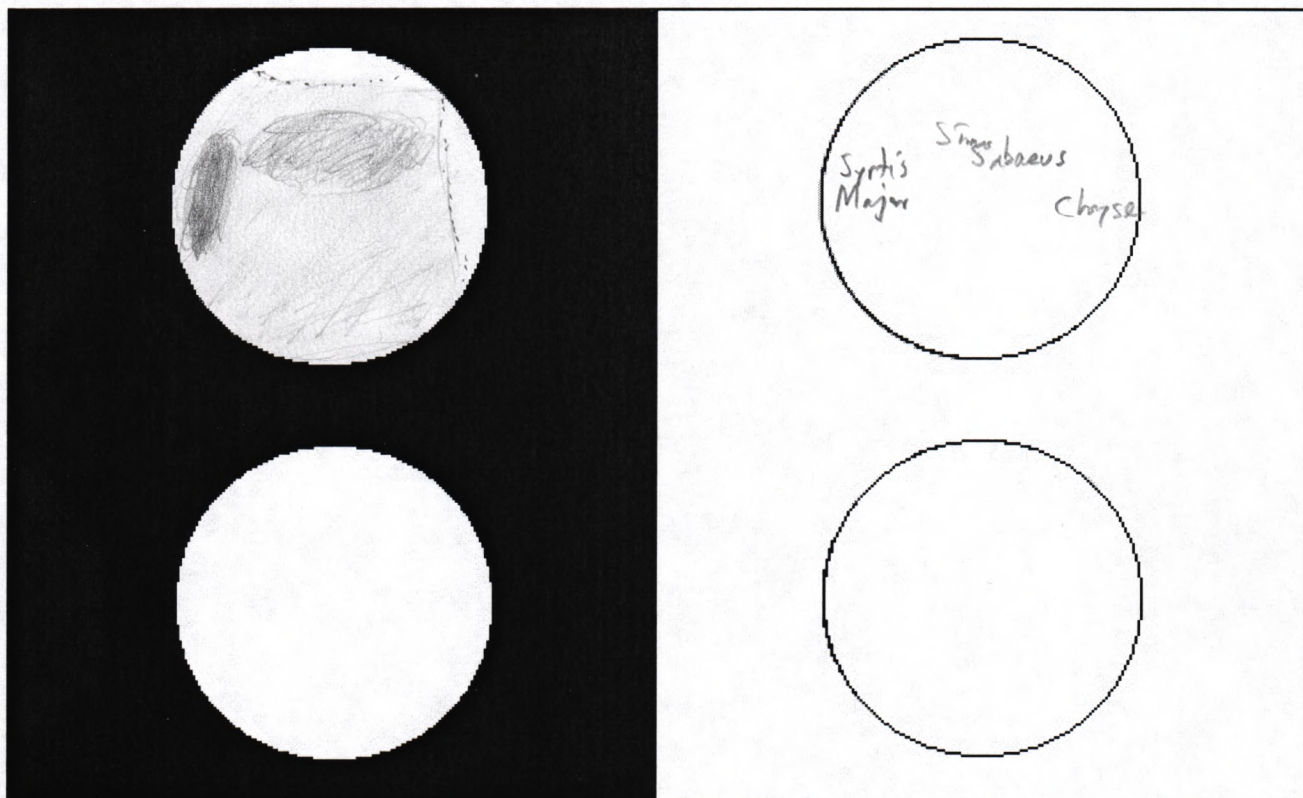


# A.L.P.O. Mars Section Observation

5

P



Top: Time (UT): 09:15 Bottom: Time (UT): \_\_\_\_\_  
 CM: 324° °W CM: \_\_\_\_\_ °W  
 Filter: green orange (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-05-03 Observer: \_\_\_\_\_  
 Time (UT): 09:00 - 09:30 Address: \_\_\_\_\_  
 CM: 321° °W - 328° °W  
 D<sub>1</sub>: \_\_\_\_\_ ° - L<sub>1</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k(phase): \_\_\_\_\_  
 Telescope: 25cm RL @ 4.5 (in./cm.; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 190 x \_\_\_\_\_ x \_\_\_\_\_  
 Filters: W21 W56 (W/S)  
 Seeing (0-10): 3 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): hazy (Clear / Hazy / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

## Notes

Dark area on p. limb visible even in 13cm RL @ 162x. Shedding on  
S half of dish much clearer in 25cm RL. Orange filter enhanced  
dark areas, green filter enhanced S polar region and bright area on f  
limb

(Continue on back if needed)

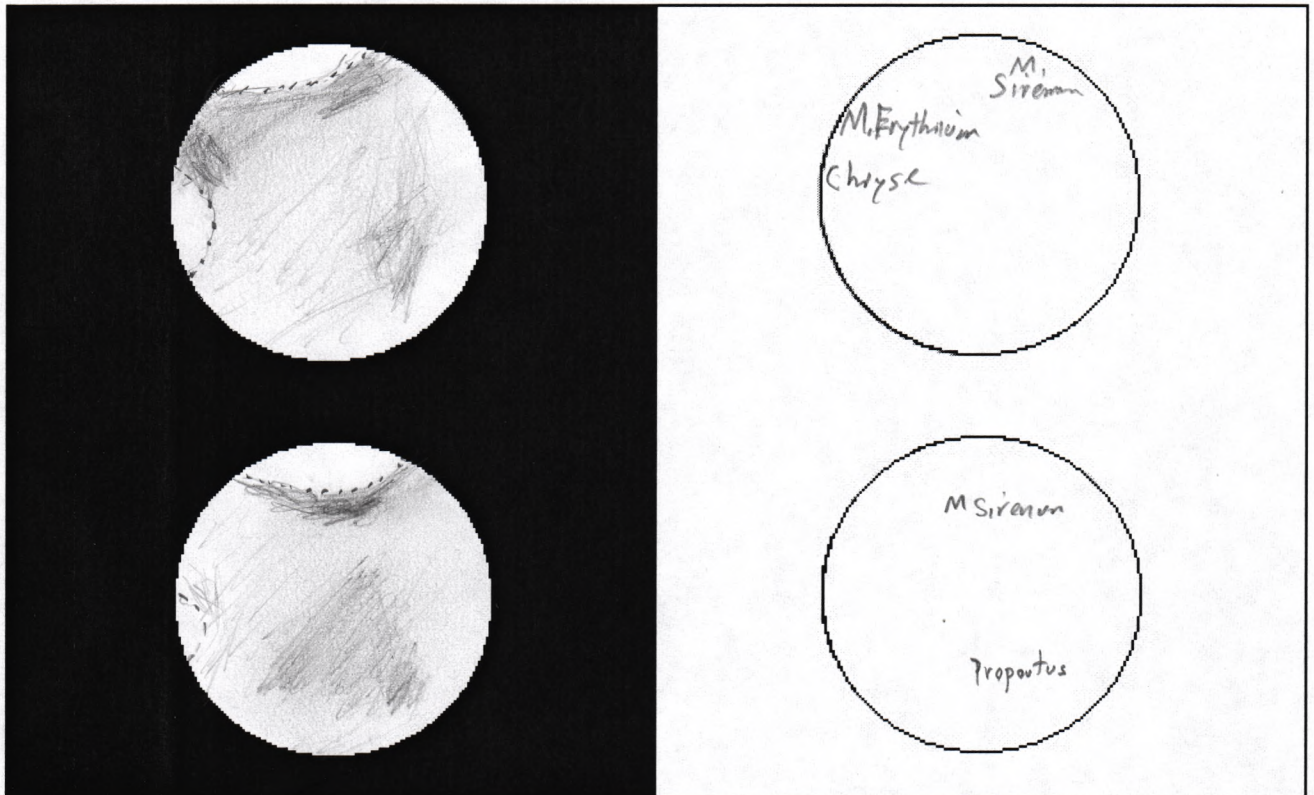


# A.L.P.O. Mars Section Observation

S

P

P



Top: Time (UT): 05:15 - 05:25 Bottom: Time (UT): 06:15 - 06:25  
 CM: 122 °W CM: 135 °W  
 Filter: none (W/S) Filter: none (W/S)

Date (UT): 2001-05-19 Observer: \_\_\_\_\_  
 Time (UT): 05:15 - 06:25 Address: \_\_\_\_\_  
 CM: 120 °W - 137 °W  
 D<sub>c</sub>: \_\_\_\_\_ ° L<sub>c</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia ("): \_\_\_\_\_ k(phase): \_\_\_\_\_  
 Telescope: 15 f/6 MN (in / cm) ; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 150 x x x binoculars  
 Filters: none (W/S)  
 Seeing (0-10): 2-3 Antoniadi (L-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

Notes

White area on p limb with dark area S of it. Fairly sharp border  
on S polar region.

