

Transit Observations

Report No. 1
Drawing No. 1

Planet JUPITER Observer Carlos E. Rost
Year 1962 Telescope 6-inch Reflector
Location Santurce, Puerto Rico

No.	Date(UT)	UT	Key	Object	Location	CM 1	CM 2	Remarks
1	March 23	9 ^h 43 ^m	Dc	Loop Fest.#2	EZ	181.07 ✓	-----	
2	March 23	9 ^h 57 ^m	Df	Loop Fest.#2	EZ	187.2 ✓	-----	
3	March 23	10 ^h 02 ^m	Dp	Loop Fest.#3	EZ	190.02 ✓	-----	
4	March 23	10 ^h 12 ^m	Dc	Loop Fest.#3	EZ	196.03 ✓	-----	

TRANSIT OBSERVATIONS

Report # 5
Slwg. # 5*

PLANET Jupiter
YEAR 1962

OBSERVER Carlos E. Rost
TELESCOPE 6-in. Refl.
LOCATION Santurce, Puerto Rico

No.	Date (UT)	Hr.	U.T. Min.	Key	Object	Location	CM 1	CM 2	Remarks
1	May 4	7	30	Dc	L.F. #2	E2	244° 1	✓	—
2	—	4	7 44	Df	L.F. #2	E2	252° 6	—	—
3	—	4	7 44	Dp	Slusky Col.	E2	252° 6	—	—
4	—	4	7 44	Dp	L.F.	N. edge NEBs	—	68° 7	✓
5	—	4	7 50	Dc	Slusky Col.	E2	256° 3	✓	—
6	—	4	7 55	Df	Slusky Col.	E2	259° 3	—	—
7	—	4	7 55	Dp	L.F. #3	E2	259° 3	—	—
8	—	4	8 15	Dc	L.F. #3	E2	271° 5	—	—
9	—	4	8 18	Dc	L.F.	N. edge NEBs	—	89° 3	✓
10	—	4	8 28	Dc	I. Shadow	E2	279° 5	—	—
³⁵ 11	—	4	8 31	Df	L.F. #3	E2	281° 3	✓	—

I = 10.6 σ = -7.0
C = 8.36.1
O-C = -8.1"

Note: Work was discontinued at 8^h 47^m U.T. because of foggy image, rendering visibility very dubious.

Report # 6
 Dwg. # 6

TRANSIT OBSERVATIONS

PLANET Jupiter
 YEAR 1962

OBSERVER Carlos E. Rost
 TELESCOPE 6-in. Refl.
 LOCATION Sancti Spiritus, Puerto Rico

No.	Date (UT)	Hr. U.T.	Min.	Key	Object	Location	CM 1	CM 2	Remarks
1	May 6	7	28	Dc	Slusky Col	E2	198°5	—	
2	—	6	7 28	Dp	RS	STr 2	—	359°3	✓
3	—	6	7 35	Df	Slusky Col	E2	202°7	—	
4	—	6	7 35	Dp	L.F. #3	E2	202°7	—	
5	—	6	7 45	Dc	RS	STr 2	—	9°6	✓
6	—	6	7 45	Wc	White Oval	STr 2	—	9°6	✓ Inside RS
7	—	6	7 50	Wc	Bay	N. edge NEBS	—	12°6	✓
8	—	6	7 50	Dc	L.F. #3	E2	211°9	—	✓
9	—	6	8 01	Df	RS	STr 2	—	19°3	✓
10	—	6	8 07	Wf	Bay	N. edge NEBS	—	22°9	✓
11	—	6	8 07	Wp	Nodule	Idem.	—	22°9	✓
12	—	6	8 12	Wc	Nodule	Idem.	—	26°0	✓
13	—	6	8 15	Df	L.F. #3	E2	227°1	—	✓
14	—	6	8 19	Dp	L.F. #4	E2	229°6	—	
15	—	6	8 19	Wf	Nodule	N. edge NEBS	—	30°2	✓
16	—	6	8 35	Dc	L.F. #4	E2	239°3	—	✓
17	—	6	8 48	Df	L.F. #4	E2	247°3	—	✓
18	—	6	8 48	Dp	Slusky Col.	E2	247°3	—	Not on dwg.

