

Royal Astronomical Society of Canada
Montreal Centre
OBSERVATIONS OF THE PLANET MARS
Opposition: December 30, 1960
Geoffrey Cabarty, Jr
Chairman, Planetary Section

Royal Astronomical Society of Canada
 Montreal Centre
 PLANETARY ~~LOAN~~ OBSERVATIONS



MARS

Date ... Jan. 27/28 ... 1961 ...

Observer ... K. D. Brasch ...

Local Time ... 19:45 - 20:20 ...

Universal Time ... 00:45 - 01:20 ...

Telescope ... 8" Refl. ...

Eyepiece ... 300x - 375x ...

Seeing ... 0-4 ...

Transparency ... 4-2 ...

Lunar Feature

Co-ordinates CM 29.54 ~~30~~ 33°

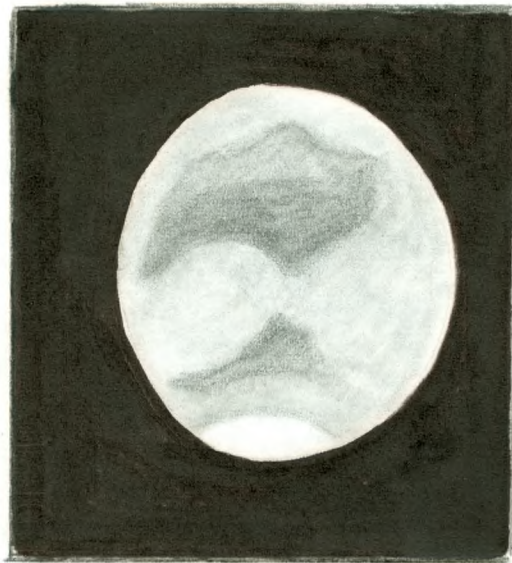
Colongitude ... ~~CM 38 11~~ ...

Remarks : Immense detail visible during short periods
 of fair seeing.

T = -1

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PLANETARY OBSERVATIONS



PLANET *Mars*

Date ... *Oct. 8-9* ... 1960 ...

Local Time *02:20 - 02:25*

Universal Time .. *06:20 - 06:25*

Central Meridian (1) *36°*

(2)

Telescope .. *8" Refle.*

Eye-piece *300x*

Seeing *3*

Transparency *4*

Remarks: *N. Polar Region glittering white similar to cusps on Venus.
Whole planet yellow red colour with dark areas brownish*

T = +5

Observer .. *K. B. Brausch*

Address

Telephone No.

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PLANETARY OBSERVATIONS



PLANET ... *MARS*

Date ... *Jan. 16/17 1961*

Observer ... *K. R. Brasch*

Local Time ... *18:35 - 19:00*

Universal Time ... *23:35 - 00:00*

Central Meridian (1) ... ~~116~~ *116°*

(2)

Telescope ... *8" Refl.*

Power ... *300x*

Seeing (0 worst-10 best) ... *3-4*

Transparency (0 worst-5 best) ... *4-5*

Remarks:

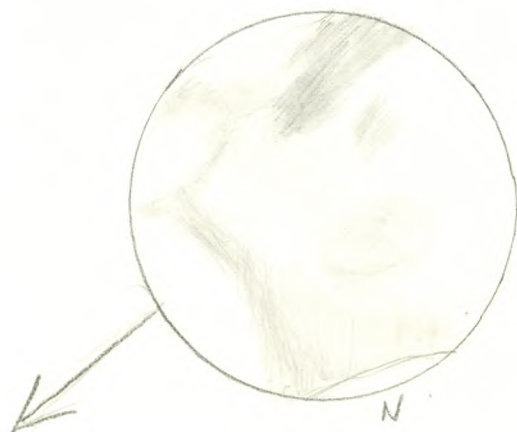
During best moment ~~the~~ canals glimpsed as very diffused streaks.

T = -1°

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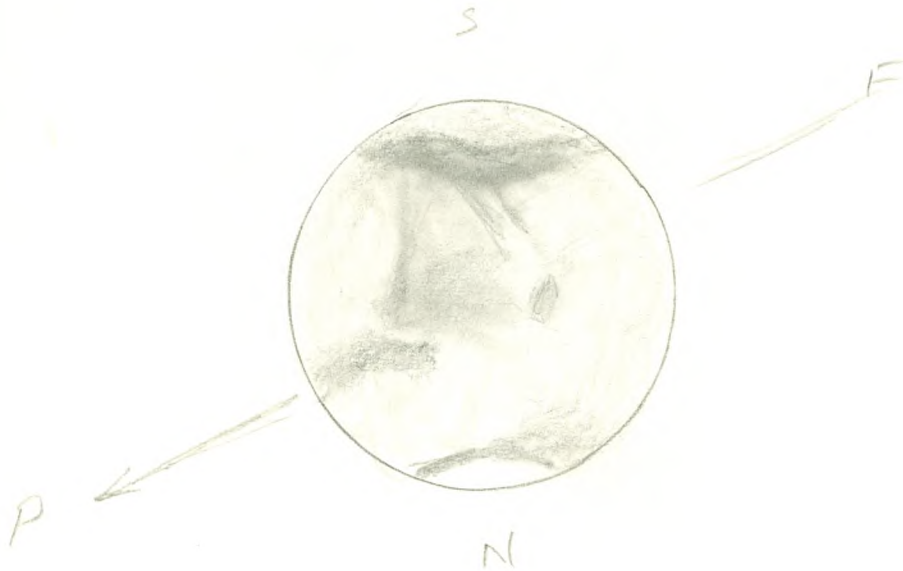
PLANETARY OBSERVATIONS



PLANET *Mars*.....
Date *Jan 18 / 1961*..... Observer *K. Chalk*.....
Local Time *20:55*..... Universal Time *1:55*.....
Central Meridian (1) *127*..... (2)
Telescope *6" refractor*..... Power *220x*.....
Seeing (0 worst-10 best) *2-3*..... Transparency (0 worst-5 best) *4*.....
Remarks: *T = -1°*

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PLANETARY OBSERVATIONS



PLANET MARS.....

Date JAN 18/19 1961.....

Observer G WEDGE.....

Local Time 21:43 - 21:53.....

Universal Time 02:43 - 02:53.....

Central Meridian (1) 141.....

(2)

Telescope 6" REF.....

Power 220x.....

