

Transits

1962

JUPITER: TRANSIT OBSERVATIONS, 1962. Patrick Moore.

| No. | GMT. | Long. | |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------|----------|
| | | I | II |
| <u>July 8.</u> 8½in.refl. x 250. Seeing poor. | | | |
| ✓1 | 1.15 ESTIMATE. F.end of white spot in EZ | 198.5 ✓✓ | |
| ✓2 | 1.23 P.of broadening of N. edge of EZ | 203.4 ✓ | 245.6 ✓ |
| ✓3 | 1.34 Condensation in STB | | 252.2 ✓ |
| <u>July 22.</u> 8½in.refl. x 260. Seeing fairly good. | | | |
| ✓4 | 0.40 F.end of white streak in EZ | 229.2 ✓ | |
| 12½in.refl. x 350 | | | |
| ✓5 | 1.09 Break between 2 wh.spots in N.part of EZ | 246.9 ✓ | |
| ✓6 | 1.27 Bright wh. spot in EZ; pr. dark marking | 257.9 ✓✓ | |
| ✓7 | 1.42 P. of prominent dark streak in EZ | 267.0 ✓✓ | |
| ✓8 | 2.14 C. of dark marking in EZ | 286.5 ✓✓ | |
| ✓9 | 2.18 ESTIMATE. Midpoint between 2 knots in NTB | | 223.9 ✓ |
| ✓10 | 2.46 ESTIMATE. F. of dark marking in EZ | 306.0 ✓ | |
| <u>July 24.</u> 8½in.refl. x 300. Seeing appalling. | | | |
| ✓11 | 1.00 F. edge of white spot on Equator. | 197.3 ✓ | |
| ✓12 | 1.11 P. of small white spot N. of EZ | | 124.2 ✓ |
| <u>July 31.</u> 12½in.refl. x 300 (13-19), x 250 (19-25), x 200 (26). Seeing variable, but generally mediocre. | | | |
| ✓13 | 1.15 P. of white spot in S of STZ | | 099.4 ✓✓ |
| ✓14 | 1.18 F. of wh.spot on N border of EZ | 234.4 ✓ | 101.2 ✓ |
| ✓15 | 1.20 C. of white spot in SSTZ | | 108.4 ✓ |
| ✓16 | 1.25 F. of white spot in SSTZ | | 105.4 ✓ |
| ✓17 | 1.35 P. of white streak in EZ | 244.8 ✓ | |
| ✓18 | 1.38 Midpoint between 2 wh.spots N.of N.border of EZ | 246.6 ✓ | 113.2 ✓ |
| ✓19 | 1.41 C. of diffuse wh. patch in N. part of EZ | 248.4 ✓ | |
| ✓20 | 1.44 Midpoint between 2 white spots in SSTZ | | 116.8 ✓ |
| ✓21 | 1.50 P. of white spot on N. edge of EZ | 253.9 ✓ | 120.4 ✓ |
| ✓22 | 1.51 P.of dark area in N.part of EZ, separating 2 wh.areas | 254.5 ✓ | |
| ✓23 | 1.54 P.of white spot in SSTZ | | 122.8 ✓✓ |
| ✓24 | 2.00 C. of white spot in SSTZ | | 126.4 ✓✓ |
| ✓25 | 2.01 C.of main part of dark streak in EZ | 261.8 ✓✓ | |
| ✓26 | 2.05 C. of white patch in EZ | 264.2 ✓ | |
| <u>August 21.</u> 12½in.refl. x 350 (27-30), x 250 (30-35). Seeing fair. | | | |
| ✓27 | 0.20 Dark spot in EZ | 277.8 ✓✓ | |
| ✓28 | 0.28 C.of light patch in N part of EZ | 282.7 ✓ | |
| ✓29 | 0.37 C.of area of streak between 2 wh.spots in EZ | 288.2 ✓✓ | |
| ✓30 | 0.48 P.of white spot in EZ | 294.9 ✓ | |
| ✓31 | 0.57 P. of Red Spot | | 006.9 ✓ |
| ✓32 | 0.58 C.of white spot in EZ | 301.0 ✓✓ | |
| ✓33 | 1.08 F.of white spot in EZ | 307.1 ✓ | |
| ✓34 | 1.10 C. of Red Spot | | 014.8 ✓ |

35 1.26 F. of Red Spot 024.5✓

August 22. 12½in.refl. x 230. Seeing poor, but sudden mist!

✓36 22.53 P. of hump in STB 232.7✓
 ✓37 22.54 P. of white streak in EZ 181.5✓

August 24/25. 12½in.refl. x 300. Seeing fair between patches of mist.

✓38 23.41 (24th). Midpoint of Eq. Band between 2 white spots 166.2✓
 ✓39 0.06 (25th). P. of white spot in EZ 181.4✓
 ✓40 0.06 P. of darker area of N. part of EZ 181.4
 ✓41 0.08 P. of condensation in STB 218.9✓
 ✓42 0.15 C. of white spot in EZ 186.9✓
 ✓43 0.18 C. of condensation in STB 224.9✓
 ✓44 0.24 ESTIMATE. F. of white spot in EZ 192.4✓

August 25/26. 8½in.refl. x 250 (45-47); 12½in.refl. x 250 (48-50). Fair.

45 22.42 (25th). P. of white spot in N part of EZ 288.2✓
 46 22.54 C. of white spot 295.5✓
 47 23.35 Midpoint between 2 white spots, EZ 320.5✓
 ✓48 0.03 (26th). P. of Red Spot 006.3✓
 ✓49 0.16 C. of Red Spot 014.2✓
 ✓50 0.29½ F. of Red Spot 022.4✓

September 4. 8½in.refl. x 160. Seeing very poor.

✓51 22.06 C. of white oval on Equator 046.5✓
 ✓52 22.30 C. of Red Spot 014.6✓

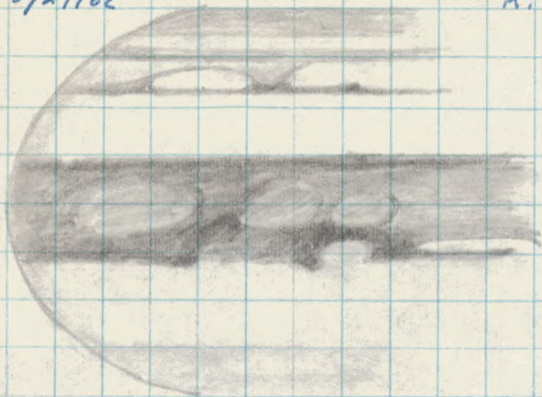
September 20. 8½in.refl. x 130. Seeing atrocious.

✓53 20.17 F. of white spot on Equator 348.2✓

June 06.35 - 08.19 UT

23/24/62

K. Brasch



System I 340 360 20 40 60

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date *June 24 1962* Planet *Jupiter*
 Period of Observation *06:35 - 08:19* U.T.
 Telescope *8 inch Refl.* Power *245x*
 Seeing (0 worst-10 best) *3.5* Transparency (0 worst-5 best) *3*
 Observer *K. Branch*

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------------|-------------------|------------|--------------|
| | | | I | II |
| 1 | <i>Wc oval S edge STB</i> | <i>06:35</i> | - | <i>130</i> |
| 2 | <i>Dc proj S " NEB</i> | <i>06:36</i> | <i>343</i> | <i>✓</i> |
| 3 | <i>Df " " " " "</i> | <i>06:45</i> | <i>347</i> | <i>✓</i> |
| 4 | <i>Wf oval S " STB</i> | <i>06:51</i> | - | <i>140</i> |
| 5 | <i>Dc proj " " " "</i> | <i>06:58</i> | - | <i>145</i> |
| 6 | <i>Wc dusky oval S edge NEB</i> | <i>07:02</i> | <i>359</i> | <i>✓ 147</i> |
| 7 | <i>Df proj S " STB</i> | <i>07:08</i> | - | <i>150</i> |
| 8 | <i>Dc proj N " NEB</i> | <i>07:10</i> | <i>4</i> | <i>152</i> |
| 9 | <i>Dc " S " " "</i> | <i>07:10</i> | <i>4</i> | <i>✓ 152</i> |
| 10 | <i>Wp bay N " " "</i> | <i>07:13</i> | <i>5</i> | <i>153</i> |
| 11 | <i>Wc " " " " " "</i> | <i>07:20</i> | <i>10</i> | <i>158</i> |
| 12 | <i>Dc proj STB</i> | <i>07:25</i> | - | <i>161</i> |
| 13 | <i>Wf bay N edge NEB</i> | <i>07:27</i> | <i>14</i> | <i>162</i> |
| 14 | <i>Wf oval S-NEB & N-SEB</i> | <i>07:36</i> | <i>20</i> | <i>✓ 167</i> |
| 15 | <i>Dc N section of NEB</i> | <i>07:38</i> | <i>21</i> | <i>169</i> |
| 16 | <i>Wp rift N edge NEB</i> | <i>07:45</i> | <i>25</i> | <i>173</i> |
| 17 | <i>Wc " " " " " "</i> | <i>07:58</i> | <i>35</i> | <i>181</i> |
| 18 | <i>Wf " " " " " "</i> | <i>08:19</i> | <i>46</i> | <i>193</i> |
| | | | | |
| | | | | |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