*Length of R.S. found to be as of 20°
 (see corresponding CM longitudes above)

TRANSIT OBSERVATIONS

Report No. 8
Drawing No. 8

PLANET JUPITER
YEAR 1962

OBSERVER Carlos E. Rost
TELESCOPE 6-inch Reflector
LOCATION Santurce, Puerto Rico

No.	Date (UT)	U.T.	Key Object	Location	CM 1	CM 2	Remarks
1	July 11	4 03	Df Loop Fest.#1	EZ	55°0' ✓	----	
2	July 11	4 03	Dp Column	EZ	55°0' ✓	----	
3	July 11	4 14	Df Column	EZ	61°7' ✓	----	
4	July 11	4 14	Dp Loop Fest.#2	EZ	61°7' ✓	----	
5	July 11	4 14	Dp LOOP FEST -?-	STrZ	----	80°2' ✓	Of dubious aspect
6	July 11	4 25	Do LOOP FEST -?-	STrZ	----	86°8' ✓	Idem
7	July 11	4 31	Do Loop Fest.#2	EZ	72°1' ✓	----	
8	July 11	4 31	Df LOOP FEST -?-	STrZ	----	90°4' ✓	Dubious
9	July 11	4 52	Df Loop Fest.#2	EZ	84°9' ✓	----	
10	July 11	5 07	Wp White Oval	STeZ	----	112°1' ✓	
11	July 11	5 14	We White Oval	STeZ	----	116°4' ✓	FA
12	July 11	5 24	Wf White Oval	STeZ	----	122°4' ✓	
<p>Note: Apparently, a festoon seemed to join both bases of object on the STrZ, giving the impression of a loop, but which was difficult to verify, even after repeated observations.</p> <p>This refers to Transits No.'s 5, 6 and 8 as listed above. The Seeing and Transparency were continuously variable.</p> <p>Note: White Oval on STeZ was quite bright.</p>							

TRANSIT OBSERVATIONS

Report No. 11 *
 Drwg. No. 11

PLANET

Jupiter

OBSERVER

Carlos C. Post

YEAR

1962

TELESCOPE

6-in. Refl.

LOCATION

Santurce, Puerto Rico

No.	Date (UT)	U.T.	Object	Location	CM 1	CM 2	Remarks
1	<i>Aug. 5</i>	<i>3:10</i>	<i>Wc Bright oval #1</i>	<i>N. edge NEBS</i>	—	<i>200° 8'</i>	<i>On CM₂ as per drwg.</i>
2	—	<i>3:27</i>	<i>Wf Idem #1</i>	<i>Idem</i>	—	<i>211° 1'</i>	
3	—	<i>3:31</i>	<i>Wp Bright oval #2</i>	<i>Idem</i>	—	<i>213° 5'</i>	
4	—	<i>3:42</i>	<i>Wc Idem #2</i>	<i>Idem</i>	—	<i>220° 2'</i>	
5	—	<i>3:42</i>	<i>Dc Loop feat. #1</i>	<i>E2</i>	<i>32° 4'</i>	—	
6	—	<i>3:48</i>	<i>Wf Bright oval #2</i>	<i>N. edge NEBS</i>	—	<i>223° 8'</i>	
7	—	<i>3:48</i>	<i>Wp Bright oval #3</i>	<i>N. edge NEBS</i>	—	<i>223° 8'</i>	
8	—	<i>3:58</i>	<i>Dp Dark Section</i>	<i>STeB</i>	—	<i>229° 9'</i>	
9	—	<i>3:58</i>	<i>Wf Br. Oval #3</i>	<i>N. edge NEBS</i>	—	<i>229° 9'</i>	
10	—	<i>4:05</i>	<i>Df L.F. #1</i>	<i>E2</i>	<i>46° 4'</i>	—	
11	—	<i>4:05</i>	<i>Dc Dark Section</i>	<i>STeB</i>	—	<i>234° 1'</i>	
12	—	<i>4:11</i>	<i>Dc Column</i>	<i>E2</i>	<i>50° 1'</i>	—	
13	—	<i>4:18</i>	<i>Dp L.F. #2</i>	<i>E2</i>	<i>54° 4'</i>	—	
14	—	<i>4:18</i>	<i>Df Dark Section</i>	<i>STeB</i>	—	<i>242° 0'</i>	
15	—	<i>4:18</i>	<i>Wp White Oval</i>	<i>STeZ</i>	—	<i>242° 0'</i>	
16	—	<i>4:34</i>	<i>Dc L.F. #2</i>	<i>E2</i>	<i>64° 1'</i>	—	
17	—	<i>4:36</i>	<i>Wc White Oval</i>	<i>STeZ</i>	—	<i>252° 9'</i>	<i>BC</i>
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TRANSIT OBSERVATIONS

