TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1962

OBSERVER Charles H. Giffen

TELESCOPE A. 9.5 Clark Refractor
B. 15.6 Clark Refractor

LOCATION A. Students' Observatory, Princeton, N.J.
B. Washburn Observatory, Madison, Wisc.

No.	Date (U T)	U. T.	Object	Location	CM 1	CM 2	Remarks
1	14 June	1013	c. column	NEB$_n$ - NEB$_s$	(335°.9)	198°.4	B
2	14 "	1029	c. column	NEB$_n$ - NEB$_s$	(345.7)	208.1	B
3	14 "	1032	c. lt. sp	betw NEB$_n$, NEB$_s$	(347.5)	209.9	B
4	15 June	1026 ~~0926~~	P. RS	STrZ		356.6 ~~320.7~~	B
5	26 June	0602	p. wh. ov. (D)	STB - STeZ		50.3	A
6	26 "	0605	c. dk. sp.	NEB$_n$		52.1	A.
7	26 "	0609	c. dk sp/area	SEB$_s$		54.5	A.
8	26 "	0611	c. column	NEB$_s$ - EB	283.6		A.
9	26 "	0612	c. wh. ov.	STB - STeZ		56.3	A.
1	26 "	0620	c. wh. ov.	EZ$_n$	289.1		A.
11	26 "	0624	f. wh. ov (E)	STB - STeZ.		63.6	A.
12	26 "	0627	c. festoon	NEB$_s$ to EB	294.6		A.
13	26 "	0632	dk section	SEB$_s$		67.2	A.
14	26 "	0808	c. wh. ov (FA)	STB - STeZ		126.4	A.
15	26 "	0811	c. column	NEB$_s$ - EB	356.7		A.
16	26 "	0813	f. wh ov. (A)	STB - STeZ		132 ~~124.2~~	A.
17	26 "	0823	c. wh. sp.	STeZ		135.5	A.
18	26 "	0824	c. wh. ov	N of NEB$_n$		136.1	A.
19	26 "	0829	c. dk festoon	NEB$_s$ to NEB$_n$	(7.7)	139.1	A.
20	26 "	0834	c. column	NEB$_s$ - EB	10.8		A.
21	26 "	0838	f. bay? dk. festoon	NEB$_s$ to NEB$_n$	(13.2)	144.6	A.
22	26 "	0841	c. wide dusky column	STB - SSTB		146.4	A.
23	26 "	0843	c. lt. sp.	EZ$_n$	16.3		A.
24	26 "	0846	c. lt sp in column (22)	S of STB		149.4	A.

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9.5" Clark Refractor
LOCATION Students' Observatory, Princeton, N.J.

No.	Date (U T)	U. T.	Object	Location	CM 1	CM 2	Remarks
25	26 June	0847	c. lt. ov.	betw. NEBn, NEBs	(18.7)	150.0	
26	26 "	0850	p. festoon	NEBs to EZsB	20.5		
27	26 "	0853	p. dk. strip/festoon	NEBs into NEBn	(22.4)	153.6	
28	26 "	0855	c. festoon	NEBs to EZsB	23.6		
29	26 "	0856	c. wh. sp.	STeZ.		155.4	
30	26 "	0857	junction with NEBn, dk. strip (27)	NEBn	(24.8)	156.0	
31	26 "	0858	f. festoon	NEBs to EZsB	25.4		
32	26 "	0900	p. long festoon	SSTB to STB		157.7	
33	27 June	0814	c. wh. ov. (BC)	STB - STeZ		280.5	
3	27 "	0827	c. wh. ov.	N edge, NEBn		288.4	
35	27 "	0835	c. column	NEBs - EB	169.3		
36	27 "	0846	c. lt. ov	EZn	176.0		
37	27 "	0852	Xing of EB, festoon	EZsB to NEBs	179.6		
38	27 "	0900	c. festoon	EZsB to NEBs	184.5		
39	27 "	0917	f. festoon (f. base)	EZsB to NEBs	194.9		
40	11 July	0554	c. wh. ov.	EZn	122.7		
41	11 "	0735	c. dk. sp.	betw. NEBn, NEBs	(184.3:)	201.6:	
42	11 "	0740	p. base? dk. festoon.	EB to NEBs	187.4		
43	11 "	0742	c. wh. sp.	betw NEBn, NEBs	(188.6)	205.8	
44	11 "	0746	f. column.	betw EB, EZsB	191.0		
45	11 "	0750	c. thin columns	betw. NEBn, NEBs	(193.5)	210.7	
46	11 "	0756	c. lt ov./patch	betw. EB, EZsB	197.1		
4,	11 "	0759	c. wh. sp	betw. NEBn, NEBs	(199.0)	216.1	
48	11 "	0759	f. dk festoon (f. base?)	EB to NEBs	199.0		

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TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1962

OBSERVER Charles H. Giffen

TELESCOPE 9.5" Clark Refractor

LOCATION Students' Observatory, Princeton, N.J.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
49	11 July	0801	p. darkening	NTB + NTeZ		217.3°	
50	11 "	0809	p. column	EB – EZsB	205.0°		
51	11 "	0811	p. festoon	NEBs into NTrZ	(206.2)	223.3	
52	11 "	0814	c. lf. area	EZn	208.1		
53	11 "	0815	f. column	EB – EZsB	208.7		
54	11 "	0818	Xing of NEBn, festoon	NEBs into NTrZ	(210.5)	227.6	

Closer:

A sketch for 11 July will follow. I suspect both SEBn, SEBs have moved S. considerably since EZsB appeared; the SEBs was well seen distinct from the EZsB on July 11. Also recent observations indicate the possibility of a (perhaps sectional) belt N of the NEBn a small ways; certainly a lot of junk has appeared here, esp. in longitude 230 on (II). When it has been visible, the seeing has made hard times for getting CM's of the detail in the STeZ, SSTZ area, but it certainly is active!!

One other note. Saturn has been very active from the EB to the NTB so far, I've gotten 67 CM transits and some rotation periods of features (10h16.3m in the EZ, 10h38.5m on the NTrZ) and am calling for more observations from those who can grace the time; the CM transits may be sent directly to me (also any sketches to help identification).