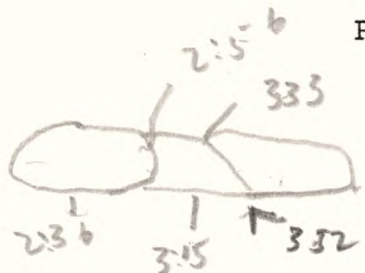
PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... June 23/24 Planet Jupiter ✓
 Period of Observation 6:30 - 8:15 U.T.
 Telescope 8" refL Power 250
 Seeing (0 worst-10 best) 4 Transparency (0 worst-5 best) 3-4
 Observer ... ZACKON

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------------|-------------------|-----------|-------|
| | | | I | II |
| 2 | WD OVAL NEEN | 632 | 340.8 | 128.1 |
| 3 | WG OVAL STB | 636 | 342.9 | 130.2 |
| 4 | DL Cond NEEN | 655 | 354.5 | 131.7 |
| 5 | WF OVAL STB | 656 | 355.1 | 142.3 |
| 6 | NG OVAL NEEN | 712 | 4.4 | 142.0 |
| 7 | WG OVAL STB | 715 | 6.7 | 153.8 |
| 8 | NA OVAL NEKS | 720 | 9.8 | 156.9 |
| 9 | WF OVAL NEEN (also DF and NEEN) | 727 | 14.1 | 161.1 |
| 10 | WF OVAL STBN | 733 | 17.7 | 164.7 |
| 11 | WF OVAL NEKS | 737 | 20.2 | 167.1 |
| 12 | DF Cond NEEN | 750 | 28.0 | 175.0 |
| 13 | WF OVAL STBS | 752 | 29.2 | 176.2 |
| 14 | WF OVAL NEEN (also DF sect NEEN) | 811 | 30.9 | 187.1 |
| 15 | WF OVAL NEEN | 815 | 33.3 | 190.1 |

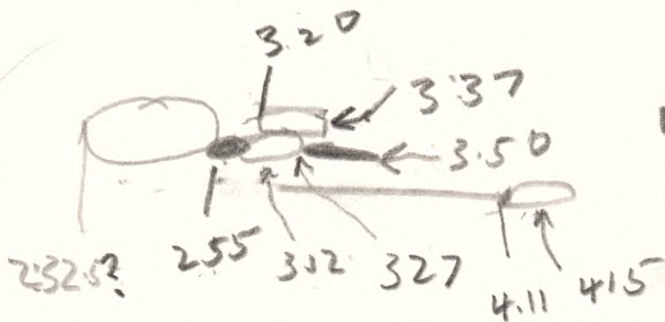
ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS (Central Meridian)



STBS

South region



NESS
NESW

NE IS
N ← IS on NE IS

uf 327 }
DP 327 } total 15,

Planet Jupiter Observer ZACITON

Local: Date June 23, 24 19. 62 Time 11 A.M. Zone EDT

U. T.: Date June 24 19. 62 Time +4

Telescope: Aperture 8 Type refl Power 250

Seeing (0 worst-10 best) 4 Transparency (0 worst-5 best) 3-4

Central Meridian: (1) (2)

Remarks:

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date June 28, 1962 Planet Jupiter
 Period of Observation 05:50-06:57; 07:03-08:14 U.T.
 Telescope 8" refl. Power 240x
 Seeing (0 worst-10 best) 2 Transparency (0 worst-5 best) 4
 Observer Geoffrey Gaherty, Jr

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|-----------|------------------------|------------|-------------------|-----------|-------|
| | | | | I | II |
| 1 | DF sect. | NEBn | 06:08 | — | 355°V |
| 2 | Dp RS | STrZ | 06:13 | — | 358V |
| 3 | Wc oval | S edge NEB | 06:32 | 252V | — |
| 4 | Dc RS | STrZ | 06:32 | — | 9V |
| 5 | Dp sect | NNTB | 06:34 | — | 10V |
| 6 | Dp lg proj | S edge NEB | 06:43 | 259V | — |
| 7 | DF RS | STrZ | 06:51 | — | 21V |
| 8 | Dc lg proj | S edge NEB | 06:56 | 267V | — |
| 9 | Wp oval | S edge STB | 07:37 | — | 48V |
| 10 | Wc oval | S edge STB | 07:55 | — | 59V |
| 11 | Dp elong cond | SEBs | 08:01 | — | 63V |
| 12 | Dc elong cond | SEBs | 08:06 | — | 66V |
| 13 | Wff oval | S edge STB | 08:08 | — | 67V |
| 14 | DF elong cond | SEBs | 08:12 | — | 70V |
| 15 | Wp oval | S edge NEB | 08:13 | 314V | — |

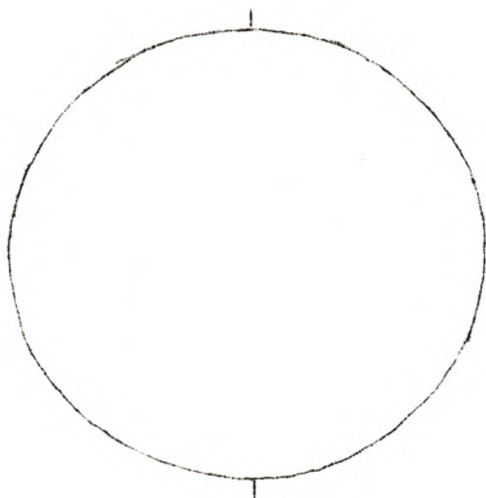
ROYAL ASTRONOMICAL SOCIETY OF CANADA

Observation of the Planet Jupiter

Local: Date June 27/28..... 1962. Time 01:50-04:14..... Zone E.D.T.
 U. T.: Date June 28..... 1962. Time 05:50-08:14.....
 Telescope: Aperture 8 inch..... Type Reflector..... Power 240x.....
 Seeing (0 worst-10 best) 2..... Transparency (0 worst-5 best) 4.....
 Central Meridian: I II
 Observer Geoffrey Gaherty, Jr..... Mailing Address:
 Station Montreal..... 2800 Hill Park Road.....
 R.A.S.C. Centre Montreal..... Montreal 25, Que......

Drawing:

Intensity Estimates:



Observer's Remarks: Clear of house at 01:50 EDT. RS very prominent on f part of disk. EZ extremely dusky & rusty in colour. SEBn has obviously revived, now darkest belt on planet. NTB still apparently missing. STB fairly broad, RS appears imbedded in it.

06:20 UT (245^o, 2^o): Conspicuousness estimate:

Belts: SEBn, NEB, STB, SSTB, NNTB, SSSTB

Zones: STrZ, NTe-TrZ, STeZ, EZ, NNTeZ, SSteZ

06:40 UT: STB oval coming onto f limb (DE?)

07:15 UT: EZ is a brownish orange near SEBn, shading off to ochre near the NEB. Detail here is quite difficult due to lack of contrast and general duskiness.

07:47 UT: I have the distinct impression that the S edge of the SEBn and the N edge of the NEB are not parallel - being farther apart at the f limb.

(08:01 UT: along cond on SEBs: the SEBs was quite well seen with good seeing, much more definite than I have ever seen it before. Cond. was also quite definite - no wisp was seen connecting it to the SEBn.)

08:14 UT: Observations discontinued. Dawn is flooding the sky, I am
 Planetary Form No 1-J rather tired but immensely pleased to be "at it again"!

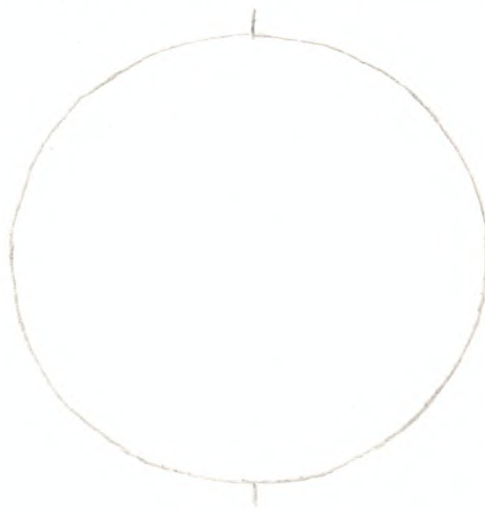
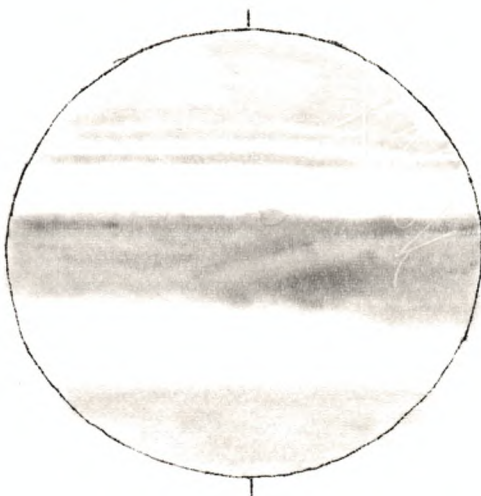
ROYAL ASTRONOMICAL SOCIETY OF CANADA

Observation of the Planet Jupiter

Local: Date ..JULY..2..... 1962 Time 01:55-02:05..... Zone EDT....
U. T.: Date ..JULY..2..... 1962 Time 05:55-06:05.....
Telescope: Aperture 6 inches..... Type Refractor..... Power 220X.....
Seeing (0 worst-10 best) ...4-3..... Transparency (0 worst-5 best) .2.....
Central Meridian: I ...245°..... II ...231°.....
Observer ...G. WEDGE..... Mailing Address:.....
Station ...OBSERVATORY.....
R.A.S.C. Centre .MONTREAL.....