Report No. 13

Invoy. No. 13

PLANET Jupiter
YEAR 1962

OBSERVER Carlos E. Rost
TELESCOPE 6-in. Refl.

(Total obs. time = 1 hr. 24 min.) LOCATION Santurce, Puerto Rico

No.	Date (UT)	U.T.	Key	Object	Location	CM 1	CM 2	Remarks
1	Aug 11	1:56	Df	L.F. #2	E2	195°9	—	
2	— 11	1:56	Dp	Bridge #2	E2	195°9	✓ —	Ret. L.F. #2 and L.F. #3
3	— 11	2:12	Df	Bridge #2	E2	205°7	—	
4	— 11	2:12	Dp	L.F. #3	E2	205°7	—	
5	— 11	2:21	Dc	L.F. #3	E2	211°2	✓ —	
6	— 11	2:21	Dc	Slusky Col.	N. edge NEBS	—	353°6	✓
7	— 11	2:27	Df	L.F. #3	E2	214°9	✓ —	
8	— 11	2:27	Dp	Bridge #3	E2	214°9	✓ —	
9	— 11	2:27	Dp	RS	STr 2	—	357°2	✓
10	— 11	2:33	Wp	Bright oval	N. edge NEBS	—	0°8	✓
11	— 11	2:38	Wc	Bright oval	N. edge NEBS	—	3°9	✓
12	— 11	2:38	Dc	Bridge #3	E2	221°6	✓ —	
13	— 11	2:38	Wp	White oval	STr 2	—	3°9	inside RS
14	— 11	2:45	Df	Bridge #3	E2	225°8	✓ —	
15	— 11	2:45	Dp	L.F. #4	E2	225°8	✓ —	
16	— 11	2:47	Dc	RS	STr 2	—	9°3	✓
17	— 11	2:47	Wc	White oval	STr 2	—	9°3	inside RS
18	— 11	2:47	Wp	White oval	STe 2	—	9°3	✓
19	— 11	2:53	Wf	White oval	STr 2	—	12°9	inside RS
20	— 11	2:57	Dp	Rod	S. edge NNTB	—	15°3	✓
21	— 11	3:00	Wf	Br. oval	N. edge NEBS	—	17°2	see note #4
22	— 11	3:02	Dc	Rod	S. edge NNTB	—	18°4	✓
23	— 11	3:03	Df	RS	STr 2	—	19°0	✓
24	— 11	3:03	Wc	White oval	STe 2	—	—	—
24	— 11	3:03	Dp	Dark spot	STr 2	—	19°0	F. end of R.S.