Most Cordially,
Chuck

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
55	18 July	0419	p.e. column	NEBs - EB	90°.7		
56		0424	f.e. dk. sect.	betw. EZsB-SEBn	91.4		
57		0438	f.e. column	NEBs - EB	102.9		
58		0446	c. thin column	NEBs - EB	106.6		
59		0458	c. lt. oval	EZn	114.5		
60		0505	p.e. column	NEBs - EB	118.8		
61		0714	p.e. wh. oval	betw. NEBn-NEBs		161.4	
62		0722	c. wh. oval	STeZ		166.2	OK NO #46, 36.
63		0725	c. lt. oval	betw. EZsB-EB	204.1		
6		0729	f.e. wh. oval	STeZ		170.5	
65		0729	f.e. wh. oval	betw. NEBn-NEBs		170.5	
66	25 July	0530	c. lt. oval	EZn	160.0		
67		0548	c. column	EB - NEBs	171.0		
68		0555	c. lt. oval	STeZ		86.3	
69		0605	c. thin column	EB - NEBn	180.3		
70		0609	c. wh. oval	N edge NEBn		94.7	
71		0611	c. lt. column	STB - SSTB		95.9	
72		0612	c. lt. oval	EZn	185.6		
73		0620	c. proj	N from NEBn		101.4	
74		0626	c. wh. oval, FA.	STeZn - STB		105.0	FA.
75		0631	c. dk. streak	S of SEBs		108.0	
76		0635	c. bare, eq'l festoon	N edge EZsB	199.6 X		OK #42 (10° high)
77		0638	c. bay	N edge NEBs		112.8	
78		0652	c. column	STB - SSTB		120.7	#22

TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1962

OBSERVER Charles H. Giffen

TELESCOPE 9½" Clark refractor

LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
79	25 July	0654	c. base, eq'l. festoon	Sedge. NEBs	211.2		#48
80		0659	c. wh. oval	N of NEBn		124.9	
81		0708	c. lt. oval	STeZ		130.4	#29
82	27 July	0550	f.e. R.S.	STeZ		24.0	RS.
83		0612	c wh. oval, DE	STeZn - STB		37.3	DE
84		0620:	c. lt. sp.	EZn	146.6:		
85		0641	c. lt oval	EZn	159.4		#66
86		0705:	c. column	EZn	174.0:		#67
87		0734	c. lt oval	EZn	191.7		#72 (high)
8		0751	c. wh. oval	N edge NEBn		91.2	#70
89		0810:	c. wh. oval, FA	STeZn - STB		108.6:	FA
90		0820	c. dk. streak	S of SEBs		114.7	#75
91	28 July	0438	c. lt. oval	STeZ		130.7	#29, 81

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, N.J.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
92	31 July	0620	c. wh. oval	N edge NEBn		283.7	
93		0625	f. dk column	EB-NEBs	61.6		
94		0640:	c. elong lt. oval	N of NEBn		295.8:	
95	7 August	0325:	c. wh. oval	STeZn		150.7:	#62
96		0650	p. wh. oval	N edge NEBn		274.6	(#92)
97		0657	c. wh. oval	N edge NEBn		278.8	#92
98		0704	f. wh. oval	N edge NEBn		283.1	(#92)
99	8 August	0511	c. column	EB-NEBs	200.7		#86
100		0523	c. RS	STrZ		12.4	
101		0525	p. lt. oval	EZn	209.2		(#87)
102		0528:	p. wh. oval DE	STeZn		15.4:	early? OK
103		0530	p. dk. section	NTeZ		16.6	
104		0531	c. lt. oval	EZn	212.9		#87
105		0537	f. lt. oval	EZn	216.5		(#87)
106		0539	f. RS	STrZ		22.1	#82
107		0545:	c. wh. oval DE	STeZn		25.7:	#83
108		0555	c. column	EB-NEBs	227.5		(#76, 79) — part of F.Z. fan-boon from NEBs to EZ, B?
109		0605:	f. column	EB-NEBs	233.6:		
110		0654	c. wh. sp.	EZn	263.5		
111		0656	c. dk streak	STrZs		68.6	#90
112		0706	c. column	EB-NEBs	270.8		
113		0730:	c. wh. sp.	N of NEBn		89.2:	#70
[illegible]		0731	p. wh. oval FA	STeZn		89.8	
115		0737	c. lt. oval	EZn	289.7		

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, N.J.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
116	8 August	0740	c. wh. oval FA	STeZn		95.2	#99
117		0744	f. lt. oval	EZn	294.0		
118		0746	c. proj.	Nedge NEBn		98.8	#73
119		0749	f. wh. oval FA	STeZn		100.7	
120		0751	p. lt oval/patch	btw NEBs, NEBn		101.9	(#77)
121		0800:	c. lt. oval/patch	btw NEBs, NEBn		107.3:	#77
122		0806:	c. dk column	EB · NEBs	307.4:		
123		0806	c. lt column Dc	STB–SSTB		110.9	#78
124		0809	f. lt oval/patch	btw NEBs, NEBn		112.7	(#77)
125		0821	c. wh oval	N of NEBn		120.0	#80
126		0823	f. column	EB–NEBs	317.8		
127		0825	c. lt. oval	STeZ		122.4	#91
128		0827	f. wh. oval	N of NEBn		123.6	(#80)
129		0835	c. lt oval	EZn	325.1		
130	13 August	0230:	c. column	EB–NEBs	172.8:		
131		0235	f. column	EB–NEBs	175.8		
132		0245	c. lt. oval	EZn	181.9		
133		0249	f. lt oval	EZn	184.3		
134		0359	p. RSH	STrZ		353.7	
135		0407	c. lt sp	btw NEBn, NEBs		358.5	
136		0406	p. lt. area	EZn	232.5		#109?
137		0410	p. RS	STrZ		0.3	#4
[illegible]		0413	c. thin column	NEBs–NEBn		2.1	
139		0420	c. lt. sp.	btw NEBs, NEBn		6.3	

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, N.J.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
140	13 August	0425	c. RS	STrZ		9.4 ✓	#100
141		0428	f. lt. sp.	btw. NEBs, NEBn		11.2 ✓	
142		0432	c. column	NEBn - NTrB(?)		13.6 ✓	
143		0434	p. wh oval DE	STeZn		14.8 ✓	#102
144		0436	c. base NTeZ festoon	at NTBn		16.0	(#103)
145		0437	c. sm. lt. sp.	btw. NEBs, NEBn		16.6 ✓	
146		0440	f. RS	STrZ		18.4 ✓	#106
147		0444	c. wh. oval DE	STeZn		20.8 ✓	#107
148		0450	c festoon/column	NEBs - NEBn		24.5 ✓	
149		0454	f wh. oval DE	STeZn		26.4 ✓	
150		0455	c. base NTeZ festoon	at NNTBs		27.5 ✓	
151		0456	p. lt. oval	EZn	261.8 ✓		(#110) in lt. area #12
152		0502	c. lt. oval	EZn	265.4 ✓		#110.
153		0505	c. lt. oval	N edge NEBn		33.5 ✓	
154		0507	f lt. oval	EZn	268.5 ✓		(#110).
155		0510	c. base, EZn festoon	at EB	270.3 ✓		(#112)
156		0519:	c. condensation	S edge SEBs		42.0: ✓	?
157		0522	c. base EZn festoon	at NEBs	277.6 ✓		(#112)
158		0522:	c. lt. patch	SSTeZ		43.8: ✓	
159		0525:	c. lt. oval	STeZ		45.6: ✓	
160		0527	p. lt. oval	EZn	280.6 ✓		(#115)
161		0532:	c. proj.	N edge STBn		49.8: ✓	?
[illegible]		0538	c. lt. oval	EZn	287.4 ✓		#115
163		0549	f. lt. oval	EZn	294.1 ✓		#117

