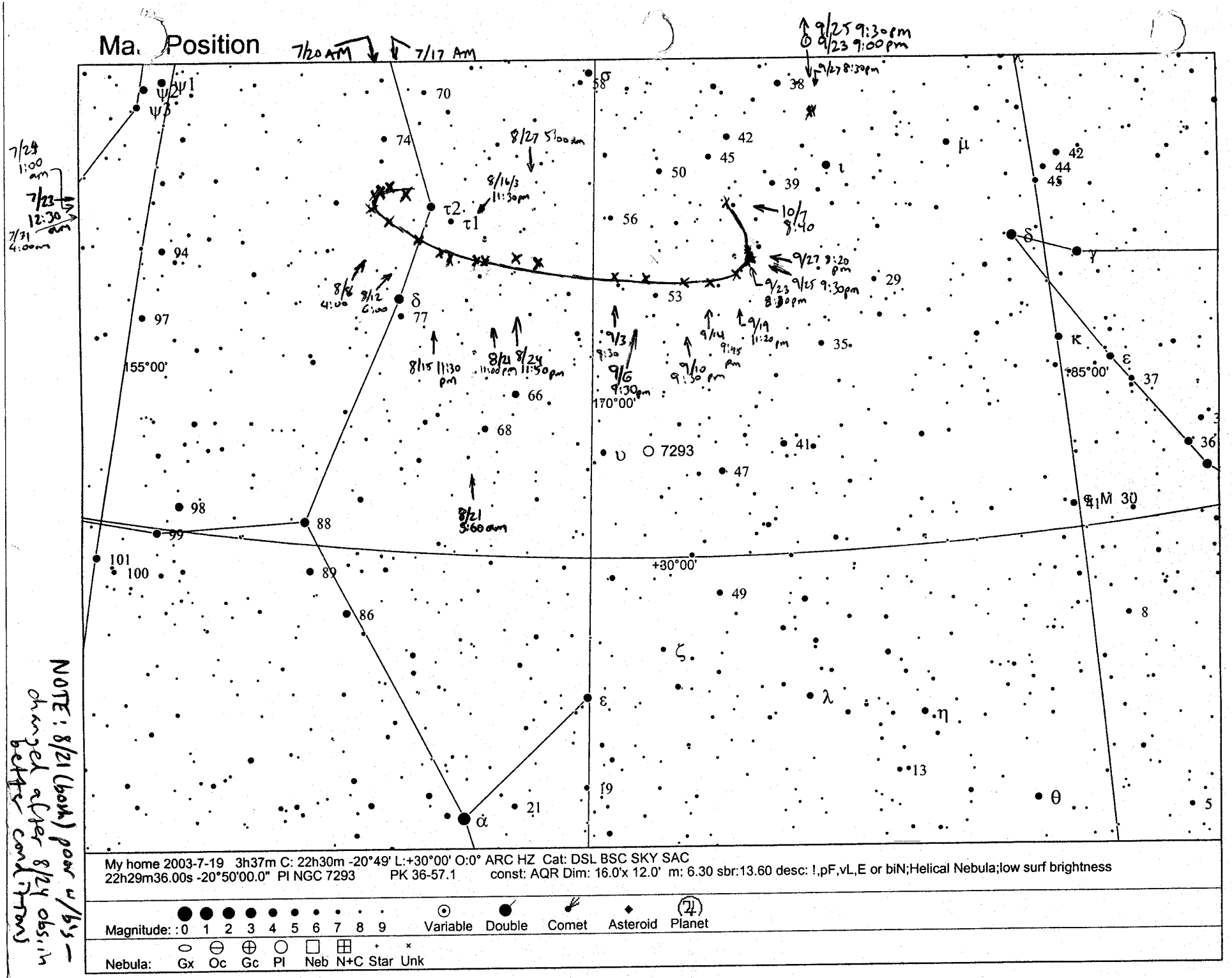
The American Association of Amateur Astronomers

Observing Log

www.AstroMax.com

Observer: B YOUNG Location: HOME Page: _____

INDEX	Period - Instrument		Notes
Object	Date 9/10/17	Time 1:20 UT	& VERY LOW BUT BANDS STILL
	Power 20	Seeing II	VISIBLE. VERY UNSTEADY
	Type Instrument 20X80 B'S		BUT CLEAR SKY II I II IV
Object	Date	Time 1:25	th RINGS AS BUMPS
	Power	Seeing	+ TITAN SEEN
	Type Instrument		
Object	Date 8/21/17	Time	PREP FOR TOTAL SOLAR ECLIPSE
	Power 20	Seeing II	LOCATION = FARMINGTON, MO SS# AR2671
	Type Instrument 20X80 B'S		USED ETX BAADER FILM HELD TO BINOS
Object	Date	Time	JUST BARELY SEEN, NO DETAIL
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		