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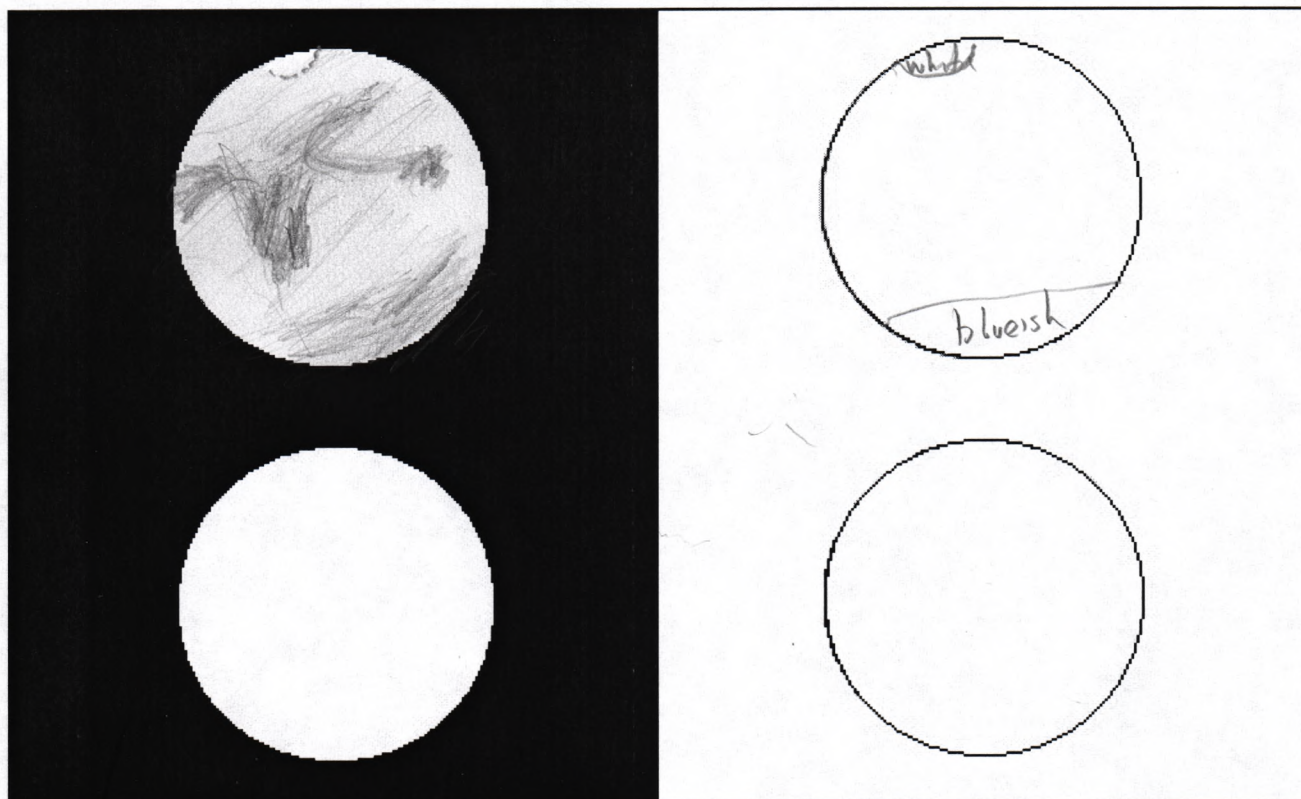


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(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 04:05 - 04:15 Bottom: Time (UT): \_\_\_\_\_  
 CM: 311-313 °W CM: \_\_\_\_\_ °W  
 Filter: none (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-06-05 Observer: \_\_\_\_\_  
 Time (UT): 04:05 - 04:15 Address: \_\_\_\_\_  
 CM: 311 °W - 313 °W  
 D<sub>s</sub>: \_\_\_\_\_ ° L<sub>s</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k(phase): \_\_\_\_\_  
 Telescope: 15cm f/6.8 (in/cm; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 225x x \_\_\_\_\_ x \_\_\_\_\_ x  
 Filters: none binoculars (W/S)  
 Seeing (0-10): 3-4 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): 4 (Clear Haze/ Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

## Notes

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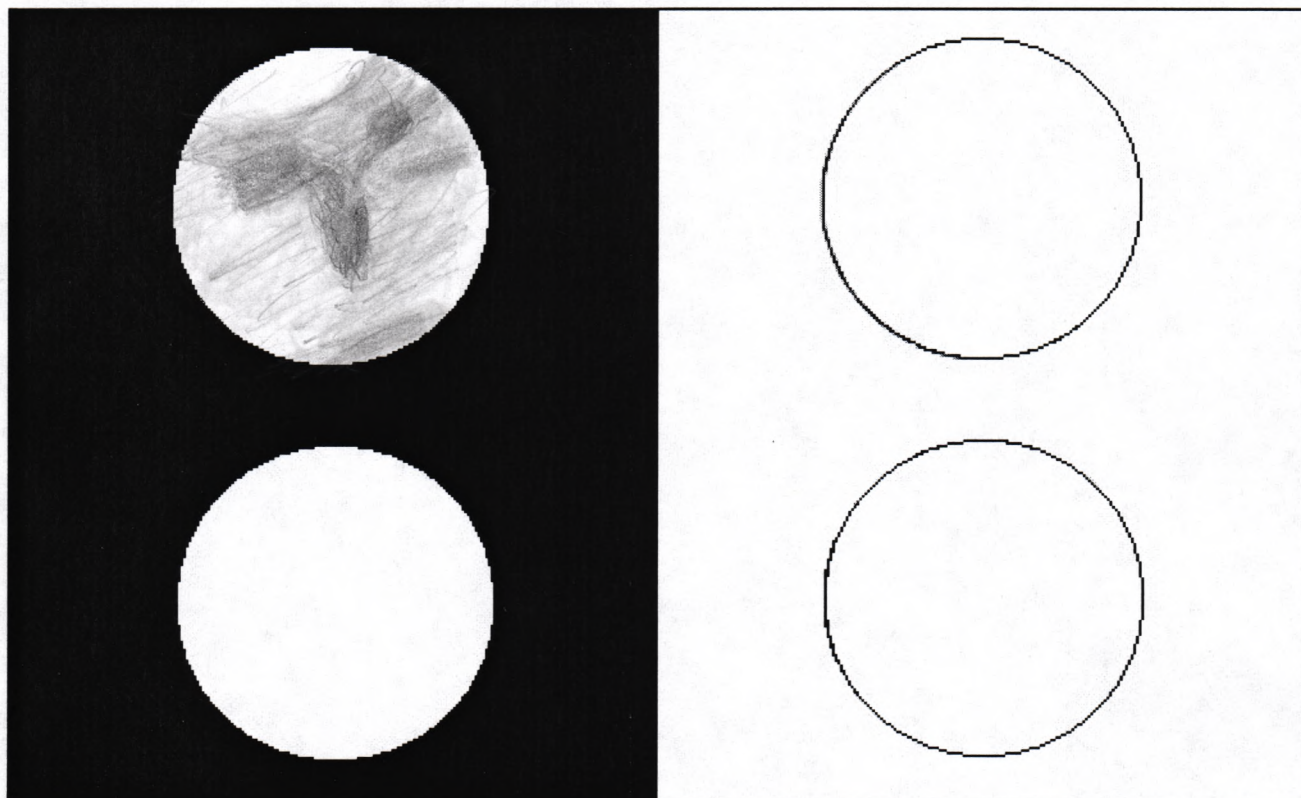
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(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 03:58-04:13 Bottom: Time (UT): \_\_\_\_\_  
 CM: 283-287 °W CM: \_\_\_\_\_ °W  
 Filter: none (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-06-08 Observer: \_\_\_\_\_  
 Time (UT): 03:58-04:13 Address: \_\_\_\_\_  
 CM: 283 °W - 287 °W  
 D<sub>1</sub>: \_\_\_\_\_ ° - L<sub>1</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k(phase): \_\_\_\_\_  
 Telescope: 24cm f/4.5 (in./cm): RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 190 x binocular x \_\_\_\_\_ x  
 Filters: none (W/S)  
 Seeing (0-10): 3-4 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): 3 (Clear Haze/ Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