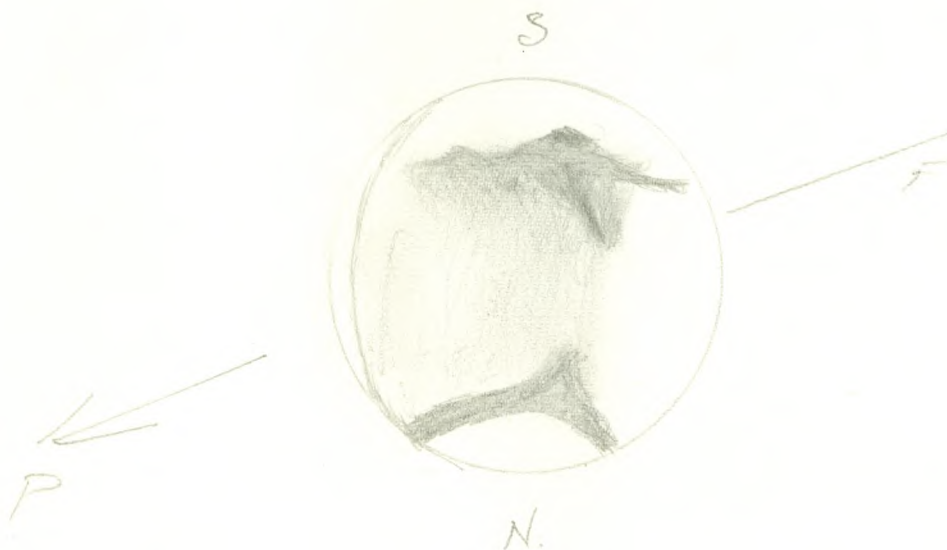
Seeing (0 worst-10 best) 4.....

Transparency (0 worst-5 best) 4.....

Remarks: T = -1°

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PLANETARY OBSERVATIONS



Planet MARS.....

Date DEC 10/11 1960.....

Observer WEDGE G......

Local Time 23:30.....

Universal Time 04:30.....

Central Meridian (1) 103°.....

(2)

Telescope 6" REF......

Eyepiece 150X.....

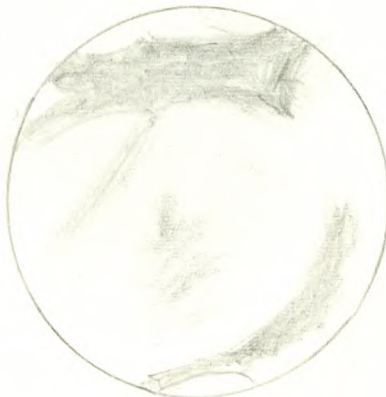
Seeing 4.....

Transparency 4.....

Remarks : T=6°

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PLANETARY OBSERVATIONS



Planet ... MARS

Date ... DEC 7-8, 1960

Observer ... T. F. MORRIS

Local Time ... 21:45

Universal Time ... 2:45

Central Meridian (1) ... 149°

(2)

Telescope ... 6" REFR.

Eyepiece ... 150

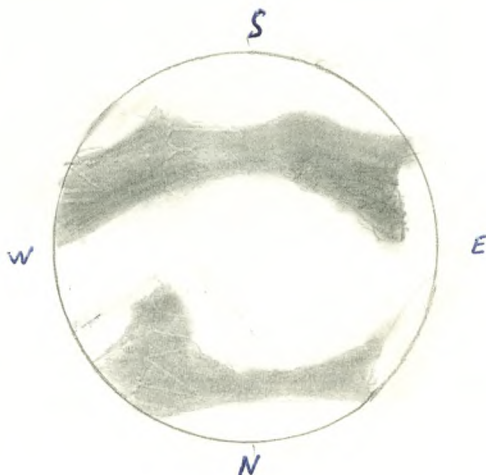
Seeing ... 3

Transparency ... 4

Remarks : T = 6°

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PLANETARY OBSERVATIONS



PLANET MARS.....

Date JAN. 18/19 1961.....

Observer Constantine Papacosmas.....

Local Time 22:30 EST.....

Universal Time 03:30.....

Central Meridian (1) 150.....

(2)

Telescope 6-inch Refractor.....

Power 220X.....

Seeing (0 worst-10 best) 3.....

Transparency (0 worst-5 best) 4.....

Remarks: T = -1°

PLANETARY OBSERVATIONS



PLANET MARS

Date JAN 18/19, 1961

Observer C. CAHERTY

Local Time 23:05 - 23:15

Universal Time 04:05 - 04:15

Central Meridian (1) 160

(2)

Telescope 6" REFR.

Power 220X

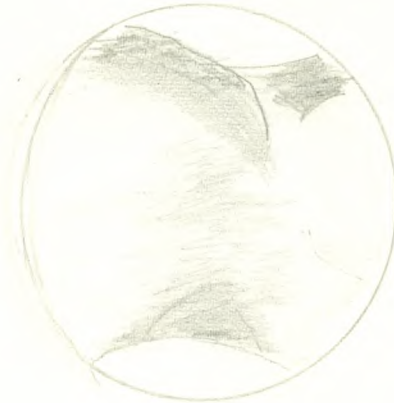
Seeing (0 worst-10 best) 2

Transparency (0 worst-5 best) 5

Remarks: T = -1°

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PLANETARY OBSERVATIONS



Planet MARS

Date DEC 7/8 1960

Observer I. K. WILLIAMSON

Local Time 22:40 E.S.T.

Universal Time 03:40

Central Meridian (1) 163°

(2)

Telescope 6" REFRACTOR

Eyepiece 150X

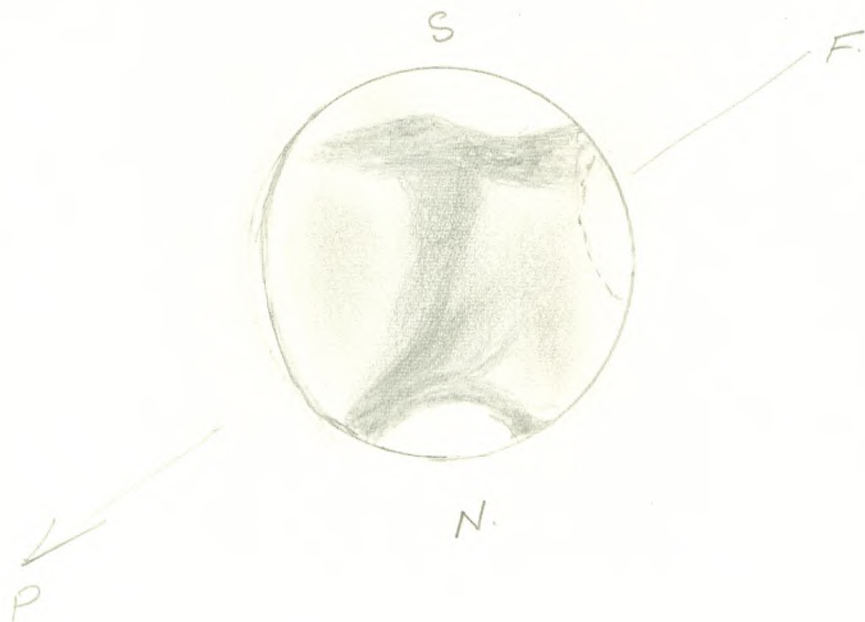
Seeing 3

Transparency 3-2

Remarks : T = 6°

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PLANETARY OBSERVATIONS



Planet MARS.....