No.	Date.	U.T.	Key	Object	Location	CM ₁	CM ₂
25	Aug. 11	3:07	Df	Rod	S. edge NNTB	—	21° 41
26	— 11	3:07	Wc	White Oval (DE)	STE 2	—	21° 44
27	— 11	3:20	Wf	White Oval	STE 2	—	29° 34

109

~~357-2~~
~~278~~
~~360-0~~

~~2° 8~~
~~9° 3~~
~~12° 1~~

9.7

RS_P — 357° 2
 RS_C — 9° 3 } 12° 1
 RS_F — 19° 0 } 9° 7
 ————— } 21° 8

~~15° to 20°~~ 04
~~200 to 320~~ 20
~~124~~

Notes:

- 1- Length of RS found to be, as from above observations, as of 21° 8
- 2- Length of White oval (STE 2) found to be as of 20° 0
- 3- Length of Rod (S. edge NNTB) is 6° 1.

~~map 9.3~~
~~map 21.4~~ } 12.1
~~map 29.3~~ } 2.9
 ————— } 20.0

~~map 5.3~~
~~map 1.8~~
~~map 2.4~~

~~3.1~~
~~3.0~~
 —————
 6.1

Special RS Report (including its White Oval, on center)

TRANSIT OBSERVATIONS

PLANET Jupiter
 YEAR 1962

OBSERVER C. E. Rost
 TELESCOPE 6-in. Refl.
 LOCATION Santerce, Puerto Rico

No.	Date (UT)	U.T.	Key Object	Location	CM 1	CM 2	Remarks
1	Oct. 5/62	2:52	Dp - RS	STr 2	—	2° 8'	Reddish gray color
2	— 5 —	3:01	Wp White Oval	STr 2	—	8° 3'	Inside RS
3	— 5 —	3:10	Wc White Oval	STr 2	—	13° 7'	Inside RS
4	— 5 —	3:10	Dc - RS	STr 2	—	13° 7'	
5	— 5 —	3:19	Wf White Oval	STr 2	—	19° 2'	Inside RS
6	— 5 —	3:26	Df - RS	STr 2	—	23° 4'	

115) — Length of RS found to be as of 20° 6'
 — (* Note: The E2 is most active, with usual red-orange color. It seems to be as if a single, active belt, from the SEBN up to, and including, the NEBs!!) —

In what way? And how much? — OC.

[Limb-darkening of Planet observed over E. portion] and taken into consideration for Transits above
 There seem to be both a (p) and a (f) dark spots close to the (p) and (f) ends (respectively) of the R.S., as on previous apparitions.
 The seeing was variable, on a scale of 4 to 5, and the transparency = about 3-4 (190x eyepiece used)

[No drawing was made.]

* Please send me a copy of this, - Phil. Thank you!
 — Carlos.

TRANSIT OBSERVATIONS

PLANET Jupiter
 YEAR 1962

OBSERVER O. E. Rost
 TELESCOPE 6-in Refl.
 LOCATION Sant. P.R

No.	Date (UT)	U.T.	Key	Object	Location	CM 1	CM 2	Remarks
1	Oct. 7	3:45	Dc	L.F. Wc (oval)	E2	268 ✓	—	
2	Oct. 7	3:57	Df	L.F.	E2	276 ✓	—	
3	Oct. 7	3:57	Wf	Module #1	N. edge NEBS	—	343 ✓	See drawing
4	Oct. 7	4:15	Wf	White Oval	STe2 (E)	—	354 ✓	
5	Oct. 7	4:15	Dp	Rod	N. edge NTB	—	354 ✓	
6	Oct. 7	4:24	Wp	Module #2	N. edge NEBS	—	359 ✓	
7	Oct. 7	4:30	Dc	Rod	N. edge NTB	—	3 ✓	
8	Oct. 7	4:30	Dc	Dark Cond.	STr2	—	3 ✓	P. end of side RS of
9	Oct. 7	4:34	Dp	RS	STrZ	—	5 ✓	
10	Oct. 7	4:38	Wp	White Oval	STr2	—	8 ✓	Inside RS
11	Oct. 7	4:38	Df	Rod	N. edge NTB	—	8 ✓	Dubious Obs.
12	Oct. 7	4:46	Dc	RS	STr2	—	12 ✓	
13	Oct. 7	4:46	Wc	White Oval	STr2	—	12 ✓	Inside RS
14	Oct. 7	4:53	Wf	White Oval	STr2	—	17 ✓	Inside RS
15	Oct. 7	5:01	Df	RS	STr2	—	21 ✓	
(130)								