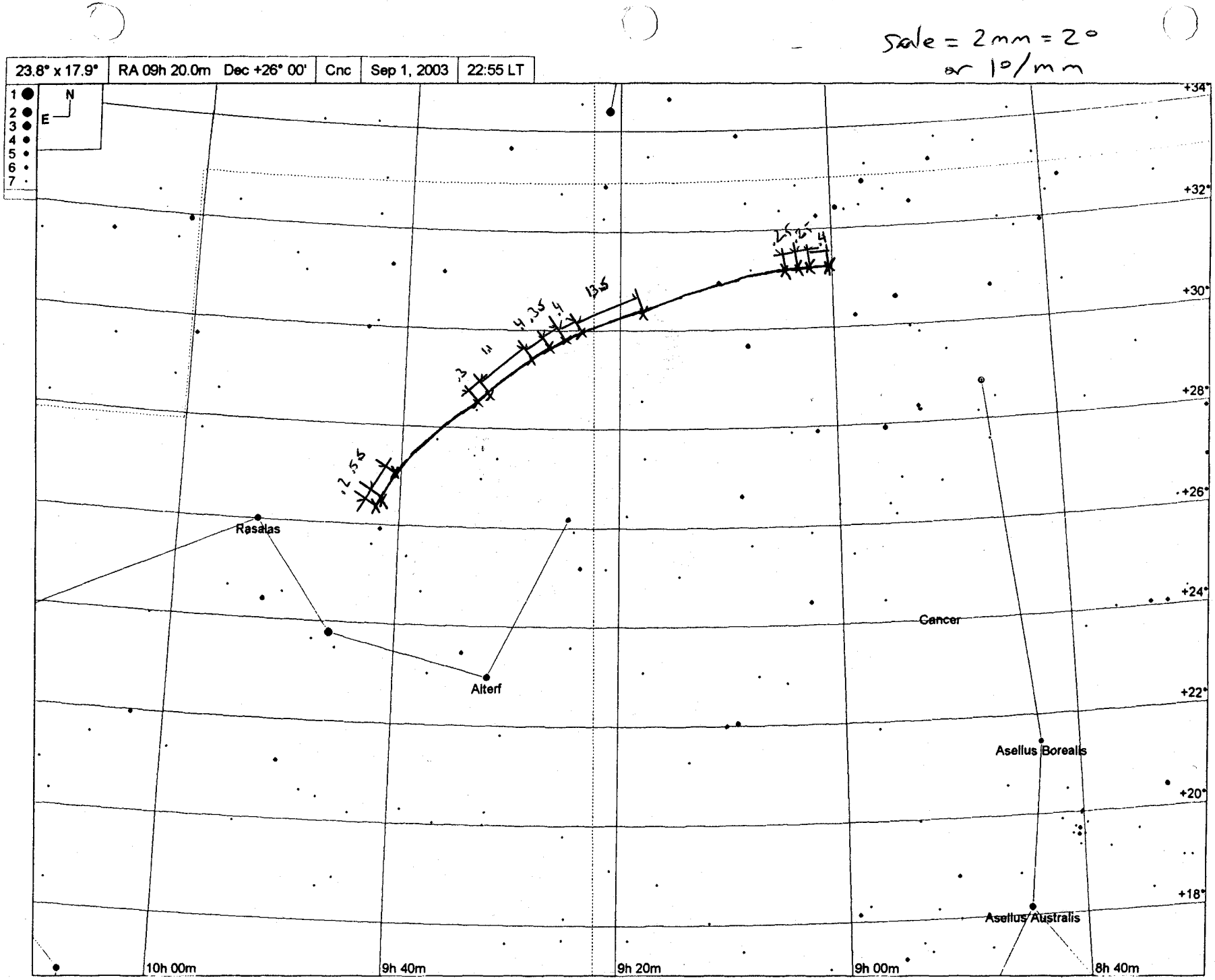
NOTE: 8/21 (both) poor w/ 4's — changed after 8/24 obs. in better conditions