Date DEC. 7/8, 1960.....

Observer WEDGE G......

Local Time 23:00-23:10.....

Universal Time 04:00-04:10.....

Central Meridian (1) 169°.....

(2)

Telescope 6" REFRACTOR.....

Eyepiece 150X.....

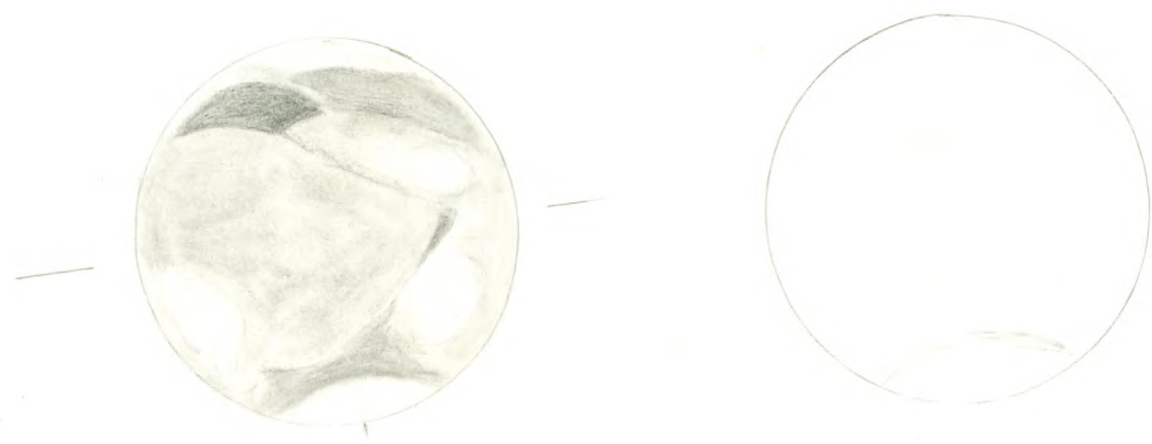
Seeing 2.....

Transparency 3.....

Remarks : T=0°

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PLANETARY OBSERVATIONS



PLANET *MARS*

Date .. *Dec 4/5 1960*

Local Time .. *21:15 - 21:35*

Universal Time .. *02:15 - 02:35*

Central Meridian (1) .. *171°*

(2)

Telescope *8" Refl.*

Eyepiece *300x*

Seeing *4-5*

Transparency *4*

Remarks: *DRIFT WRONG?*
T=7°

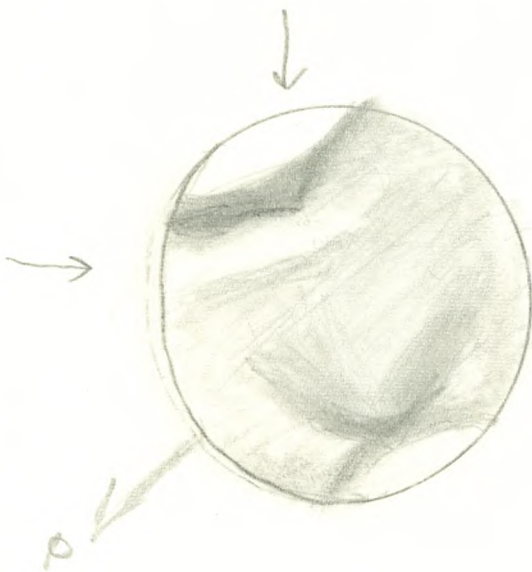
Observer *K.R. Brasch*

Address

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PLANETARY OBSERVATIONS



Planet .. MARS

Date .. DEC 7/8, 1960

Observer .. G. GAHERTY

Local Time .. 23:20-23:30

Universal Time .. 04:25

Central Meridian (1) .. 174°

(2)

Telescope .. 6" REFR.

Eyepiece .. 150X

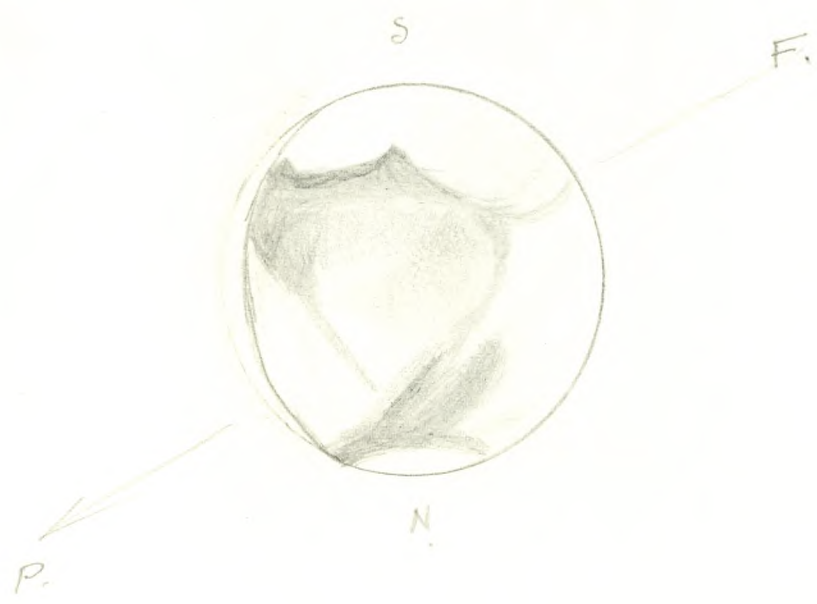
Seeing .. 3-5

Transparency .. 1-2

Remarks : White area indicated by arrows very plain (Memoria)
T=6°

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PLANETARY OBSERVATIONS



Planet MARS.....

Date DEC 4/5 1960.....

Observer WEDGE G.....

Local Time 21:55 - 22:05.....

Universal Time 02:55 - 03:05.....

Central Meridian (1) 180°.....

(2)

Telescope 6" REFRACTOR.....

Eyepiece 220X.....

Seeing 3-4.....

Transparency 3.....

