35 Visual Minimum Times of 34 Eclipsing Binaries

Ralf Meyer, Fürnheim 16, D-91717 Wassertrüdingen,
e-mail tigrayarajna@t-online.de
Fürnheim: ϕ = +49°; Instrument: 8"-Newton

The Table:

| star		minimum time mean error	number n of single observations, Δ epoch count	gregorian time interval	period (d)
TW	And	JDH 2453660,361 ± 3	n=70; Δ=110	2005JUL17... ...2006OKT14	4,122763
V805	Aql	JDH 2453621,301 ± 3	n=72; Δ=140	2005JUL28... ...2006JUN30	2,4082337
RS	Ari	JDH 2453968,746 ± 8	n=64; Δ=55	2005OKT07... ...2007FEB04	8,8032
RU	Cnc	JDH 2453769,732 ± 7	n=129; Δ=121	2003DEZ01... ...2007APL16	10,172937
RZ	Cnc	JD 2453807,51 ± 4	n=144; Δ=39	2005JAN02... ...2007APL21	21,64313
TU	Cnc	JDH 2454085,642 ± 4	n=43; Δ=73	2006MRZ01... ...2007APL11	5,561402
TW	Cnc	JD 2453790,32 ± 4	n=128; Δ=32	2001JAN15... ...2007APL08	70,760
UU	Cnc	JD 2453443,3 ± 5	n=91; Δ=9	2003DEZ09... ...2006APL24	96,682
UZ	Cnc	JD 2453791,19 ± 1	n=125; Δ=100	2004FEB16... ...2007APL16	11,58146
ZZ	Cnc	JD 2453798,10 ± 5	n=144; Δ=24	2003DEZ01... ...2007APL21	51,1894
RS	CVn	JDH 2453541,528 ± 4	n=33; Δ=112	2005JAN07... ...2006JUN28	4,797708
RX (prim)	Cas	JD 2454038,15 ± 20	n=104; Δ=7	2006AUG04... ...2007MRZ16	32,3339
RX (sec)	Cas	JD 2454054,44 ± 20			
AQ	Cas	JD 2454002,874 ± 50	n=145; Δ=19	2006JUL03... ...2007FEB11	11,72092
U	Cep	JDH 2454077,669 ± 3	n=90; Δ=69	2006SPT21... ...2007MRZ12	2,4930937
V367	Cyg	JD 2453645,3 ± 3	n=132; Δ=22	2005JUN09... ...2006JUL29	18,59777
V371	Cyg	JD 2453594,9 ± 2	n=113; Δ=20	2004MAI16... ...2006NOV15	45,3800
S	Equ	JDH 2453654,167 ± 2	n=89; Δ=124	2005JUL09... ...2006SPT08	3,4361291
RX	Gem	JDH 2453765,603 ± 8	n=98; Δ=68	2005JAN04... ...2007APL14	12,208744

star	minimum time mean error	number n of single observations, Δ epoch count	gregorian time interval	period (d)
RY Gem	JDH 2454083,284 ± 4	n=79; Δ=48	2006JAN22... ...2007APL13	9,300525
AW Her	JDH 2453926,012 ± 5	n=69; Δ=52	2005JUL13... ...2006OKT14	8,800806
AI Hya	JDH 2453787,80 ± 6	n=63; Δ=104	2004DEZ09... ...2007APL19	8,289676
GM Hya	JDH 2453761,95 ± 2	n=39; Δ=67	2005JAN13... ...2007APL09	12,18511
AU Mon	JDH 2453769,957 ± 8	n=188; Δ=110	2003DEZ01... ...2007APL01	11,1130371
FM Ori	JD 2453451,85 ± 2	n=207; Δ=56	2003OKT26... ...2007APL01	22,1445
V643 Ori	JD 2453431,82 ± 4	n=68; Δ=22	2004JAN02... ...2007MRZ12	52,42197
DF Peg	JDH 2453657,625 ± 7	n=51; Δ=31	2005JUL17... ...2006OKT16	14,698822
RY Per	JDH 2453893,537 ± 6	n=92; Δ=71	2005OKT16... ...2007FEB15	6,8635663
ST Per	JDH 2454084,082 ± 2	n=59; Δ=72	2006SPT01... ...2007MRZ11	2,648389
AB Per	JDH 2453797,29 ± 2	n=96; Δ=74	2005SPT04... ...2007FEB16	7,160098
AY Per	JDH 2453661,354 ± 7	n=135; Δ=133	2002SPT12... ...2006DEZ27	11,776511
U Sge	JDH 2453651,231 ± 2	n=68; Δ=100	2005JUL28... ...2006JUL01	3,3806184
ET Tau	JDH 2453379,880 ± 8	n=196; Δ=335	2001OKT02... ...2007APL04	5,996879
W UMi	JDH 2453917,443 ± 6	n=94; Δ=90	2006MRZ20... ...2006AUG20	1,7011383
RS Vul	JDH 2453620,429 ± 4	n=85; Δ=93	2005JUL14... ...2006SPT04	4,4776635

