

TRANSIT OBSERVATIONS

 PLANET Jupiter

 OBSERVER Paul Karl Mackal

 YEAR app. 1962

 TELESCOPE R-V 6" Dynascope

 LOCATION Maquon, Wis.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	June 21	9:10	L. swarthy shadow of J-II ... center $T_c = 9:15.5$ $T_0 - T_c = -5.5$ $\sigma = -3.7$	S.Tr.Z.n.	145.1	-
			$X = 0.177$ $i = 11.2$				more concentrated than rest of belt
2	June 28	9:43	Oblong dk. cond.	S.T.B.	-	357.3°	
3	June 28	9:52	p. end dk. cond.	N.E.B.c.	216.2°	130 X	1/5 length of belt & inclined
4	June 29	6:30	p. end of dk. warm br. spot ... estimate	S.T.B.	-	20.0°	seeing to poor for central tr.
5	July 9	8:38	p. end v. dk. long cond. (elong) center	N.T.B.7*	-	148.6° X	* not sure.. may be N.N.T.B
6	July 9	8:41	v. conspic. * * * *	"	-	150.4° X	"
7	July 9	8:44	f. end v. conspic. C.R. = 14	"	-	152.2° X	"
	July 9	9:13	p. portion of dker part of S.T.B. C.R. = 12.7		-	169.7° X	about twice as thick of p. com of S.T.B.
9	July 9	9:14.5	p. end of lt. comp.	N.E.B.n.	151.0°	321 ✓	a' on Strip-s.
10	July 9	9:41	dk. nodule	S.T.B.	-	186.8° ✓	
11	July 9	9:52	p. end of dk. segment situated above a'	N.E.B.n.	153.8°	344 X	c' on Strip-s.
12	July 9	10:04	f. tip of disjointed seg.	N.E.B.n.	161.2°	351 X	d' on Strip-s.
13	July 9	10:13	dk. br. delicate wispl issuing from c'	N.E.B.n. to N.Tr.Z. (166.6°)		356 X	b' on Strip-s.
14	July 9	10:15	elong R.S., v. dk. & conspic. ... p. end	RS _p S.Tr.Z.	-	207.2° ✓	Unable to get central and fr C.M. transits as daylight approached.
15	July 10	8:38	f. tip of E.Z.	S.E.B.c.	256.7° X	-	
1	July 10	8:49	p. end of dent (elong)	N.E.B.n.	273.4°	96 - /	
17	July 10	8:55	v. ft. elong. cond. above S.T.B. in S.T.Z.	S.T.B. in S.T.Z.	-	309.2° ✓	See accompanying S.S.

TRANSIT OBSERVATIONS

 PLANET Jupiter

 OBSERVER P.K. Mackal

 YEAR 1962

 TELESCOPE 6-inch reflect.

 LOCATION Meguan, Wisc.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
18	July 10	9:01	sm. elong. with br. to ^{Wc (notch)} attached spot lying in ^{N. edge NEB} hollow ... central ^{intersection of}	N.Tr.Z. in N.E.B.n.	286.7°	103 - ✓	G.R. = 13.5 a ² on Strip-a.
19	July 10	9:20	dk. nodule (concave) center	S.T.B.	-	324.4° 114.7°	p. oblong dk. collar
20	July 10	9:22	oblong dk. collar girdling center ^{Wc (FA)}	S.T.B.	-	325.8° 115.7°	displaced S.T.B. somewhat, see Strip sketch
21				f. end		328.0° 114.3°	
22	July 10	9:44	p. sect. of dk. cond.	between 2 dents of N.E.B.n. lying in N.Tr.Z.s.	105 307.0°	129 X	G.R. = 13.5 c2d2 on Strip#
23	July 12	7:14.5	dk. cond. in S.T.B.	before R.S.	-	339.0 189.2°	(width of
24	July 12	7:51	p. end of R.S.	S.Tr.Z.	-	211.7° 10.6°	R.S. in long.
25	July 12	8:03	center of R.S.	S.Tr.Z.	-	218.7° 8.8°	= 14.5°)
26	July 12	8:03	f. end of dent	N.E.B.n.	359.0 201.4°	9 /	
27	July 12	8:15	f. end of R.S.	S.Tr.Z.	-	16.1° 225.8°	
28	July 12	8:15	p. end of dk. G. along area issuing from R.S.	S.T.B.	-	16.1 225.8°	wedge-shaped flush with R.S.
29	July 12	8:34	f. end of dk. area	S.T.B.	-	27.5° 237.2°	Length = 11.4°
30	July 12	8:56	center of shadow of J-1	S.E.B.s.	-	40.1 250.5°	C.R. = 15
+	i = 9.4	z = +0.151	$T_c = 9.04.3$ $T_0 - T_c = -8.3$ $\sigma = -7.0$				