ALPO Project
Asteroids: Measuring Their Movement

Observer: Brad Young
Asteroid: Ceres

Date	Time (CST)	Instrument	Mag	Δ Chart (mm)	Δ Time (hrs)	Hourly Movement (arcsec / hr)	Travels 1 Degree (hrs)
1/8/95	4:40	4.5" Refl	45				
1/9/95	6:00	4.5" Refl	45	0.2	25.3	28	127
1/14/95	6:00	4.5" Refl	45	0.55	120	17	218
1/24/95	6:00	4.5" Refl	45				
1/26/95	0:15	4.5" Refl	45	0.3	42.25	26	141
2/2/95	6:00	10x50 Bin	10	1.1	168	24	153
2/3/95	6:00	10x50 Bin	10	0.4	24	60	60
2/4/95	0:00	10x50 Bin	10	0.35	18	70	51
2/5/95	6:00	10x50 Bin	10	0.4	30	48	75
2/9/95	6:00	10x50 Bin	10	1.35	96	51	71
2/17/95	20:00	10x50 Bin	10				
2/18/95	20:00	10x50 Bin	10	0.25	24	38	96
2/19/95	19:00	10x50 Bin	10	0.25	23	39	92
2/24/95	20:00	10x50 Bin	10	0.4	121	12	303

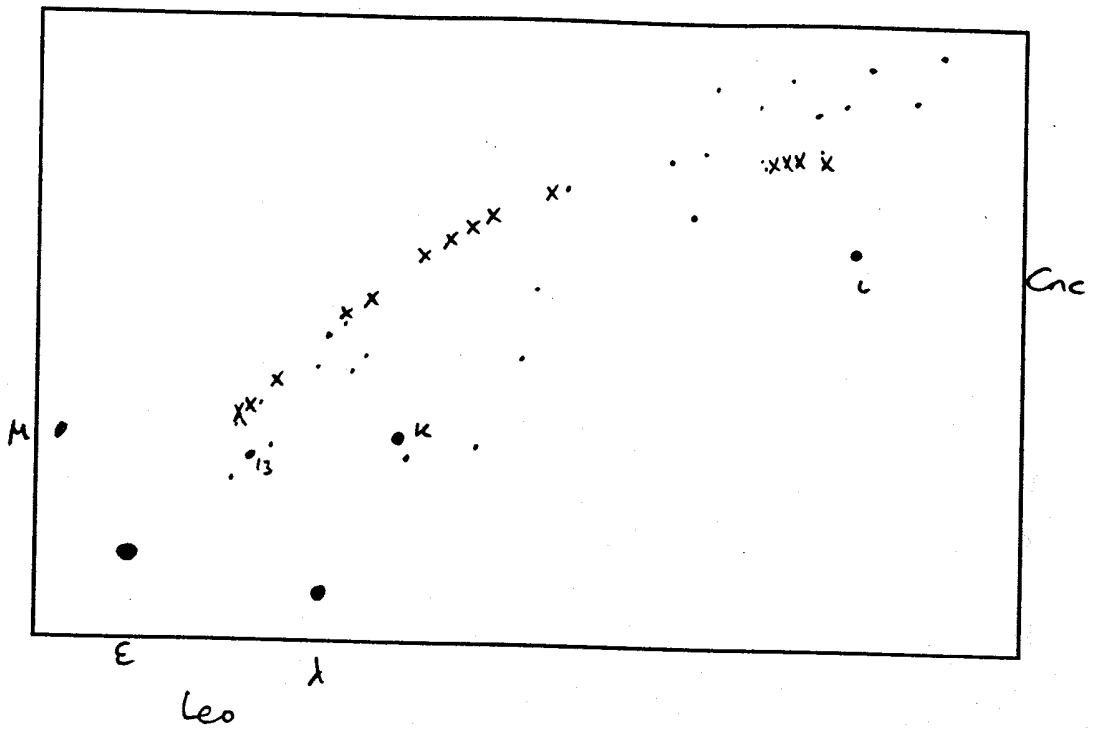
Chart Carte du Ciel
Center 9h 20m +26°
Scale 1mm = 1°
Factor 1


Scale = 2mm = 2°
or 1°/mm
23.8° x 17.9°
RA 09h 20.0m Dec +26° 00'
Cnc
Sep 1, 2003
22:55 LT
N
E
Rasalas
Alterf
Cancer
Asellus Borealis
Asellus Australis
+34°
+32°
+30°
+28°
+26°
+24°
+22°
+20°
+18°
10h 00m
9h 40m
9h 20m
9h 00m
8h 40m

DATE_____ TIME_____CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ~~ETX-125~~ 4.5" λ 10x50 EYE **POWER** 10X ~~73X~~ & 45X 153X 475X

OBJECT 1 Ceres **DESCRIPTION**_____



X (from left to right)
(east to west)

1/8/95	4:40 am	4.5" 45X
1/9/95	6 am	4.5" 45X
1/14/95	6 am	45" 45X
1/24/95	6 am	4.5" 45X
1/26/95	12:15 am	4.5" 45X
2/2/95	6 am	10X50
2/3/95	6 am	10X50
2/4/95	12 am	10X50
2/5/95	6 am	10X50
2/9/95	6 am	10X50
2/17/95	8 pm	10X50
2/18/95	8 pm	10X50
2/19/95	7 pm	10X50
2/24/95	8 pm	10X50