## Notes

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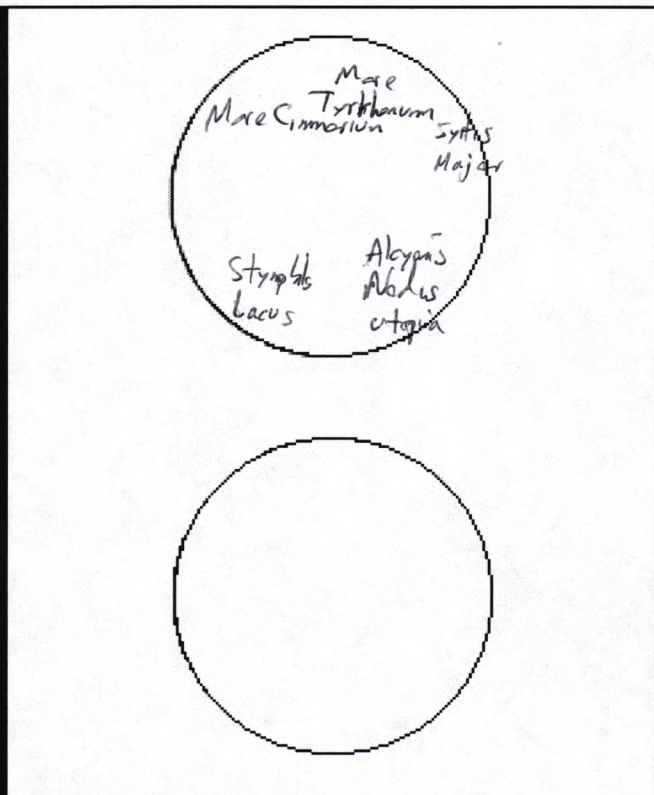
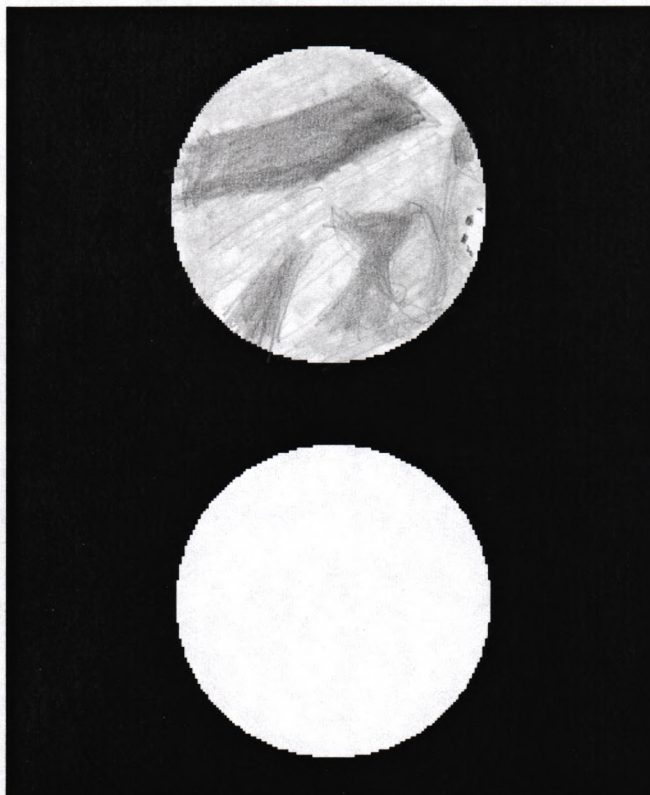
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(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 03:33-03:44 Bottom: Time (UT): \_\_\_\_\_  
 CM: 232°-235° °W CM: \_\_\_\_\_ °W  
 Filter: \_\_\_\_\_ (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-06-13 Observer: \_\_\_\_\_  
 Time (UT): 03:33 - 03:44 Address: \_\_\_\_\_  
 CM: 232 °W - 235 °W  
 D<sub>s</sub>: \_\_\_\_\_ ° - L<sub>s</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15cm f/6mm (in/cm) ; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 150x x binocular x \_\_\_\_\_ x  
 Filters: none (W/S)  
 Seeing (0-10): 6 Arnoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): 2 (Clear / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

Notes

Haze made Mars so dim I had to drop to 150x

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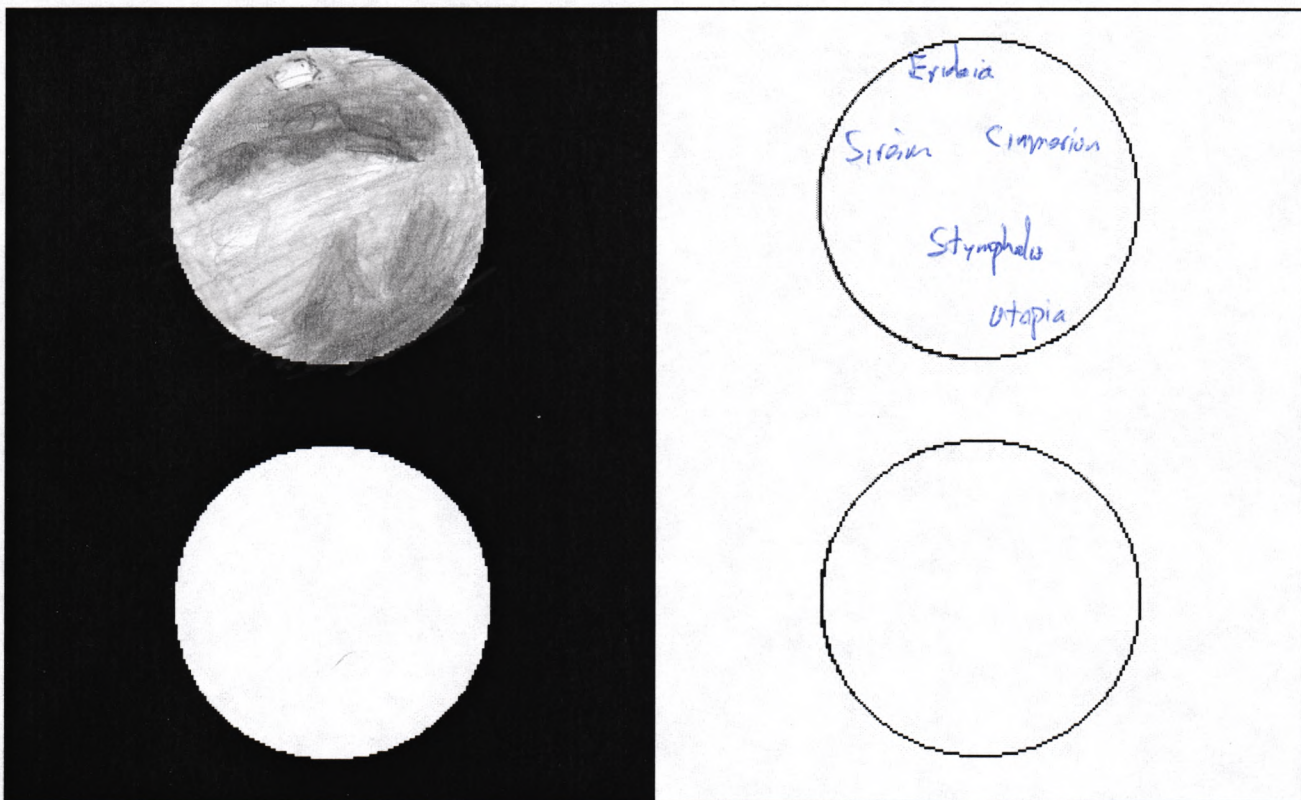
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# A.L.P.O. Mars Section Observation



Top: Time (UT): 03:40 03:49 Bottom: Time (UT): \_\_\_\_\_  
 CM: 199°-201° °W CM: \_\_\_\_\_ °W  
 Filter: none (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-06-17 Observer: \_\_\_\_\_  
 Time (UT): 03:40-03:49 Address: \_\_\_\_\_  
 CM: 199 °W - 201 °W  
 D<sub>s</sub>: \_\_\_\_\_ ° - L<sub>s</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15cmmm f/6 (in./cm.; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 225 x binoculars x  
 Filters: none (W/S)  
 Seeing (0-10): 4 Anomadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clean / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