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, New Jersey

No.	Date (U T)	U.T.	Object	Location	CM 1	CM 2	Remarks
164	13 August	0552	c. sm. lt. sp.	btw. NEBs, NEBn		61.9 ✓	
165		0554:	c. lt. patch	NNTeZ		63.2: ✓	
166		0558:	c. lt. oval	STeZ		65.6: ✓	#68
167		0603	p. dk streak	STrZ		68.6	(#111)
168		0606	c. dk streak	STrZ		70.4 ✓	#111
169		0606	c. column	EB-NEBs	304.4 ✓		#122
170		0607	f. lt oval	STeZ		71.0	(#68)
171		0610	f. dk streak	STrZ		72.8	(#111)
172		0611	c. lt sp/patch	btw. EB, EZsB	306.9 ✓		
[illegible]		0623	f. column	EB-NEBs	314.2		#126
174		0628	c. lt sp/patch	STrZ		83.7 ✓	
175		0630:	c. proj.	N edge NEBn		84.9: ✓	
176		0633:	c. dusky column	NTB-NNTB		86.7: ✓	
177		0633:	p. lt. oval	N edge NEBn		86.7:	(113)
178		0638	p. wh oval FA	STeZn		89.8 ✓	#114
179		0640	c. lt. oval	EZn	325.2 ✓		#129
180		0641	c. lt oval	N edge NEBn		91.6 ✓	#113
181		0647	c. wh oval FA	STeZ A1		95.2 ✓	#116
182		0649	f. lt. oval	N edge NEBn		96.4	(#113)
183		0653	c. proj.	N. edge NEBn		98.8 ✓	#118
184		0654	p. lt. bay/patch	btw. NEBs, NEBn		99.4	#120
185		0657	f. lt oval/patch	EZn	335.5		
[illegible]		0657	f. wh. oval FA	STeZn		101.2 ✓	#119
187		0707	c. lt. bay/patch	btw. NEBs, NEBn		107.3 ✓	#121

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
188	13 August	0719	f. lt. bay/patch	btw. NEBs, NEBn		114.5	* 124
189		0719	p. lt. oval	STeZ		114.5	(#127)
190		0722	p. wh. oval	Nedge NEBn		116.3	(#125)
191		0725	c. lt. oval	STeZ		118.1	#127
192		0729	c. wh. oval	Nedge NEBn		120.6	#125
193		0731	f. lt. oval	STeZ		121.8	(#127)
194		0736	f. wh. oval	Nedge NEBn		124.8	#128
195		0745	c. lt. patch	btw. EB, EZ, B	4.8		
196		0747	p. lt. oval	btw. NEBs, NEBn		131.4	
[illegible]		0753	c. lt. oval	btw. NEBs, NEBn		135.1	
198		0757	f. lt. patch	btw. EB, EZ, B	12.1		
199		0800	f. lt. oval	btw. NEBs, NEBn		139.3	
200		0820	p. lt. area	EZn	26.2		
201		0821	c. lt. oval	STeZ		152.0	#95?
202		0827	f. lt. oval	STeZ		155.6	(#95)
203		0827	c. sm. lt. sp.	Sedge NEBs	30.4		
204		0835	f. column	STB-SSTB		160.5	
205		0844	c. sm. lt. sp.	STeZ		165.9	
206		0845	c. lt. oval	EZn	41.4		

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, New Jersey.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
207	15 August	0327:	p wh oval	N edge NEBn		275.1:	96 Bad seeing.
208		0332:	c. wh oval	N edge NEBn		278.1:	97 Kind of two?
209		0336:	c. column	EB-NEBs	169.1:		130
210		0340:	f. wh. oval	N edge NEBn		283.0:	98
211		0348	p. lt. oval	EZn	176.4		131
212		0357	c. lt oval	EZn	181.9		132
213		0407	f. lt oval	EZn	188.0		133
214		0413:	p. lt oval	STeZ		302.9:	
215		0420:	c. lt. oval	STeZ		307.1:	
2		0427:	f. lt. oval	STeZ		311.4:	
217		0432:	p lt. sp	EZn	203.2:		101
218		0437	c. lt. sp	EZn	206.3		104
219		0439:	c. lt. patch	SSTeZ		318.6:	
220		0441	p along lt patch	btw NEBs, NEBn		319.8	
221		0442	f. lt. sp	EZn	209.3		105
222		0454:	c. along lt patch	btw NEBs, NEBn		327.7:	
223		0457:	c. column	EB-NEBs	218.5:		108
224		0503	p. wh. sp.	N edge NEBn		333.1	
225		0507	f. along lt patch	btw NEBs, NEBn		335.5	
226		0509	c. dk sect.	NNTBn		336.8	[P. end?]
227		0510	c. wh sp	N edge NEBn		337.4	
228		0512:	p. lt oval	STeZ		338.6:	
2		0515	p. lt patch	EZn	232.5		136
230		0517	f. wh sp	N edge NEBn		341.6	

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H Giffen
TELESCOPE 9½" Clark refractor.
LOCATION Princeton, New Jersey.

No.	Date (U T)	U. T.	Object	Location	CM 1	CM 2	Remarks
231	15 August	0518:	c. lt. oval	STeZ		342.2:	
232		0523	c. prog.	N edge NEBn		345.2	
233		0525	f. lt. oval	STeZ		346.4	
234		0528:	c. lt. patch	EZn	237.4:		
235		0530	p. lt. sp	btw NEBs, NEBn		349.4	(135)
236		0534	p RSH	STrZ		351.9	134
237		0535	c. lt. sp	btw. NEBs, NEBn		352.5	135
238		0536	c. base RS festoon	S edge EZsB (?)	242.2		
239		0540	f. lt sp	btw NEBs, NEBn		355.5	(135)
240		0543	c. thin column	NEBs - NEBn		357.3	
241		0543:	f. lt. patch	EZn	246.5:		
242		0547:	p. RS	STrZ		359.7:	137
243		0547:	p. lt sp	btw NEBs, NEBn		359.7:	(139)
244		0547:	c. column	EB - NEBs	248.9:		
245		0551	p lt. patch	EZn	251.4		
246		0551:	c. lt. sp	btw NEBs, NEBn		2.1:	134
247		0556:	f. lt. sp	btw NEBs, NEBn		5.2:	141
248		0558	f lt patch	btw EB, EZsB	255.7		Note following
249		0604:	p lt oval	EZn	259.3:		151 in lt. patch
250		0605:	c. sm lt sp	btw NEBs, NEBn		10.6:	145
251		0605	c. RS	STrZ		10.6	140
252		0615:	p. wh oval DE	STeZn		16.6:	143
2..		0615	c. lt oval	EZn	266.0		152 in lt. patch
254		0620:	p. bay	N edge NEBn		19.7:	