TRANSIT OBSERVATIONS

PLANET Jupiter
 YEAR 1962

OBSERVER C. E. Rost
 TELESCOPE 6-in. Refl.
 LOCATION Santurce, Puerto Rico

No.	Date (UT)	U.T.	Key	Object	Location	CM 1	CM 2	Remarks
1	Oct. 19	2:11	Dc	LF#2	E2	305°8'	—	
2	— 19	2:20	Wf	Module	N. edge NEBs	—	287°2'	
3	— 19	2:26	Df	LF#2	EZ	315°0'	—	
4	— 19	2:26	Dp	Bridge #2	EZ	315°0'	—	Between LF#2 and LF#3
5	— 19	2:29	Dc	Festoon	STrZ	—	292°6'	Connecting SEBs with the STB
6	— 19	2:34	Dc	Bridge #2	E2	319°8'	—	
7	— 19	2:34	Wp	gap	SEBs	—	295°6'	See drawing
8	— 19	2:44	Df	Bridge #2	E2	325°9'	—	
9	— 19	2:44	Dp	LF#3	E2	325°9'	—	
10	— 19	2:50	Wc	gap	SEBs	—	305°3'	
11	— 19	3:01	Wf	gap	SEBs	—	312°0'	
12	— 19	3:01	Dc	Dark Spot	SEBs	—	312°0'	Rather faint.
13	— 19	3:06	Dc	LF#3	E2	339°3'	—	
(143)								

Dear Phil:

This is an immediate response to your kind letter, with interesting news (dated Oct. 14/62) as of the SEB disturbance mentioned! I hope that the above may be of some value! (Please let me know soon) Please send me Thermofax copies of Drugs and Transit sheets for both Reports, here enclosed.

Thank you a lot!
 Yours, Carlos.

Total observing Time = 2 hrs. 29 mins.)

25 TRANSIT OBSERVATIONS

PLANET 4

OBSERVER C. E. Rost

YEAR 1962

TELESCOPE 6-in. Refl.

* SEB disturbance

LOCATION Santurce, P. R.