20140605_B_Young-Reduction Report

File name : 20140605_B_Young.txt
Reduction date : Sunday, July 20, 2014
Ephemeris : DE430,422 (1600/2250), VSOP87A
Limb basis : Kaguya {0.2deg resolution}
O-C basis : limb correction applied

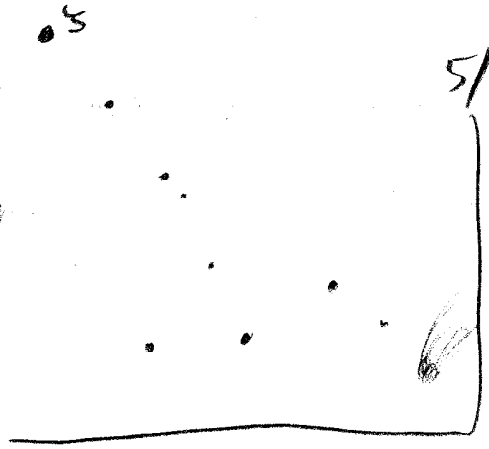
Telescopes:

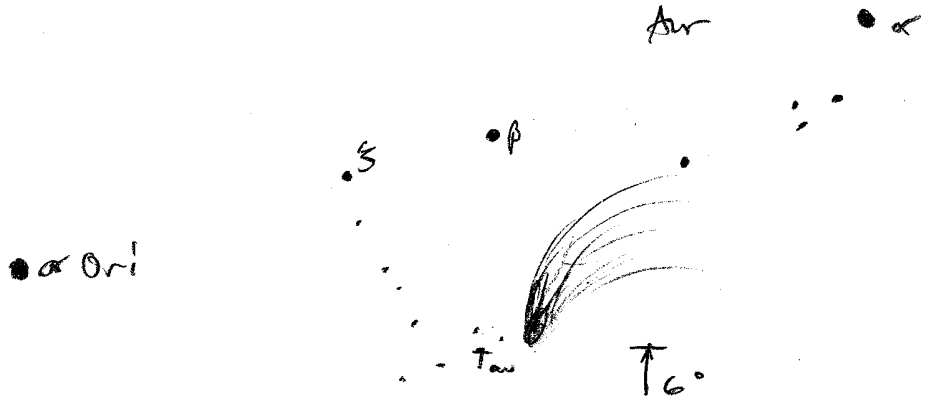
#	Aperture cm	Longitude o ' "	Latitude o ' "	Alt m
A	8	- 95 59 0.3	+36 8 21.1	201
B	13	- 95 59 0.3	+36 8 21.1	201

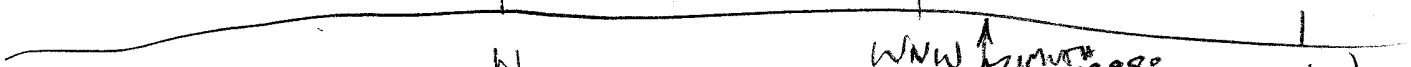
ref	Tel	Observer	Star No.	y	m	d	h	m	s	PhGrMrCeDb	O-C
001	A	B Young	S 96652	2014	6	1	2	29	14.68	DD S 1	0.48
002	B	B Young	S 96662	2014	6	1	2	42	39.40	DD S 1	-0.07
003	B	B Young	S 96667	2014	6	1	2	46	38.56	DD S 1	-0.03
004	B	B Young	S 96681	2014	6	1	3	3	24.64	DD S 1	-0.32
005	B	B Young	S 117836	2014	6	4	4	17	41.68	DD S 1	0.19

Explanation of columns 'PhGrMrCeDb'
Ph - Phase of the event.
1st character D = disappear, R = reappear, B = blink, F = flash, M = Miss
2nd character D = dark limb, B = bright limb, U = in umbra of lunar eclipse
Gr - G if the event is during a graze
Mr - Method of timing and recording. Main types are:
G = video with time insertion, V = video with other time linking
S = visual using a stopwatch, T = visual using a tape recorder, E = eye/ear
Ce - Certainty. 1 = certain, 2 = may be spurious, 3 = most likely spurious
Db - Double star indication - West, East, North, South, Brighter, Fainter