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, New Jersey

No.	Date (U T)	U. T.	Object	Location	CM 1	CM 2	Remarks
255	15 August	0622:	c. base NTeZ festoon	at NTB		20.5:	144
256		0623:	f. lt oval	EZn	270.9:		154
257		0624	f. RS	STrZ		22.1	146
258		0625	c. wh oval DE	STeZn		22.7	147
259		0630	f. dusky patch (6 RS)	STrZ		25.7	
260		0633	c. dk column	EB-NEBs	277.0		(155-157)
261		0636	f. wh oval DE	STeZn		29.3	149
262		0636	c. base NTeZ festoon	at NNTBs		29.3	150
263		0643:	c. bay	N edge NEBn		33.6:	
264		0643	p. lt. patch	EZn	283.1		160
265		0655:	c. dusky condensation	S edge SEBs		40.8:	156?
266		0655:	p. lt. oval	STeZ		40.8:	(159)
267		0700:	c. lt. patch	EZn	293.5:		162
268		0700	f. bay	N edge NEBn		43.8	
269		0701:	c. dusky projection?	N edge STBn		44.4:	161?
270		0703	c. column	NEBn - NTrB(?)		45.7	perhaps just NEBn projection
271		0706:	c. lt oval	STeZ		47.5:	159
272		0708:	r. lt. patch	btw EB, EZsB	298.4:		172?
273		0710	c. base EZn festoon	at NEBs	299.6		(160)
274		0712:	f. lt patch	EZn	300.8:		163
275		0715	f. lt oval	STeZ		52.9	(159)
276		0716	e. sm lt. sp	N of NEBn		53.5	
277		0720:	c. projection?	N edge STBn		55.9:	161?
278		0723	p sm lt. sp	EZn	307.5		in lt. area

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, New Jersey.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
279	15 August	0727	c. sm lt sp	EZn	309.9		in lt. area
280		0727:	c. base EZn festoon	at EB	309.9:		(173)?
281		0731	f. sm lt. sp	EZn	312.4		
282		0737:	p. dk streak	STrZ		66.2:	167
283		0738:	c. lt. oval	STeZ		66.8:	166
284		0741:	c. dk streak	STrZ		68.6:	168
285		0746:	f. dk streak	STrZ		71.6	171
286		0746:	f. lt. oval	STeZ		71.6:	170
287		0755:	c. lt. sp	STrZ		77.1:	174
25		0809:	p. wh. sp	N edge NEBn		85.5:	177
289		0812:	p. wh oval FA	STeZn		87.3:	178
290		0814	c. wh sp.	N edge NEBn		88.6	180
291		0819:	f. wh sp	N edge NEBn		91.6:	182
292		0823	c. wh oval FA	STeZn		94.0	181
293		0825	c. proj.	N edge NEBn		95.2	183
294		0827:	p. lt bay/patch	btw NEBs, NEBn		96.4:	184
295		0833:	f. wh oval FA	STeZn		100.1	186
296		0843	c. broad ducky column	STB-SSTB		106.1	

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9½" Clark refractor
LOCATION Princeton, N. J.

No.	Date (U T)	U. T.	Object	Location	CM 1	CM 2	Remarks
297	18 August	0500:	p. dk streak	STrZ		62.5: ✓	282 another dk mark preceding this by ~20°
298		0505:	c. dk streak	STcZ		65.5 ✓	284
299		0511:	f. dk streak	STrZ		69.2: ✓	285
300		0535:	p. wh. oval FA	STeZn		83.7: ✓	289
301		0540:	p. wh sp	N edge NEBn		86.7: ✓	288
302		0540:	c. dusky proj	S edge NNTB		86.7: ✓	(Column or feature on NTB?)
303		0542:	c. wh oval FA	STeZn		87.9: X	292
304		0544	c. wh sp	N edge NEBn		89.1 ✓	290 2nd of a pair?
305		0548	f. wh sp	N edge NEBn		91.5 ✓	291
3		0551	f. wh oval	FA		93.3 X	295
307		0559	c. column	NEBn - NTrB(?)		98.8 ✓	183
308		0603	c. dusk sect	STeZ		101.2 ✓	296
309		0604	p. lt oval	btw NEBs, NEBn		101.8 ✓	184?
310		0606	p. bay	N edge NEBn		103.0 ✓	(301) f. col. NEBn-NEBs
311		0609	c. lt. oval	btw NEBs, NEBn		104.8 ✓	187 – embedded in larger lt. area?
312		0613	p. lt oval	STeZ		107.2 ✓	189
313		0614	f. lt oval	btw NEBs, NEBn		107.8 ✓	188
314		0620:	c. lt oval	STeZ		110.9: ✓	191
315		0625:	p wh sp	N edge NEBn		113.9: ✓	190
316		0627	f lt oval	STeZ		115.1 ✓	193
317		0630:	c. wh sp	N edge NEBn		116.9: ✓	192
318		0716	c lt oval	STeZ		144.7 ✓	201
3		0722	f lt. oval	STeZ		147.3 ✓	202

Finally forced to quit after "cloud hopping" no longer possible!

CHG

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H Giffen
TELESCOPE 9.5 Clark refractor
LOCATION Princeton, N.J.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
320	19 August	0207:	Wc lt. oval	STeZ		109.0:✓ 311	early?
321		0215:	Wf lt. oval	STeZ		113.3:✓ 316	
322		0220:	Wp wh. sp.	N edge NEBn		116.3:✓ 315	
323		0225:	Wc wh. sp.	N edge NEBn		119.3:✓ 317	
324		0230	Wf wh. sp.	N edge NEBn		122.4 ✓ (317)	
325		0248:	Wf lt. area	EZn	51.9:✓		late?
326		0256:	Wp lt oval	STeZ		138.1:✓ (314)	late!
327		0302	Wc lt. oval	STeZ		141.7✓ 319	
328		0309	Wf lt. oval	STeZ		145.9✓ 319	
32		0314:	Wp lt. sect	EZn	68.1:✓		
330		0316:	Wc lt. sect	btw EB, EZsB	69.3:✓		
331		0353:	Wc wh sp	N edge NEBn		172.5:✓	
332		0400:	Wf wh sp	N edge NEBn		176.8:✓	
333		0417:	Dc dusky column	STB-SSTB		187.0:✓	
334		0430	Wc lt oval	STeZ		194.9✓	
335		0437	Wc lt oval	EZn	118.4✓		in EZs?
336		0437:	Wf lt oval	STeZ		199.1:✓	
337		0445:	Wf lt oval	EZn	123.3:✓		in EZs?
338		0452	Dp dk streak/rod	N of NTB (NNTB)		208.2✓ 49?	
339		0507:	Dp dk sect	STBs		217.2:✓	
340		0517:	Dc dk str/rod	N of NTB (NNTB)		223.3:✓	
341		0535:	Wp lt oval	EZn	153.7:✓		late!
342		0540:	Wp wh oval BC	S edge STB		237.2:✓	
343		0543	Df dk str/rod	N of NTB (NNTB)		239.0✓	

