$
 $-15^m.5$. According to maxima obtained on Bamberg plates we have the
 elements:

$$\text{Max} = \text{JD } 242\,6782 + 331^d.E$$

Individual maxima:	E	O-C
242 6782 + 10 (M)	0	0
7105 + 15 (M)	1	- 8
9080	7	-19
9465:	8	+35:
243 1001 (G)	10	+ 9
6380	29	- 1

(M) = O. Morgenroth, AN 250, 1933

(G) = E. Geyer, Veröff. Bamberg
 V, 9, 1960

THREE " POORLY KNOWN " VARIABLE STARS

AA UMa

The elements in the GCVS (Moscow 1958) are:

$$\text{Min} = \text{JD } 243\,4087.293 + 3^d.0703 (?). E, \text{ type EA}$$

The corrected elements based on Bamberg patrol plates are:

$$\text{Min} = \text{JD } 242\,5687.345 + 0^d.763\,839.E, \text{ type EB}$$

Primary Minima			Secondary Minima		
JD	E	O-C	JD	E	O-C
242 5687.344	0	-0.001	242 6772.405	1420	+0.409
6434.385	978	+0.006	6798.381	1454	+0.413
6770.455	1418	-0.013	7183.342	1958	-0.400
6796.401	1452	-0.038	7516.369	2394	+0.393
7126.424	1884	+0.006	7901.372	2898	+0.422
7155.433	1922	-0.010	8609.421	3825	+0.392
7158.482	1926	-0.017	8991.381	4325	+0.433
7449.529	2307	+0.008	9317.500	4752	+0.393
7478.516	2345	-0.031	243 6614.460	14305	+0.398
8213.385	3307	+0.025	6663.372	14369	+0.425
8219.481	3315	+0.010	7022.387	14839	+0.436
8957.362	4281	+0.022			
243 4087.297*	10997	+0.015			
4452.396	11475	-0.001			
5183.384*	12432	-0.007			
5186.458*	12436	+0.011			
6612.492	14303	-0.042			
6658.343	14363	-0.021			

* = V. P. Tsessewitch, AC Kasan
170, 1956

The estimated light-curve is
shown in the figure.

EH Peg

The elements in the GCVS (Moscow 1958) are:

$$\text{Min} = \text{JD } 243 \ 1326.660 + 2^d 367. \text{E, type EA.}$$

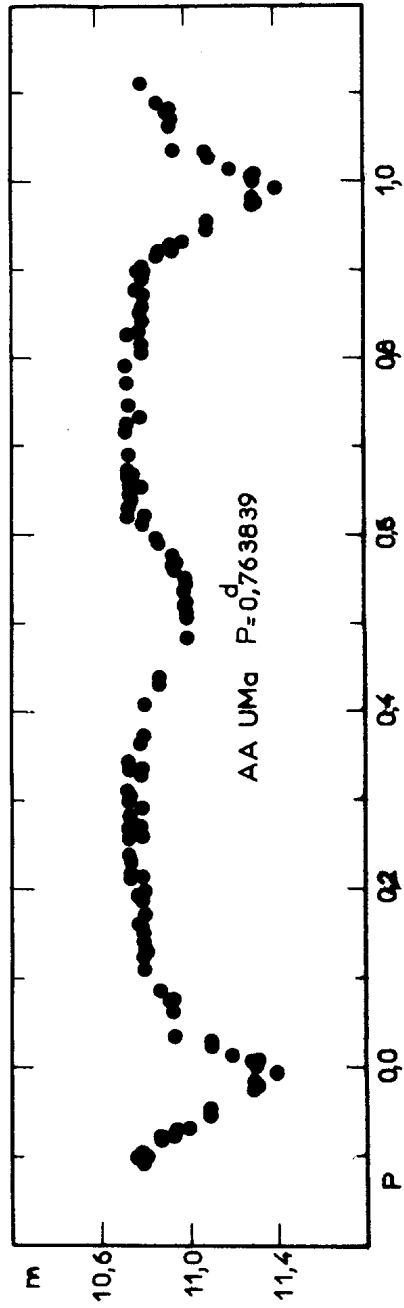
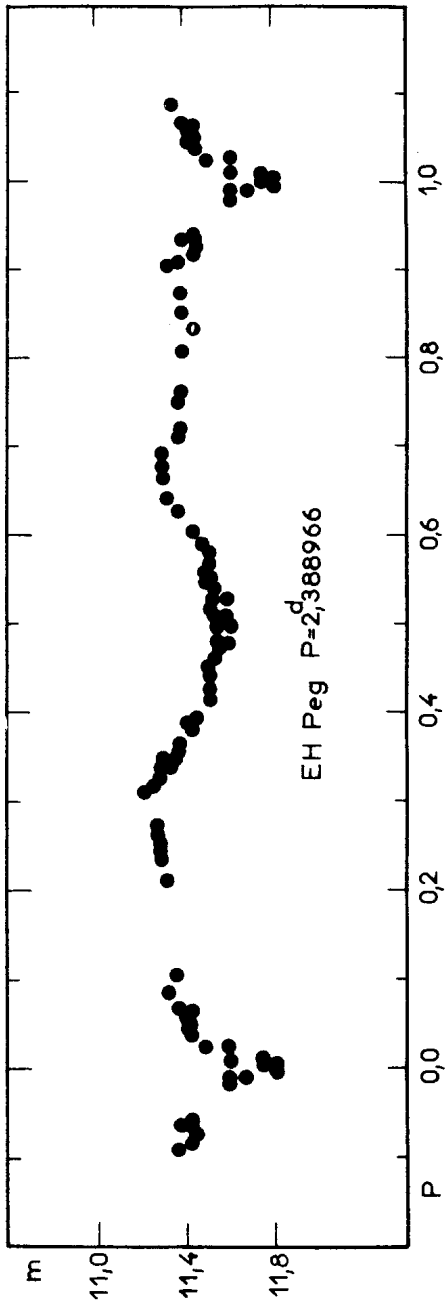
The corrected elements based on Bamberg patrol plates are:

$$\text{Min} = \text{JD } 242 \ 5883.360 + 2^d 388 \ 966. \text{E, type EB.}$$

Primary Minima			Secondary Minima		
JD	E	O-C	JD	E	O-C
242 5883.374	0	+0.014	242 6632.328	313	+1.222
7689.381	756	-0.037	243 1317.19*	2274	+1.32
8408.494	1057	-0.003	1324.33*	2277	+1.29
9108.475	1350	+0.011	1329.08*	2279	+1.27
243 7233.353	4751	+0.013	1331.31*	2280	+1.11
7964.338	5057	-0.024	1343.25*	2285	+1.10
385	5057	+0.024	7559.380	4887	+1.143
			.431	4887	+1.194
			7957.334	5054	+1.140

* = V. P. Tsessewitch, Odessa Isv.
IV, 1954

The estimated light-curve is shown in the figure.



RV Oct = 29.1916 = HV 3384

From our South-African-plate material the following elements have been obtained:

$$\text{Max.} = 243\ 8196.190 + 0.61798.E$$

Individual maxima	E	O-C
243 8196.221	0	+0.031
8199.312	5	+0.032
8202.350	10	-0.020
8204.200	13	-0.024
8205.442	15	-0.018
8294.442	159	-0.007
8317.324	196	+0.010

The star is an RR Lyrae variable of type a . Photographic range: $11^m.7$ - $12^m.2$.

W.STROHMEIER and H.OTT
Remis Observatory
Bamberg