Transit Observations

	31	July 27	p. end of dent in N.E.B.n.	7:56 U.T.	100° ✓ Long. Sys. I -	205.1°
	32	July 27	s. warm br. elong. spot lying in dent in N.E.B.n. (N.Tr.Z.) (p. end)	7:58 U.T.	101° ✓ Long. Sys. I -	206.3°
9:22	33	July 27	p. end of oblong collar girdling S.T.B.	8:00 U.T.	102° ✓ Long. Sys. II -	
July 10	34	July 27	f. end of oblong collar	8:09 U.T.	(FA) 108° ✓ Long. Sys. II -	
	35 (32)	July 27	s. warm br. elong. spot lying in dent in N.E.B.n. f. end	8:15 U.T.	112° ✓ Long. Sys. I -	216.7°
	36	July 27	f. end of dent in N.E.B.n.	8:37 U.T.	125° ✓ Long. Sys. I -	230.1°
	37	Aug. 2	p. end of R.S.	10:01 U.T.	✓ Long. Sys. II -	358°
	38	Aug. 2	c. of R.S.	10:22 U.T.	✓ Long. Sys. II -	10.7°
	39	Aug. 2	f. end of R.S. (est.)	10:43 U.T.	✓ Long. Sys. II -	23.4°


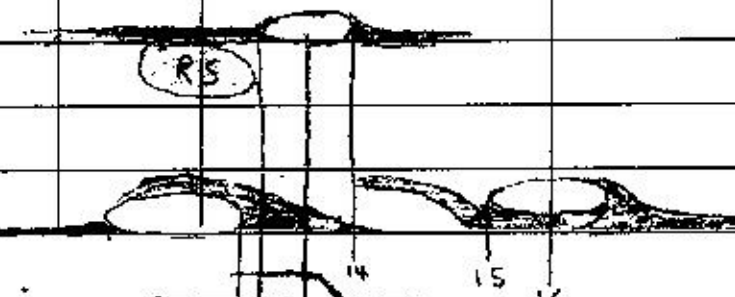
* HERE ARE MY TRANSITS FOR THIS YEAR. I HOPE THAT THESE MORNING OBSERVATIONS WILL BE USEFUL. CHECK OF MY RS TIMINGS LOOKS BAD, THOUGH. IS NO. 3 WAY OFF? GLAD TO SEE YOUR ERROR ANALYSIS IN LAST →
 SEATER SEEMED LOW, BUT I →
 PAGE MATH, SURA

TRANSIT OBSERVATIONS

NO. 3 WAY OFF? GLAD TO SEE STA. A. I'M GLAD MY ACCIDENTAL SUPPOSE ONLY 4 TRANSITS ONLY

PLANET JUPITER
 YEAR 1962

OBSERVER WILLIAM K. HARTMANN
 TELESCOPE 8 INCH REFL.
 LOCATION CATALINA MTS, NEAR TUCSON, ARIZONA

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	JULY 16	11:14	D c COND.	NEB ₂	23.4	6 ✓	
2	"	11:22	D c RS			10.6 ✓	
3	"	11:33	D f RS			17.2 ✓	
4	"	11:43	D p COND.	NEB ₂	45.2	23 ✓	
5	"	11:48	D c "	"	45.2	26 ✓	
6	"	11:58	P BAY	STB		32.3 ✓	
7	"	12:12	c Bay (DE)	STB		40.7 ✓	
			RS	STB			! PRETTY BAD?
				NEB			
8	JULY 31	9:03	Wf OVAL	NEB	157.9 ✓		
9	"	9:05	Df RS			23.4 ✓	
10	"	9:05	Wp OVAL	STZ		23.4 ✓	
11	"	9:12	DF SECT	NNTB		27.6 ✓	
12	"	9:22	Wc OVAL	STZ		33.7 ✓	
13	"	9:31	Df FESTOON	NNTB		39.1 ✓	
14	"	9:36	Wf OVAL	STZ		42.1 ✓	
15	"	9:43	Wp OVAL	EZ	182.1 ✓		
16	"	9:50	Wc OVAL	EZ	186.3 ✓		
				STZ STB			
			RS	NEB			