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9.5 Clark refractor
LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
344	19 August	0551	Wf lt. oval	EZn	163.5		
345		0554	Wc wh. oval BC	S edge STB		245.7	
346		0555:	Wc lt. oval	btw EB, EZsB	165.9:		
347		0555:	Wc lt. sp	SSTeZ		246.3:	late?
348		0601	Dc column	EB-NEBs	169.6		209
349		0605	Wf lt. oval	btw EB-EZsB	172.0		
350		0606	Wf wh. oval BC	S edge STB		252.9	
351		0610:	Dc dusky column	SSTB-SSSTB		255.3:	
352		0611	Wp brt. oval	EZn	175.7		211
353		0611:	Dc dusky mark	N edge STB?		255.9:	?
354		0622	Wc lt oval	EZn	182.4		212
355		0629:	Wc lt. sp	SSTeZ		266.2:	
356		0635:	Wf brt. oval	EZn	190.3:		213
357		0637:	Wp wh. sp	N edge NEBn		271.6:	207
358		0639	Dc column	EB-NEBs	192.8		
359		0644	Wc wh sp	N edge NEBn		275.9	208
360		0644:	Wp. lt. oval	EZn	195.8:		217
361		0649:	Wf wh. sp	N edge NEBn		278.9:	210
362		0652:	Wc lt. oval	EZn	200.7:		218
363		0652:	Dc dusky column	SSTB-SSSTB		280.7:	late?
364		0700:	Wf lt oval	EZn	205.6:		221
365		0812:	Wc wh. sp	N edge NEBn		329.0:	227
366		0817:	Wf wh. sp	N edge NEBn		332.1:	230
367		0836:	Wp wh oval	EZn	264.1:		249

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9.5 Clark refractor
LOCATION Princeton N.J.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
368	19 August	0843:	Wc with oval	EZn	268.4:		253
369	20 August	0445:	Dc base of festoon AS	at SEBn		354.3:	238
370		0453	RSp	STrZ		359.2	242
371		0456:	Wp with sp	btw NEBs, NEBn		1.0:	245
372		0501:	Wc with sp	btw NEBs, NEBn		4.0:	246
373		0505:	Wf with sp	btw NEBs, NEBn		6.4:	247
374		0507	Wc lt. sect.	EZn	294.8		267
375		0508:	Wp with oval DE	S edge STB		8.3:	252
376		0512	RSc	STrZ		10.7	257
377		0512:	Wp lt sect	btw. EB, EZsB	297.8:		(272)
378		0522:	Wc with oval DE	S edge STB		16.7:	258
379		0531:	RSf	STrZ		22.1:	257
380	22 August	0410:	Wp with sp	N edge NEBn		274.0:	357 early?
381		0417	Wc with sp	N edge NEBn		278.2	359
382		0421	Wf with sp	N edge NEBn		280.6	361
383		0643	Wf lt sect	btw NEBs, NEBn		6.5	373
384		0645:	Wp with oval DE	S edge STB		7.7:	375
385		0652	RSc	STrZ		11.9	376
386		0653:	Wc lt sect	EZn	315.5:		
387		0659:	Wc with oval DE	S edge STB		16.1	378
388		0710:	Wf lt sect	EZn	325.9:		
389		0711	RSf	STrZ		23.4	379
390		0713	Wf with oval DE	S edge STB		24.6	261
391		0717	Df dusky sect.	STrZ		27.0	259

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H Giffen
TELESCOPE 9.5" Clark refractor
LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
392	23 August	0615:	Wf lt sect	btw NEBs, NEBn		139.9:	
393		0618	Wc wh oval	STeZn		141.8	327
394		0628:	Wf wh oval	STeZn		147.8:	328
395	25 August	0137:	Wp wh oval	N edge NEBn		272.7:	380
396		0143	Wc wh oval	N edge NEBn		276.4	381
397		0149	Wf wh oval	N edge NEBn		280.0	382
398		0206:	Dc dusky column	EB - NEBs	254.6:		
399		0212:	Wp lt sect.	EZn	258.3:		
400		0242:	Wp wh sp	SSTeZ		312.0:	(219)
401		0248:	Wc wh sp	SSTeZ		315.6:	219
402		0254:	Wf wh sp	SSTeZ		319.3:	(219)
403		0301:	Wp lt oval	btw NEBs, NEBn		323.5:	220
404		0303:	Dp dk sect.	STBs		324.7:	
405		0310:	Wc lt oval	btw NEBs, NEBn		328.9:	222
406		0311:	Dc dk sect	STBs		329.5:	
407		0319:	Wp lt. sp	N of NEBn		334.4:	(365).
408		0320:	Wf lt oval	btw NEBs, NEBn		335.0:	225
409		0320:	Df dk sect/Dc proj.	STBs.		335.0:	STeZ fading out back?
410		0323	Wc lt. sp	N of NEBn		336.8	365
411		0324	Wp lt oval	STeZ		337.4	228
412		0325	Dc dusky proj	N edge SSTB		338.0	STeZ fading out back?
413		0328	Wf lt sp	N of NEBn		339.8	366
414		0332:	Wf lt section	EZn	307.0:		
415		0333:	Wc lt oval	STeZ		342.8:	231

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H. Giffen
TELESCOPE 9.5 Clark refractor
LOCATION Princeton, New Jersey