Drawing:

Intensity Estimates:



Observer's Remarks:

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

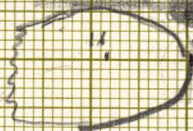
Date ... July ... 17/20 Planet ... Venus
 Period of Observation ... 04:44 05:42 U.T.
 Telescope ... 8" refl. Power ... 250
 Seeing (0 worst-10 best) .4 Transparency (0 worst-5 best) ... 2 (moon)
 Observer .. Z. A. K. P. W. ..

| Serial No | Description of Feature | LOCATION | Transit Time U.T. | Longitude | |
|-----------|------------------------|-----------|-------------------|-----------|-------|
| | | | | I | II |
| 116 | DC R.S. | STB N | 0444 | 11.50 | |
| * 117 | DP sect | SEB S | 0452 | 16.30 | |
| 118 | DF R.S. | STB N | 0459 | 20.50 | |
| 119 | DE prof. low point | STB N | 0501 | 21.7 | |
| - 20 | WF node | NES N | 0502 | 22.90 | 22.30 |
| - 21 | DC Cond. | NES N | 0512 | 28.3 | |
| 122 | DF prof. low point | STB S | 0514 | 29.5 | |
| 23 | DF DIST? level? | NTB? edge | 0516 | 30.7 | |
| - 24 | WF node | NES N | 0532 | 40.4 | |
| - 25 | DF sect. | NES N | 0542 | 46.5 | |
| | | | | 97.3 | |
| | | | | 36 | |

July 19/20, 1962

0 10 20 30 40 50

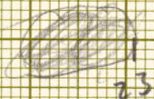
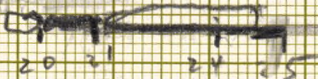
II



14 19 22

17

unsteady seeing, no clock



50 60 70 80 90 100 I

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date JULY 21 1962 Planet JUPITER
 Period of Observation 06:10 - 07:30 U.T.
 Telescope 6 inch Refractor Power 220x
 Seeing (0 worst-10 best) 4-1 Transparency (0 worst-5 best) 3-4
 Observer G. WEDGE

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|--------------------------------------------|-------------------|-----------|--------|
| | | | I | II |
| 1. | C. NOTCH N edge NEB | 06:11 | 151° | 238° ✓ |
| 2. | C. BAY S edge STB | 06:17 | 155° | 241° |
| 3. | P. DK PROJ N edge NEB - NEB ^N ? | 06:26 | 160° | 247° ✓ |
| 4. | P. LOOP FEET S edge SEB ^N | 06:29 | 162° | 249° ✓ |
| 5. | F. LOOP FEET S edge SEB ^N | 06:36 | 165° | 253° ✓ |
| 6. | P. LOOP FEET S edge SEB ^N | 06:37 | 167° | 253° |
| 7. | P. DK PROJ S edge STB ^N | 06:45 | 172° | 258° |
| 8. | LOOP FEET S edge SEB ^N | 06:45 | 172° | 258° ✓ |
| 9. | C. DK PROJ S edge STB | 06:50 | 175° | 261° ✓ |
| 10. | F. DK PROJ S edge STB | 06:55 | 178° | 264° |
| 11. | C. B. NODULE S edge NEB | 07:04 | 181° | 284° ✓ |
| 12. | C. DK PROJ N edge NEB | 06:53 | 171° | 263° ✓ |
| 13. | P. LOOP FEET N edge STB | 07:09 | 187° | 273° ✓ |
| 14. | F. B. NODULE S edge NEB | 07:15 | 191° | 290° ✓ |
| 15. | F. LOOP FEET S edge SEB ^N | 07:17 | 191° | 278° ✓ |
| 16. | F. DK PROJ N edge NEB | 07:18 | 192° | 279° ✓ |
| 17. | C. Bay S edge STB | 07:21 | 193° | 280° |
| 18. | F. Bay S edge STB | 07:29 | 198° | 285° |

PLANETARY OBSERVATIONS
Central Meridian Transits

Date July ~~22~~/23 1962. Planet Jupiter.....
 Period of Observation 04:41..... - 05:07..... U.T.
 Telescope 8" Refl..... Power 245x.....
 Seeing (0 worst-10 best) 2-3..... Transparency (0 worst-5 best) .. 4-5..
 Observer K. Brasch.....

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------|-------------------|-----------|-------|
| | | | I | II |
| 19 | W.p. oval STB | 04:41 | - | 109.5 |
| 20 | D.P. low proj. N. edge NEB | 04:50 | - | 106✓ |
| 21 | W.c. oval STB | 04:55 | - | 109: |
| 22 | D.c. low proj. N. edge NEB | 04:56 | - | 110✓ |
| 23 | D.f. low proj. " " " | 05:04 | - | 115✓ |
| 24 | W.f. oval STB | 05:07 | - | 116✓ |

July 24/25 1962

Seeing: 2 Trans: 4-5

| | | | | |
|----|---------------|-------|---|-----|
| 25 | W.f. oval STB | 04:50 | - | 33- |
|----|---------------|-------|---|-----|

Note - all above transits made under very poor seeing, may not be too accurate consequently.
 - Area between NEB & SEB is very prominent in colour but lacking in contrast & features in it very vague.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Central Meridian Transit Observations

U.T.: Date July 23 1962 Planet Jupiter
 Telescope: Aperture 8" Type refl. Power 240
 Seeing (0 worst-10 best) 2 Transparency (0 worst-5 best) 3
 Observer Geoffrey Gaherty, Jr Mailing Address:
 Station Montreal
 R.A.S.C. Centre

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|-----------|------------------------|----------|-------------------|-----------|------------------|
| | | | | I | II |
| 16 | Dp sect | NNTB | 06:36 | — | 170 [✓] |
| 17 | Dc column | STeZ | 06:42 | — | 174 [✓] |
| 18 | DF sect | NEBn | 06:52 | — | 180 [✓] |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Central Meridian Transit Observations

U.T.: Date July 27..... 1962. Planet Jupiter.....
 Telescope: Aperture 8"..... Type refl...... Power 220, 390.....
 Seeing (0 worst-10 best) 5..... Transparency (0 worst-5 best) 4.....
 Observer Jim Low..... Mailing Address:
 Station Great Whale River,..... RCAF Stn. Gt. Whale R.
 R.A.S.C. Centre Montreal..... P.O. Box 6121, Montreal

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|-----------|------------------------|------------|-------------------|-----------|------------|
| | | | | I | II |
| <u>1</u> | <u>Dc RS</u> | <u>STZ</u> | <u>05:36</u> | <u>—</u> | <u>16V</u> |
| <u>2</u> | <u>DF RS</u> | <u>STZ</u> | <u>05:44</u> | <u>—</u> | <u>20V</u> |

172.5 172.5
 202.5 205.5
 .6 2.4

 375.6 280.4

9.4.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Central Meridian Transit Observations

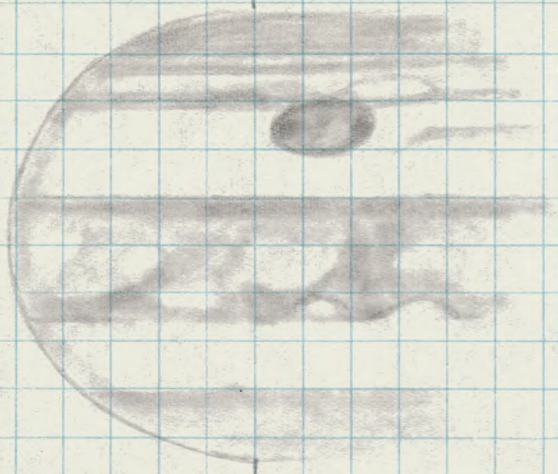
U.T.: Date August 4 1962 Planet Jupiter
 Telescope: Aperture 8" Type refl. Power 240
 Seeing (0 worst-10 best) 2 Transparency (0 worst-5 best) 3
 Observer G. Goherty, Jr Mailing Address:
 Station Montreal
 R.A.S.C. Centre

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|-----------|------------------------|------------|-------------------|------------------|------------------|
| | | | | I | II |
| 19 | Wp oval | Sedge NEBs | 05:10 | 288 [✓] | — |
| 20 | Dp sect | NEBn | 05:14 | — | 125 [✓] |
| 21 | Wc oval | Sedge NEBs | 05:27 | 298 [✓] | — |
| 22 | Wp rift | NEBZ | 05:32 | 301 | 136 [✓] |
| 23 | Wf oval | Sedge NEBs | 05:45 | 309 [✓] | — |

System I

188

204



August 1/6 1962

U.T. 03:30 - 04:23

8 inch Refl. 245x

Seeing 5 Tran. 2-3

K. R. Brasch

System II

0

20

40

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

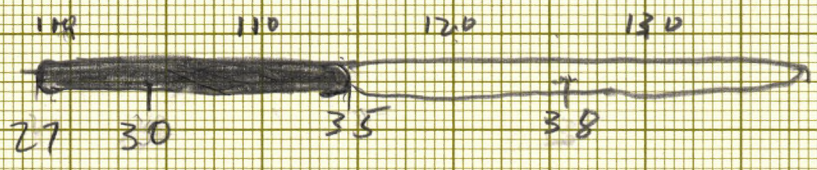
PLANETARY OBSERVATIONS
Central Meridian Transits

Date August 21st 1962 .. Planet Jupiter ..
 Period of Observation 03:30 - 04:23 U.T.
 Telescope 8 inch Refl. Power 245
 Seeing (0 worst-10 best) 5 Transparency (0 worst-5 best) 2.3 ..
 Observer K. Branch ..