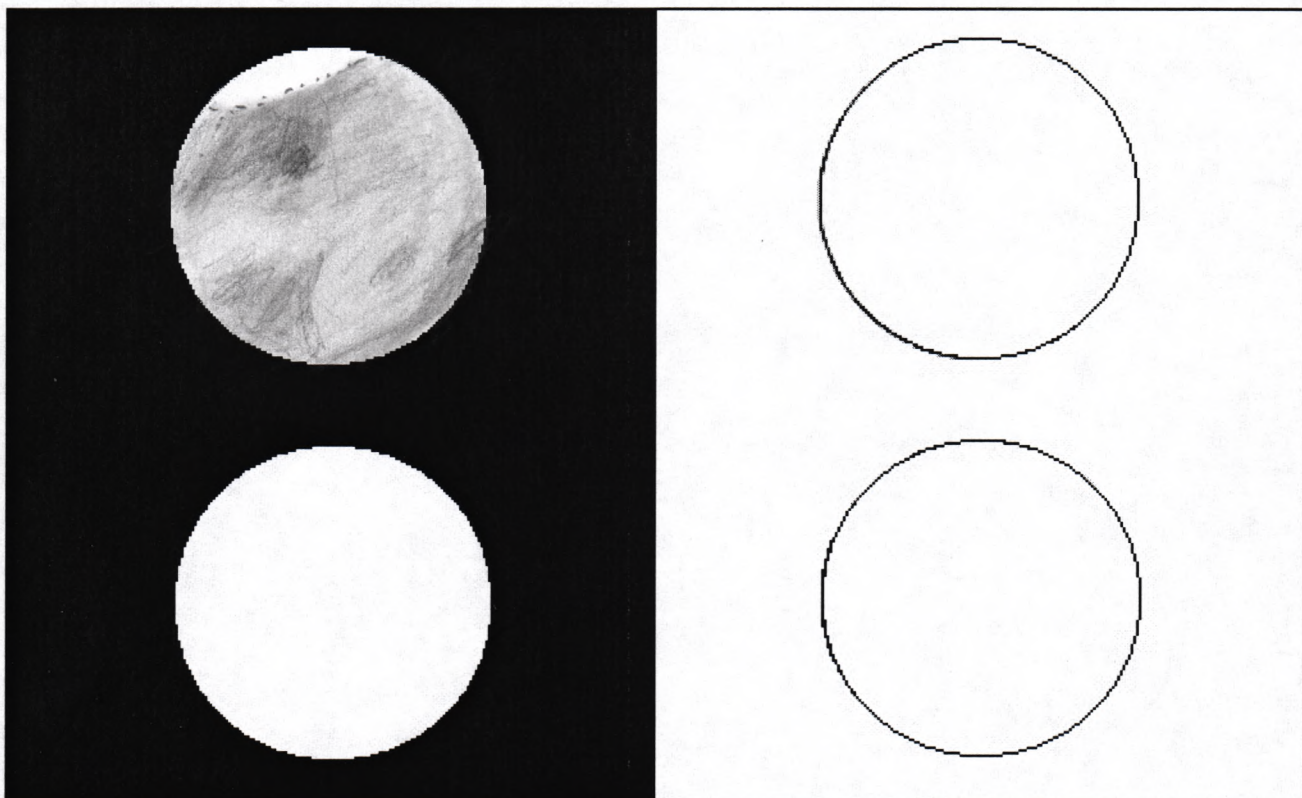
## Notes

Eridania clearly seen as whiter than rest of disk.

(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 03:05 - 03:15 Bottom: Time (UT): \_\_\_\_\_  
 CM: 101 - 104 °W CM: \_\_\_\_\_ °W  
 Filter: none (W/S) Filter: \_\_\_\_\_ (W/S)

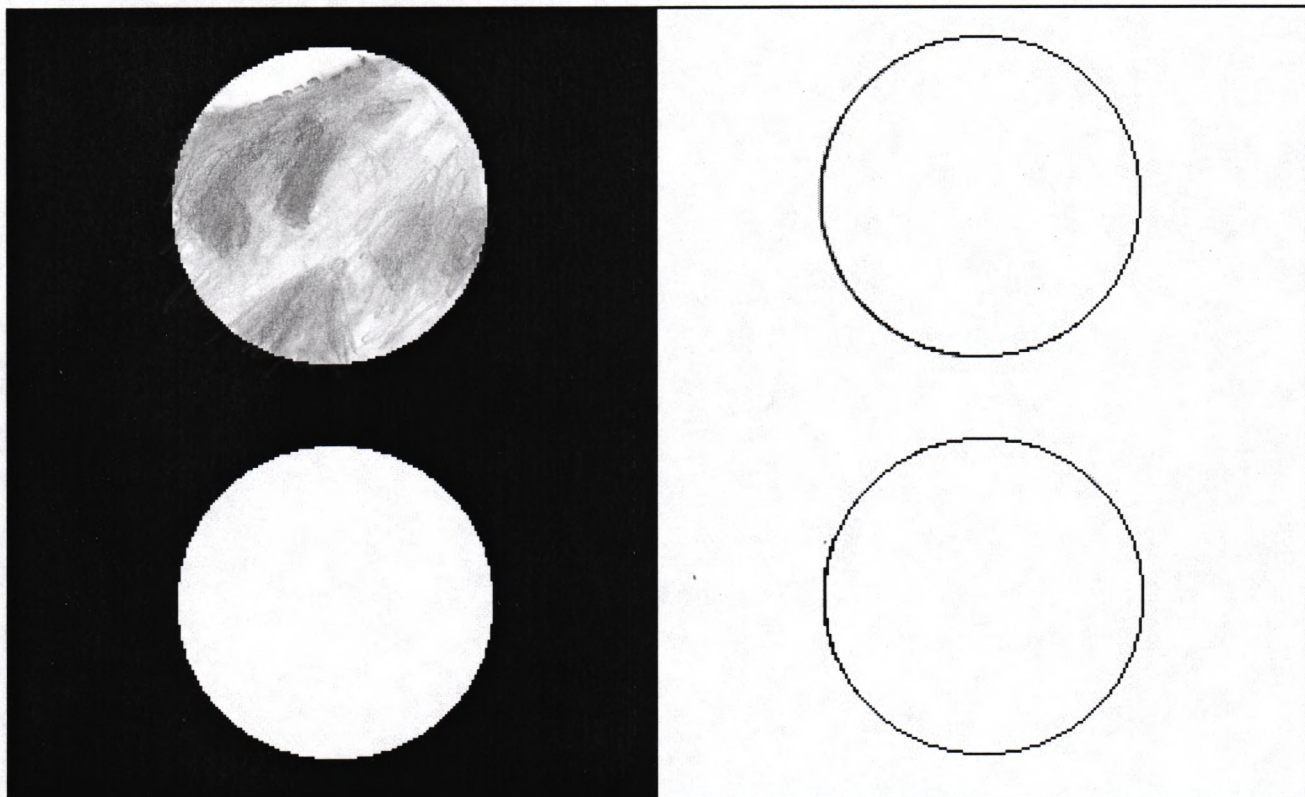
Date (UT): 2001-06-27 Observer: \_\_\_\_\_  
 Time (UT): 0305 - 0315 Address: \_\_\_\_\_  
 CM: 101 °W - 104 °W  
 D<sub>s</sub>: \_\_\_\_\_ ° - L<sub>s</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15cm f/6 mm (in. / cm. ; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 290 x bino vian x \_\_\_\_\_  
 Filters: none (W/S)  
 Seeing (0-10): 6 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

Notes  
 Bright S polar hood visible, as last night, but not seen earlier.  
 Atmosphere full of haze & smog but very steady

(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 02:45 - 02:52 Bottom: Time (UT): \_\_\_\_\_  
 CM: 88-89 °W CM: \_\_\_\_\_ °W  
 Filter: n/a (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-06-28 Observer: \_\_\_\_\_  
 Time (UT): 02:45-02:52 Address: \_\_\_\_\_  
 CM: 088 °W - 0289 °W  
 D<sub>s</sub>: \_\_\_\_\_ ° - L<sub>s</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15 cm f/6mm (mm/cm; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 225 x binoculars \_\_\_\_\_ x  
 Filters: none (W/S)  
 Seeing (0-10): 4 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear / Hazy / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