No.	Date (U.T.)	U.T.	Object	Location	CM 1	CM 2	Remarks
416	25 August	0340:	Wp lt. oval	btw. NEBs, NEBn		347.1:	235
417		0341	Dc column	EB-NEBs	312.5		
418		0341:	Wf lt oval	STeZ		347.7	233
419		0345	Wc lt oval	btw. NEBs, NEBn		350.1	237
420		0347	Wp lt sect	EZn	316.2		(386)
421		0349	Wf lt. oval	btw. NEBs, NEBn		352.5	239
422		0349:	Dc base RS feat.	SEBn		352.5	369
423		0350	~~Wp~~ RSHp	SEBs		353.1	236
424		0353	Wc lt sp	N edge NEBn		354.9	
42		0357	RSp	STrZ		357.3	370
426		0359:	Wf lt. sp.	N edge NEBn		358.6:	
427		0401	Wp lt. oval	btw. NEBs, NEBn		359.8	371
428		0408	Wc lt. oval	btw. NEBs, NEBn		4.0	372
429		0412	Wp wh oval DE	S edge STB		6.4	384
430		0415	Dp dk red/pink	NTeZ		8.2	(258)
431		0416	Wf lt oval	btw. NEBs, NEBn		8.8	383
432		0417	RSc	STrZ		9.4	385
433		0419	Wp lt sect (Df)	NNTeZ		10.6	
434		0425	Wc wh oval DE	S edge STB		14.3	387
435		0428	Dc dk red/pink	NTeZ		16.1	255 well seen in seeing 8
436		0430:	Dc base RS feature	SEBn		17.3:	
437		0432	Wc v lt. sp	EZn	343.6		in lt sect EZn
438		0435:	Wc lt sect	NNTeZ		20.3:	
439		0435:	Wf lt sect	EZn	345.5:		

TRANSIT OBSERVATIONS

PLANET Jupiter
YEAR 1962

OBSERVER Charles H Giffen
TELESCOPE 9.5" Clark refractor
LOCATION Princeton, N.J.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
440	25 August	0437	RSf	STrZ		21.5✓	389
441		0439	Wf wh oval DE	Sedge STB		22.7✓	390
442		0439:	Wp lt oval	N of NEBn		22.7:✓	
443		0439	Wp lt sect	btw. NEB, NEBn		22.7:✓	
444		0440	Df dk red/strush	NTeZ		23.3✓	(251)
445		0447:	Df dusky sect	STrZ		27.5:✓	391
446		0449	We lt oval	N of NEBn		28.8✓	
447		0452:	Wf lt. sect (Dp)	NNTeZ		30.6✓	
448		0452	Dc column	EB-NEBs	355.8✓	~~35~~	There is a lt. sp. in column off NEBs.
449		0457:	Wf lt oval	N of NEBn		33.6:✓	
450		0507	Wp lt. sp.	in NEBn		39.6✓	
451		0509	We lt. sp	in NEBn		40.9✓	
452		0510:	Wp lt. oval	EZn	6.8:✓		
453		0511	Wf lt. sp	in NEBn		42.1✓	
454		0514	We v. sm. lt. sp	in NEBn		43.9✓	} getting clouded out.
455		0520:	We lt. oval	EZn	12.9:✓		

TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1962

OBSERVER Charles H. Giffen

TELESCOPE 9"5 Clark Refractor
Observatory of Instruction
Princeton University

LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
56	26 August	02:11	Wp wh ov	N edge NEBn	—	83.7	
57		02:11	Wc wh ov	S edge STB (FA)	—	83.7	Sm wh sp S of this in STeZ
58		02:15	Wc wh ov	N edge NEBn	—	86.1	
59		02:19	Wf wh ov	S edge STB	—	88.5	
60		02:20	Wf wh ov	N edge NEBn	—	89.1	
61		02:32:	Dc dusky section	STeZ	—	96.4:	
62		02:35:	Dc dusky condens.	N edge STB	—	98.2:	?
63		02:40:	Wp lt. ov	NEBZ	73.4:	101.2:	
64		02:43:	Wp lt ov	STeZ	—	103.0:	Late?
65		02:47	Wc lt ov	NEBZ	77.7	105.4	
66		02:49	Wc lt ov	STeZ	—	106.7	
67		02:55	Wf lt ov	NEBZ	82.5	110.3	
68		02:56:	Wf lt ov	STeZ	—	110.9	Early?
69		02:58:	Wp lt ov	EZn	84.3	—	
70		03:00	Wp wh ov	N of NEBn	—	113.3	
71		03:00:	Wf lt section	btw EB, EZsB	85.5	—	
72		03:04	Wc lt ov	EZn	87.9	—	
73		03:08	Wc wh ov	N of NEBn	—	118.2	
74		03:11:	Wf lt ov	EZn	89.2:	—	
75		03:16	Wf wh ov	N of NEBn	—	123.0	
76		03:23	Wp lt ov	NEBZ	96.6	127.2	
77		03:33:	Wc lt ov	NEBZ	102.7	133.3:	
47		03:37:	Wp lt ov	STeZs	—	135.7:	
479		03:41	Wf lt ov	NEBZ	107.5	138.1	

TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1962

OBSERVER Charles H. Giffen

TELESCOPE 9½" Clark Refractor
Observatory of Instruction
Princeton University

LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
480	26 August	03:43	Wc lt ov	STeZs	—	139.3	
481		03:48	Dp dk section	SSTB	—	142.3	
482		03:49	Wf lt ov	STeZs	—	142.9	
483		04:03:	Wp lt ov	N edge NEBn	—	145.4:	
484		04:06	Df dk section	SSTB	—	147.2	
485		04:08:	Wc lt ov	N edge NEBn	—	148.4:	
486		04:13:	Wf lt ov	N edge NEBn	—	151.4:	
487		04:23	Wp lt sp	EZn	136.2	—	
488		04:28	Wc lt sp	EZn	139.2	—	
489		04:33:	Wf lt sp	EZn	142.3:	—	
490		04:35:	Wp lt ov	STeZ	—	170.7:	
491		04:36:	Wc lt sp	NEBZ	144.1:	171.3:	
D492		04:36:	Wp wh ov	N edge NEBn	—	171.3:	
493		04:43:	Wc wh ov	N edge NEBn	—	175.5:	
494		04:44:	Wc lt ov	STeZ	—	176.1:	
495		04:47	Wf wh ov	N edge NEBn	—	177.9	
496		04:51:	Wf lt ov	STeZ	—	180.4:	
497		04:57	Wc sm lt sp	EZn	156.9	—	
498		05:00:	Wf sm lt sp	EZn	158.7:	—	
499		05:08:	Wp sm lt sp	EZn	163.6:	—	
500		05:11	Wc sm lt sp	EZn	165.4	—	
501		05:15	Wf sm lt sp	EZn	167.9	—	
50[illegible]		05:16	Wf lt sp	NEBZ	168.5	194.0	
503		05:20:	Df dk section	STBs	—	196.4:	Late?

TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1962

OBSERVER Charles H Giffen

TELESCOPE 9½" Clark Refractor
Observatory of Instruction
Princeton University

LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
504	26 August	05:22	Dc column	btw EB, NEBs	172.2	—	
505		05:22:	Wp lt ov	STeZ	—	197.6:	
506		05:25	Wp lt ov	NEBZ	174.0	199.4	
507		05:26:	Wf lt section	btw EB, EZsB	174.6:	—	
508		05:29	Wp lt section	EZn	176.4	—	
509		05:30:	Wc lt ov	STeZ	—	202.4:	
510		05:37:	Wf lt ov	STeZ	—	206.6:	
511		05:38	Bp dk rod/streak	NTeZ	—	207.2	
512		05:50:	Dp dk section	STBs	—	214.5:	
513		05:50	Wc lt section	EZn	189.2	—	
514		06:00:	Wp lt section	btwEB, EZsB	195.3:	—	
515		06:04	Dc dk rod/streak	NTeZ	—	223.0	
516		06:05	Dc dk section STB	STB	—	223.6	
517		06:05:	Wf lt section	EZn	198.4:	—	
518		06:13:	Dc base EZn festoon	at NEBs	203.2:	—	
519		06:17:	Wp lt sp	btw NEBn, NTrB?	—	230.8:	
520		06:19	Bc proj	S edge STB	—	232.0	
521		06:21	Wp wh ov	BC	—	233.2	
522		06:22:	Df dk section	STBs	—	233.8:	
523		06:22:	Dc dusky column	btw SSTB, SSSTB	—	233.8:	
524		06:23:	Wf lt sp	btw NEBn, NTrB?	—	234.4:	
525		06:28	Df dk rod/streak	NTeZ	—	237.4	
526		06:32:	Dc proj	N edge SSTB	—	239.9:	
527		06:35:	Wp wh ov	SSTeZ	—	241.7:	Early?

TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1962

OBSERVER Charles H. Giffen

TELESCOPE 9½" Clark Refractor
Observatory of Instruction
Princeton University

LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
528	26 August	06:36	Wc wh ov	BC	—	242.3 ✓	
529		06:48:	Wc wh ov	SSTeZ	—	249.5: ✓	
530		06:50:	Wf wh ov	BC	—	250.7: ✓	
531		06:57:	Wf wh ov	SSTeZ	—	255.0: ✓	
532		07:02:	Dc dk section	STBs	—	258.0: ✓	
533		07:05:	Dc dusky column	btw SSTB, SSSTB	—	259.8: ✓	
534		07:13:	Wp lt ov	SSTeZ	—	264.6: ✓	
535		07:13:	Df dk section	STBs	—	264.6: ✓	
536		07:23:	Wc lt ov	SSTeZ	—	270.7: ✓	
537		07:25	Wp wh ov	N edge NEBn	—	271.9 ✓	
538		07:31:	Wf lt ov	SSTeZ	—	275.5 ✓	
539		07:32	Wc wh ov	N edge NEBn	—	276.1 ✓	
540		07:40:	Wf wh ov	N edge NEBn	—	281.0 ✓	
541	27 August	02:10:	Wp wh oval	BC	—	233.5: ✓	S = 2
542		02:23	Wc wh oval	BC	—	241.4 ✓	
543		02:27:	Df dk streak	NTeZ	—	243.8: ✓	
544		02:35:	Wc lt oval	SSTeZ	—	248.6: ✓	
545		02:37:	Wf wh oval	BC	—	249.8: ✓	
546		02:50:	Dc dusky column	btw SSTB, SSSTB	—	257.7: ✓	Clouded out

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No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
547	8 September	03:07	Wp wh oval	N edge NEBn	—	272.7	
548		03:10	Wf lt sp & section	EZn	346.0	—	
549		08:14	Wc wh oval	N edge NEBn	—	276.9	
550		03:20	Dc column	EB - NEBs	352.1	—	
551		03:21	Wf wh oval	N edge NEBn	—	281.2	
552		03:26	Wp lt spot	NEBZ	355.8	284.2	
553		03:28	Wp lt oval	EZn	357.0	—	Late by 1 - 2 min.?
554		03:30	Wc lt spot	NEBZ	358.2	286.6	
555		03:35	Wf lt spot	NEBZ	1.2	289.6	
556		03:37	Wc lt oval	EZn	2.5	—	
557		03:46:	Wf lt oval	EZn	7.9:	—	
558		03:54	Wp lt spot	NEBZ	12.7	301.1	
559		03:56:	Dc proj.	S edge STB	—	302.3:	S = 3 to 4
560	0	04:01	Wc lt spot	NEBZ	17.0	305.3	
561		04:07	Wf lt sp & sect	NEBZ	20.7	309.0	
562		04:14	Dc column	NEBs - NEBn	24.9	313.2	
563		04:15:	Wc lt spot	SSTeZ	—	313.8:	Late?
564		04:22	Wp lt sect/elong oval	NEBZ	29.8	318.0	
565		04:35:	Wc lt elong oval	NEBZ	37.8:	325.9:	S = 2, sudden
566		04:39:	Wc lt elong oval	EZn	40.2:	—	
567		04:48	Wf lt elong oval	NEBZ	45.7	333.8	S going up
568		05:03	Dc Dk section	N edge NNTBs	—	342.8	S = about 8
569		05:18	Wc Brt spot (1st)	NEBZ	64.0	351.9	
570		05:22	Dc Base RS festoon	at SEBn	—	354.3	

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PLANET Jupiter

YEAR 1962

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No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
71	8 Sept	05:23	RSHp		—	354.9 ✓	
72	9 Sept	03:22	Wc wh spot	N edge SSTB	—	72.2 ✓	
73		03:23	Wc sm wh spot	NEBZ	151.9	72.8 ✓	
74		03:26	Wc wh oval	FA	—	74.6 ✓	
75		03:30	Wp wh oval	N edge NEBn	—	77.0 ✓	
76		03:35	Wf wh oval	FA	—	80.1 X	
77		03:35:	Wc wh oval	N edge NEBn	—	82.1 ✓	

TRANSIT OBSERVATIONS

PLANET Jupiter

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No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
578	4 January	22:45	Wpwh oval	STeZ, FB		345.8	
579		22:49	Wf IE oval	EZn	246.2		
580		22:53	Wf lt sect	SEBZ		350.6	
581		22:56	Wc wh oval	FA		352.4	
582		22:58	Dc column	EZn	251.7		
583		22:59	Dc column/festoon	SEBZ		354.2	
584		23:03	Wp lt sect	SEBZ		356.7	
585		23:08	Wf wh oval	FA		359.7	
586		23:11	Wc lt sect	SEBZ		1.5	
587		23:12	Wc lt spot	EZn	260.2		
588		23:15	RSHp (?)			3.9	
589		23:19	Wf lt sect	SEBZ		6.3	
590		23:26	RSp			10.5	
591	6 January	22:00:	Dc base SEBZ fest	at SEBs		258.7	Chimney smoke!
592		22:07	Wc lt spot	EZs	175.8		NTB seen well S of NNTB;
593		22:12	Wc lt patch	SEBZ		265.9	NNTB perhaps double in
594		22:14	Wf lt spot	EZn	180.1		places.
595		22:15	Wc lt patch	NNTeZ		267.8	
596		22:19	Wf lt patch	SEBZ		270.2	
597		22:21	Wp whoval	DE		271.4	
598		22:24	Dc proj/fest	S edge EZsB		273.2	
599		22:31	Wp lt streak	EZn	190.5		
600		22:35	Wc wh oval	DE		279.9	
601		22:37	Wc lt notch	S edge EZsB		281.1	