Remarks : "CANAL" TO THE WEST ONLY GLIMPSED PROBABLY AN OPTICAL ILLUSION.
T=7°

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PLANETARY OBSERVATIONS



PLANET ... *Mars*

Date ... *Feb. 16/17 1961*

Observer ... *K. R. Brasch*

Local Time ... *17:45 - 18:00*

Universal Time ... *22:45 - 23:00*

Central Meridian (1) ... ~~180°~~ *182°*

(2)

Telescope ... *8" Refl.*

Power ... *375x*

Seeing (0 worst-10 best) ... *5-(?)*

Transparency (0 worst-5 best) ... *4*

Remarks:

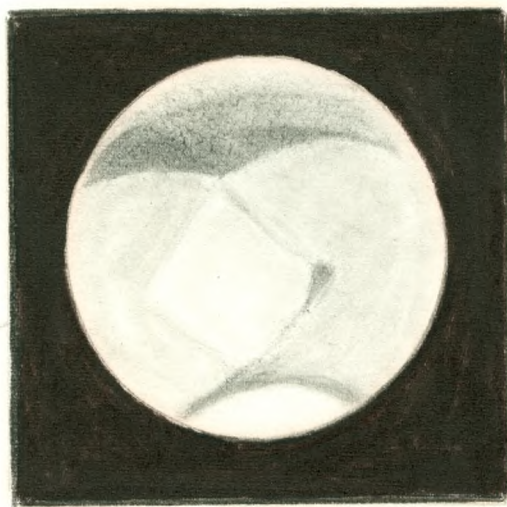
*Seeing good for only very short period after
which it became very poor*

T = -1°

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PLANETARY OBSERVATIONS



Planet ... *MARS*

Date ... *Dec 3/4 1960*

Observer ... *K. R. Brasch*

Local Time ... *21:35 - 22:00*

Universal Time ... *02:35 03:00*

Central Meridian (1) ... *185°*

(2)

Telescope ... *8" Refl.*

Eyepiece ... *16.5x - 300x*

Seeing ... *4 - 2*

Transparency ... *3*

Remarks : *Canal structures seen for first time, appeared*
diffused and not as hair-like lines.

Pentagon shaped area formed by canals was
lighter in colour than surrounding rusty red area.

T = 7°

PLANETARY OBSERVATIONS



PLANET *Mars*.....

Date *Jan 11/12/61*

Observer *Kenneth Chalk*

Local Time *21:00-21:15 EST*

Universal Time *2:15 EST*

Central Meridian (1) *192*

(2)

Telescope *6" refr.*

Power *150X*

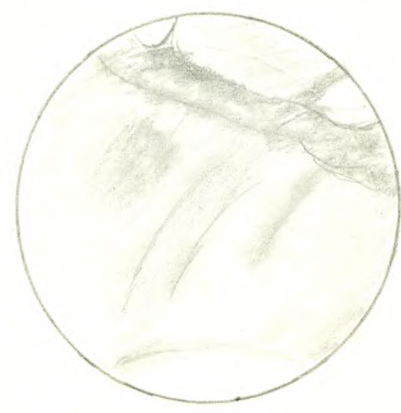
Seeing (0 worst-10 best) *2-3*

Transparency (0 worst-5 best) *4*

Remarks: *T = 0°*

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PLANETARY OBSERVATIONS



PLANET MARS

Date JAN 11/12 1961

Observer I. R. WILLIAMSON

Local Time 21.25 E.S.T.

Universal Time 02.25

Central Meridian (1) 197

(2)

Telescope 6" REFRACTOR

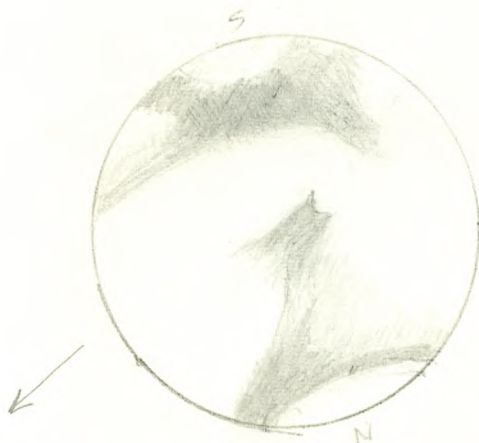
Power 150X

Seeing (0 worst-10 best) 3

Transparency (0 worst-5 best) 3

Remarks: T = ~~0~~ 0°

PLANETARY OBSERVATIONS



Planet Mars.....

Date Dec 3/4/60.....

Observer Kenneth Chalk.....

Local Time 22:49 - 23:05.....

Universal Time 03:49 - 04:05.....

Central Meridian (1) 202°.....

(2)

Telescope 6" refractor.....

Eyepiece 220X.....

Seeing 4.....

Transparency 4.....

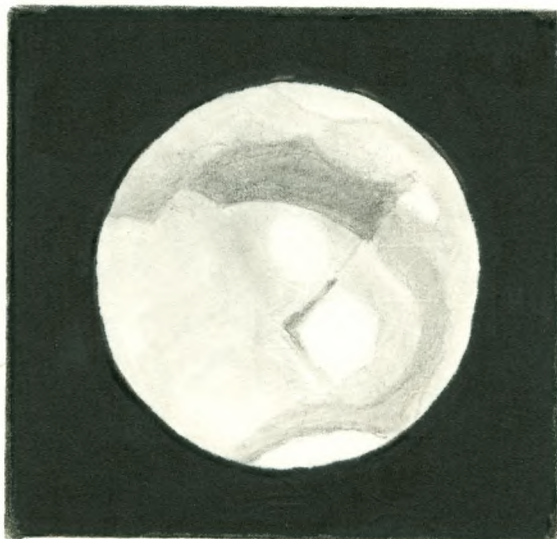
Remarks :

Detail in northern hemisphere visible only at first. The dark region in the south remained prominent.