5/2/97 9:35–9:55 pm Tulsa (65)
T-Storms cleared out
Comet Hale-Bopp

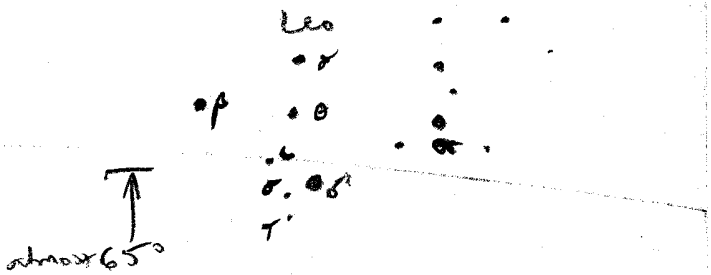


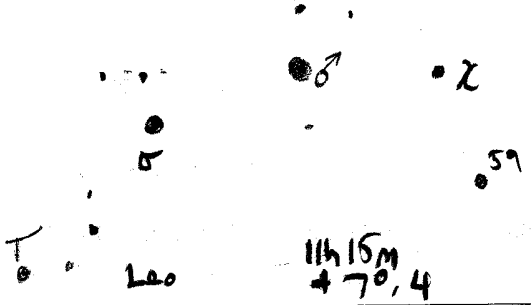


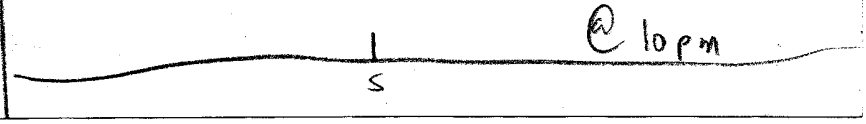


Tail is definitely "spreading" & "fanning" more (not more much) length yet, but wider) & more towards PA 65° at first, now over to 0° (or even 355°) by end!

Mag. estimate @ 9:45, ⅓ from α Ori down to β Aur, their elev. = 10° & 18° (count 0.3 for α Ori, 0 for β Aur of mags. (0.5 & 2.2) ⇒ 0.8 → 2.2 ⅓ down ≅ 1.3 "total" mag. It's height (6°) needs +1.1 mag due to atmosphere, ~+0.2 estimate







20 Dec 17:43:13 -6 25° 204° (SSW) 1.7 km (W) -6 Iridium 76
28637
28636
28646
21147
36119 n

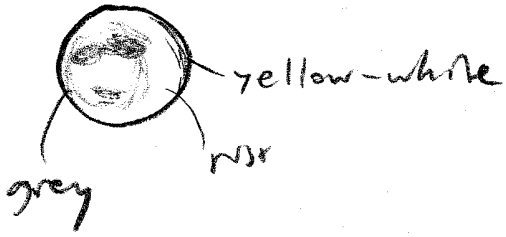
Total Eclipse of the Moon, December 20-21, 2010
Eclipse event
Penumbra first seen? 11:55 pm
Partial eclipse begins 12:33 am
Total eclipse begins 1:41 am
Mid-eclipse 2:17 am
Total eclipse ends 2:53 am
Partial eclipse ends 4:01 am
Penumbra last seen? 4:35 am

MORNING
25746
18009/10
if missed NOSS 2-3's

37253	FALCON 9 R/B					**	4.0	ElDy	3 Dr	33
6	32	26	192	8.6	1954	11	16.9	-27.1	2998	
6	33	29	189	8.6	2062	11	33.4	-24.0	2992	
6	35	36	182	8.6	2276	12	4.0	-17.9	3020	