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PLANET Jupiter

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No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
602	6 January	22:43	Wf lt streak	EZn	197.8		
603		22:46	Wp wh spot	EZn	199.6		
604		22:48	Wf wh oval	DE		287.7	
605		22:51	Dc dueky col/fest	SEBZ	28	289.5	
606		22:54	Wc wh spot	EZn	204.5		
607		23:01	Wf wh spot	EZn	208.8		
608		23:01	Wp lt patch	SEBZ	~~295.6~~	295.4	
609	16 January	22:20	Wf lt spot	STeZ		331.0	
610		22:23	Wp lt patch	S edge SEBn	322.1		
611		22:24	Wp lt zone	EZn	322.7		
612		22:30	Wp wh oval	FA		339.0	
613		22:32	Dc base SEBZ fest	at SEBs		340.2	
614		22:35	Wc lt notch	S edge SEBn	329.4	342	
615		22:40	Wc lt zone	EZn	332.5		Seemalty be 3 cells or clouds, zone rather large at p. end.
616		22:42	Wc wh oval	FA		344.3	
617		22:50	Wf lt notch	S edge SEBn	338.6		
618		22:53	Wf wh oval	FA		350.9	
619		22:54	Dc delicate col/ fest	SEBn ~~eo~~EBward		351.5	
620		22:56	Wf lt zone	EZn	342.2		
621		22:56	Dc dk spot fol DE	S edge STB		352.7	

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PLANET Jupiter

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No.	Date (U T)	U.T.	Object	Location	CM 1	CM 2	Remarks
622	17 January	22:15:	Wc lt zone	EZn	114.1		
623		22:39	Dc dusky column	SEBZ	132.	132.5	
624		22:46	Wp wh oval	BC		136.7	
625		22:52	Wc sm lt spot	S edge SEBn	137.5	140.3	
626		22:57	Dp dk elong spot	S edge SEBn	140.5	143.3	very strange
627		22:59	Wc wh oval	BC		144.5	
628	21 January	21:50:	Wc wh oval	FA		342.8	
629		22:00:	Wf wh oval	FA		348.9	
630		22:09	Dc dusky column	STB – SSTB		354.3	
631		22:10:=	Dc dusky column	EZn	22.4		
632		22:17	Wp lt patch	STeZ		359.2	
633		22:19	Wp lt oval	EZn	27.9		
634		22:26	Wc lt patch	STeZ		4.6	
635		22:27	Wc lt oval	EZn	32.8		
636		22:34	Wf lt patch	STeZ		9.5	
637		22:35	Wf lt oval	EZn	37.6		
638		22:40:	RSp			13.1:	A little late?
639		22:45	Dc column	EZn	43.8		
640		22:54:	RSc			21.6:	RS haze has lessened; seen
641		22:56	Wp wh sea about 15 – 20° long.	EZn	50.5		covered by lt cloud or haze at N edge.

TRANSIT OBSERVATIONS

PLANET Jupiter

YEAR 1963

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Princeton University

LOCATION Princeton, New Jersey

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
642	22 January	21:50:	Wp wh oval	BC		132.9	
643		22:02:	Wc wh oval	BC		140.2	
644		22:13	Wp wh cloud	over SEBn,SEBZ	181.9	146.8	
645		22:14	Wf wh oval	BC	1	147.4	
646		22:19	Dc column/festoon	STrZ (SEBs – STB)		150.4	
647		22:21	Dc dk rod	on STBs		151.6	
648		22:25	Wc ~~xxxxxxxxxxxx~~ wh cloud	~~STeZs~~ over SEBn, SEBZ	189.2	154.0	
649		22:31	Wc lt spot	STeZs		157.7	
650		22:35	Wf wh cloud	over SEBn, SEBZ	195.4	160.1	
651		22:42	Dc dk sect & proj	S edge SEBn	199.6	164.3	
652		22:48	Wp wh cloud	S edge SEBn	203.3	168.0	
653		22:56:	Wc wh cloud	S edge SEBn	208.2	172.8	
654	25 January	22:05:	Wp wh oval	EZn	290.0		
655		22:09:	Dc Dk sect/proj	S edge SEBn	292.4	234.4	
656		22:14:	Wc wh oval	EZn	295.4		
657		22:21	Wf wh oval	EZn	299.7		
658		22:25	Wc wh spot	SEBZ		244.1	
659		22:30	Wf wh spot	SEBZ	~~247.1~~	247.1	
660		22:34	Dc dusky col/fest	SEBZ		249.6	
661		22:38	Wp lg wh area	SEBZ	~~25~~	252.0	
662		22:40	Dp dk section	NNTB(n)		253.2	

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PLANET Jupiter

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No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
663	27 January	22:10	Dc dk diffuse spot /proj	S edge SEBn	248.3	175.0 ✓	
664		22:12	Wc lt spot	EZn	249.5 ✓	—	
665		22:20	Wp wh cloud	over SEBZ, SEBn	—	181.1 ✓	
666		22:20:	Dp Dk section	STB	—	181.1: ✓	spot?
667		22:33	Wc wh cloud	over SEBZ, SEBn	—	188.9 ✓	long dk sect
668		22:44:	Wf wh cloud	over SEBZ, SEBn	—	195.6: ✓	of NEBn suspected.
669	28 January	22:09	Wp wh elong spot	EZn	45.3 ✓	—	
670		22:17	Wp wh oval	FA	—	329.8 ✓	
671		22:25	Wc wh elong spot	EZn	55.0 ✓	—	
672		22:29	Wc wh oval	FA	—	337.0 ✓	
673		22:35	Dc spot	SEBs	—	340.6 ✓	SEBZ festoon base?
674		22:40:	Wf wh elong spot	EZn	64.20 ✓	—	
675		22:42:	Wf wh oval	FA	—	344.9: ✓	
676		22:42:	Dc proj/fest base	SEBn, S edge	—	344.9: ✓	
677	31 January	22:15:	Wc lt spot	N edge NEBn	—	58.2 ✓	
678		22:20	Wf lt spot	N edge NEBn	—	61.2 ✓	
679		22:20:	Wp wh spot	S edge SEBn	165.0:	67.2: ✓	
680		22:21	Dc spot	on SEBn	165.6	—	
681		22:26:	Wc wh spot	S edge SEBn	168.7	64.7 ✓	