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|--------------------------------|-------------------|------------------|-----------------|
| | | | I | II |
| 26 | DP Red Spot | 03:30 | - | 3 [✓] |
| 27 | Df Condensation in B.S. | 03:36 | - | 7 [✓] |
| 28 | WP Rift N edge NEB | 03:38 | - | 9 [✓] |
| 29 | WC oval S " " | 03:38 | 188 [✓] | - |
| 30 | DC Red Spot | 03:47 | - | 14 [✓] |
| 31 | WF oval S edge NEB | 03:48 | 194 [✓] | - |
| 32 | WF Rift N edge " | 03:51 | - | 16 [✓] |
| 33 | DP Condensation in B.S. | 03:55 | - | 18 [✓] |
| 34 | WP oval STB | 03:57 | - | 20 [✓] |
| 35 | Df large wide prop. S edge NEB | 04:04 | 204 [✓] | - |
| 36 | Df Red Spot | 04:08 | - | 26 [✓] |
| 37 | WC oval STB | 04:12 | - | 29 [✓] |
| 38 | WC Rift N edge NEB | 04:21 | - | 34 [✓] |
| 39 | DP preceding end of SEBs | 04:23 | - | 35 [✓] |

Observations made under very good seeing but
 poor trans. due to hazy sky

II



31

34

26

28

36

8

5, 11, 12, 2

230

240

250

260

II

30, 36, 37, ? on timing.
32, uncert.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Central Meridian Transit Observations

U.T.: Date August 12 1962 Planet Jupiter
 Telescope: Aperture 8" Type refl. Power 240
 Seeing (0 worst-10 best) 5 Transparency (0 worst-5 best) 3
 Observer G. Gaherty, Jr. Mailing Address:
 Station Montreal
 R.A.S.C. Centre

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------|-------------------|-----------|------|
| | | | | I | II |
| 24 | Dp rod | STB | 04:34 | — | 224✓ |
| 25 | Wp oval | Sedge NEB | 04:39 | 93✓ | — |
| 26 | Dc rod | NNTB | 04:44 | — | 230✓ |
| 27 | WF rift | NEBZ (Est.) | 04:53 | 102 | 236✓ |
| 28 | WF oval | Sedge NEB | 05:02 | 107✓ | — |
| 29 | Wp bay | Sedge STB | 05:05 | — | 243✓ |
| 30 | DF rod | NNTB | 05:08 | — | 245✓ |
| 31 | Dc proj | Sedge NEB | 05:09 | 112✓ | — |
| 32 | DF rod | STB | 05:11 | — | 247✓ |
| 33 | Wc nodule | Sedge NEB | 05:24 | 121✓ | — |
| 34 | Wc bay | Sedge STB | 05:26 | — | 256✓ |
| 35 | WF bay | Sedge STB | 05:39 | — | 264✓ |
| 36 | Wc oval | Sedge NEB | 05:53 | 138✓ | — |
| 37 | Dp sect | NNTB | 05:58 | — | 275✓ |
| 38 | Wp gap | NEBn | 06:04 | — | 279✓ |
| 39 | Dc proj | Sedge NEB | 06:07 | 147✓ | — |

CENTRAL MERIDIAN TRANSITS

JUPITER.

| | Date | U. T. | PHEN. | CENTRAL MER. | | | |
|---|--------|--------|-------|-------------------------------|--------|-------|----------------------|
| | | | | I | II | | |
| 3 | Aug. 9 | 03:56 | Wp | streak | NEB | - | 109.2 ^o ✓ |
| 4 | | 03:59 | W | $\frac{1}{2}$ dist. between 2 | module | STrZ | 112.1 ^o ✓ |
| 5 | | 04:06 | Wc | streak | NEB | - | 116.3 ^o ✓ |
| 6 | | 04:09 | Wc | module | STrZ | - | 118.1 ^o ✓ |
| 7 | | 04:12 | Wf | streak | NEB | - | 119.9 ^o ✓ |
| | | *05:08 | Dc | cond. (shadow) | EZ | 357.0 | - |

August 9, 1962. U. T.

8"- Reflector, 220X.

Seeing: 5.

Transparency: 4

* Predicted time = 05:02.

Jim Low

55°18'N.
77°44'W.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date August 13 1962 Planet Jupiter
 Period of Observation 0412 - 05:55 U.T.
 Telescope 8 inch Refl. Power 245 ✓
 Seeing (0 worst-10 best) 4-2 Transparency (0 worst-5 best) 4-5
 Observer K. B. Rosch

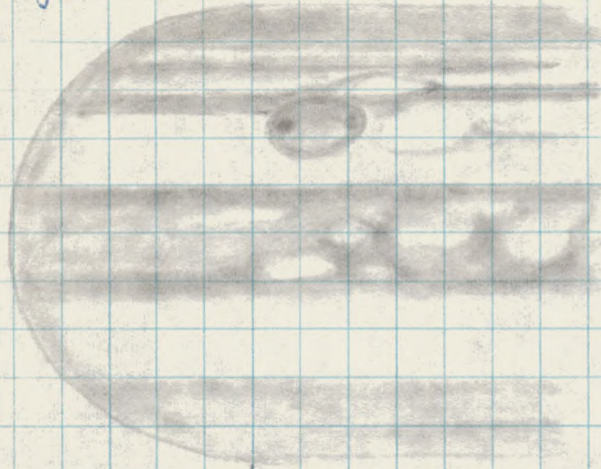
| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------------|-----------|----|
| | | | I | II |
| 60 | Wp oval S edges NEB | 05:33 | 284 ✓ | — |
| 61 | Wc " " " | 05:42 | 289 ✓ | — |
| 62 | Wf " " " | 05:55 | 298 ✓ | — |

Note - ① Region between the NEB & the SEB₁₀ seems to be dividing into three rift layers in the portion timed above.

② The light oval area following the Red Spot in the STL was near the limit of detectability being of approx. 8.5 vs 8 of the STL.

At the following end of the bright area the SEB₃ seems to begin.

System I S 250 270 290



System II 0 20 40 60

August 13 1962

U.T. 04:12 to 05:55

Sec 4-2

Trans 4-5

8" Refl.

245x

K. R. Brauch

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date August 11/13 1962 Planet Jupiter
 Period of Observation 04:12 - 05:55 U.T.
 Telescope 8" R.H. Power 245x
 Seeing (0 worst-10 best) 4-2 Transparency (0 worst-5 best) 4-5
 Observer K. Brauch

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------------------------------------------------|-------------------|-----------|------|
| | | | I | II |
| 40 | Wp. rift N edge NEB | 04:12 | — | 2 ✓ |
| 41 | Dp. Red Spot | 04:15 | — | 4 ✓ |
| 42 | Wc. rift N edge NEB | 04:22 | — | 8 ✓ |
| 43 | Df. condensation in Red Spot | 04:23 | — | 8 ✓ |
| 44 | Wf. rift N edge NEB S edge NEB ^{E 2s} | 04:25 | 242 ✓ | 9 |
| 45 | Dc. Red Spot | 04:32 | — | 14 ✓ |
| 46 | Wp. rift S edge NEB | 04:35 | 245 ✓ | — |
| 47 | Wp. oval STB | 04:36 | — | 16 ✓ |
| 48 | Wf. rift N edge NEB | 04:38 | — | 17 ✓ |
| 49 | Dp. condensation in Red Spot | 04:40 | — | 18 ✓ |
| 50 | Df. Red Spot | 04:48 | — | 23 ✓ |
| 50 | Wf. rift S edge NEB | 04:41 | 252 ✓ | — |
| 52 | Wc. oval STB | 04:49 | — | 24 ✓ |
| 53 | Wp. rift S edge NEB | 05:00 | 264 ✓ | — |
| 54 | Wf. oval STB | 05:07 | — | 37 ✓ |
| 55 | Wc. rift S edge NEB | 05:08 | 269 ✓ | — |
| 56 | Wc. light oval area STB | 05:14 | — | 39 ✓ |
| 57 | Wf. rift S edge NEB | 05:20 | 276 ✓ | — |
| 58 | Wf. oval area STB | 05:24 | — | 45 ✓ |
| 59 | Dc. prof. S edge NEB | 05:26 | 280 ✓ | — |