7:23 UT

8:17 UT



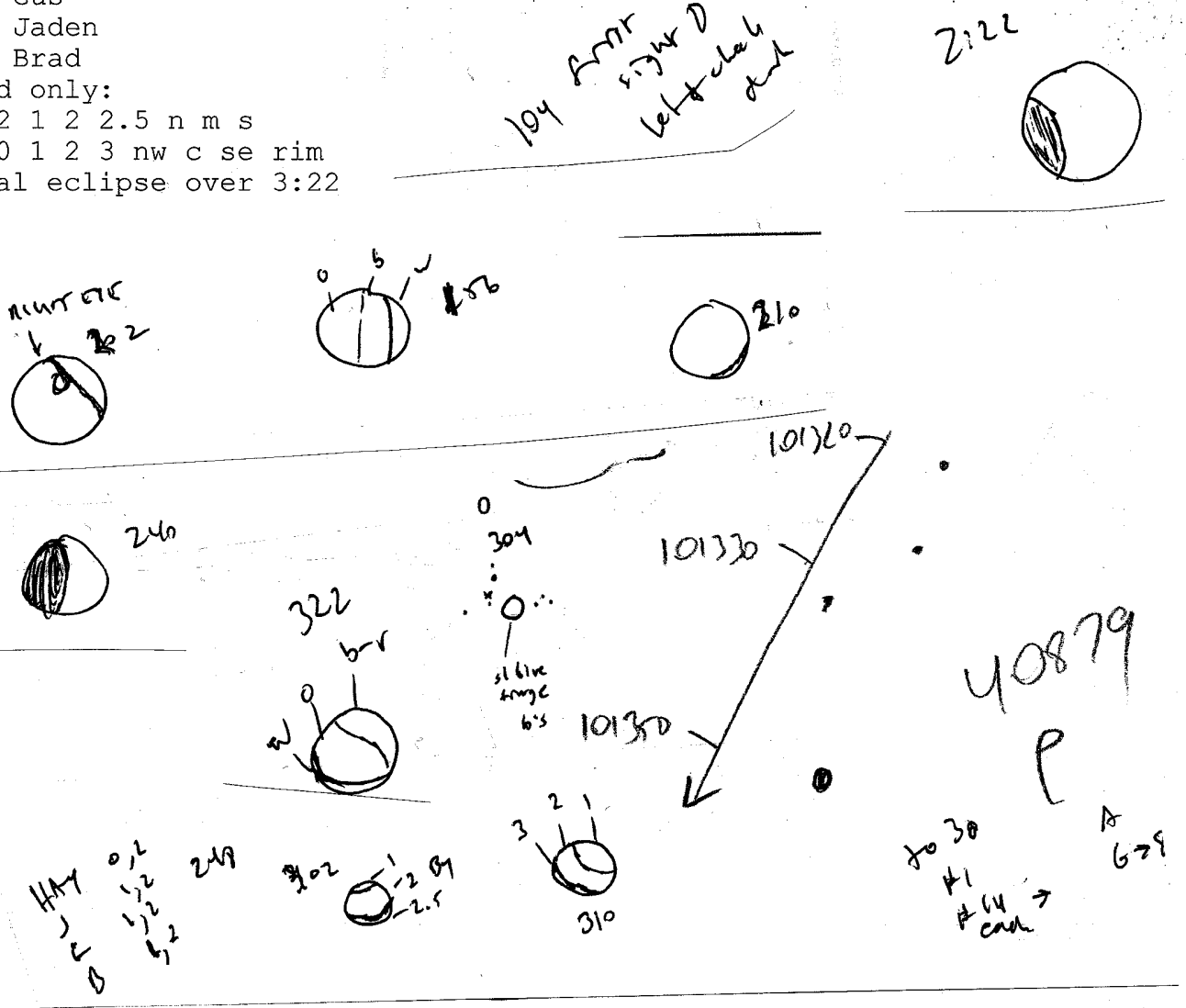
H = g = 1
B = r = 2
1.5

TOTAL ECLIPSE OF ☽ OR AS CH. 2 WEATHER BUNNY BRITTANY MANLEY SAID ON LAST NIGHT, "BLOOD HARVEST SUPER MOON!"

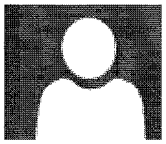
Untitled

Very moony. No classfd objects tried tonight.
FPAS12,40925,R8336A,20150927,015944,1s,-,36.1,-95.9,201,SUBB,FNN,k,14s,5,k,G1CkNNN,N,-,-,-,-,-,-,no sign of B C or D objects;
FPAS12,40893,R8336B,20150927,024333,1s,-,36.1,-95.9,201,SUBB,SEs,k,77s,5,k,G1CkNNN,N,-,-,-,-,-,-,-;
FPAS12,40556,R8336C,20150927,024333,1s,-,36.1,-95.9,201,FUBB,RNN,k,2s,5,7,G1CkNNT,N,-,-,-,110.0 0.5 012 10.00 A,-,-,-;