Remarks:
1. JDH means, that the time argument of each single observation has been reduced to the sun (others: JD).
2. I used the periods given in the last column of the table to reduce my time arguments into a standard epoch. Except for RX Gem and AB Per these periods have been reported in the literature. I do not give detailed references.
3. On the following figures with lightcurves: All abscissae are scaled in JD. All ordinates are scaled in magnitudes (the minus signs should be ignored). The red arrowheads and lines indicate the instant of minimum.
4. On my magnitudes: I observe using an artificial, visual step scale. Having finished my observations I find magnitudes either by comparing my step values with reported comparison star magnitudes or by comparing extreme values of the step scale with maximum and minimum magnitudes reported in the GCVS. I **never** refer single visual observations directly to magnitudes the way the AAVSO does. I regard this immediate referral as naive and inadequate.

Lightcurve of FM Orionis - complete epoch and detail:
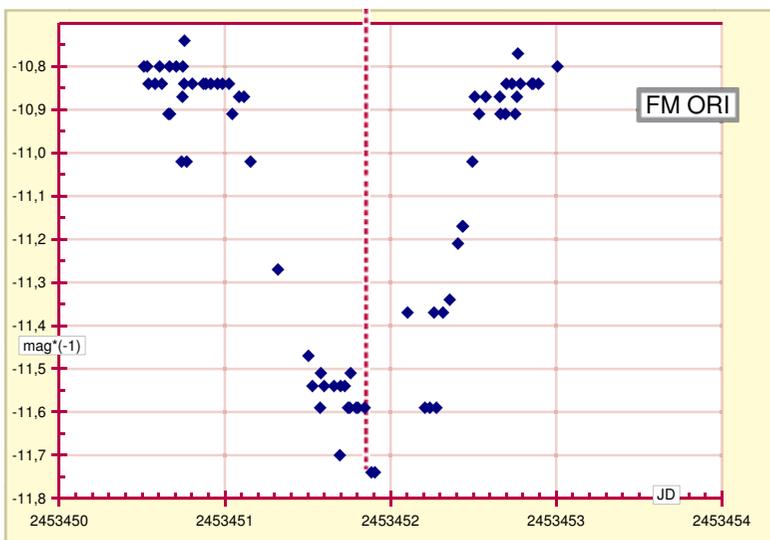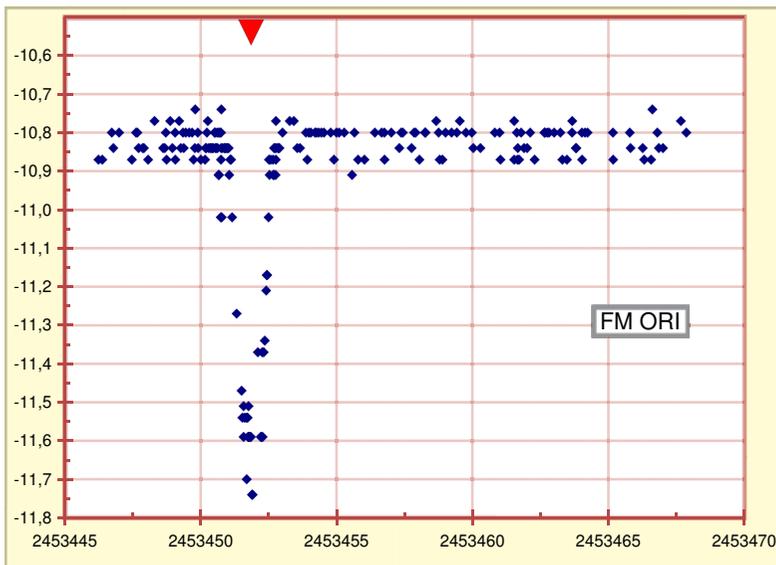
Lightcurve of UZ Cancri - complete epoch and detail:

Ralf Meyer, 2007APL24