T=7°

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PLANETARY OBSERVATIONS



PLANET *MARS*

Date *Jan 9/10 1968*

Observer *K. R. Brasch*

Local Time *20:35 - 21:05*

Universal Time *01:35 - 02:05*

Central Meridian (1) *202*

(2)

Telescope *8" Refl.*

Power *300x*

Seeing (0 worst-10 best) *1-3*

Transparency (0 worst-5 best) *4.5*

Remarks: *T=0*

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PLANETARY OBSERVATIONS



PLANET .. *Mars*

Date .. *Feb. 15/16* .. *1961*

Observer .. *K. R. B. Rasch*

Local Time .. *18:45* .. *19:00*

Universal Time .. *23:45* .. *00:00*

Central Meridian (1) .. *203°*

(2)

Telescope .. *6" Refr.*

Power .. *450x*

Seeing (0 worst-10 best) .. *3-5*

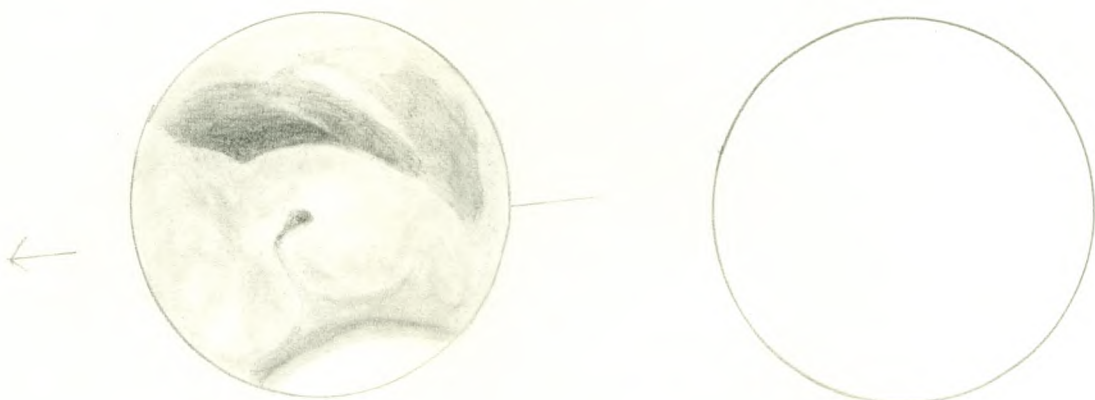
Transparency (0 worst-5 best) .. *4*

Remarks: *T = -1°*

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PLANETARY OBSERVATIONS



Planet Mars

Date Dec 3/4 1960

Observer H.R. Brasch

Local Time 23.00 23.30

Universal Time 04.00 04.30

Central Meridian (1) 207

(2)

Telescope 8" Refl.

Eyepiece 300x

Seeing 5-2

Transparency 3-4

Remarks : Colour contrast very great, dark regions greenish-brown
and surrounding area bright rust-red.
N. Polar region glittering white.
1 canal seen.

$t = 7^\circ$

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PLANETARY OBSERVATIONS

South



North

Planet Mars

Date Dec 3/4, 1960

Observer Jim Low

Local Time 23h.44m. +10m. EST

Universal Time 04h.44m.

Central Meridian (1) 215°

(2)

Telescope 6"-Refractor

Eyepiece 220x

Seeing 4

Transparency 3

Remarks :

PLANETARY OBSERVATIONS



Planet .. MARS ..

Date .. DEC 3/4 1960 ..

Observer .. WEDGE 9 ..

Local Time .. 23:55 / 00:05 ..

Universal Time .. 04:55 - 05:05 ..

Central Meridian (1) .. 218° ..

(2) ..

Telescope .. 6" REFRACTOR ..

Eyepiece .. 220x ..

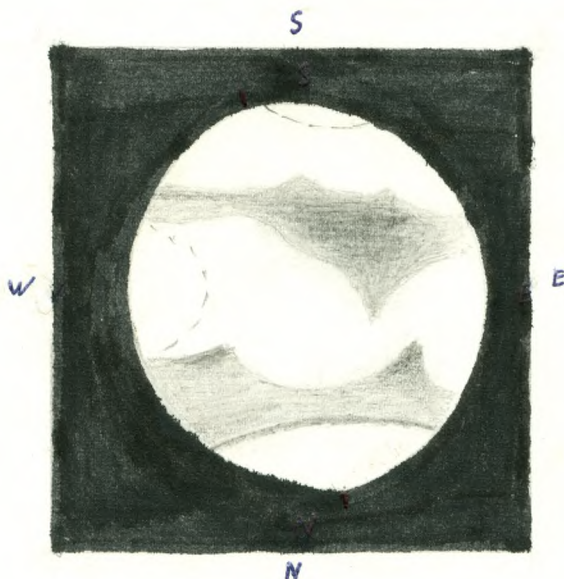
Seeing .. 5 ..

Transparency .. 4 ..

Remarks :

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PLANETARY OBSERVATIONS



Planet .. MARS

Date .. OCT. 27/28~~7~~ 1960

Observer .. Constantine Papacosmas

Local Time .. 02:30 EDT

Universal Time .. 06:30

Central Meridian (1) .. 219°

(2)

Telescope .. 6" Refractor

Eye-piece .. 300X

Seeing .. 4

Transparency .. 4

Remarks : *The markings were very indefinite in shape, and only a small fraction of them was seen at anyone moment of good seeing.*

The north polar cap was very prominent, whereas the southern one was seen with difficulty.

The equatorial region near the terminator seemed whitish.

T=7°

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PLANETARY OBSERVATIONS



PLANET MARS

Date JAN 11/12, 1961

Observer G. GAMERTY, JR.

Local Time 23:05-23:15

Universal Time 04:10

Central Meridian (1) 222

(2)

Telescope 6" REFRACTOR

Power 150x

Seeing (0 worst-10 best) 3-0

Transparency (0 worst-5 best) 4

Remarks: Drawing terminated due to poor seeing

T=0°

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PLANETARY OBSERVATIONS



Planet *Mars*

Date *Jan. 3/4 1961*

Observer *K. R. Brosch*

Local Time *18:25 - 18:45*

Universal Time *23:25 - 23:45*

Central Meridian (1) *226*

(2)

Telescope *8" Refl.*

Eyepiece *300x*

Seeing *5-(7)*

Transparency *2-3*

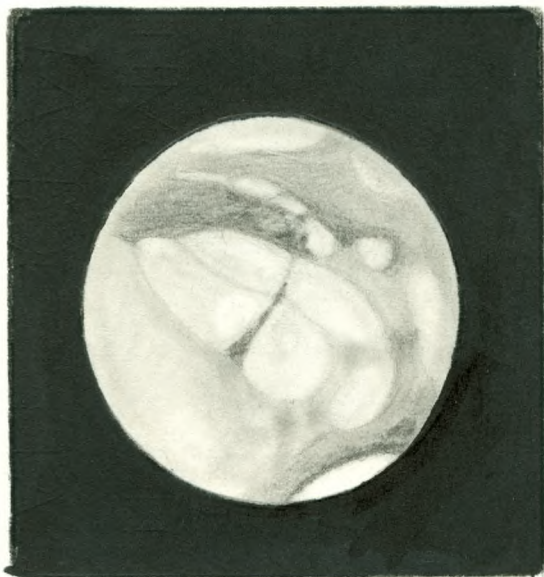
Remarks :