FPAS later. Very fun with lunar eclipse.
21808 91 076D 8336 G 20150928014410320 17 25 2248711+250496 48 S
21808 91 076D 8336 G 20150928014418960 17 25 2303778+280500 37 S
21808 91 076D 8336 G 20150928014423920 17 25 2312314+294094 28 S
21808 91 076D 8336 G 20150928014432290 17 25 2326845+320549 38 S
2:48 UT
0 2 HAY
1 2 Gus
1 2 Jaden
1 2 Brad
Brad only:
3:02 1 2 2.5 n m s
3:10 1 2 3 nw c se rim
total eclipse over 3:22



```
Short night. Akebono (19822) very low and tumbling wildly.
23851 96 024A   8336 F 20150929005342310 17 25 2327982+490219 68 S
23851 96 024A   8336 F 20150929005411290 17 25 2357345+571166 18 S
23851 96 024A   8336 F 20150929005419610 17 25 0007454+591410 48 S
FPAS12,28910,R8336A,20150928,021529,1s,-,36.1,-95.9,201,FUBP,-,k,2s,5,9,G1CkNNT,N,-,-,-,054.0 1.0
004 18.000 A,-,-,-;
FPAS12,40879,R8336B,20150928,031421,1s,-,36.1,-95.9,201,FUBP,-,k,1s,6,8,G1CkNNT,N,-,-,-,067.9 0.5
021 03.395 A,-,-,not symmetrical need to revist;
FPAS12,38099,R8336C,20150928,031648,1s,-,36.1,-95.9,201,SUBP,-,k,34s,8,k,G1CkNNN,N,-,-,-,-,-,-,-;
FPAS12,19822,R8336A,20150929,005710,1s,-,36.1,-95.9,201,FUBP,-,k,0.5s,4,6,G1CkNNT,N,-,-,-,002.0
0.5 004 00.667 A,-,-,irr;
```



Tue 9/29/2015 9:14 AM

Young, Brad

Danjon Scale Report for Recent Lunar Eclipse

To ☐'richar.keen@colorado.edu'

Cc ☐'youngha@tulsaschools.org'

For 9/28 total lunar eclipse (visual), at maximum, 4 visual observers:
HY: L=0 at north 25% of face, L=2 remainder
BY: L=1 at north 25% of face, L=2 remainder
GC: L=1 at north 25% of face, L=2 remainder
J: L=1 at north 25% of face, L=2 remainder

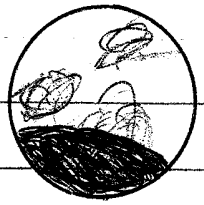
Thanks,

Brad Young

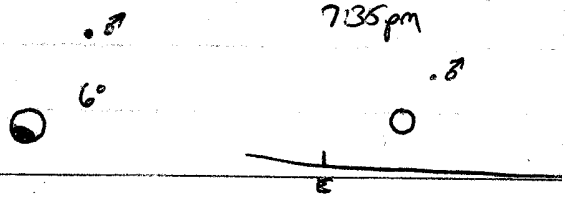
```
20344 5 40651 40136n 40556p Hst 21263 2
33277 0 ARIANE 5 DEB              ** 4.0 ElDy  2 Dr  837
  8  30   22 163  9.0   2830  20 51.5 -30.2   4239
38253 0 CZ-3B R/B                 ** 4.0 ElDy  1 Dr 2028 p3
  8   7   32   3  7.5   1362   4 53.8  84.8   2040
  8   8   33  12  7.5   1464   2 13.7  80.0   2134
  8   9   33  19  7.5   1566   1 32.0  74.1   2247
  8  10   33  26  7.5   1670   1 15.8  68.7   2375
38554 0 ARIANE 5 DEB              ** 4.0 ElDy  4 Dr   34
  9   0   24 143  8.9   3276  22 33.1 -21.0   4669

11890 Ekran 5                     ** 0.0 ElDy  1 Dr    0
 20  10    3  87 17.1  22237   1 15.0   4.0  25674  0.0
 20  15    3  87 16.9  22237   1 20.0   4.2  25665  1.1
 20  20    3  87 16.8  22236   1 25.1   4.4  25656  2.2

5588 0 OPS 9432 (DS               ** 0.0 ElDy  3 Dr   -1
 20  25    6  90 14.5  22244   1 14.0   3.5  25477 -0.4
 20  30    6  90 14.5  22244   1 19.0   3.7  25473  0.6
 20  35    6  90 14.5  22244   1 24.1   3.8  25469  1.6

40374 MUOS 3                      ** 0.0 ElDy  2 Dr    0
 20  30    2  93 17.1  22348   1 26.5  -1.6  25894  0.3
 20  35    2  93 17.1  22346   1 31.5  -1.6  25888  1.5

15560 0 ARABSAT 1A                ** 0.0 ElDy  3 Dr   -1
 20  40    3  96 17.1  22233   1 25.6  -3.1  25683  0.0
 20  45    3  96 17.1  22233   1 30.4  -2.7  25668  1.1
 20  50    3  95 16.8  22234   1 35.3  -2.4  25653  2.4
```