TRANSIT OBSERVATIONS

 PLANET JUPITER

 OBSERVER JOEL W. GOODMAN

 YEAR 1962

 TELESCOPE SEVERAL (SEE REMARKS)

 LOCATION CALIFORNIA (VARIED)

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	7/22/62	8:44	LIGHT OVAL P EDGE	N EDGE NEB	164.20	97.3	12" REFRACTOR
2	7/22/62	9:27	LIGHT OVAL F EDGE	N EDGE NEB	190.4	123.3	12" REFRACTOR
3	7/29/62	8:43	BRIGHT SPOT CENTER	CENTER OF NEB	189.7	69.3	6" REFLECTOR
4	7/29/62	8:49	BRIGHT SPOT F EDGE	CENTER OF NEB	193.4	72.9	6" REFLECTOR
5	9/17/62	5:28	LIGHT OVAL P EDGE	N EDGE NEB	52.2	271.2	"
6	9/17/62	5:35	LIGHT OVAL CENTER	N EDGE NEB	56.5	275.4	"
7	9/17/62	5:42	LIGHT OVAL F EDGE	N EDGE NEB	60.8	279.6	"
8	10/21/62	2:44	BRIGHT OVAL CENTER	CENTER OF NEB	281.5	242.2	"
9	10/21/62	2:55	BRIGHT OVAL F EDGE	CENTER OF NEB	288.2	248.8	"
	10/21/62	3:30	BRIGHT OVAL CENTER	N EDGE NEB	309.5	269.9	"
11	10/21/62	3:37	BRIGHT OVAL F EDGE	N EDGE NEB	313.8	274.1	"
12	10/21/62	4:20	DARK PROJECTION	S EDGE ^{SEBS} (STB)	340.0	300.1	10" REFLECTOR
13	10/21/62	6:00	GRS P EDGE		41.0	0.6	10" REFLECTOR
14	10/21/62	6:18	GRS CENTER		52.0	11.4	"
15	10/21/62	6:35	GRS F EDGE		62.4	21.6	"
16	10/22/62	3:18	LIGHT OVAL F EDGE	STB	100.1	52.8	(A) "
17	10/22/62	4:25	LIGHT OVAL P EDGE	N EDGE NEB	141.0	93.3	"
18	10/22/62	4:40	LIGHT OVAL F EDGE	N EDGE NEB	150.1	102.3	"
19	11/7/62	3:33	DARK SPOT	S EDGE SEBS	114.3	305.0	"
20	11/7/62	4:12	DARK SPOT	S EDGE SEBS	138.1	328.6	"
21	11/12/62	2:50	DARK SPOT	S EDGE SEBS	157.0	309.7	"
22	11/12/62	2:56	LIGHT OVAL P EDGE	STB	160.7	313.3	(D) "
	11/12/62	3:33	LIGHT OVAL F EDGE	STB	183.3	335.0	(E) "
24	11/12/62	3:36	DARK SPOT	S EDGE SEBS	185.1	336.8	"

TRANSIT OBSERVATIONS

 PLANET JUPITER

 OBSERVER Thomas Oszpowski (EXCEPT AS NOTED)