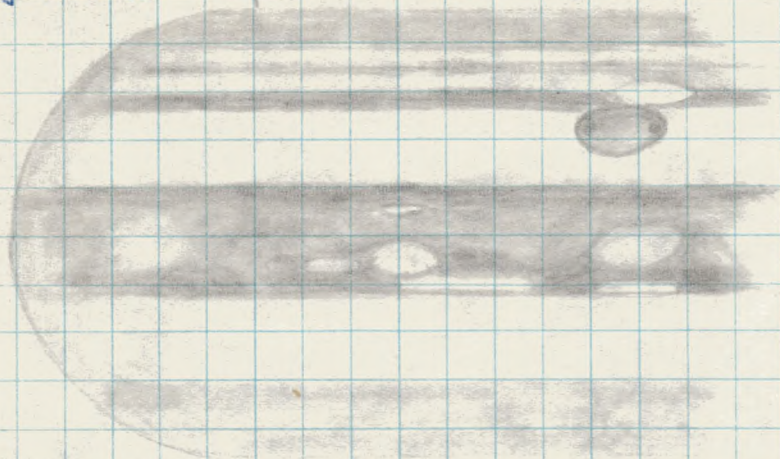
ROYAL ASTRONOMICAL SOCIETY OF CANADA
Central Meridian Transit Observations

U.T.: Date August 18 1967 Planet Jupiter
 Telescope: Aperture 8" Type refl. Power 240
 Seeing (0 worst-10 best) 1-0 Transparency (0 worst-5 best) 2-0
 Observer G. Gaherty, Jr Mailing Address:
 Station Montreal
 R.A.S.C. Centre

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------------|-------------------|-----------|------------|
| | | | | I | II |
| <u>40</u> | <u>Dc proj?</u> | <u>N edge STB</u> | <u>05:10</u> | <u>←</u> | <u>69V</u> |
| <u>41</u> | <u>Dc proj</u> | <u>S edge STB</u> | <u>05:28</u> | <u>—</u> | <u>79V</u> |

System II

4 25 25



August ~~21~~ / 22 1962

U. To 05-08 - 07-18

8" Refl. 245x

Seeing: 4-1 Traon - 5

K. R. Brasch

System I

240

260

280

300

320

340

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date August 22 / 1962 Planet Jupiter
 Period of Observation 05:08 07:18 U.T.
 Telescope 8 inch Refl Power 245x
 Seeing (0 worst-10 best) 4-1 Transparency (0 worst-5 best) 5
 Observer K. Branch

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------------|-------------------|-----------|-------|
| | | | I | II |
| 63 | Wp. Refl. S. edge NEB | 05:08 | 252 ✓ | - |
| 64 | Wc. " " " " | 05:18 | 258 ✓ | - |
| 65 | Wf. " " " " | 05:27 | 263 ✓ | - |
| 66 | Wp. oval " " " " | 05:30 | 265 ✓ | - |
| 67 | Wc. " " " " | 05:38 | 270 ✓ | - |
| 68 | Wc. small star N. edge SEB | 05:39 | 270 ✓ | - |
| 69 | Wf. oval S. edge NEB | 05:49 | 276 ✓ | - |
| 70 | Wf. Refl. W. NEB | 06:22 | - | 354 ✓ |
| 71 | Wp. Refl. N. edge NEB | 06:30 | - | 359 ✓ |
| 72 | Dp. Red. Spot | 06:39 | - | 4 ✓ |
| 73 | Wc. Refl. N. " " | 06:41 | - | 5 ✓ |
| 74 | Wp. large white area S. edge NEB | 06:46 | 34 ✓ | - |
| 75 | Df. condensation in Red. Spot | 06:49 | - | 10 ✓ |
| 76 | Wp. oval STB | 06:53 | - | 13 ✓ |
| 77 | Wf. Refl. N. edge NEB | 06:56 | - | 14 ✓ |
| 78 | Dc. Red. Spot | 06:57 | - | 14 ✓ |
| 79 | Wc. large white area S. edge NEB | 07:00 | 320 ✓ | - |
| 80 | Df. Red. Spot | 07:14 | - | 25 ✓ |
| 81 | Wf. large white area S. edge NEB | 07:15 | 329 ✓ | - |
| 82 | Wf. oval STB | 07:18 | - | 28 ✓ |

Note: Seeing was very variable, consequently some timings may not be too accurate during the worst moments.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Central Meridian Transit Observations

U.T.: Date Aug. 23 1962 Planet Jupiter
 Telescope: Aperture 8" Type refl. Power 240
 Seeing (0 worst-10 best) 4-6 Transparency (0 worst-5 best) 4
 Observer G. Gaherty, Jr. Mailing Address:
 Station Montreal
 R.A.S.C. Centre

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|---------------|----------------------------------------------------|------------|-------------------|-----------|-------|
| | | | | I | II |
| 42 | Wc nodule | Nedge NEBn | 04:56 | — | 92v |
| 43 | Dc sm. cond. | Nedge SSTB | 04:59 | — | 94v |
| 44 | Wf oval | Sedge STB | 05:00 | — | 95v |
| 45 | Dp lg proj | Sedge NEBs | 05:11 | 51v | — |
| 46 | Wp rift | NEBZ | 05:15 | — | 104v |
| 47 | Wc rift | NEBZ | 05:26 | — | 110v |
| 48 | Dc lg proj | Sedge NEBs | 05:29 | 62v | — |
| 49 | Wc patch | STeZ | 05:30 | — | 113vv |
| 50 | Wp v. br. oval | NTrZ | 05:36 | — | 116v |
| 51 | Dp veil | STeZ (s) | 05:37 | — | 117v |
| 52 | Wf rift | NEBZ | 05:39 | — | 118v |
| 53 | Df proj | Sedge NEBs | 05:41 | 70v | — |
| 54 | Wc NTB begins to be visible about here. | | | | |
| 54 | Wc v. br. oval | NTrZ | 05:47 | — | 123v |
| 55 | Wf v. br. oval | NTrZ | 06:00 | — | 131v |
| 56 | Wp rift | NEBZ | 06:02 | — | 132v |
| 57 | Wc rift | NEBZ | 06:14 | — | 139v |
| 58 | Df veil | STeZ (s) | 06:16 | — | 140v |
| 59 | Wc nodule | Sedge SSTB | 06:21 | — | 144v |
| 60 | Dp elong cond | Sedge SSTB | 06:25 | — | 146v |
| 61 | Wp dusky oval | Sedge NEBs | 06:28 | 98v | — |
| 62 | Dc elong cond. | Sedge SSTB | 06:35 | — | 152v |
| 63 | Wc dusky oval | Sedge NEBs | 06:37 | 104v | — |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Central Meridian Transit Observations

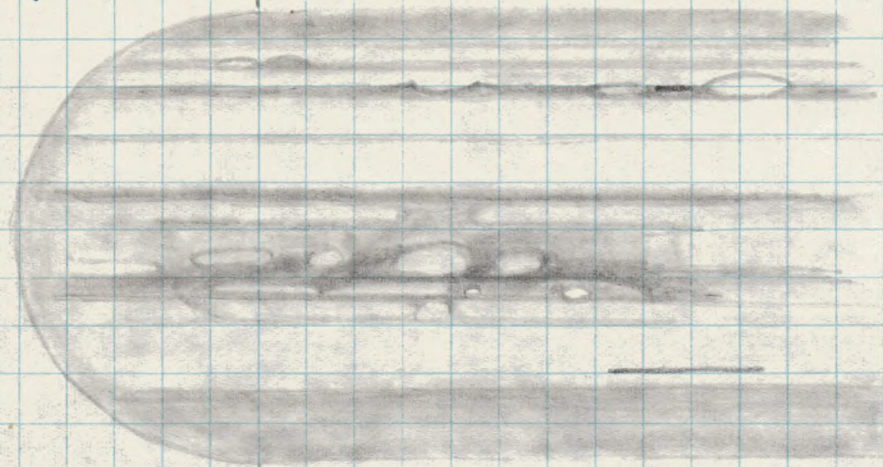
U.T.: Date Aug. 24 1962 Planet 2
 Telescope: Aperture 8" Type refl. Power 240
 Seeing (0 worst-10 best) 2 Transparency (0 worst-5 best) 3-2
 Observer G. Gaherty, Jr Mailing Address:
 Station Montreal
 R.A.S.C. Centre

| Serial No | Description of Feature | Location | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------|-------------------|------------------|------------------|
| | | | | I | II |
| 64 | Dp rod | NNTB | 04:09 | — | 214 ^v |
| 65 | Wp oval | S edge NEBs | 04:21 | 179 ^v | — |
| 66 | Dc rod | NNTB | 04:33 | — | 229 ^v |
| 67 | Wc oval | S edge NEBs | 04:35 | 187 ^v | — |
| 68 | Wp bay | S edge STB | 04:43 | — | 235 ^v |
| 69 | Wf oval | S edge NEBs | 04:52 | 198 ^v | — |
| 70 | Df rod | NNTB | 04:57 | — | 243 ^v |
| 71 | Wc bay | S edge STB | 04:59 | — | 244 ^v |

System I

150

199



System II

140

160

180

200

220

240

August 31 - 1962

UT. 02:53 to 05:45

8" Refl. 245x

Sec. 3-6 Tran. 4

K. R. Brasch

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date August 31 1962 Planet Jupiter

Period of Observation 02-53 To 05-45 U.T.