No.	Date (UT)	U.T.	Key	Object	Location	CM 1	CM 2	Remarks
1	Oct. 21	1:47	Dc	Zest.	S. edge SEB _N	—	207°7'	See dwg.
③	— 21	2:01	Dc	Column	EZ	255°4'	—	
2	— 21	1:47	Dp	Dark Sect.	SEB _S	—	207°7'	Darken Sect. of SEB _S
4	— 21	2:08	Df	Dark Sect.	SEB _S	—	220°3'	
5	— 21	2:08	Wp	Gap #①	SEB _S	—	220°3'	
6	— 21	2:15	Df	Elong. Cond.	S. edge NNTB	—	224°6'	See dwg.
7	— 21	2:16	Wf	Gap #①	SEB _S	—	225°2'	
8	— 21	2:16	Dp	Dark Sect.	SEB _S	—	225°2'	See dwg.
9	— 21	2:24	Dp	L.F. #2	E2	269°4'	—	
10	— 21	2:32	Dc	L.F. #2	E2	274°3'	—	
11	— 21	2:40	Dc	Dark Spot	SEB _S	—	239°7'	See dwg.
13	— 21	2:45	Df	L.F. #2	E2	282°2'	—	
14	— 21	2:45	Dp	Bridge	E2	282°2'	—	
15	— 21	2:45	Wp	Nodule	N. edge NEB _S	—	242°7'	
16	— 21	3:00	Wc	Nodule	N. edge NEB _S	—	251°8'	
17	— 21	3:03	Dc	Bridge	E2	293°1'	—	Between L.F. 2 and L.F. #3
12	— 21	2:40	Wp	Gap #②	SEB _S	—	239°7'	This transit was missing
18	— 21	3:10	Wf	Nodule	N. edge NEB _S	—	257°8'	
19	— 21	3:10	Wp	Bay	N. edge NEB _S	—	257°8'	Not on dwg.
20	— 21	3:13	Wc	Gap #②	SEB _S	—	259°7'	
21	— 21	3:28	Wc	Bay	N. edge NEB _S	—	268°7'	
22	— 21	3:32	Wf	Gap #②	SEB _S	—	271°1'	
23	— 21	3:32	Dp	RSH-②	STr 2	—	271°1'	See dwg.
24	— 21	3:55	Dc	RSH-②	STr 2	—	285°0'	
25	— 21	4:16	Df	RSH-②	STr 2	—	297°8'	

Important note:

F. end of RSH (see dwg.) is much darker in intensity than its P. end.

Phil:

Please send me, ^{Thermofax} copy of both, the Transits Sheet and the drawing also.

Thank you very much for your kindness!

Yours - Carlos.

(Note -

It seems to me that the last (3) transits observed, were actually (forming) a part of the SEB disturbance itself!

And not the RSH)

TRANSIT OBSERVATIONS

PLANET 24
 YEAR 1962

OBSERVER Rost
 TELESCOPE 6-in Refl.
 LOCATION Lantern, P. R.

No.	Date (UT)	U.T.	Key	Object	Location	CM 1	CM 2	Remarks
1	Oct. 22	1:33	Dp	L.F.	E2	36 ✓	—	
2	— 22	1:38	Dp	Clong Cond	S. edge NNTB	—	352 ✓	
3	— 22	1:48	Dc	Clong. Cond.	S. edge NNTB	—	358 ✓	
4	— 22	1:49	Dc	L.F.	E2	46 ✓	—	
5	— 22	1:55	Df	Clong. Cond.	S. edge NNTB	—	3 ✓	
6	— 22	1:57	Dp	RS	STr2	—	4 ✓	
7	— 22	1:59	Df	L.F.	E2	52 ✓	—	
8	— 22	1:59	Dp	Bridge	E2	52 ✓	—	F. end of loop westward
9	— 22	1:59	Dp	L.F.	E2	52 ✓	—	South of Bridge on Transit # 8
10	— 22	2:06	Wp	White Oval	STr2	—	9 ✓	Inside RS
11	— 22	2:08	Wp	Nodule	N. edge NEBs	—	10 ✓	
12	— 22	2:13	Wc	White Oval	STr2	—	13.6 ✓	Inside RS
13	— 22	2:13	Dc	RS	STr2	—	13.6 ✓	
14	— 22	2:18	Wf	White Oval	STr2	—	17 ✓	Inside RS
15	— 22	2:22	Dc	Bridge	E2	66 ✓	—	See Transit # 8
16	— 22	2:26	Df	RS	STr2	—	21 ✓	
17	— 22	2:26	Wc	Nodule	N. edge NEBs	—	21 ✓	
18	— 22	2:52	Wp	White Oval	STe2 ⊕	—	37 ✓	E. of the RS - Not on dwg.
19	— 22	2:58	Wc	White Oval	STe2	—	41 ✓	
20	— 22	3:06	Wf	White Oval	STe2 ⊕	—	46 ✓	
21	— 22	3:06	Dp	Dark Sect.	STB	—	46 ✓	Close to F. end of White Oval
(189)								