3/23/97

9:13pm

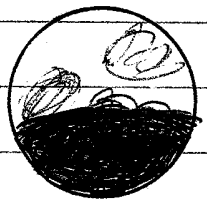


7:35pm

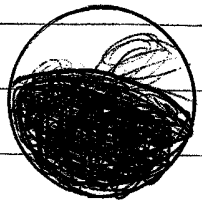


Hale-Bopp
came only
low) NE sky
NE 7:35pm

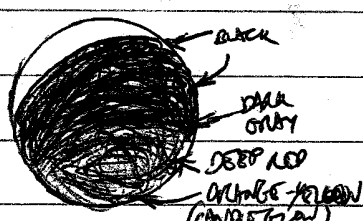
9:33pm



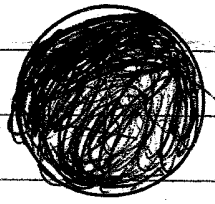
9:54pm

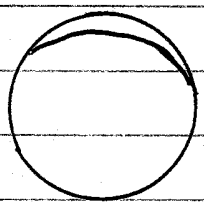


10:13pm



10:33pm
b's even
Cooler



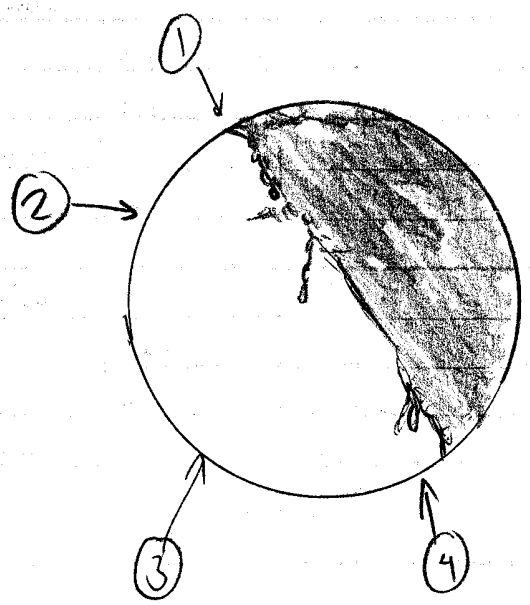


10:56pm
clouding up
guess at pos.
of shadow
back to ~10:17
on upside

LUNAR HIGHLANDS

9/2/17 10:05 UT

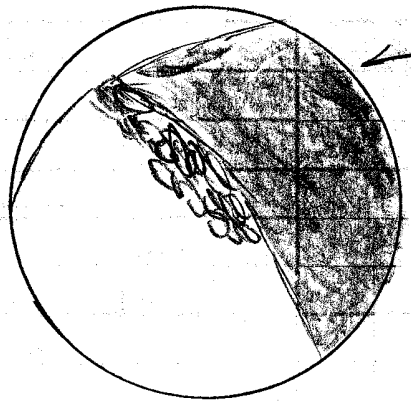
20x80's TULSA OK



FULL VIEW (MOON ~ 1/6 OF 3° FOV)

ROUNDED CUSPS AT EACH EDGE DUE TO FEATURES

DETAIL (1)

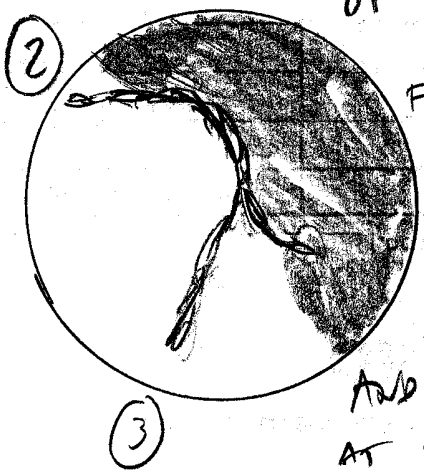


(1) ROUNDS TERMINATOR

LONG RUNS OF CRATERS & HILLS ALTERNATING WITH GREAT SHADOWS & RELIEF

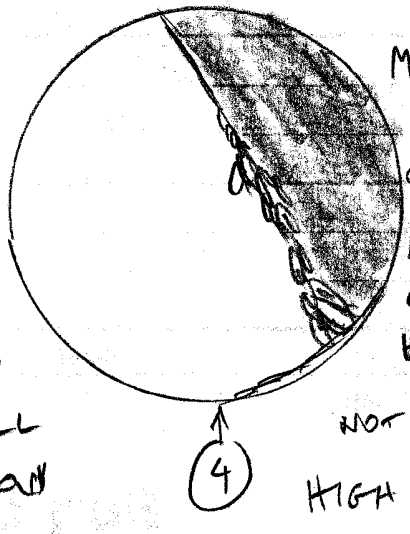
DETAILS (2) & (3)

EDGE OF MARE



FORMS A GIANT WISP SOME, PUSHED WELL INTO SHADOW AND IS WELL LIT AT THIS PHASE

DETAIL (4)



MORE RUGGED TERRAIN - MORE CRATERS HERE, NOT AS MANY HIGH PEAKS BUT STILL GREAT VIEW