Telescope 8 inch Refl. Power 245x

Seeing (0 worst-10 best) 3-6 Transparency (0 worst-5 best) 4

Observer K. Branch

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------------------------------------|-------------------|------------------|------------------|
| | | | I | II |
| 92 | wf streak S edge NEB | 02:53 | 151 [✓] | - |
| 93 | Dc condensation on N SSTB | 03:01 | - | 146 [✓] |
| 94 | Dc patch S edge NEB | 03:04 | 158 [✓] | - |
| 95 | Df condensation on SSTB | 03:09 | - | 151 [✓] |
| 96 | wp small streak S edge NEB | 03:10 | 159 [✓] | - |
| 97 | wf streak N " " | 03:13 | - | 153 [✓] |
| 98 | wc small streak S " " | 03:14 | 164 [✓] | - |
| 99 | wf " " " " | 03:19 | 167 [✓] | - |
| 100 | wp oval " " " | 03:38 | 179 [✓] | - |
| 101 | wf aifl N " SEB ₂ | 03:41 | 181 [✓] | 175 |
| 102 | wp bay STB | 03:41 | - | 171 [✓] |
| 103 | wp oval N edge AEB ^{NTrZ} S edge NTB | 03:46 | - | 174 [✓] |
| 104 | wc bay STB | 03:53 | - | 177 [✓] |
| 105 | wc oval S edge NEB | 03:53 | 183 [✓] | - |
| 106 | wf oval N edge AEB ^{NTrZ} S edge NTB | 03:56 | - | 179 [✓] |
| 107 | wf oval S edge NEB | 04:04 | 184 [✓] | - |
| 108 | wc nodule N edge NEB | 04:06 | - | 185 [✓] |
| 109 | wf bay STB | 04:07 | - | 186 [✓] |
| 110 | wp streak S edge NEB | 04:12 | 204 [✓] | - |
| 111 | wf " " " " | 04:26 | 208 [✓] | - |

Central Meridian Transit

September 2, 1962. U.T. Jupiter

8" Reflector f 7.7, 220X.

Seeing: 5 Transparency: 4

Jim Low

55° 18' N; 77° 44' W.

Montreal Centre

RCAF Stn., Est. Whale L.
P.O. Box 6121, Montreal

| Serial No. | Description of Feature | Location | Transit Time U.T. | Longitude | |
|---------------|---------------------------|----------|----------------------|-----------|-------|
| | | | | I | II |
| 8 | Cond. c.D. | STB | 04:47 | N/A | 150.7 |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date SEPT. 7/8 1962 Planet JUPITER
 Period of Observation 03:15 - 05:50 U.T.
 Telescope 6 inch Refractor Power 220X
 Seeing (0 worst-10 best) 1-4 Transparency (0 worst-5 best) 1-3
 Observer G. WEDGE

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|--------------------------------------|-------------------|-----------|----|
| | | | I | II |
| 37 | F end Notch N edge N.E.B. | 03:22 | 282° | ✓ |
| 38 | C.W. oval S edge S.T.B. | 03:30 | 287° | ✓ |
| 39 | F end W. oval S edge S.T.B. | 03:39 | 292° | ✓ |
| 40 | P end Bay S edge S.T.B. | 03:56 | 301° | ✓ |
| 41 | C Bay S edge S.T.B. | 04:10 | 311° | ✓ |
| 42 | C DK cond S.T.B. | 04:14 | 313° | ✓ |
| 43 | F end Bay S edge S.T.B. | 04:18 | 316° | ✓ |
| 44 | P end large bot diff patch N.E.B. | 04:26 | 32° | ✓ |
| 45 | C low proj S edge S.T.B. | 04:27 | 321° | ✓ |
| 46 | C large bot diff patch N.E.B. | 04:42 | 43° | ✓ |
| 47 | C low proj S edge S.T.B. | 04:44 | 331° | ✓ |
| 48 | C ^{DK} cond S edge N.N.T.B. | 04:46 | 332° | ✓ |
| 49 | F end bot diff patch N.E.B. | 05:00 | 53° | ✓ |
| 50 | P end W oval S edge S.T.B. | 05:27 | 357° | ✓ |
| 51 | P end R.S. | 05:30 | 359° | ✓ |
| 52 | C R.S. | 05:49 | 11° | ✓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
 Montreal Centre

PLANETARY OBSERVATIONS
 Central Meridian Transits

Date Sept. 9, 1961 Planet Jupiter
 Period of Observation 03:24 - 04:02 U.T.
 Telescope 8" refl. Power 240
 Seeing (0 worst-10 best) 2 Transparency (0 worst-5 best) 3
 Observer G. Gaherty, Jr.

| Serial No | Description of Feature | | Transit Time U.T. | | Longitude | |
|-----------|------------------------|-------------|-------------------|----|-----------|----|
| | | | I | II | I | II |
| 72 | Wc oval | S edge STB | 03:27 | — | 75 | ✓ |
| 73 | Wp notch? | N edge NEBn | 03:32 | — | 78 | ✓ |
| 74 | Wf oval | S edge STB | 03:40 | — | 83 | ✓ |
| 75 | Wc notch? | N edge NEBn | 03:43 | — | 85 | ✓ |
| 76 | Wf notch? | N edge NEBn | 03:53 | — | 91 | ✓ |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
 Montreal Centre

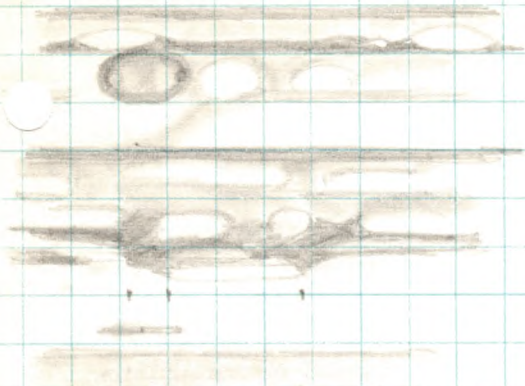
PLANETARY OBSERVATIONS
 Central Meridian Transits

Date Sept. 13, 1962 Planet Jupiter
 Period of Observation 04:31 - 04:43 U.T.
 Telescope 8" refl. Power 240
 Seeing (0 worst-10 best) 3-2 Transparency (0 worst-5 best) 3-0
 Observer G. Gaherty, Jr

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------------|-----------|-------------|
| | | | I | II |
| <u>77</u> | <u>Wp bay</u> | <u>04:35</u> | <u>—</u> | <u>358v</u> |
| <u>78</u> | <u>Dp RS</u> | <u>04:43</u> | <u>—</u> | <u>3v</u> |

System II

0 20 40 60 80



Sep. 13 / 1962 UT. 04:44 - 06:34
K. Brasch

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date Sep. 13 / 1962 Planet Jupiter

Period of Observation 04 44 - 06 34 U.T.

Telescope 8 inch Refl. Power 245,

Seeing (0 worst-10 best) ... 2-6 ... Transparency (0 worst-5 best) ... 0-4 ..

Observer

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|--------------------------|-------------------|-----------|------|
| | | | I | II |
| 123 | Wp oval STB | 04:44 | - | 3 ✓ |
| 124 | DP Red Spot | 04:47 | - | 5 ✓ |
| 125 | Df condensation in R.S. | 04:55 | - | 10 ✓ |
| 126 | Wf rift S edge NEB | 04:56 | 121 ✓ | - |
| 127 | Wf rift N " " | 04:56 | - | 11 |
| 128 | Wc oval STB | 04:58 | - | 12 ✓ |
| 129 | DC prync S edge NEB | 05:00 | 123 ✓ | - |
| 130 | DC Rod NNTB | 05:02 | - | 14 ✓ |
| 131 | DC Red Spot | 05:04 | - | 15 ✓ |
| 132 | Wf oval STB | 05:10 | - | 19 ✓ |
| 133 | Wf rift N edge NEB | 05:12 | - | 20 ✓ |
| 134 | Df Rod NNTB | 05:16 | - | 22 ✓ |
| 135 | DP condensation in R.S. | 05:19 | - | 24 ✓ |
| 136 | Df Red Spot | 05:23 | - | 25 ✓ |
| 137 | Wc rift S edge NEB | 05:25 | 138 ✓ | - |
| 138 | Wf " " " | 05:33 | 143 ✓ | - |
| 139 | Wc oval S TZ | 05:34 | - | 34 ✓ |
| 140 | Wf " " " | 05:43 | - | 38 ✓ |
| 141 | Wp small oval S edge NEB | 05:43 | 152 ✓ | - |
| 142 | Wp bay N " " | 05:55 | - | 46 ✓ |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date *Sept. 13 / 1962* Planet *Jupiter*
 Period of Observation *04:44* - *06:34* U.T.
 Telescope *8. inch Refl.* Power *245*
 Seeing (0 worst-10 best) .. *2-6* Transparency (0 worst-5 best) .. *0-4* ..
 Observer

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------------|-----------|----|
| | | | I | II |

| | | | | |
|------------|---------------------------|--------------|------------------------|-----------------------|
| <i>143</i> | <i>wf oval J edge NEB</i> | <i>05:58</i> | <i>188^v</i> | <i>-</i> |
| <i>144</i> | <i>wf oval STB</i> | <i>06:34</i> | <i>-</i> | <i>70^v</i> |

.....
 - *Observation hampered by clouds and very variable*
seeing from very poor to very good.