Notes

Seeing not as good as last night. Blue gray shadow on S limb,

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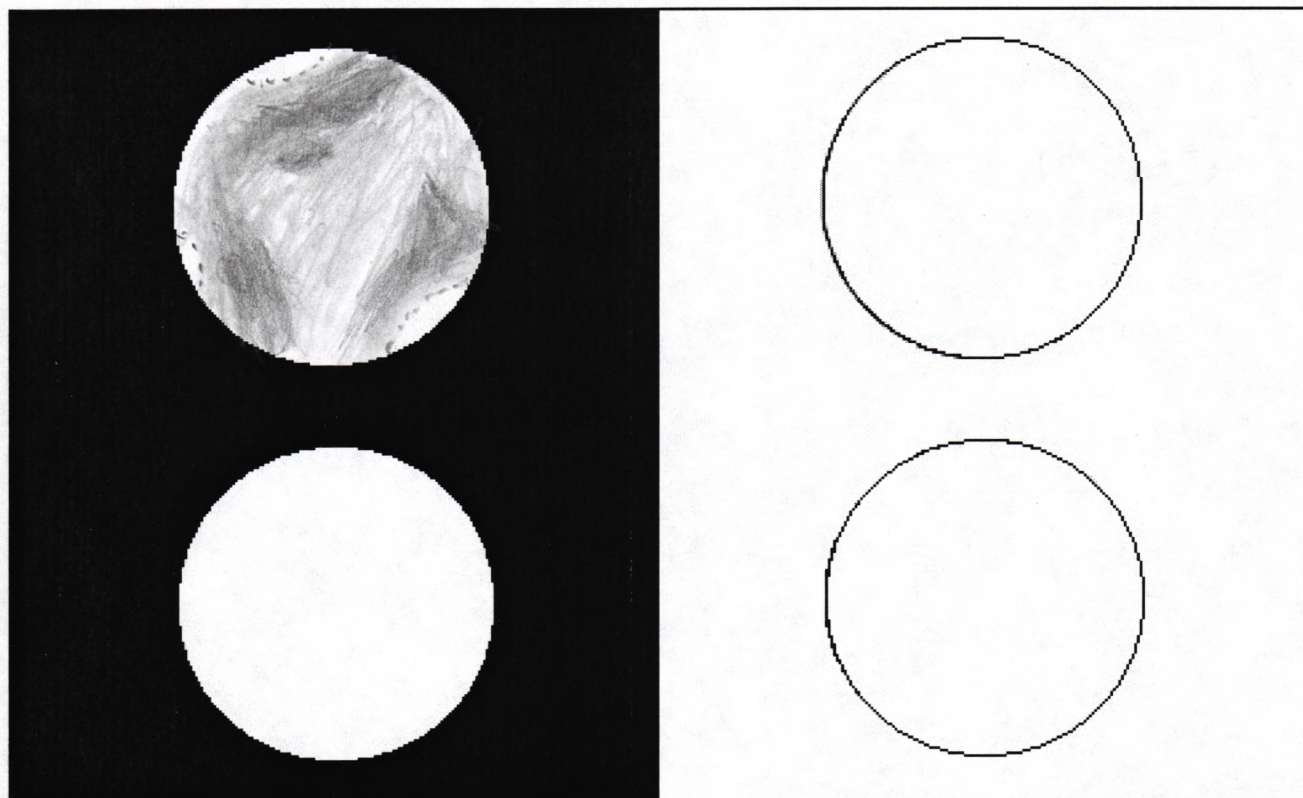
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(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 01:47 - 01:55 Bottom: Time (UT): \_\_\_\_\_  
 CM: 335-337 °W CM: \_\_\_\_\_ °W  
 Filter: \_\_\_\_\_ (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-07-09 Observer: \_\_\_\_\_  
 Time (UT): 01:47 - 01:55 Address: \_\_\_\_\_  
 CM: 335 °W - 337 °W  
 D<sub>s</sub>: \_\_\_\_\_ ° - L<sub>s</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15cm f/6MN (in./cm.; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 150 x bino x  
 Filters: n/a (W/S)  
 Seeing (0-10): 4 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

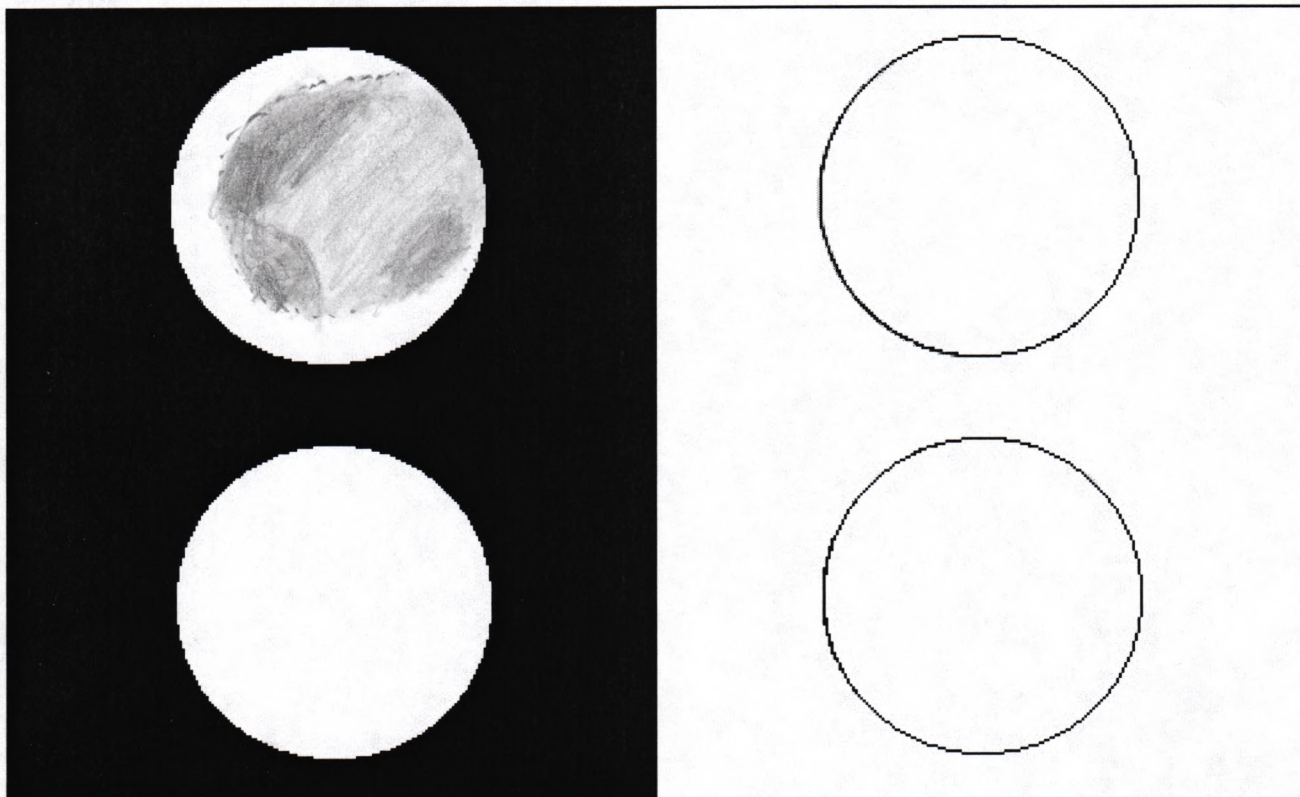
Notes

Dish appears pale yellow - reddish colour is gone. Markings  
 very low contrast.

(Continue on back if needed)



# A.L.P.O. Mars Section Observation



**Top:** Time (UT): 01:55 - 02:05      **Bottom:** Time (UT): \_\_\_\_\_  
 CM: 328° - 331° °W      CM: \_\_\_\_\_ °W  
 Filter: none (W/S)      Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-07-10      Observer: \_\_\_\_\_  
 Time (UT): 01:55 - 02:05      Address: \_\_\_\_\_  
 CM: 328° °W - 331 °W      Observing Station: \_\_\_\_\_  
 D<sub>E</sub>: \_\_\_\_\_ ° - L<sub>S</sub>: \_\_\_\_\_ °      E-mail (optional): \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15cm f/6mm (in./cm.; RL, RR, SC)      Magnification: 225 x binoculars x  
 Filters: none (W/S)  
 Seeing (0-10): 4-2      Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clean / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