*Haze covered whole sky at time of observation
During short period of very good seeing (7) canal features
seen as diffused lines. Best view of planet so far attained
impossible to record all minute detail.*

T=1°

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PLANETARY OBSERVATIONS



PLANET ... *Mars*

Date ... *Feb. 11/12 1961*

Observer ... *K. R. Brosch*

Local Time ... *17:45 - 18:15*

Universal Time ... *22:45 - 23:15*

Central Meridian (1) ... *228°*

(2)

Telescope ... *8" Refl.*

Power ... *375x*

Seeing (0 worst-10 best) ... *6-7*

Transparency (0 worst-5 best) ... *4-5*

Remarks: *Superb seeing revealed most minute detail
Dark band near north polar cap especially prominent*

T = -1°

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PLANETARY OBSERVATIONS



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PLANET *Mars*

Date *Jan. 11/12/61*

Observer *Kenneth Chalk*

Local Time *23:40-23:50 EST*

Universal Time *04:40-04:50*

Central Meridian (1) *231*

(2)

Telescope *6" refr*

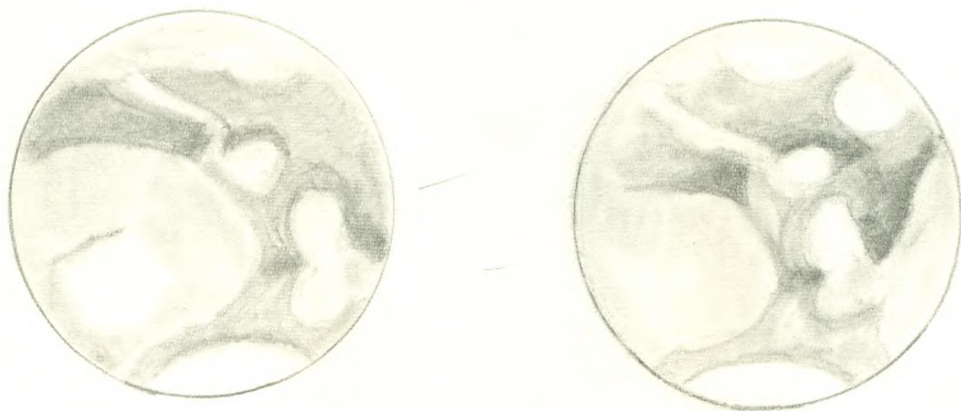
Power *150-220X*

Seeing (0 worst-10 best) *6-5 (deteriorated)*

Transparency (0 worst-5 best) *4*

Remarks: *T=0°*

PLANETARY OBSERVATIONS



Planet Mars

Date Jan 3/4 1960

Observer K. R. Brasch

Local Time @ 19:30-20:00 @ 21:00-21:15

Universal Time @ 00:30 - 01:00
@ 02:10 - 02:15

Central Meridian (1) 243

(2) 262

Telescope 8" Refl.

Eyepiece 300x

Seeing ① 7 ② 6-7

Transparency ① 2-3 ② 4-5

Remarks :

① amber filter used alternately

② haze covered planet causing poor trans.

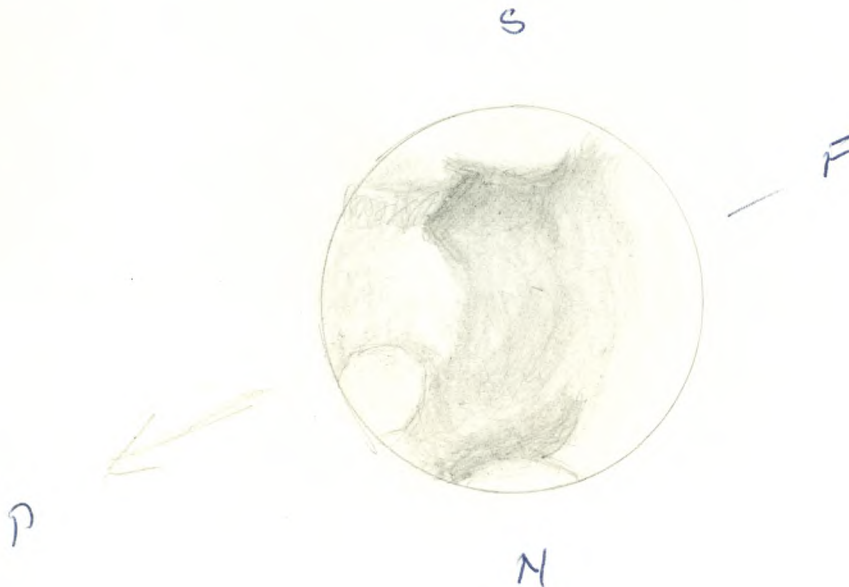
T = 1°

- ②. Haze cleared resulting in very good trans, & continuous fine seeing. Amber filter used alternately
Superb view of intensity & colour of different areas
- darkest patches - dull gray blue
 - lighter part of dark areas - definite green
 - light areas in general - rusty orange
 - bright central area - yellow
 - polar region - glittering white

MM

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PLANETARY OBSERVATIONS



PLANET MARS.....

Date JAN. 4/5. 1964.....

Observer WEDGE G......

Local Time 20:45 - 20:55.....

Universal Time 01:45:01:55.....

Central Meridian (1) 250°.....

(2)

Telescope 6" REFR.....

Power 220.....

Seeing (0 worst-10 best) 2.....

Transparency (0 worst-5 best) 3.....

Remarks: T=1°

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PLANETARY OBSERVATIONS



PLANET .. MARS

Date .. FEB 15-16, 1961

Observer .. T. F. MORRIS

Local Time .. 22:05

Universal Time .. 3:05

Central Meridian (1) .. 250.48

(2)

Telescope .. 6" REFR.

Power .. 220

Seeing (0 worst-10 best) .. 4

Transparency (0 worst-5 best)

Remarks: T = -1°

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PLANETARY OBSERVATIONS



PLANET *Mars*
 Date *Jan 4/5/61*
 Local Time *21:05 - 21:20*
 Central Meridian (1) *255°*
 Telescope *6" refr.*
 Seeing (0 worst-10 best) *3-4*
 Remarks: *T=1°*
 Observer *Kenneth Chalk*
 Universal Time *02:05 - 20*
 (2)
 Power *220x*
 Transparency (0 worst-5 best) *5*

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PLANETARY OBSERVATIONS



PLANET Mars

Date ... Feb 8/9 1961

Observer ... K. R. Brasch

Local Time ... 18:00

Universal Time ... 23:00

Central Meridian (1) ... 255

(2)

Telescope ... 6" Refr.