.....

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date Sept. 16, 1962 Planet Jupiter
Period of Observation 02:03 - 05:16 U.T.
Telescope 8" refl. Power 240
Seeing (0 worst-10 best) 3-4 Transparency (0 worst-5 best) 4
Observer G. Gaherty, Jr

| Serial No | Description of Feature | | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------|-------------------|------------------|------------------|
| | | | | I | II |
| 79 | Wp bay | S edge STB | 02:04 | — | 358 ^v |
| 80 | Dp RS | STrZ | 02:13 | — | 3 ^v |
| 81 | WF rift | NEBn | 02:18 | — | 6 ^v |
| 82 | Wc bay | S edge STB | 02:20 | — | 7 ^v |
| 83 | Dc elong cond | S edge NNTB | 02:28 | — | 12 ^v |
| 84 | Dc RS | STrZ | 02:32 | — | 15 ^v |
| 85 | WF bay | S edge STB | 02:34 | — | 16 ^v |
| 86 | Dp sect | NNTB | 02:40 | — | 19 ^v |
| 87 | Df RS | STrZ | 02:48 | — | 24 ^v |
| 88 | Wp bay | N edge NEBn | 03:06 | — | 35 ^v |
| 89 | Wc bay | N edge NEBn | 03:13 | — | 39 ^v |
| 90 | WF bay | N edge NEBn | 03:21 | — | 44 ^v |
| 91 | Wp rift | S edge NEBs | 03:26 | 180 ^v | — |
| 92 | Wc rift | S edge NEBs | 03:43 | 190 ^v | — |
| 93 | Dc fest | STeZ | 03:44 | — | 58 ^v |
| 94 | Wp oval | S edge STB | 03:51 | — | 62 ^v |
| 95 | Wp rift | EZs | 03:54 | 197 ^v | — |
| 96 | Df sect | NNTB | 03:55 | — | 65 ^v |
| 97 | WF rift | S edge NEBs | 04:01 | 201 ^v | — |
| 98 | Wc rift | EZs | 04:03 | 202 ^v | — |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date Sept. 16, 1962 Planet Jupiter
Period of Observation 02:03 - 05:16 U.T.
Telescope 8" refl. Power 240
Seeing (0 worst-10 best) 3-4 Transparency (0 worst-5 best) 4
Observer G. Gaherty, Jr

| Serial No | Description of Feature | | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------|-------------------|------------------|----------------------------|
| | | | | I | II |
| 99 | Wc oval | S edge STB | 04:05 | — | 71 \checkmark |
| 100 | Dc proj | S edge NEBs | 04:07 | 205 \checkmark | — |
| 101 | Wp v.b. oval | NTrZ | 04:08 | — | 73 \checkmark |
| 102 | WF rift | EZs | 04:09 | 206 \checkmark | — |
| 103 | Wc v.b. oval | NTrZ | 04:18 | — | 79 \checkmark |
| 104 | WF oval | S edge STB | 04:20 | — | 80 \checkmark |
| 105 | WF v.b. oval | NTrZ | 04:33 | — | 88 \checkmark |
| 106 | Wc module | STeZ | 04:39 | — | 91 $\checkmark\checkmark$ |
| 107 | Wp rift | NEBZ | 04:51? | — | 99 \checkmark |
| 108 | Wc rift | NEBZ | 04:57 | — | 102 \checkmark |
| 109 | Wp v.b. oval | N edge NEBn | 05:04 | — | 106 $\checkmark\checkmark$ |
| 110 | WF rift | NEBZ | 05:07 | — | 108 \checkmark |
| 111 | Wc v.b. oval | N edge NEBn | 05:15 | — | 113 $\checkmark\checkmark$ |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
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PLANETARY OBSERVATIONS
Central Meridian Transits

Date *Sept. 17 / 1962* Planet *Jupiter*
 Period of Observation *03:06* - *04:12* U.T.
 Telescope *8 inch Refl.* Power *245x*
 Seeing (0 worst-10 best) *1-3* Transparency (0 worst-5 best) *1-3*
 Observer

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------|---------------------|--------------|----------------|
| | | | I | II |
| 145 | <i>Wp oval area</i> | <i>NTr 2</i> | <i>03:06</i> | <i>185</i> ✓ |
| 146 | <i>Dc projection</i> | <i>S edge NTr 3</i> | <i>03:16</i> | <i>332</i> ✓ - |
| 147 | <i>Wf oval area</i> | <i>NTr 2</i> | <i>03:21</i> | <i>195</i> ✓ |
| 148 | <i>Wc streak</i> | <i>S edge NTr 3</i> | <i>03:32</i> | <i>341</i> ✓ - |
| 149 | <i>Dc Rod</i> | <i>NTr 3</i> | <i>03:36</i> | <i>204</i> ✓ |
| 150 | <i>Wf streak</i> | <i>S edge NTr 3</i> | <i>03:42</i> | <i>347</i> ✓ - |
| 151 | <i>Wf light section of</i> | <i>NTr 2</i> | <i>03:44</i> | <i>208</i> ✓ |
| 152 | <i>Dc Rod</i> | <i>NTr 3</i> | <i>04:06</i> | <i>222</i> ✓ |
| 153 | <i>Wp oval</i> | <i>STB</i> | <i>04:12</i> | <i>225</i> ✓ |

Note - (1) atmospheric conditions were very poor and some of the timings may not be too accurate.
 (2) Rod in NTr 3 seemed less dark and less pencil line in appearance than when previously seen, this may be due to poor seeing.

PLANETARY OBSERVATIONS
 Central Meridian Transits

Date *September 22 / 1962* Planet *Jupiter*
 Period of Observation *01:15 - 03:46* U.T.
 Telescope *8 inch Refle.* Power *245x*
 Seeing (0 worst-10 best) *sec notes* Transparency (0 worst-5 best) *notes*
 Observer

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------------------------------------------|-------------------|--------------|--------------|
| | | | I | II |
| 154 | <i>Wf. rift S edge NEB</i> | <i>01:15</i> | <i>328 ✓</i> | <i>—</i> |
| 155 | <i>Wp. large white area S edge NEB & N SEB_n</i> | <i>01:42</i> | <i>344 ✓</i> | <i>—</i> |
| 156 | <i>Wc. " " " " " " " "</i> | <i>01:51</i> | <i>350 ✓</i> | <i>—</i> |
| 157 | <i>Dp. dark column of NTAZ</i> | <i>01:58</i> | <i>—</i> | <i>176 ✓</i> |
| 158 | <i>Wf. l. white area S. NEB & N SEB_n</i> | <i>02:03</i> | <i>1 ✓</i> | <i>—</i> |
| 159 | <i>Wc. small oval in NTAZ</i> | <i>02:15</i> | <i>—</i> | <i>187 ✓</i> |
| 160 | <i>Wc. small streak in NEB</i> | <i>02:17</i> | <i>6 ✓</i> | <i>—</i> |
| 161 | <i>Dc. column between 2 ovals NTAZ</i> | <i>02:24</i> | <i>—</i> | <i>192 ✓</i> |
| 162 | <i>Wp. rift N edge SEB_n</i> | <i>02:25</i> | <i>11 ✓</i> | <i>192</i> |
| 163 | <i>Wc. small oval in NTAZ</i> | <i>02:32</i> | <i>—</i> | <i>197 ✓</i> |
| 164 | <i>Wp. rift in NEB</i> | <i>02:36</i> | <i>17 ✓</i> | <i>—</i> |
| 165 | <i>Wf. oval in NTAZ</i> | <i>02:39</i> | <i>—</i> | <i>201 ✓</i> |
| 166 | <i>Wf. rift N edge SEB_n</i> | <i>02:42</i> | <i>21 ✓</i> | <i>203</i> |
| 167 | <i>Dp. low projection S edge STB</i> | <i>02:44</i> | <i>—</i> | <i>204 ✓</i> |
| 168 | <i>Dp. rod in NNTB</i> | <i>02:45</i> | <i>—</i> | <i>205 ✓</i> |
| 169 | <i>Wf. rift in NEB</i> | <i>02:50</i> | <i>26 ✓</i> | <i>—</i> |
| 170 | <i>Dp. rod S edge STB</i> | <i>02:51</i> | <i>—</i> | <i>208 ✓</i> |
| 171 | <i>Dc. rod in NNTB</i> | <i>03:09</i> | <i>—</i> | <i>219 ✓</i> |
| 172 | <i>Wp. oval S edge STB</i> | <i>03:14</i> | <i>—</i> | <i>222 ✓</i> |
| 173 | <i>Wp. oval area S NEB & N SEB_n</i> | <i>03:17</i> | <i>32 ✓</i> | <i>—</i> |