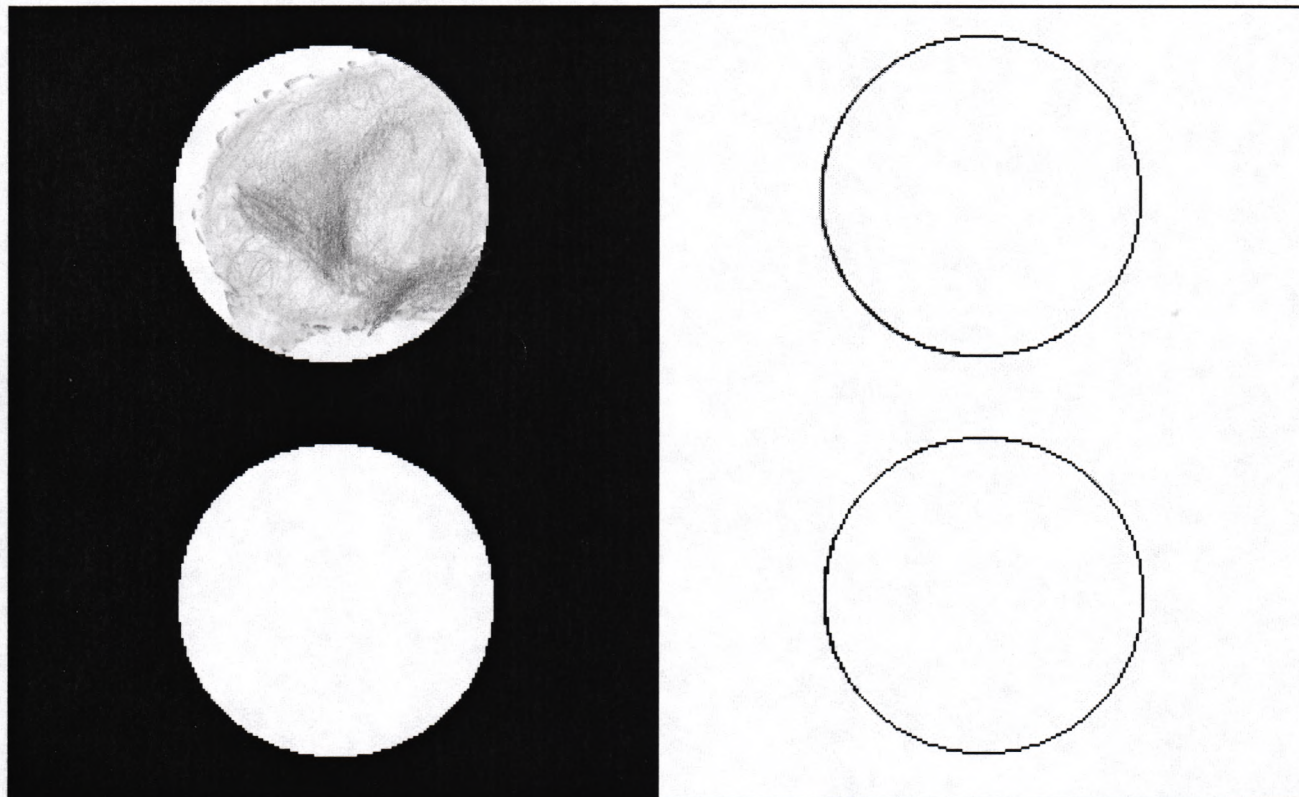
Notes

N, S, & P limb bright, forming a "C". Markings very indistinct. Seeing suddenly deteriorated half way through drawing. Colour pale yellow, grey on limbs, with hint of orange

(Continue on back if needed)



# A.L.P.O. Mars Section Observation



**Top:** Time (UT): 01:45 - 01:55      **Bottom:** Time (UT): \_\_\_\_\_  
 CM: 299 - 301 °W      CM: \_\_\_\_\_ °W  
 Filter: none (W/S)      Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-07-13      Observer: \_\_\_\_\_  
 Time (UT): 01:45 - 01:55      Address: \_\_\_\_\_  
 CM: 299 °W - 301 °W      Observing Station: \_\_\_\_\_  
 D<sub>E</sub>: \_\_\_\_\_ ° - L<sub>S</sub>: \_\_\_\_\_ °  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15 f/6 mm (in / cm; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 150 x binocular x \_\_\_\_\_ x  
 Filters: none (W/S)  
 Seeing (0-10): 4-5      Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

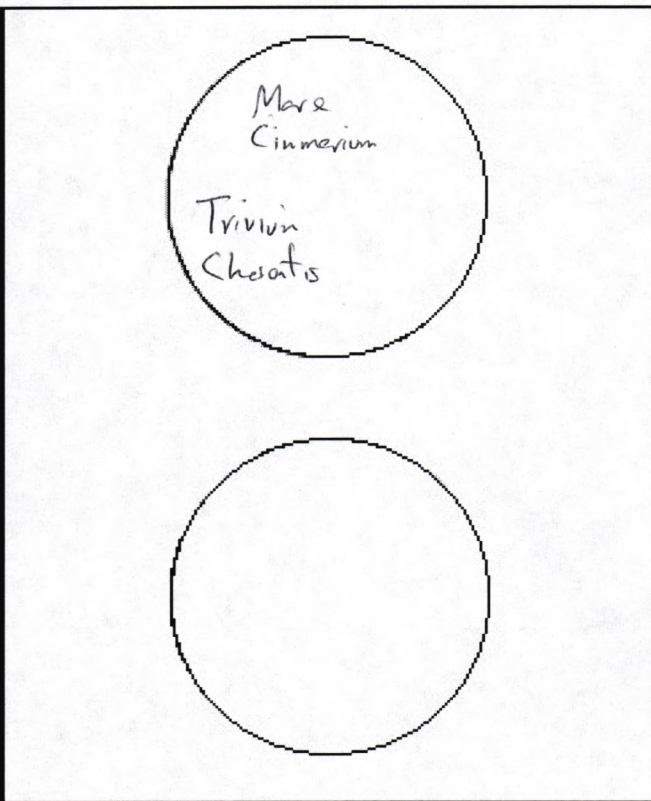
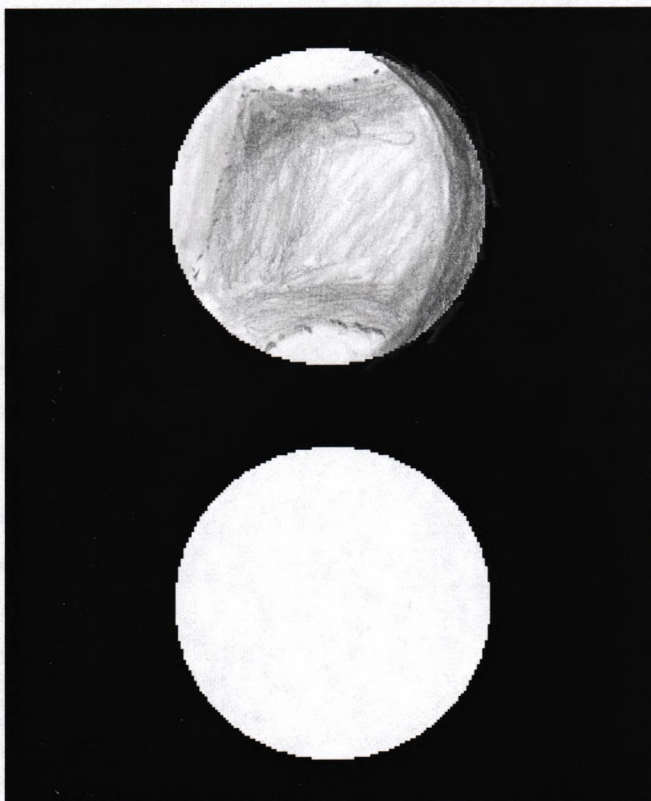
### Notes

Pale yellow again. Surface features very hard to see. Bright limb seems to be interrupted Sp., otherwise bright from S polar region to N polar region.

(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 02:07-02:16 Bottom: Time (UT): \_\_\_\_\_  
 CM: 195° - 197° °W CM: \_\_\_\_\_ °W  
 Filter: none (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-07-25 Observer: \_\_\_\_\_  
 Time (UT): 02:07 - 02:16 Address: \_\_\_\_\_  
 CM: 195 °W - 197 °W  
 D<sub>s</sub>: \_\_\_\_\_ ° - L<sub>s</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15 cm f/6 mm (in. (cm)): RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 225 x binoculars \_\_\_\_\_ x  
 Filters: none (W/S)  
 Seeing (0-10): 5 Anomadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear) Haze / Int. Clouds  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

Notes

Detail seems to be coming back after dust storm. More colour & contrast

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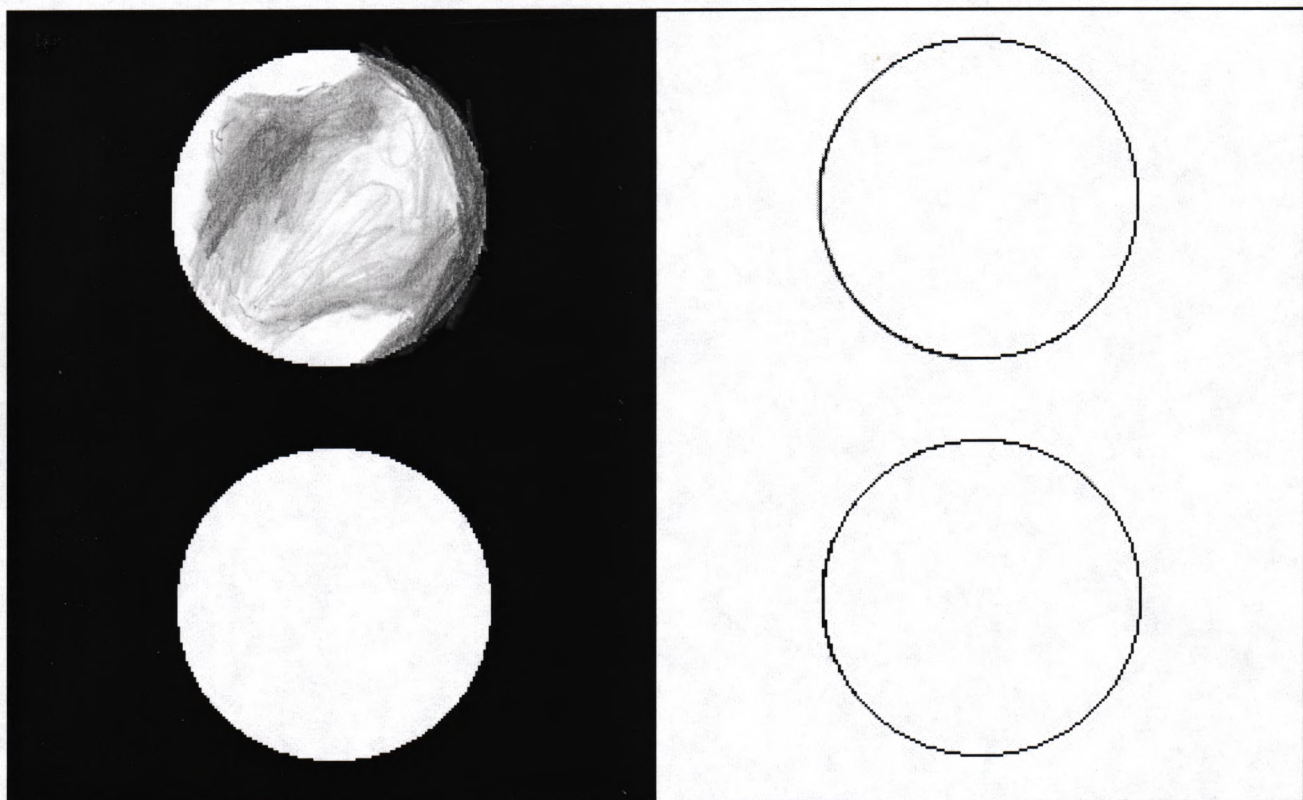
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(Continue on back if needed)