Power ... 450x

Seeing (0 worst-10 best) ... 5-6

Transparency (0 worst-5 best) ... 3

Remarks: T = -1°

[Handwritten mark]

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PLANETARY OBSERVATIONS



PLANET ... *MARS*

Date ... *Feb 6/7 1961*

Observer ... *K. R. Brasch*

Local Time ... *18:06*

Universal Time ... *23:00*

Central Meridian (1) ... *268°*

(2)

Telescope ... *8" Refl.*

Power ... *375x*

Seeing (0 worst-10 best) ... *3.5*

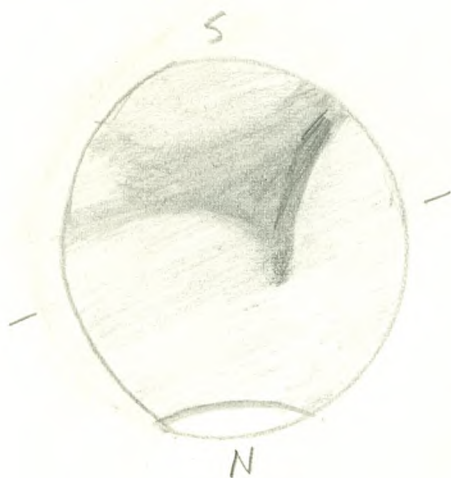
Transparency (0 worst-5 best) ... *4-5*

Remarks: *T = -1°*

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PLANETARY OBSERVATIONS



Planet *Mars*

Date *Nov. 23/24, 1960*

Observer *Kenneth Chalk*

Local Time *21:25*

Universal Time *2:25*

Central Meridian (1) *270*

(2)

Telescope *6" refractor*

Eyepiece *150X*

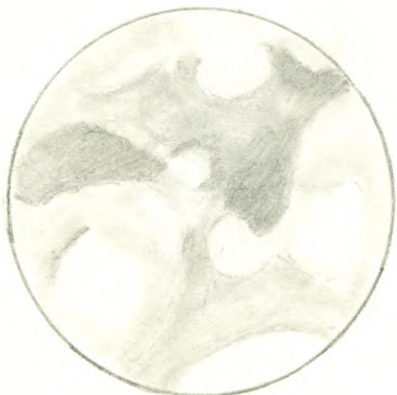
Seeing *3*

Transparency *Good*

Remarks : *T = 8°*

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PLANETARY OBSERVATIONS



PLANET MARS

Date Jan. 4/5 1960

Observer K.R. Brasch

Local Time 22:10 - 22:20

Universal Time 03:10 - 03:20

Central Meridian (1) 270°

(2)

Telescope 6" Refr.

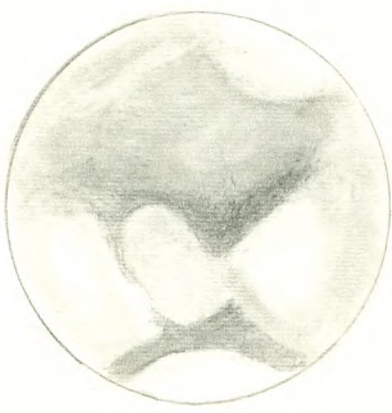
Power 220x

Seeing (0 worst-10 best) 4-3

Transparency (0 worst-5 best) 4

Remarks: T = 1°

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LUNAR OBSERVATIONS



Date *Nov. 25/26 1960*

Observer *K. R. Brasch*

Local Time *23:20*

Universal Time *04:20*

Telescope *6" Refr.*

Eyepiece *220x*

Seeing *5*

Transparency *2-3*

Lunar Feature *Mars*

Co-ordinates *C.M. = 280°*

Colongitude

Remarks : *Seeing very good but intermitten hazy clouds hindered obsuation.
T = 8°*

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PLANETARY OBSERVATIONS



Planet ... MARS

Date ... JAN. 4/5 1961 ...

Observer ... I. K. WILLIAMSON

Local Time ... 23:00

Universal Time ... 04:00

Central Meridian (1) ... 281°

(2)

Telescope ... 6" REFRACTOR

Eye-piece ... 220X

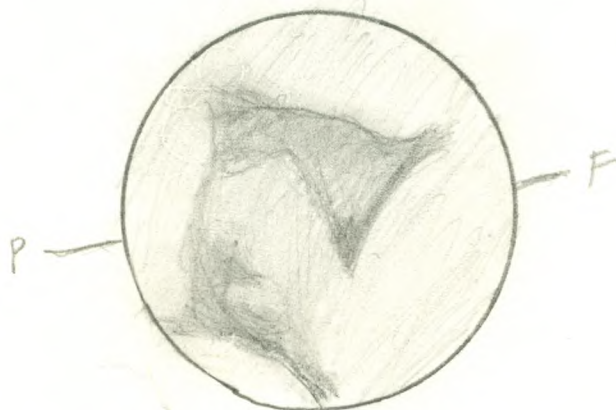
Seeing ... 4

Transparency ... 3

Remarks : T = 1°

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Montreal Centre

PLANETARY OBSERVATIONS



PLANET MARS.....

Date JANUARY 4/5, 1961.....

Observer GEOFFREY GAHERTY JR.....

Local Time 23:05-23:15.....

Universal Time 04:10.....

Central Meridian (1) 284°.....

(2)

Telescope 6" REFR......

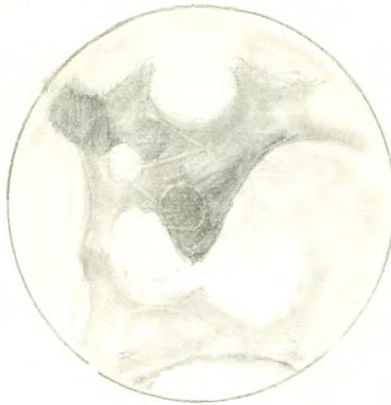
Power 220x.....

Seeing (0 worst-10 best) 5!.....

Transparency (0 worst-5 best) 4.....

Remarks: T=1°

PLANETARY OBSERVATIONS



PLANET Mars

Date .. Jan. 4/5 1961

Observer K. R. Brasch

Local Time .. 23:25 - 23:40

Universal Time .. 04:35 - 04:40

Central Meridian (1) 289°

(2)

Telescope 6" Refl.

Power 220v

Seeing (0 worst-10 best) 4

Transparency (0 worst-5 best) 4

Remarks: T = 1°

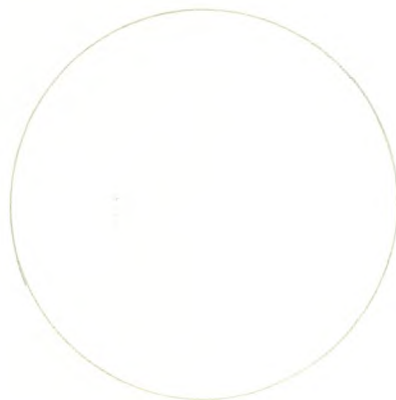
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Montreal Centre

PLANETARY OBSERVATIONS



PLANET MARS.....