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date *September 22/1962* Planet *Jupiter*
 Period of Observation *01:15 - 03:46* U.T.
 Telescope *8 inch Refl.* Power *245x*
 Seeing (0 worst-10 best) *notes* Transparency (0 worst-5 best) *9.5*
 Observer

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|------------------------|-------------------|-----------|----|
| | | | I | II |

| | | | | |
|-----|---------------------------------------|--------------|-------------|------------------|
| 174 | <i>Wc oval S edge S7B</i> | <i>03:27</i> | - | <i>229</i> ✓ |
| 175 | <i>Wc oval area S NEB & N SEB</i> | <i>03:32</i> | <i>42</i> ✓ | - |
| 176 | <i>Wf oval S edge S7B</i> | <i>03:40</i> | - | 238 ✓ |
| 177 | <i>Df Red in N47B</i> | <i>03:44</i> | - | <i>240</i> ✓ |
| 178 | <i>Wf oval area S NEB & N SEB</i> | <i>03:46</i> | <i>60</i> ✓ | - |

Notes - *Transits 154 to 158 - See 1-2 Trans 4*
159 to 170 - See 3-4 Trans 4
171 to 178 - See 2-3 Trans 2-3 Very busy

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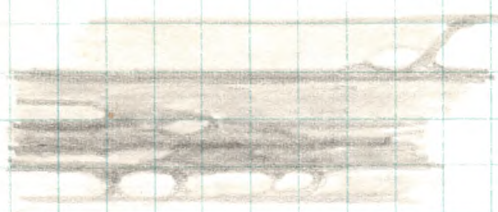
61.6
~~46.9~~
8.7
61.6
~~61.0~~
123

PLANETARY OBSERVATIONS
Central Meridian Transits

Date October 2 - 1962 Planet Jupiter
 Period of Observation 01:17 - 02:00 U.T.
 Telescope 8 inch Refl Power 245
 Seeing (0 worst-10 best) 2 Transparency (0 worst-5 best) 3-4
 Observer K. Branch

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|----------------------------|-------------------|-----------|-------|
| | | | I | II |
| 179 | Wp oval S edge STB | 01:17 | - | 215 ✓ |
| 180 | Dc Rod NNTB | 01:22 | - | 218 ✓ |
| 181 | Wc oval S edge STB | 01:28 | - | 221 ✓ |
| 182 | Dp base feature S edge STB | 01:40 | 123 | 225 |
| 183 | Wf oval S edge STB | 01:44 | - | 231 ✓ |
| 184 | Df Rod NNTB | 01:49 | - | 234 ✓ |
| 185 | Df base feature S edge STB | 01:54 | 129 | 235 |
| 186 | Dp head " " " " | 01:54 | 131 | 238 |
| 187 | Df " " " " | 02:00 | 135 | 241 |

Timing uncertain due to extremely poor seeing



140 160 180 200 220

System II

SEBS Oct 4/1962
SEBn U.T. 01:26 - 03:00
NEB
NTRZ 8" Refl. 245x
NNTB
Sec 2-5 Tr. 2-4
K. Brasch

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PLANETARY OBSERVATIONS
Central Meridian Transits

Date *October 4 - 1962* Planet *Jupiter*
 Period of Observation *01.26 - 03.00* U.T.
 Telescope *8" Refl.* Power *245*
 Seeing (0 worst-10 best) *2.5* Transparency (0 worst-5 best) *3.4*
 Observer *K. Braach*

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|---------------------------------------|-------------------|------------------------|------------------------|
| | | | I | II |
| 193 | <i>Wf aift S edge NEB</i> | <i>01.26</i> | <i>70^v</i> | <i>-</i> |
| 194 | <i>Wp bay NTAZ</i> | <i>01.28</i> | <i>-</i> | <i>162^v</i> |
| 195 | <i>Wc " " "</i> | <i>01.40</i> | <i>-</i> | <i>169^v</i> |
| 196 | <i>Wp aift in NEB</i> | <i>01.42</i> | <i>83^v</i> | <i>-</i> |
| 197 | <i>Wf light section of N edge NEB</i> | <i>01.47</i> | <i>-</i> | <i>173^v</i> |
| 198 | <i>Wf bay NTAZ</i> | <i>01.51</i> | <i>-</i> | <i>175^v</i> |
| 199 | <i>Wf aift in NEB</i> | <i>02.00</i> | <i>91^v</i> | <i>-</i> |
| 200 | <i>Wc oval NTAZ</i> | <i>02.31</i> | <i>-</i> | <i>200^v</i> |
| 201 | <i>Wc small aift S edge NEB</i> | <i>02.34</i> | <i>112^v</i> | <i>-</i> |
| 202 | <i>Wf oval NTAZ</i> | <i>02.35</i> | <i>-</i> | <i>202^v</i> |
| 203 | <i>Dp rod NNTB</i> | <i>02.38</i> | <i>-</i> | <i>204^v</i> |
| 204 | <i>Wp oval S edge STB</i> | <i>02.50</i> | <i>-</i> | <i>211^v</i> |
| 205 | <i>Wp oval S edge SEBn</i> | <i>02.58</i> | <i>127^v</i> | <i>216</i> |
| 206 | <i>Dc roll NNTB</i> | <i>03.00</i> | <i>-</i> | <i>217^v</i> |

Seeing very variable, some timings may be less accurate.

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PLANETARY OBSERVATIONS
Central Meridian Transits

Date .. OCT .. 5 .. (U.T. DATE) Planet .. JUPITER ..
 Period of Observation .. 01:43 - 03:30 .. U.T.
 Telescope .. 8" Reflector .. Power .. 250 ..
 Seeing (0 worst-10 best) .. 2-4 .. Transparency (0 worst-5 best) .. 2 ..
 Observer .. G. WEDGE ..

| Serial No | Description of Feature | | Transit Time U.T. | Longitude | |
|-----------|------------------------|--------|-------------------|-----------|------------|
| | | | | I | II |
| 66 | P end W oval | S edge | STB | 01:53 | 327°V |
| 67 | C .. W oval | S edge | STB | 01:58 | 330°V |
| 68 | F end W oval | S edge | STB | 02:04 | 334°V |
| 69 | C Long streak | N edge | NEB | 02:09 | 255° 337°V |
| 70 | P end L. W oval | S edge | STB | 02:22 | 345°V |
| 71 | P end Streak | | EZ | 02:26 | 264°V |
| 72 | F end Long streak | N edge | NEB | 02:30 | 267° 350°V |
| 73 | C streak | | EZ | 02:35 | 270°V |
| 74 | C L W oval | S edge | STB | 02:37 | 354°V |
| 75 | F end streak | | EZ | 02:45 | 276°V |
| 76 | P end R. S. | | | 02:53 | 3°V |
| 77 | F end L. W oval | S edge | STB | 02:57 | 7°V |
| 78 | C R. S. | | | 03:09 | 13°V |
| 79 | F end R. S. | | | 03:25 | 23°V |

Long streak was actually within the NEB

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PLANETARY OBSERVATIONS
Central Meridian Transits

Date OCTOBER 25/26 1962 Planet JUPITER
 Period of Observation 00:45 - 01:25 U.T.
 Telescope 8 inch Reflector Power 250
 Seeing (0 worst-10 best) 1-3 Transparency (0 worst-5 best) 1
 Observer G. WEDGE

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|-----------|-------------------------|-------------------|-----------|----|
| | | | I | II |
| 80 | P. end W oval EZ | 00:55 | 284° | v |
| 81 | C W oval EZ | 01:02 | 289° | v |
| 82 | F end W oval EZ | 01:10 | 293° | v |
| 83 | F end W oval S edge STB | 01:16 | 220° | v |

Note

Observations discontinued because of clouds.
 Seeing was rated at 1 most of the time.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
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PLANETARY OBSERVATIONS
Central Meridian Transits

Date December 2 Planet Jupiter
 Period of Observation 22:30 - 23:20 U.T.
 Telescope 8 inch Power 245x
 Seeing (0 worst-10 best) ... 2 Transparency (0 worst-5 best) ... 3
 Observer

| Serial No | Description of Feature | Transit Time U.T. | Longitude | |
|----------------|-------------------------------------------------------------|-------------------|--------------|-----------|
| | | | I | II |
| 206 | Dp. dusky section N edge NEB | 22:30 | <u>71</u> | <u>65</u> |
| 207 | W.C. rift in SEB _n | 22:35 | <u>74</u> ✓ | 68 |
| 208 | Dp. base feature S edge SEB _n | 22:42 | <u>78</u> ✓ | 72 |
| 209 | Wp. dusky oval region in STaZ | 22:45 | - | 74✓ |
| 210 | Df. base feature S edge SEB _n | 22:46 | <u>81</u> ✓ | 75 |
| 211 | Wc. bright oval between SEB _n & SEB _s | 22:52 | <u>85</u> ✓ | 77✓ |
| 212 | Wf. " " " " " " | 23:06 | <u>93</u> ✓ | 87✓ |
| 213 | Wp. " " " " " " | 23:13 | <u>97</u> ✓ | 91✓ |
| 214 | Wc. " " " " " " | 23:20 | <u>102</u> ✓ | 95✓ |

215

Conditions very poor and timing not too reliable

215
178
37