# A.L.P.O. Mars Section Observation



**Top:** Time (UT): 01:43 - 01:51      **Bottom:** Time (UT): \_\_\_\_\_  
 CM: 134-136 °W      CM: \_\_\_\_\_ °W  
 Filter: None (W/S)      Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-07-31      **Observer:** \_\_\_\_\_  
 Time (UT): 01:43 - 01:51      **Address:** \_\_\_\_\_  
 CM: 134 °W - 136 °W      **Observing Station:** \_\_\_\_\_  
 D<sub>s</sub>: \_\_\_\_\_ ° - L<sub>s</sub>: \_\_\_\_\_ °  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15 f/6 mm (in/cm; RL, RR, SC)      **E-mail (optional):** \_\_\_\_\_  
 Magnification: 225 x binoc. x \_\_\_\_\_ x  
 Filters: none (W/S)  
 Seeing (0-10): 4      **Antoniadi (I-V):** \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

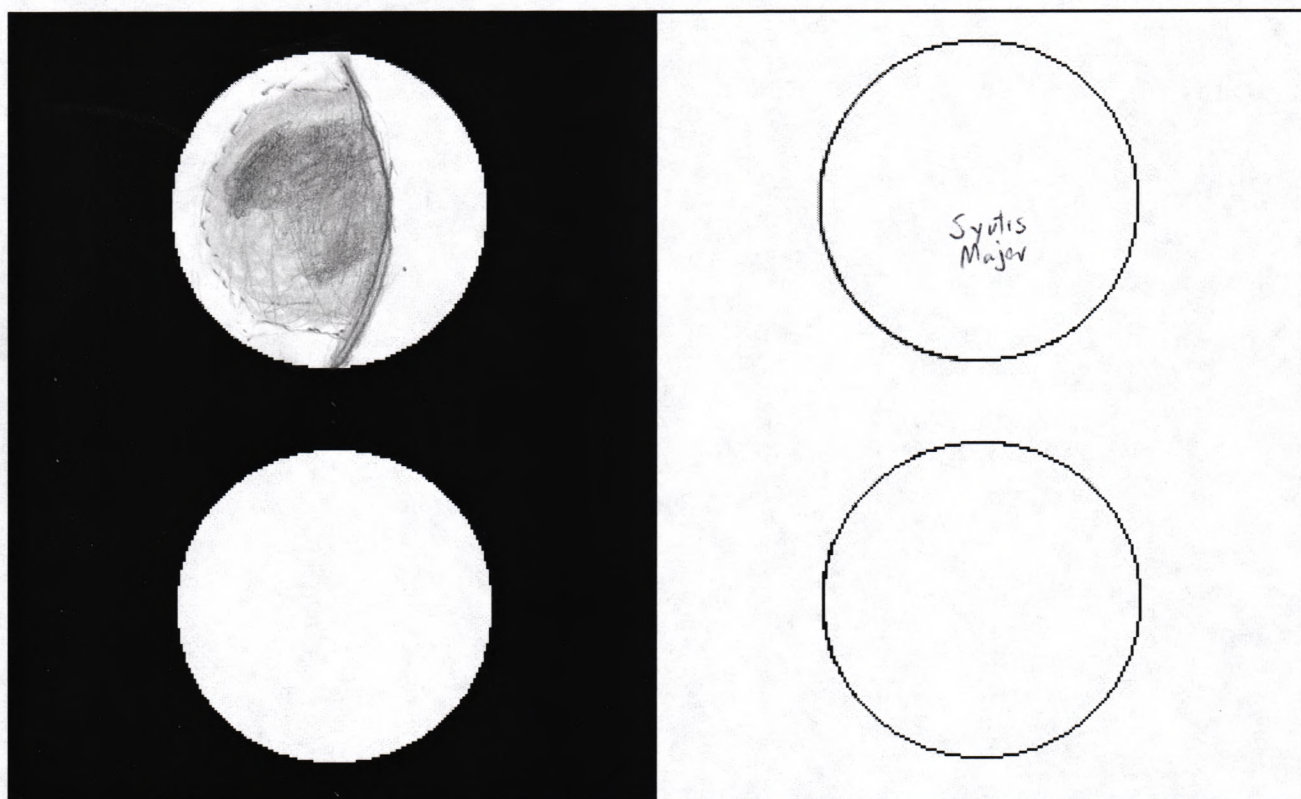
Notes

Orange colour has returned to the central part of the disk. Dark markings becoming more definite.

(Continue on back if needed)



# A.L.P.O. Mars Section Observation



Top: Time (UT): 01:05-01:15 Bottom: Time (UT): \_\_\_\_\_  
 CM: 266° °W CM: \_\_\_\_\_ °W  
 Filter: none (W/S) Filter: \_\_\_\_\_ (W/S)

Date (UT): 2001-09-30 Observer: \_\_\_\_\_  
 Time (UT): 01:05-01:15 - 01:15 Address: \_\_\_\_\_  
 CM: 265° °W - 268° °W  
 D<sub>1</sub>: \_\_\_\_\_ ° - L<sub>1</sub>: \_\_\_\_\_ ° Observing Station: \_\_\_\_\_  
 Dia. ("): \_\_\_\_\_ k (phase): \_\_\_\_\_  
 Telescope: 15 cm f/6 MN (in./cm.; RL, RR, SC) E-mail (optional): \_\_\_\_\_  
 Magnification: 200 x binoculars \_\_\_\_\_ x  
 Filters: none (W/S)  
 Seeing (0-10): 3 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): \_\_\_\_\_ (Clear / Haze / Int. Clouds)  
 Blue (Violet) Clearing (0-3): \_\_\_\_\_

Notes  
 Disk appears almost colourless. First time I've seen albedo features  
 worth drawing since July!

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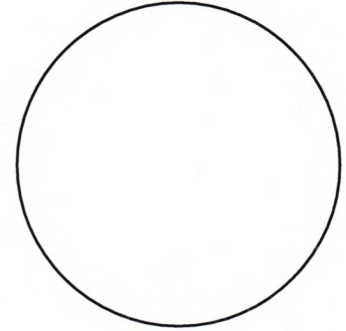
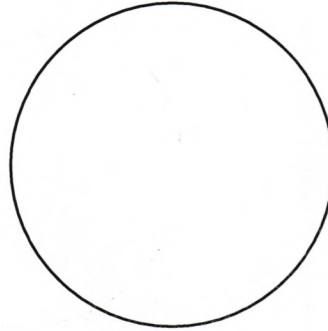
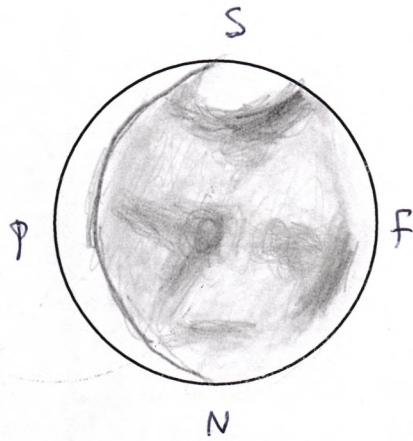
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(Continue on back if needed)