Date FEB 12/13 1961.....

Observer G. WEDGE.....

Local Time 22:00-22:10.....

Universal Time 03:00-03:10.....

Central Meridian (1) 289.....

(2)

Telescope 6" REFR.....

Power 220.....

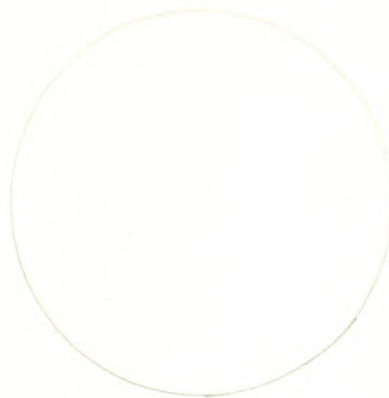
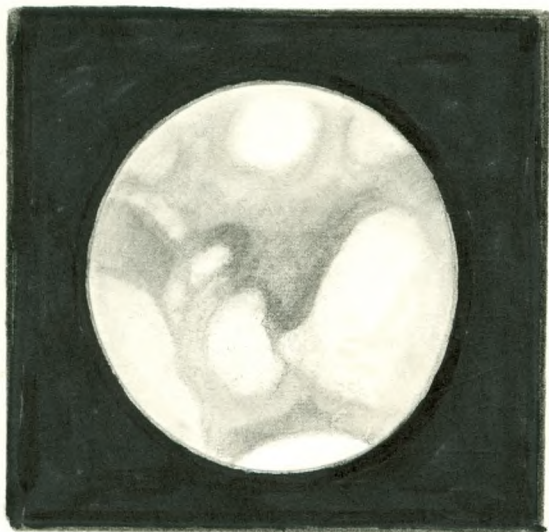
Seeing (0 worst-10 best) 4.....

Transparency (0 worst-5 best) 5.....

Remarks: T = -1°

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PLANETARY OBSERVATIONS



PLANET ... *Mars*

Date ... *Feb. 5* ... *1961*

Observer ... *K. R. Brasch*

Local Time ... *18:00* ... *18:30*

Universal Time ... *23:00* ... *23:30*

Central Meridian (1) ... *296.0*

(2)

Telescope ... *8" Refl.*

Power ... *375x*

Seeing (0 worst-10 best) ... *4-5*

Transparency (0 worst-5 best) ... *4-5*

Remarks: *T = -1°*

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PLANETARY OBSERVATIONS



MARS

Planet
 Date *Nov. 23/24 1960* Observer *Constantine Papacosmas*
 Local Time *23:30 EST* Universal Time *04:30*
 Central Meridian (1) *301°* (2)
 Telescope *6" Refractor* Eyepiece *220 X*
 Seeing *4* Transparency *4*
 Remarks : *T = 8°*

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PLANETARY OBSERVATIONS



PLANET *Mars*

Date *Feb 8/9, 1961*

Observer *Kenneth Chalk*

Local Time *21:03-21:13*

Universal Time *21:03-21:13*

Central Meridian (1) *301*

(2)

Telescope *6" refr*

Power *220x*

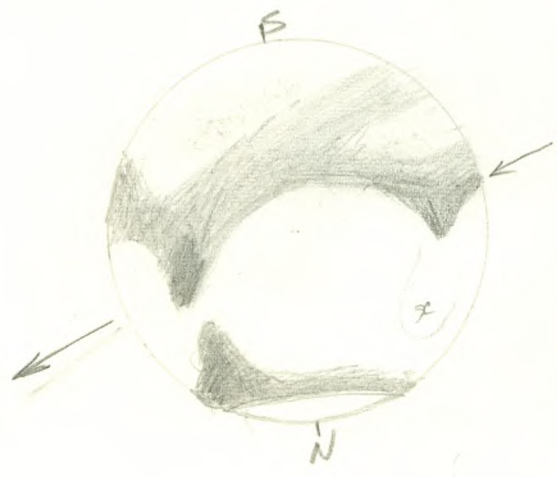
Seeing (0 worst-10 best) *4*

Transparency (0 worst-5 best) *3*

Remarks: *T = -1°*

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PLANETARY OBSERVATIONS



Planet *Mars*

Date *Dec 27/28/60* Observer *Kenneth Chalk*

Local Time *20:17* Universal Time *1:17*

Central Meridian (1) *311°* (2)

Telescope *6" reflector* Eyepiece ~~*75X*~~ *1.25X*

Seeing *6* Transparency *4.5*

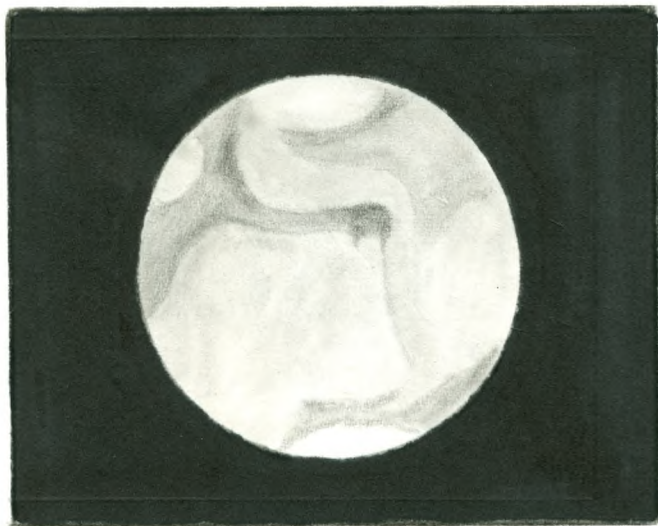
Remarks :

After completing the drawing, the telescope was tried at 200X using an amber haze filter from a camera. No further detail was recorded except possibly a slightly dusky area at the place "x".

T = 3°

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LUNAR OBSERVATIONS



Date Jan. 28/29. 1961.....
Local Time .. 17:20 - 17:40..... Universal Time .. 20:20 - 22:40.....
Telescope 8" Refl..... Eyepiece 375x.....
Seeing 2 - 5..... Transparency 2.3.....
Lunar Feature
Co-ordinates .. CM = 348..... Colongitude
Remarks .. Detail very definite during very short periods
of fine seeing.
Interfering cloud ended observation shortly
T = -1°
Observer K. R. Brasch.....
Address
..... Telephone No.

M