 YEAR 1962

 TELESCOPE 12 1/2" reflector

 LOCATION MAS Observatory

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	August 5	7:57	RS CENTER	STZ		14° ✓	OBSERVATION MADE BY <u>POPE</u>
2	"	8:15	RS FOLLOWING	"		25° ✓	OSZPOWSKI
3	"	8:23	Wc OVAL	STB (DE)		30° ✓	"
4	"	8:39	Wf OVAL	"		40° ✓	"
5	August 8	5:02	RS PRECEDING	STZ		0° ✓	"
6	"	5:23	RS CENTER	"		13° ✓	PPG 8.10 ALSO 13"
1	OCT. 15	2:22 1/2	Wc (oval) (FA)	STZ		48 ✓	DP BRADBURY
1	SEP 7	3:05	Wc (oval)	EZ	185 ✓		AJF, 3" RW, 192X
2	SEP 22	3:33	Wc (oval)	EZ	52 ✓		AJF, 3" RW, 171X
1	AUG. 10		RS _c			13 ✓	P.R.G.
2	SEP. 18		RS _c			12 ✓	P.R.G.
3	SEP. 30	0:12	Sh. I	$T_c = 0:15.6$ $To - T_c = -3^m.6$	$z = -60.1$ $\sigma = -3.0$		"
4	SEP. 30	0:12	Dc (base SEBZ feat.)	S. edge SEBN		235 ✓	"
	AUG 3	2:00	RS _c (orange!)			8 /	J. OLIVAREZ
1	OCT. 16	1:15	Df (sect)	NEBN		157 ✓	J. PAZMINO

TRANSIT OBSERVATIONS

 PLANET JUPITER

 OBSERVER P. K. MACKAL

 YEAR 1962

 TELESCOPE 6" REFL.

LOCATION _____

No.	Date (UT)	U. T.	Object	Location	CM 1	CM 2	Remarks
40	AUG. 7	5:55	D _f (sect.)	NNTB		241 ✓	
41		6:05	W _p (oval)	STeZ		247 ✓	
42		6:19	W _c (oval) (BC)	STeZ		256 ✓	
43		6:30	W _f (oval)	STeZ		263 ✓	
44	AUG. 10	4:08	W _p (notch)	NEB _N		268	
45		4:28	W _c (notch)	NEB _N		280 ✓	
46		4:42	W _f (notch)	NEB _N		288	
47	AUG. 17	7:29	RS _p			2 ✓	
48		7:38	W _f (oval)	S. edge NEB	273 ✓		
49		7:50	RS _c			14 ✓	
50		8:11	RS _f			27 ✓	
51	AUG. 22	3:08	W _p (oval)	STeZ		236 ✓	
52		3:22	W _c (oval) (BC)	STeZ		245 ✓	
53		3:36	W _f (oval)	STeZ		253 ✓	
54		3:08	D _f (sect.)	NNTB		237 ✓	
55		3:05	W _p (oval)	NEB _S	197 ✓		
56		3:39	W _f (oval)	NEB _S	197 ✓		
57		4:07	D _f (sect.)	NEB _N		273 ✓	
58	OCT 14	2:24	D _c (cond.) (small)	SEB _S		258 ✓	
59		2:51	D _p (L. rectang. cond.)	SEB _S , S. edge		275 ✓	
60		2:56	W _f (notch)	N. edge NEB		278 ✓	
61		3:09	D _f (L. cond.)	S. edge SEB _S		286 ✓	

TRANSIT OBSERVATIONS

 PLANET JUPITER

 OBSERVER P. S. McINTOSH

 YEAR 1962

 TELESCOPE 4" UNITRON, 167X

 LOCATION SUNSPOT, N. MEX.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	OCT. 24						?
2	"						?
3	"						?
4	"		Dc (cond. + base feat.)	S. edge SEBs		315 ✓	
5	"						?
6	"						?
7	"		Wc (oval)	EZ _N	48 ✓		
8	"		RSp			4 ✓	
9	"		RSc			15 ✓	
29	NOV. 3		Wc (module)	N. edge NEB		11 ✓	
30			RSc			16 ✓	
32			Wc (oval) (FA)	STeZ		36 ✓	
34	NOV. 4	2:26	Wc (oval)	SEBZ		174 ✓	
35	NOV. 4	2:33	Dc (base feat.)	S. edge SEB _N		178 ✓	
45		4:08	Dc (cond.) (also SEBZ feat.)	SEBs		236 ✓	
57	NOV. 7	3:35	Dp (col.)	STRZ		306 ✓	
58		3:40	Dc (cond)	S. edge SEBs		309 ✓	
59		3:52	Wp (bay) (D)	S. edge STB		316 ✓	
60		4:03	Wc (bay)	S. edge STB		323 ✓	
61		4:08	Dc (cond.)	S. edge SEBs		326 ✓	
62		4:12	Wf (bay) (E)	S. edge STB		328 X	
64	NOV 9	3:30	Df (dusky sect)	SEBZ		244 ✓	Dc (cond) SEBs
65		3:43	Wc (oval)	SEBZ		251 ✓	

TRANSIT OBSERVATIONS

 PLANET JUPITER

 OBSERVER P. S. McINTOSH

 YEAR 1962

 TELESCOPE 4" UNITRON

 LOCATION SUNSPOT, N. MEX.

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	OCT. 23		Df (base feat.)	S. edge NEB	218 ✓		
2	"		Dc (small col.)	mid NEB		168 ✓	
3	"		Wc (oval)	EZ _N	228 ✓		
4	"		Wc (oval)	EZ _S	233 ✓		
5	"		Wc (oval)	EZ _N	239 ✓		
6	"		Dc (hump)	S. edge SEB _N		188 x	
7	"		Wc (oval)	SEB _Z		194 ✓	
8	"		Wp (bay) (B)	S. edge STB		196 ✓	
9	"		Dc (base feat.)	S. edge SEB _N		201 ✓	
10	"		Wf (bay) (C)	S. edge STB		208 ✓	
11	"		Dc (base feat.)	S. edge SEB _N		213 ✓	
12	"						?
13	"		Dc (column)	STRZ		221 ✓	
14	"		Dc (base feat.)	S. edge SEB _N		227 x	
15	"						?
16	"		{ Df (thin feat.) Dc (cond. + base feat.)	{ SEB _Z SEB _S		{ 241 ✓ 241 ✓	
17	"		Dc (cond. + base feat.)	S. edge SEB _S		258 ✓	
18	"		Wc (rodula)	N. edge NEB		267 ✓	
19	"		Dc (cond. + base feat.)	S. edge SEB _S		279 ✓	
20	"		Wc (dull oval)	STRZ		289 ✓	

TRANSIT OBSERVATIONS

PLANET JUPITER

OBSERVER MISC.

YEAR 1962

TELESCOPE _____

LOCATION _____

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	OCT. 1	5:49	D _c (faston)	SEBZ		229 ✓	DAN LAUDERBACK 8" REFL.
2	OCT. 7	4:49	RSc			14 ✓	" SOUTH BEND WASH.
1	AUG. 18	3:09	RS (P. end.?)			355 X	JOHN MILNE SCHENECTADY
2	AUG. 23	3:01	RS (S. end.?)			23 X	2.4" REFR.
1	DEC. 1	0:09	W _c (oval) (BC)	STZ		185 ✓	R. WEND 12 1/2" RL. M.A.S. OBS
4	"	1:01	W _c (oval)	EZ _N	208 ✓		"

TRANSIT OBSERVATIONS

 PLANET JUPITER

 OBSERVER MISCELLANEOUS

 YEAR 1962

TELESCOPE _____

LOCATION _____

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	JUNE 3	9:55	Df (col.)	EZ _N	28 X		S=3-5 RICKER, 6" RL, 225X
2		10:15	Wp (notch)	N. edge NEB		346 ✓	"
3		10:18	RS _p			348 X ^{low}	"
1	JUL. 31	4:55	RS _f			23 ✓	J.R. SMITH
2	AUG 30	9:06	RS _p			358.4 ✓	"
3		3:27	RS _c			11.1 ✓	"
4		3:46	RS _f			22.6 ✓	"
5	SEP. 4	---	RS _p			359.6 ✓	"
6		---	RS _c			11.7 ✓	"
7		---	RS _f			23.8 ✓	"
8	SEP. 16	---	RS _p			357 ✓	"
9		---	RS _c			9 ✓	"
10		---	RS _f			21 ✓	"
1	AUG. 2	5:15	Wp (oval)	EZ _N	335 ✓	335	R.E. ZIT
1	JUL. 23	11:54	RS _p			2 ✓	P.S. McINTOSH
2	OCT. 21		Dc (cond.)	SEB _s		301° ✓	"
3	SEP. 1	5:05	RS _c			11 ✓	J.C.B.
3	OCT. 21		Dc (cond.)	SEB _s		323° ✓	P.S. McINTOSH
4	NOV. 8	1:18	RS _c			14 ✓	J.C.B.
1	SEP. 13	2:17	Wc (notch)	N. edge NEB		274.4 ✓	^{12 1/2" RL.} D. MATTHIES