# Mars Observation



Time (U.T.): 07:35  
 CM: 240° °  
 Filter (Wratten): n/a

Intensity Estimates (0-10)  
 (0=Black (Background sky)  
 to 10=Brilliant (e.g. NPC))

Time (U.T.): \_\_\_\_\_  
 CM: \_\_\_\_\_ °  
 Filter (Wratten): \_\_\_\_\_

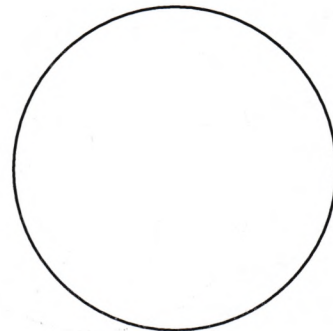
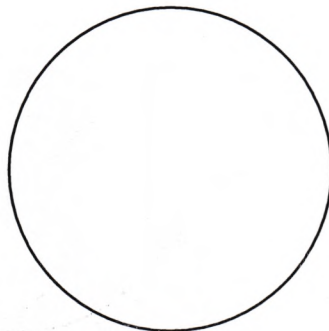
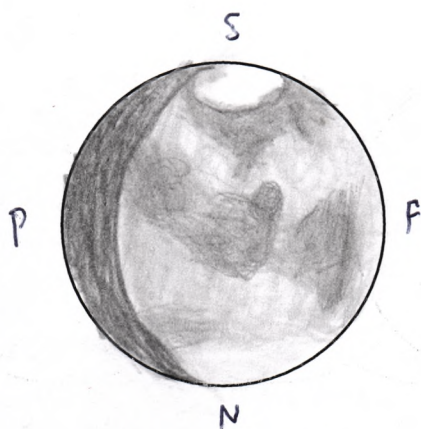
Date (U.T.): 2003-07-02  
 Time (U.T.): 06:38 - 07:45 - 08:11  
 Ls: \_\_\_\_\_ °, De: \_\_\_\_\_ °, Ds: \_\_\_\_\_ °  
 CM: 226° ° - 248° °  
 Instrument: 28 (in. / cm.) F / 4.1 (RR / RL / CAT)  
 Magnification: 240 x \_\_\_\_\_ x \_\_\_\_\_ x  
 Filter (Wratten): n/a  
 Seeing (1-10): 4-5 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): 3 (Clear / Hazy / Int. Clouds)

Name: GEOFF GAHERTY  
 Address: 309 ORIOLE PARKWAY  
TORONTO, ON M5P 2H6  
CANADA  
 E-mail: geoff@gaherty.ca

Notes:



# Mars Observation



Time (U.T.): 09:03  
 CM: 233 °  
 Filter (Wratten): n/a

Intensity Estimates (0-10)  
 (0=Black (Background sky)  
 to 10=Brilliant (e.g. NPC))

Time (U.T.): \_\_\_\_\_  
 CM: \_\_\_\_\_ °  
 Filter (Wratten): \_\_\_\_\_

Date (U.T.): 2003-07-05  
 Time (U.T.): 08:25 - 9:25  
 Ls: \_\_\_\_\_ °, De: \_\_\_\_\_ °, Ds: \_\_\_\_\_ °  
 CM: 224 ° - 238 °  
 Instrument: 28 (in. / cm.) F/4.1 (RR / RL / CAT)  
 Magnification: 300 x ~~binocular~~ x \_\_\_\_\_ x  
 Filter (Wratten): \_\_\_\_\_  
 Seeing (1-10): 7 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): 3 (Clear / Hazy / Int. Clouds)

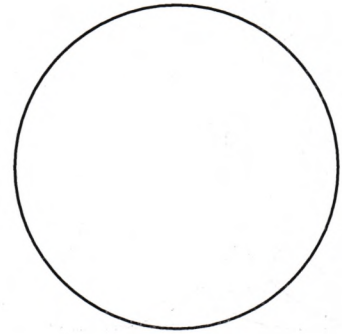
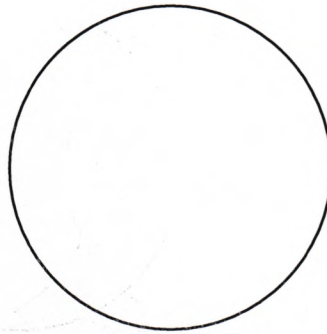
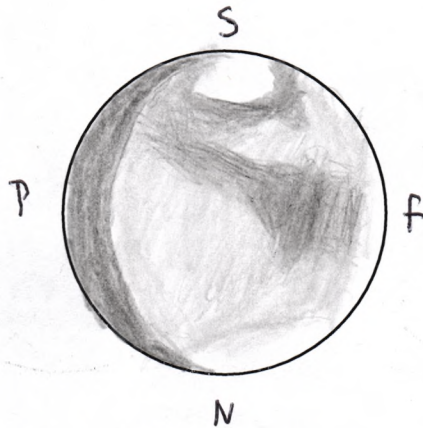
Name: Geoff Gabarty  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 E-mail: \_\_\_\_\_

Notes:

Experimented with new 25 & 47 filters, but found them too dense in poor transparency. Best views were with ~~21~~ 21. Dust storm in N Hellas maybe visible as ~~red~~ brighter orange shading. I had a visit from 3 baby skunks.



# Mars Observation



Time (U.T.): 07:05  
 CM: 195° °  
 Filter (Wratten): n/a

Intensity Estimates (0-10)  
 (0=Black (Background sky)  
 to 10=Brilliant (e.g. NPC))

Time (U.T.): \_\_\_\_\_  
 CM: \_\_\_\_\_ °  
 Filter (Wratten): \_\_\_\_\_

Date (U.T.): 2003-07-06  
 Time (U.T.): 06:45 - 07:15  
 Ls: \_\_\_\_\_ °, De: \_\_\_\_\_ °, Ds: \_\_\_\_\_ °  
 CM: 190 ° - 197 °  
 Instrument: 28 (in./cm.) F/4.1 (RR / RL / CAT)  
 Magnification: 240 x binoculars x \_\_\_\_\_ x  
 Filter (Wratten): n/a  
 Seeing (1-10): 4-5 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): 3 (Clear / Hazy / Int. Clouds)

Name: Geoff Gaherty  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 E-mail: \_\_\_\_\_

Notes:

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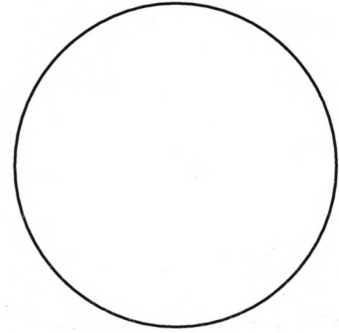
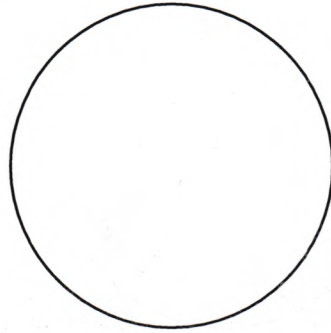
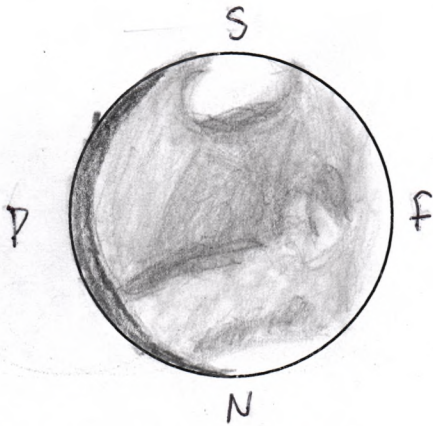
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# Mars Observation



Time (U.T.): 05:20  
 CM: 48 °  
 Filter (Wratten): n/a

Intensity Estimates (0-10)  
 (0=Black (Background sky)  
 to 10=Brilliant (e.g. NPC))

Time (U.T.): \_\_\_\_\_  
 CM: \_\_\_\_\_ °  
 Filter (Wratten): \_\_\_\_\_

Date (U.T.): 2003-07-19  
 Time (U.T.): 04:58 - 05:26  
 Ls: \_\_\_\_\_ °, De: \_\_\_\_\_ °, Ds: \_\_\_\_\_ °  
 CM: 43 ° - 50 °  
 Instrument: 28 (in/cm.) F/4.3 (RR/RL/GAT)  
 Magnification: 300 x binoView x  
 Filter (Wratten): n/a  
 Seeing (1-10): 4 Antoniadi (I-V): \_\_\_\_\_  
 Transparency (1-6): 4 (Clear / Hazy / Int. Clouds)

Name: Geoff Gaherty  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 E-mail: \_\_\_\_\_

Notes: