ISSN 0917−7388

COMMUNICATIONS IN 東亞天文學會『火星通信』since 1986

MARS No. 367

25 January 2010

OBSERVATIONS Published by the OAA Mars Section

CMO 2009/2010 Mars Report #11

OAA Mars Section

CMO Mars Observations during the First Half of January 2010

from 1 January (λ=032°Ls) to 15 January 2010 (λ=038°Ls)

2010年一月前半(1 Jan~15 Jan 2010)の火星面観測

This time we deal with the observations issued during the fortnight period from 1 Jan (λ=032°Ls) to 15 Jan (λ=038°Ls). During the period the apparent diameter δ went up from 12.7" to 13.8": Since the maximal diameter of this season is 14.1" and hence we just come as if to a mountain pass. The phase angle ι went down thus from 22° to 12°. The central latitude was from φ=18°N to 17°N. The apparent declination D was further up from 18.75°N to 20.5°N and the planet is very high up when it passes the meridian. It is now possible to observe in Japan for about 10 hrs or more one night during which the planet rotates about 150 degrees. Unfortunately however in winter in Japan the seeing remains poor: Furthermore at the rear side of the island (including Fukui) the weather remains dismal.

♂・・・・・今回は年初1Jan(λ=032°Ls)から15Jan(λ=038°Ls)迄の半月の観測を扱う。この間視直径δは12.7"から13.8"まで延びた。今年の最大視直径は14.1"であるから、もう峠に來ている。中央緯度はφ=18°Nから17°Nに落ちた。位相角ιは22°から12°となり、随分円くなった。視赤緯Dは18.75°Nから20.5°Nへと高くなっている。19Janに福井で久し振りの晴が來たので、シーイングは度外視して東の低空から西の低空まで追ってみたが、10.5時間ほど観測可能であった。火星の角度にすると、155°Wほど眺められる。なお、火星の高度が上がるにつれて然程シーイングが好くなる訳ではなく、上空の気流の問題でこれはままならない。

♂・・・・・ We received the observations this time as follows. 今回拝受の報告は次の通りである。

ADELAAR, Jan ヤン・アデラール (*JAd*) オランダ Arnhem, Nederland

1 Set of *Colour* Images (2 January 2010) 23cm SCT @*f*/40 with a DMK21AF

ARDITTI, David デイヴィッド・アーディッチ (*DAr*) 英国Stag Lane, Edgware, UK

1 Set of *RGB* Images (4 January 2010) 36cm SCT with a SKYnyx 2-0

BATES, Donald R ドン・ベーツ (*DBt*) テキサス Cypress, TX, USA

4 *Colour* Images (2, 5, 10, 13 January 2010) 25cm speculum @*f*/30 with a ToUcam Pro II

BOLZONI, Simone スィモーネ・ボルツォーニ (*SBl*) イタリア Busto Arsizio, Italia

1 *Violet* Image (15 January 2010) 20cm SCT with ToUcam Pro II

CASTRO ARMARIO, Fidel フィデル・カストロ=アルマリオ (*FCs*) セビーヤ Sevilla, España

1 *Colour* Image (9 January 2010) 13cm refractor with a ToUcam Pro II

DIERICK, Dominique ドミニク・ディーリック (*DDr*) ベルギー Ghent, Belgium

1 *Colour* Image (4 January 2010) 25cm speculum @*f*/30 with a DMK21AF

EDWARDS, Peter ピーター・エドワーズ (*PEd*) 英国 Horsham, West Sussex, UK

3 *Colour* Images (2, 4/5 January 2010) 28cm SCT @*f*/20, 30 with a DMK21AU04

FERNÁNDEZ GÓMEZ, Francisco José フランシスコ-ホセ・フェルナンデス=ゴメス(*FFn*) オウレンセ Ourense, España

1 *Colour* Image (5 January 2010) 20cm SCT with a Meade LPI

FLANAGAN, William D ビル・フラナガン(*WFl*) テキサス Houston, TX, USA

4 Sets of *LRGB* Images (6, 11 January 2010) 36cm SCT@*f*/36 with a Lu075M

FONTANILLAS LOPEZ, Nicolás ニコラス・フォンタニヤス=ロペス (*NFt*) セビーヤ Sevilla, España

2 *Colour* Images (2, 9 January 2010) 21cm Dall-Kirkham @*f*/40 with an SPC900

GARBETT, Peter J ピーター・ガーベット (*PGb*) 英国 Sharnbrook, Bfd, UK

1 Set of *RGB* Images (4 January 2010) 36cm SCT @*f*/45 with a SKYnyx 2-0 M

GHOMIZADEH, Sadegh サデグ・ゴミザデ (*SGh*) テヘラン Tehran, Iran

7 *Colour* + 4 *R* + 6 *B* Images (2, 6,~10, 15 January 2010) 28cm SCT @*f*/30, 37 with a DMK21AU04.AS

GORCZYNSKI, Pete ピート・ゴルチンスキー (*PGc*) コネチカットOxford, CT, USA

5 Sets of *RGB* + 5 *IR* Images (7, 9, 10, 11, 14 January 2010) 36cm SCT @*f*/34 with a DMK21AF04

GRAFTON, Edward A エド・グラフトン (*EGf*) テキサス Houston, TX, USA

1 Set of *LRGB* Images (11 January 2010) 36cm SCT @*f*/39 with an ST402

GREGO, Peter ピーター・グレゴ (*PGr*) 英国 St Dennis, Cornwall, UK

1 Set of *Colour* Drawings (4 January 2010) 290×20cm SCT

HERNANDEZ, Carlos E カーロス・ヘルナンデス (*CHr*) フロリダMiami, FL, USA

1 *Colour* Drawing (3 January 2010) 300×23cm Maksutov-Cassegrain

KIDD, Simon D サイモン・キッド (*SKd*) 英国 Welwyn, Herts, UK

1 *Colour* Image (4 January 2010) 36cm SCT @*f*/35 with with a DBK21AF04 AS

KINGSLEY, Bruce A ブルース・キングスレイ (*BKn*) 英国 Maidenhead, UK

1 *Colour* Image (9 January 2010) 35cm SCT @*f*/41 with a SKYnyx2-0

KOHZAKI, Ichiro 神崎 一郎 (*Kz*) 東久留米 Higashi-Kurume, Tokyo, Japan

35 Drawings (1, 2, 5,~8, 10, 11, 13,~15 January 2010) 240, 300, 340, 480×20cm speculum

KUMAMORI, Teruaki 熊森 照明 (*Km*) 堺 Sakai, Osaka, Japan

4 Sets of *Colour* Images (1, 5, 14, 15 January 2010) 20cm Dall-Kirkham @*f*/70 with a DMK21AF04/DFK21AF04

LAWRENCE, Pete ピート・ローレンス (*PLw*) 英国 Selsey, WS, UK

4 *Colour* + 1 *B* + 1 *IR* Images (2, 4, 5, 7 January 2010) 36cm SCT @*f*/67 with a SKYnyx2-0M

LEWIS, Martin R マーチン・ルウィス (*MLw*) 英国 St. Albans, Hertfordshire, UK

1 *Colour* Image (3 January 2010) 22cm speculum @*f*/46 with a DMK21AF04.AS

MELILLO, Frank J フランク・メリッロ (*FMl*) ニューヨークHoltsville, NY, USA

1 *Colour* Image (11 January 2010) 25cm SCT with a ToUcam pro II

MINAMI, Masatsugu 南 政次 (*Mn*) 福井 Fukui*, Fukui, Japan

10 Drawings (4, 10 January 2010) 340, 400×20cm Goto ED refractor*

MORITA, Yukio 森田 行雄 (*Mo*) 廿日市 Hatsuka-ichi, Hiroshima, Japan

8 Sets of *RGB* + 8 *L* Images (3, 6 January 2010) 25cm speculum @*f*/75 with a Lu-075M

MURAKAMI, Masami 村上 昌己 (*Mk*) 藤澤 Fujisawa, Kanagawa, Japan

14 Drawings (7, 9, 10, 14, 15 January 2010) 320×20cm *F*/8 speculum

NAKAJIMA, Takashi 中 島　孝 (*Nj*) 福井 Fukui*, Fukui, Japan

7 Drawings (7 January 2010) 340, 400×20cm Goto ED refractor*

PARKER, Donald C ドン・パーカー (*DPk*) フロリダ Miami, FL, USA

1 Set of *RGB* + 1 *nIR* + 1 *UV* Images (1 January 2010)
41cm *F*/6 speculum @*f*/22 with a SKYnyx 2-0M

PARKER, Timothy J ティム・パーカー (*TPk*) カリフォルニア LA, CA, USA

1 *Colour* Image (9 January 2010) 15cm speculum with a Flea2 Color camera

PEACH, Damian A デミアン・ピーチ (*DPc*) 英国 High Wycombe, Bucks, UK

7 Sets of *Colour* + 1 *R* Images (1, 4 January 2010)
36cm SCT @*f*/40 with a SKYnyx 2-0M

PELLIER, Christophe クリストフ・ペリエ (*CPl*) フランス Seine-St-Denis, France

2 Sets of *RGB* + 2 *IR* Images (2 January 2010) 25cm Cassegrain @*f*/50 with a SKYnyx 2-0M

PHILLIPS, James ジム・フィッリプス (*JPh*) サウスカロライナ Charleston, SC, USA

1 Set of *Colour* Images (11 January 2010) 20cm refractor @*f*/45 with a SKYnyx cam

POUPEAU, Jean-Jacques ジャン=ジャック・プーポー (*JPp*) フランス Essonne, France

3 Sets of *RGB* + 3 *LRGB Colour* Images (4, 5 January 2010)
35cm Cassegrain @*f*/29 with a SKYnyx 2-0

SÁNCHEZ, Jesús R ヘスス・サンチェス (*JSc*) コルドバ Córdova, España

2 Sets of *Colour* Images (2, 10 January 2010) 28cm SCT @*f*/30 with a DMK21AF04 AS

SHARP, Ian イアン・シャープ (*ISp*) 英国 Ham, West Sussex, UK

1 *Colour* Image (4 January 2010) 28cm SCT @ *f*/57 with a SKYnyx 2-0M

SMET, Kris クリス・スメト (*KSm*) ベルギー Bornem, Belgium

2 *Colour* Drawings (1, 3 January 2010) 280×30cm Dobsonian

TATUM, Randy ランディ・テータム (*RTm*) ヴァージニア Henrico, VA, USA

1 *Colour* Image (11 January 2010) 25cm speculum with a ToUcam Pro

TYLER, David デーヴ・タイラー (*DTy*) 英国 Flackwell Heath, Bucks, UK

5 *Colour* + 3 *B* Images (1, 3/4 January 2010) 36cm SCT @*f*/44, 55 with a SKYnyx 2-0

WARREN, Joel ジョエル・ウォーレン (*JWn*) テキサス Amarillo, TX, USA

5 Sets of *RGB* Images (1, 10, ~12 January 2010) 28cm SCT (⊗3×Barlow) with a DBK21AF04.AS

(*Fukui City Observatory 福井市自然史博物館屋上天文台)

♂・・・・・***A) Clearing-Up of the Ætheria District***: We first treat the case of the clearance of a thin cloud over the Æteria district from the north of Syrtis Mj whose fact was pointed out by Christophe PELLIER (*CPl*) in the preceding issue (LtE). The B image of J.-J POUPEAU (*JPp*) on 4 Jan (λ=033°Ls) at ω=254°W shows explicitly that the district was quite dark, and it may be possible for us to be allowed to see the clear wine-coloured over the area. *JPp*'s B image on 5 Jan (λ=033°Ls) at ω=280°W also shows the similar situation. Going back we may be able to point out the situation on S GHOMIZADEH (*SGh*)'s image on 2 Jan (λ=033°Ls) at ω=264°W, and also D TYLER (*DTy*)'s B image on 3 Jan (λ=033°Ls) at ω=244°W proves it very clearly. See also M LEWIS (*MLw*)'s image at ω=265°W. On 4 Jan (λ=033°Ls), D PEACH (*DPc*) caught it at ω=291°W, 297°W in B, and P GARBETT (*PGb*) also showed it at ω=287°W. D ARDITTI (*DAr*)'s image at ω=307°W also suggests it though it is not yet timely. Such a phenomenon must be accompanied by the qualified B images, but it depends on the skilfulness how far it may be clearly shown in the RGB colour images. P LAWRENCE (*PLw*)'s B image on 7 Jan (λ=034°Ls) at ω=271°W still clearly shows the phenomenon, and his RGB conveys it evidently. P GORCZYNSKI (*PGc*)'s B on 11 Jan (λ=036°Ls) at ω=286°W also shows it but slightly dull in the RGB: *PGc* also caught it at a good angle on 14 Jan (λ=038°Ls) at ω=258°W,

(though this set of images contained a lot of ghosts). Going further back to the end of last month, the area faced to Japan. However T AKUTSU (*Ak*)'s B on 20 Dec (λ=026°Ls) at ω=271°W is no good because of the poor seeing, but Y MORITA (*Mo*)'s and *Ak*'s on 24 Dec (λ=028°Ls) at ω=237°W and at ω=243°W respectively seem to show it but not conspicuous. In 2007, *DPc*'s image on 5 Feb 2008 (λ=028°Ls) at ω=264°W may show it and *Mo*'s on 21 Feb 2008 (λ=035°Ls) at ω=257°W also suggest but very weak. This may be a seasonal, but can also be possibly a precursory or ending of something. **B) The NPC:** The north polar cap (npc), thawing, receives the heats from both outside and inside as the Sun moves to the northern hemisphere. The later will show us a less bright region connected with the residual polar cap: The nph now looks to have ceased its violent activity. On 1 Jan (λ=032°Ls) at ω=328°W~345°W, *DPc*'s npc shows a roundish cap but still shows a morning mist at the tail of the npc. D PARKER (*DPk*)'s image on the day at ω=028°W also shows a misty morning arctic region. *CPl*'s excellent images on 2 Jan (λ=032°Ls) at ω=303°W, 354°W prove that the perimeter of the npc is not smooth but looks zigzagged. His B also shows a shade and light inside the npc, and hence it is possible some clouds haunt over the npc. J ADELAAR (*JAd*)'s images on the day at ω=303°W looks quiet but the npc in B is not uniform. The npc of *DPc*'s images on 4 Jan (λ=033°Ls) at ω=271°W~304°W do not show the uniformity even in B, and in R the dark line is evident which may be considered to the boundary of the residual cap. It runs obliquely on *PGb*'s R image at ω=287°W. This is also seen on the images of J WARREN (*JWn*) on 10 Jan (λ=036°Ls) at ω=316°W, 322°W and may be connected. The zigzagged boundary of the npc is also quite evident on the images of W FLANAGAN (*WFl*) produced on 6 Jan (λ=034°Ls) at ω=028°W, 033°W, and the triangle area of the NW part of M Acidalium is particularly dark adjacent to the npc. The dark band along the npc is seen on F CASTRO (*FCs*)'s image on 9 Jan (λ=035°Ls) at ω=247°W and N FONTANILLAS (*NFt*)'s on the day at ω=255°W, whereas other images on the day by B KINGSLEY (*BKn*)'s at ω=238°W and *SGh*'s at ω=241°W do never show it at all. The zigzagged outer boundary of the npc can also be seen on the images on 11 Jan (λ=036°Ls) by E GRAFTON (*EGf*) at ω=319°W, and it is also evident on the images on the same day by *WFl* at ω=322°W and 327°W. *WFl*'s images suggest the boundary is accompanied by a fine dark band. It is interesting to see that a primetrical part of the npc gets into a dark band (Arethusa L?). This kind of irregularity is also visible in *PGc*'s images on 14 Jan (λ=038°Ls) at ω=258°W. Incidentally the irregularity of the boundary of the npc can be checked by the naked eyes: One of us (*Mn*) saw it on 10 Jan (λ=036°Ls) at ω=059°W etc, and I KOHZAKI (*Kz*) pointed out on 14 Jan (λ=038°Ls) at ω=043°W that the perimeter is not roundish. **C) Cloud over Elysium Mons:** Elysium Mons in this season of the Martian year is known to be covered by a cloud near and after noon, and every image corresponding trapped the cloud clearly and so we omit here to cite each (if one example is needed, we choose *MLw*'s one on 3 Jan (λ=033°Ls) at ω=265°W near the evening terminator). However there has been little known the statistics of the bright Elysium Mons, and hence observations are quite necessary and we will touch upon it after the next apparition ends. *SGh*'s B images on 6 Jan (λ=034°Ls) at ω=212°W and on 7 Jan (λ=035°Ls) at ω=207°W show it around the noon, but ι was 18° so that it was afternoon. The opposition effect will be interesting but a bit ahead. **D) Olympus Mons and Others:** The evening cloud of Olympus Mons may be also found on every image if the angle is appropriate (needless to say about other Tharsis Montes). When one takes the pictures, it is moderate to take B (or R) image soon after the R (or B) image. This time Tharsis Montes were seen from the Orient. The B image of *Mo* on 3 Jan (λ=033°Ls) at ω=134°W is from a good angle and several cloud patches were caught including Alba Patera. *Mo* chased this night from ω=125°W to 174°W. KUMAMORI (*Km*)'s images on 5 Jan (λ=034°Ls) at ω=125°W show the trace of Tharsis Montes, but no one of Olympus Mons. The phase angle ι was 20°. See however *Mo*'s 3 Jan ω=125°W. In *Km*'s case the use of L

filter is main, and B might have been careless. It is anyway interesting to look for when it begin to appear. This time an appropriate image of the orographic cloud of Olympus Mons was taken by J SÁNCHEZ (*JSc*) on 15 Jan (λ=038°Ls) at ω=178°W. ***E) Evening Mists:*** A white bright cloud at Edom near the terminator was shot by *DPk* on 1 Jan (λ=032°Ls) at ω=028°W. *Km* also showed a similar cloud on 14 Jan (λ=038°Ls) at ω=038°W. *Kz* saw a larger evening mist to the north of Meridiani S on 13 Jan (λ=037°Ls) at ω=022°W. On 9 Jan (λ=036°Ls) at ω=045°W, T PARKER (*TPk*) showed a strange not misty protrusion and it became current topics: Perhaps it must have been depended on the procedure. *WFl* showed a white mist to the north of Meridiani S on 6 Jan (λ=034°Ls) at ω=028°W, 033°W. Another of us (*Mk*) saw white mists to the north of S Meridiani on 14 Jan (λ=038°Ls) at ω=026°W, and 15 Jan (λ=038°Ls) at ω=015°W, 024°W etc. On the other hand, *CPl* detected an evening cloud at Libya which invaded Syrtis Mj on 2 Jan (λ=032°Ls) at ω=354°W. The Libya evening cloud was also caught by *PGc* on 9 Jan (λ=035°Ls) at ω=321°W, by J PHILLIPS (*JPh*) on 11 Jan (λ=036°Ls) at ω=313°W, and by *WFl* at ω=322°W, 327°W on the same day. Speaking of the evening mist, Chryse-Xanthe one is representative and was also trapped by *Mo* on 6 Jan (λ=034°Ls) at ω=104°W, 111°W, and by *Kz* observed on 7 Jan (λ=035°Ls) at ω=097°W, by *Mk* at ω=105°W, 114°W: Similarly on 8 Jan (λ=035°Ls) *Kz* saw it at ω=066°W, 076°W, on 9 Jan (λ=036°Ls) *Mk* did at ω=045°W, 055°W, on 10 Jan (λ=036°Ls) *Mk* checked it at ω=056°W, 076°W, and also *Kz* at ω=073°W. Otherwise *PGb* described an evening mist over the Elysium area on 4 Jan (λ=033°Ls) at ω=287°W, and K SMET (*KSm*)'s pretty colour drawing on 3 Jan (λ=033°Ls) at ω=252°W suggests it. Since ι has become smaller, the morning mist was also more partly seen: For example *DTy* showed a Chryse morning mist on 1 Jan (λ=032°Ls) at ω=330°W, and so on, but almost all images are not yet good at the procedure of the morning limb, and so we here do not touch anymore. ***F) Tempe:*** Perhaps as the planet is near at opposition, the name of Tempe is frequently used: *Kz* observed a light zone of Tempe on 8 Jan (λ=035°Ls) at ω=066°W, *Mk* saw a light belt from Tempe on 10 Jan (λ=036°Ls) at ω=056°W: On the same day *Mn* also saw a light patch at Tempe at ω=068°W. ***G) M Serpentis:*** The aspect of M Serpentis was fully described by a superb images of *DAr* on 4 Jan (λ=033°Ls) at ω=307°W. Next image will be *PGc*'s one on 9 Jan (λ=035°Ls) at ω=321°W. ***H) Descriptions of the Southern Limb:*** Including the observation of C HERNANDEZ (*CHr*) on 3 Jan (λ=033°Ls) at ω=004°W and P GRECO (*PGr*) on 4 Jan (λ=033°Ls) at ω=236°W, 241°W, every visual observation made in Japan shows that the southern limb is very bright, but the ccd images do not show it necessarily: **1 Jan:** *DPk*'s excellent image at ω=028°W shows a light limb area centred at Argyre. *Km*'s limb ω=159°W is just like a mist. *KSm*'s colour drawing shows a light Hellas at ω=270°W. **2 Jan:** On P EDWARDS (*PEd*)'s image at ω=290°W Hellas is near the CM but not light. On BATES (*DBt*)'s at ω=004°W the southern limb is like protruded. **3 Jan:** *Mo*'s images at ω=125°W~174°W show a misty matter at the S limb. *MLw*'s image at ω=265°W shows a misty matter independent of Hellas. **4 Jan:** *DPc*'s S limb at ω=271°W~304°W looks misty but weak. SHARP (*ISp*)'s ω=280°W depicts it more whitish. There is none on S KIDD (*SKd*) and DODI (*DDi*) at ω=281°W. *DAr*'s ω=307°W also does not show. *JPp*'s image at ω=254°W shows a misty matter and *PEd*'s at ω=258°W does a considerable light S limb. **5 Jan:** FERNÁNDEZ=GOMEZ (*FFn*)'s ω=269°W shows a misty matter including Hellas. On *PLw*'s image at ω=278°W it is shadowy including Hellas. *JPp*'s one at ω=280°W shows a mist at the S limb because of B. *Km*'s S limb is light at ω=125°W. **6 Jan:** *WFl*'s images at ω=028°W, 033°W show a widely light limb around Argyre. *Mo* describes the limb misty at ω=104°W, 111°W. *SGh*'s one shows a mist declined to the westward at ω=212°W. **7 Jan:** *PLw*'s image at ω=271°W show this time clearly a mist entangled with Hellas. *PGc*'s at ω=023°W is connected with the bright Argyre. *SGh*'s ω=207°W shows a mist at the SW limb. **8 Jan:** *SGh*'s ω=178°W shows a bit in B but killed in LRGB. **9 Jan:** *BKn's* shows a bit in B at ω=

238°W, but the composite is not good. *FCs*'s ω=247°W shows clearly the mist which is connected with Hellas. *NFt*'s S limb at ω=255°W is unknown. *PGc*'s image at ω=321°W depicts a western limb haze independent of Hellas. *TPk*'s image at ω=045°W is covered by the Argyre cloud. **10 Jan:** *SGh*'s image at ω=232°W shows a mist to the east of the limb Hellas. *JSc*'s at ω=233°W is blurred at the limb. *DBt*'s at ω=293°W shows Hellas near the CM which is misty. *PGc*'s at ω=312°W shows Hellas but it is not hazed. Nothing is seen on *JWn*'s at ω=316°W, 322°W. **11 Jan:** *PGc*'s image at ω=286°W shows Hellas near the CM and a bit misty in B. F MELILLO (*FMl*)'s at ω=291°W does not show the effect of B light. R TATUM (*RTm*)'s image at ω=303°W does not tell much about the limb. *JWn*'s image at ω=311°W shows Hellas and its western limb misty. *JPh*'s image at ω=313°W seems to show a cloud in Hellas. *EGf*'s image was at ω=319°W, but he lays a stress on L more than B so that the mist is hard to be reproduced. On the images of *WFl* at ω=322°W, 327°W it is shown a limb haze towards west independent of Hellas. **12 Jan:** Hellas is dull on *JWn*'s images at ω=296°W (299°W). **13 Jan**: *DBt*'s image at ω=257°W shows something in Hellas and its east. **14 Jan:** *Km*'s image at ω=038°W shows the bright Argyre. **15 Jan:** Nothing on *SGh*'s at ω=176°W. A little bit on *JSc*'s at ω=178°W. *Km* shows Argyre at ω=026°W. S BOLZONI (*SBl*)'s ω=122°W does not show anything at the S limb. ***l) "Opposition Effect" of the Dark Markings*:** One of us (*Mn*) is of the opinion that the dark markings also receive the "opposition effect" at the opposition time. For example we hitherto witnessed several times that Nilokeras was very dark brownish when it sank to the rear side from the terminator around October 2009 (eg on 28 Oct (λ=001°Ls) at ω=072°W, ι= 40° and on 29 Oct (λ=002°Ls, ι=40°) at ω=082°W etc in *Mn*'s case). However at present it is not so dark. On 4 Jan (λ=033°Ls, ι=20°) at ω=122°W *Mn* did not feel Nilokeras was so dark, and on 10 Jan (λ=036°Ls) at ω=088°W it was no more than faintly caught. See also *Mo*'s ccd images on 6 Jan (λ=034°Ls) at ω=104°W, 111°W where Nilokeras looks fainter. In contrast, on his images on 30 Oct 2009 (λ=002°Ls, ι=40°) at ω=084°W it was quite dark. This kind of difference can also be said about the area around Aurorae S. That is, usually when ι is large the shadows of topographies make the markings darker than the original. So the true density or intensity of the markings should be counted when the planet was near at opposition. This should be also said about the colour of the markings. The dark brownish markings may heavily owe to the shadows of the geophysical features. If you will make use of the L filters to a large extent the true colour will not show up. *Mn* observed generally that the dark markings on the southern hemisphere are dark blue or light blue but on 10 Jan (λ=036°Ls) at ω=068°W a part of Margaritifer S contained a sky-blue patch, and so he considered that it also belonged to an opposition effect. During the period when the planet is near at opposition we should be more careful about the colour (as well as the density distribution).

♂·····**A) アエテリアの晴れ上がり**：ここでは最初にペリエ(CPl)氏によって指摘されたアエテリアの薄雲の晴れ上がりについて述べる(前号LtE参照)。プーポー(JPp)氏の4Jan(λ=033°Ls)ω=254°WのB像にはシュルティス・マイヨルからアエテリアに掛けて北が暗くなっていて、丁度火星面の葡萄酒色の色が出やすい状態になっているというものである。JPp氏の5Jan(λ=033°Ls)ω=280°WのBにも残っている。実際は2Jan(λ=033°Ls)のゴミザデ(SGh)氏のω=264°WのBにも指摘できないことはないし、タイラー(DTy)氏の3Jan(λ=033°Ls)ω=244°Wには著しい。同日のルキス(MLw)氏のω=265°Wにも注意。4Jan(λ=033°Ls)にはピーチ(DPc)氏がω=291°W、297°WのBで捉え、ガーベット(PGb)氏がω=287°Wで示している他、アーディッチ(DAr)氏のω=307°Wは時間的に早すぎるが片鱗は見える。こうした現象はB光が無くてはならないが、カラーにどれだけ反映させるかは腕次第であろう。ワインカラーが出ることが望ましい。ローレンス(PLw)氏の7Jan(λ=034°Ls)ω=271°WでもBで明瞭だが、RGBではこの辺りがクリアーになっている。ゴルチンスキィ(PGc)氏の11Jan(λ=036°Ls)ω=286°WのBで稍見られるが、RGBは少し燻んでいる。PGc氏は14Jan(λ=038°Ls)ω=258°Wでも好い角度で捉えている。但しB像以外この像はゴ

ーストが多すぎる。溯って昨年の十二月を見てみるに、20Dec(λ=026°Ls)ω=271°Wの阿久津(Ak)氏の像はシーイングの所為か酷すぎる。24Dec(λ=028°Ls)には森田(Mo)氏がω=237°W、Ak氏のω=243°Wで稍見られるかといったところだが顕著ではない。2007年の場合、DPc氏の5Feb2008(λ=028°Ls)ω=264°WのBにやや見られるかも知れないし、Mo氏の21Feb2008(λ=035°Ls)ω=260°Wにも見られないことはないが弱い。季節的なものかも知れないが、何かの予兆かも知れない。**B) 北極冠**：北極冠は太陽が北側に移るにつれて、外側からと内側(白夜)から攻められながら縮小してゆく運命にある。後者は内部に暗部を作ってゆく。北極雲の靄は余り活動しなくなっていると思われる。1Jan(λ=032°Ls)ω=328°W~345°WのDPc氏の像では北極冠は円く綺麗に見えるが、朝方には霧が出る様である、パーカー(DPk)氏の同日ω=028°Wでも朝方が靄って居る。CPl氏の2Jan(λ=032°Ls)ω=303°W、354°Wでは北極冠の境界が実は滑らかでなく、ガタガタしていることを示しており、Bでは濃淡が出ているので雲が活動している可能性は未だある。アデラール(JAd)氏の同日のω=303°Wは地味な像だが、B光での北極冠には濃淡がある。DPc氏の4Jan(λ=033°Ls)のω=271°W~304°WでのBでも濃淡が描写されているが、Rでは永久極冠部との境が暗線としでており、PGb氏のω=287°WのRでは斜めに走っている様に見える。これはウォーレン(JWn)氏の10Jan(λ=036°Ls)ω=316°W、322°Wに見られる亀裂と思しきものと繋がりがあるかも知れない。北極冠縁のギザギザはフラナガン(WFl)氏の6Jan(λ=034°Ls)ω=028°W、033°Wに如実であり、マレ･アキダリウム北西部の三角形模様が北極冠に接して矢鱈濃い。北極冠の縁の濃さはフィデル・カストロ(FCs)氏の9Jan(λ=035°Ls)ω=247°Wや同日のフォンタニヤス(NFt)氏のω=255°Wには好く現れているのであるが、どういう訳か同じ日のキングスレイ(BKn)氏のω=238°WやSGH氏のω=241°Wには全く顕われていない。なお、北極冠の縁のギザギザは11Jan(λ=036°Ls)のグラフトン(EGf)氏のω=319°Wで明らかであるし、同日のWFl氏のω=322°W、327°Wで鮮明だが、特に後者は縁に暗線を伴っているようである。アレトゥサ・ラクスへの北極冠の入り方は興味がある。こうした不規則性はPGc氏の14Jan(λ=038°Ls)ω=258°Wにも見られる。尚肉眼でも、北極冠が円でないことは判る。筆者の一人(Mn)は10Jan(λ=036°Ls)ω=059°W等で感じているし、神崎(Kz)氏も14Jan(λ=038°Ls)ω=043°W等で指摘している。**C) エリュシウム・モンスの午後雲**：エリュシウム・モンスが午後に入ると雲を被る様子はどの該当画像にも捉えられているのでここでは省く(一例を挙げればMLw氏の3Jan(λ=033°Ls)ω=265°Wの夕端)。エリュシウムについては未だ上手な統計が取られていないので観測は重要であるが、來接近が済んでからの話になるだろう。なお、SGh氏の6Jan(λ=034°Ls)ω=212°Wや7Jan(λ=035°Ls)ω=207°Wでは恰も正午頃出ているような感じを与えるが、未だιが18°もあり、一時間以上差があるので、正午ではない。また衝効果の話も早い。**D) オリュムプス･モンスなど**：オリュムプス･モンスの夕雲も該当する像には必ず出ている筈である。出来るだけR像とB像は時間を離さないで撮って貰いたい。今回は東洋からで、Mo氏の3Jan(λ=033°Ls)ω=134°WのB像などが好い角度で幾つも山岳雲が撮られ、アルバ・パテラの夕雲も出ている。Mo氏のこの日の追跡(ω=125°W~174°Wまで)はグーである。なお、熊森(Km)氏の5Jan(λ=034°Ls)ω=125°Wにはタルシス三山の痕跡は見られるが、オリュムプス･モンスは見られない。BよりLを優先しているからとは思われないが、オリュムプス･モンスの夕雲は出が遅いからかも知れない(但し、Mo氏の上の3Janω=125°W参照)。今回のオリュムプス･モンスはサンチェス(JSc)氏の15Jan(λ=038°Ls)ω=178°Wが適切である。**E) 夕霧**：1Jan(λ=032°Ls)ω=028°WのDPk氏像には夕端のエドムにクッキリと雲が出ている。Km氏も14Jan(λ=038°Ls)ω=038°Wで同じ様な雲を出した。Kz氏は13Jan(λ=037°Ls)ω=022°Wにシヌス・メリディアニの北に夕雲を描いている。尚、9Jan(λ=036°Ls)ω=045°Wでティム・パーカー(TPk)氏が雲だか何だか分からないが、夕端の盛り上がりを見せ話題になった。多分処理の問題だと思う。WFl氏も6Jan(λ=034°Ls)ω=028°W、033°Wでシヌス・メリディアニの北に霧を出している。我々のもう一人(Mk)も14Jan(λ=038°Ls)ω=026°W、15Jan(λ=038°Ls)ω=015°W、024°Wなどではシヌス・メリディアニの北に白雲を認めている。一方CPl氏は2Jan(λ=032°Ls)ω=354°Wにリビュア夕雲がシュルティス・マイヨルを侵している様子を伝えている。リビュア夕雲はPGc氏の9Jan(λ=

035°Ls)ω=321°W、フィリップス(JPh)氏の11Jan(λ=036°Ls)ω=313°W、WFl氏の同日のω=322°W、327°Wにも顕れている。夕霧といえばクリュセ-クサンテだが、ccdではMo氏が6Jan(λ=034°Ls)ω=104°W、111°Wでクサンテ雲を写し出し、7Jan(λ=035°Ls)Kz氏がω=097°Wで、Mkがω=105°W、114°Wで描き8Jan(λ=035°Ls)にはKz氏がω=066°W、076°W、9Jan(λ=036°Ls)にはMkがω=045°W、055°Wで、10Jan(λ=036°Ls)にはMkがω=056°W、066°W、Kz氏がω=073°W等で描いている。他にPGb氏が4Jan(λ=033°Ls)ω=287°Wでエリュシウムの夕端の雲を出しているようである。スメト(KSm)氏の3Jan(λ=033°Ls)ω=252°Wの綺麗なスケッチにもその趣がある。なお、ιが小さくなってきた為、朝霧も圏内に入ってきて、DTy氏の1Jan(λ=032°Ls)ω=330°W等クリュセの朝霧が見えるのであるが多くの画像がリム処理が正確でなく、ここでは省略する。**F) テムペ**：衝に近付いた所為か久し振りにテムペの名が出る。Kz氏が8Jan(λ=035°Ls)ω=066°Wでテムペが明るいとし、Mkは10Jan(λ=036°Ls)ω=056°Wでテムペから西へ延びる明帯を見ている。同日Mnもω=068°Wでテムペに明斑を見ている。**G) マレ・セルペンティス**：マレ・セルペンティスの様子はDAr氏の秀逸な4Jan(λ=033°Ls)ω=307°Wの像に見られるものに尽きる。その次にはPGc氏の9Jan(λ=035°Ls)ω=321°Wであろう。**H) 南縁描写**：眼視観測ではヘルナンデス(CHr)氏の3Jan(λ=033°Ls)ω=004°Wやグレコ(PGr)氏の4Jan(λ=033°Ls)ω=236°W、241°Wのスケッチも含めて、日本の眼視観測でも南縁はいつも明るいのであるが、ccdでは処理の問題も含むのか、必ずしもそうではない。順次見てみる：**1Jan**：DPk氏の秀逸なω=028°Wではアルギュレを中心に明縁を拡げる。Km氏のω=159°Wは霧のよう、KSm氏の綺麗なスケッチはω=270°Wでヘッラスをやや明るく描く。**2Jan**：エドワーズ(PEd)のω=290°Wはヘッラスが頂点だが明るくない。ベーツ(DBt)氏のω=004°Wは南部が飛び出しているように見える。**3Jan**：Moのω=125°W~174°Wは南辺に霧状。MLw氏のω=265°Wにはヘッラスと独立して南縁に霧状。**4Jan**：DPc氏のω=271°W~304°Wは靄状、シャープ(ISp)氏のω=280°Wは白い霧状に描く。キッド(SKd)氏とドッヂ(DDr)氏のω=281°Wには全く見られない。DAr氏のω=307°Wにも殆ど見られない。JPp氏のω=254°Wには靄状、PEd氏のω=258°Wではかなり明るい南辺。**5Jan**：フェルナンデス=ゴメス(FFn)氏のω=269°Wはヘッラスを含んで靄状、PLw氏のω=278°Wはヘッラスも全く暗い、JPp氏のω=280°WはBの光が作用して南縁に霧、Km氏のω=125°Wの南縁は明るい。**6Jan**：WFl氏のω=028°W、033°Wはアルギュレ中心に広く明るい、Mo氏のω=104°W、111°Wは南端に霧状、SGh氏のω=212°Wは西に傾いて霧状。**7Jan**：PLw氏のω=271°Wは一転してヘッラス絡みの靄、PGc氏のω=023°Wはアルギュレ絡み、SGh氏のω=207°Wは南西端に靄、**8Jan**：SGh氏のω=178°WはBに少し出るがLRGBでは生きない。**9Jan**：BKn氏のω=238°WはBには出ている様だが合成が拙い、FCs氏のω=247°Wには綺麗に出てヘッラスに連結している、NFt氏のω=255°Wの南縁は不明、何も出ていない、PGc氏のω=321°Wヘッラスとは独立してその西に靄状、TPk氏のω=045°Wはアルギュレ絡み。**10Jan**：SGh氏のω=232°Wはヘッラスの東側に靄状、JSc氏のω=233°Wは惚けている、DBt氏のω=293°Wはヘッラス中心で靄が被っている、PGcのω=312°Wはヘッラスは見えるが靄ではない、JWn氏のω=316°W、322°Wには何もない。**11Jan**：PGc氏のω=286°Wはヘッラス中心で、Bに少し靄状、メリッロ(FMl)氏のω=291°WはBの役割が判らない、テータム(RTm)氏のω=303°Wはヘッラスの先、JWn氏のω=311°WはBでヘッラスとその西も靄状、JPh氏のω=313°Wはヘッラスに雲あり、EGf氏のω=319°WはBを重視し無い、L依存の像で靄が出にくい、WFl氏のω=322°W、327°Wはヘッラスと独立して西に靄あり。**12Jan**：JWn氏のω=296°W(299°W)のヘッラスは鈍い。**13Jan**：DBt氏のω=257°Wはヘッラスとその東、**14Jan**：Km氏のω=038°Wはアルギュレ、**15Jan**：SGh氏のω=176°Wは何にもない、JSc氏のω=178°Wは少々、Km氏のω=026°Wはアルギュレ、ボルツォーニ(SBl)のω=122°Wは何も見えない。**I) 暗色模様の衝効果**：Mnは暗色模様にも衝効果があると考えている。例をニロケラスに採ると、昨年の十月頃、夕端に沈むとき、実に茶系濃い姿で没してゆくのを何度も目撃しているが(例えば28Oct(λ=001°Ls)ω=072°W、ι＝40°や29Oct(λ=002°Ls、ι=40°)ω=082°Wなど)、ここに來て然程の濃度は感じない。4Jan(λ=033°Ls、ι=20°)ω=122°Wでは大した痕跡を見なかったし、10Jan(λ=036°Ls)ω=088°Wでも少々見えただけである。Mo氏のccdで

も6Jan(λ=034°Ls)ω=104°W、111°Wでは淡い姿である。これに対し、30Oct(λ=002°Ls、ι=40°)ω=084°Wでは可成りの濃度である。これはアウロラエ・シヌスにも言えることではないかと思う。つまり、通常ιが大きいときには蔭の影響を受ける夕方の模様で濃くなるものがあるということであり、衝に近付くに連れて蔭が薄れ本来の濃度に戻ってゆくというわけである。色に關しても似たようなことが起こる可能性がある。濃茶系と見られているものも蔭によるものが作用している可能性がある。Mnは南半球の模様は青色系と見ているが、10Jan(λ=036°Ls)ω=068°Wではマルガリティフェル・シヌスの辺りに綺麗な空色の大斑点があるのを見ていて、これもこうした衝効果作用かも知れない。衝に近い間は濃度だけに拘るのでなく(強調描写は禁物)、色彩などにも注意が必要である。

♂・・・・・In the next issue we shall review the observations made during the fortnight period from 16 January (λ=038°Ls, δ=13.8") to 31 January 2010 (λ=046°Ls, δ=14.1"). The planet is closest to the Earth on 27 January 2010 (λ=044°Ls).

南　政次・村上　昌己 M MINAMI & M MURAKAMI

Forthcoming 2009/2010 Mars (13)

Ephemeris for the Observations of the 2009/10 Mars. VII

March 2010

***Masami MURAKAMI* 村上　昌己(*Mk*)**

AS a sequel to the preceding Ephemeris, we here list the necessary elements of the Ephemeris for the physical observation of Mars from 1 March to 31 March 2010: The data are listed for every day at 00:00GMT (not TDT). ω and φ denote the longitude and latitude of the sub-Earth point respectively. The symbols λ, δ and ι stand for the areocentric longitude of the Sun, the apparent diameter and the phase angle respectively. We also add the column of the Position Angle *Π* of the axis rotation, measured eastwards from the north point: This is useful to determine the north pole direction from the *p*←. The apparent declination of the planet is also given at the final column. The data here are basically based on *The Astronomical Almanac for the Year 2010*.

Date (00:00GMT)			ω	φ	λ	δ	ι	*Π*	*D*
01	March	2010	133.81°W	12.5°N	057.96°Ls	12.11"	22.3°	-8.4°	+23°50'
02	March	2010	124.81°W	12.5°N	058.40°Ls	12.01"	22.8°	-8.5°	+23°49'
03	March	2010	115.79°W	12.5°N	058.84°Ls	11.92"	23.4°	-8.5°	+23°49'
04	March	2010	106.77°W	12.5°N	059.27°Ls	11.82"	23.9°	-8.6°	+23°48'
05	March	2010	097.74°W	12.5°N	059.71°Ls	11.72"	24.4°	-8.7°	+23°47'
06	March	2010	088.69°W	12.5°N	060.15°Ls	11.62"	24.9°	-8.7°	+23°46'
07	March	2010	079.63°W	12.5°N	060.59°Ls	11.52"	25.4°	-8.8°	+23°45'
08	March	2010	070.57°W	12.5°N	061.02°Ls	11.42"	25.9°	-8.8°	+23°43'
09	March	2010	061.49°W	12.5°N	061.46°Ls	11.32"	26.4°	-8.8°	+23°41'
10	March	2010	052.38°W	12.6°N	061.90°Ls	11.22"	26.8°	-8.8°	+23°39'
11	March	2010	043.28°W	12.6°N	062.34°Ls	11.12"	27.3°	-8.8°	+23°37'
12	March	2010	034.15°W	12.6°N	062.77°Ls	11.02"	27.7°	-8.8°	+23°35'
13	March	2010	025.03°W	12.7°N	063.21°Ls	10.92"	28.1°	-8.8°	+23°33'
14	March	2010	015.89°W	12.7°N	063.65°Ls	10.83"	28.5°	-8.8°	+23°30'
15	March	2010	006.73°W	12.8°N	064.09°Ls	10.73"	28.9°	-8.8°	+23°28'
16	March	2010	357.56°W	12.8°N	064.52°Ls	10.64"	29.2°	-8.8°	+23°25'
17	March	2010	348.40°W	12.9°N	064.96°Ls	10.54"	29.6°	-8.7°	+23°22'
18	March	2010	339.20°W	12.9°N	065.40°Ls	10.45"	30.0°	-8.7°	+23°19'
19	March	2010	330.01°W	13.0°N	065.84°Ls	10.36"	30.3°	-8.6°	+23°16'
20	March	2010	320.79°W	13.1°N	066.27°Ls	10.26"	30.7°	-8.6°	+23°12'
21	March	2010	311.58°W	13.1°N	066.71°Ls	10.17"	31.0°	-8.5°	+23°09'
22	March	2010	302.34°W	13.2°N	067.15°Ls	10.08"	31.3°	-8.4°	+23°05'

23	March	2010	293.11°W	13.3°N	067.59°Ls	9.99"	31.6°	-8.4°	+23°01'	
24	March	2010	283.85°W	13.4°N	068.02°Ls	9.90"	31.9°	-8.3°	+22°57'	
25	March	2010	274.60°W	13.5°N	068.46°Ls	9.81"	32.2°	-8.2°	+22°53'	
26	March	2010	265.32°W	13.6°N	068.90°Ls	9.73"	32.5°	-8.1°	+22°49'	
27	March	2010	256.05°W	13.7°N	069.33°Ls	9.64"	32.7°	-8.0°	+22°45'	
28	March	2010	246.77°W	13.8°N	069.77°Ls	9.56"	33.0°	-7.9°	+22°40'	
29	March	2010	237.47°W	13.9°N	070.20°Ls	9.47"	33.2°	-7.8°	+22°36'	
30	March	2010	228.17°W	14.0°N	070.64°Ls	9.39"	33.4°	-7.6°	+22°31'	
31	March	2010	218.84°W	14.1°N	071.08°Ls	9.31"	33.7°	-7.5°	+22°26'	
01	April	2010	209.52°W	14.2°N	071.51°Ls	9.23"	33.9°	-7.4°	+22°21'	
02	April	2010	200.20°W	14.3°N	071.95°Ls	9.15"	34.1°	-7.3°	+22°16'	- - -

便　り
Letters to the Editor

●・・・・・***Subject: Mars Drawings Kz07&08Jan 10***
Received: Sat 09 Jan 2010 00:16:09 JST

1月7日分及び8日分のスケッチを送付します。昨日も本日も、冬場にしては落ち着いたシーイングだったのですが、昨日は飲み会で帰宅が遅くなり、2枚しかとることができませんでした。本日は、途中から曇られてしまいました。明日は、天気予報によると昼間はぽかぽかの陽気で、夜も完全に晴れるということでシーイングが期待できそうなのですが、妻の実家に新年の挨拶に泊まりがけで行かなければならないため、おそらく、観測できないのではないかと思います。最近の火星面はあちこち雲と霧だらけで追いかけるのがおもしろいのですが、残念です。

○・・・・***Subject: Mars Drawings　Kz10Jan10***
Received: Mon 11 Jan 2010 14:09:05 JST

南先生、村上様、ご指導ありがとうございます。小数点の件は、CMOの記事で読んでいたのですが、ついついやってしまいました。申し訳ありません。1月10日のスケッチ2枚を送付します。昼間はぽかぽかでしたので、期待していたのですが、思ったほど気流の状態がよくなく、240×がやっとでした。

火星の見え方ですが、普通は高度が上がると気流の状態がよくなるものと思っていましたが、東久留米では、むしろ悪化するような状況で困っています。千葉で住んでいた家と異なり、周囲に家が建て込んでいるために、エアコンの室外機の影響などあるのかもしれません（それにしても、夜中ですので、そんなに室外機が回っているとも思えないのですが）。また、南中時には、家の庇に遮られるようになり(鏡筒は大丈夫なのですが、ファインダーが使えなくなってしまいます)、何らかの対応が必要になってきました。工夫しつつ、今までのペースで続けたいと思いますので、今後ともよろしくお願いします。なお、11日と12日は天気が崩れるようで、夜は絶望的です。

○・・・・・***Subject: Mars Drawings Kz11 Jan 10***
Received: Tue 12 Jan 2010 22:36:06 JST

南先生、村上様、ご指導ありがとうございます。1月11日は、天気予報は一晩中曇りでしたが、雲が出たり出なかったりでしたので、スケッチ4枚とることができました。東京では、この冬一番の冷え込みとのことだったのですが、予想外にシーイングが安定していましたので、常時、340×を使うことが出来ました。また、先日届いた2.5mmのアイピース(480×)も使ってみました。北極冠の大きさなどを詳しく観察するには、最低300×が必要で、悪シーイングのときに使っている240×では力不足であることを実感しました。

今晩は、霙まじりの雨が降っており、さすがに無理そうです。

○・・・・・***Subject: Mars Drawings Kz13 Jan 10***
Received: Thu 14 Jan 2010 22:07:23 JST

1月13日のスケッチ4枚を送ります。視直径がずいぶん大きくなって、シーイングが悪くても、それなりに見える様になってきたように思います。

○・・・・・***Subject: Mars Drawings Kz14 Jan 10***
Received: Fri 15 Jan 2010 01:07:07 JST

1月14日分のスケッチ4枚を送ります。昨日からするとシーイングは悪化しました。北極冠の大きさを正確にスケッチするのは難しく感じます。特に、シーイングが悪い日は自信がなくなります。

○・・・・・***Subject: Mars Drawings Kz15 Jan 10***
Received: Sat 16 Jan 2010 01:02:48 JST

1月15日のスケッチ4枚を送ります。今日は気流の状態がよくなかっただけでなく、いつもは、妻に夕方、鏡筒を外に出しておくように頼んであるのですが、妻がすっかり忘れていたらしく、温度順応ができていなかったために、あまりよく見えませんでした。テンペのあたりに、広範囲に白い霧が広がっているのが目に付きました。

明日、1月1日から15日までのスケッチ(Kz31～65)を南先生の住所宛に発送いたします。よろしくお願いします。

○・・・・・***Subject: Mars Drawings Kz16 Jan 10***
Received: Sun 17 Jan 2010 01:17:58 JST

1月16日のスケッチ4枚を送ります。1月1日から15日までのスケッチ35枚のコピーは、本日、発送しました。今日は仕事で千葉県の北東部に行く用がありまして、クロネコを使えませんでしたので、郵便でポストに投函しました。よろしくお願いします。

○・・・・・***Subject: Mars Drawings Kz17Jan10***
Received: Mon 18 Jan 2010 01:04:26 JST

最近、報告したもののほとんどが(村上さんには)未着とのことで、大変失礼しました。未着分は、明日以降、できるだけ早く送信いたします。1月17日にとりましたスケッチ計3枚を送信します。未着を防ぐため、1枚ずつ送信します。今日は比較的シーイングが安定していました。

○・・・・・***Subject: 火星観測報告未着について***
Received: Mon 18 Jan 2010 09:31:47 JST

いつもご指導ありがとうございます。こちらから送信しましたメールに不着のものがあるとのことで、申し訳ありません。昨日、1月15日分及び1月17日分を、1通につき1枚添付という形に分割して送信しましたが、届いておりますでしょうか？また、村上様宛に、不着が始まった初日である1月11日分を1通につき1枚添付の形式にして再度送信いたしました。ご確認のほど、よろしくお願いします。

○・・・・・***Subject: Mars Drawings Kz18 Jan 10***
Received: Tue 19 Jan 2010 00:46:37 JST

ご指導ありがとうございます。スケッチの円は36mmで作っていました。5cmですと、今接近の場合、ちょっと手に余る感じです。プリントアウトしたものの円の大小は、スキャン時の読み取りを機械任せにしてしまったためと思います。次回から注意します。1月18日のスケッチ3枚を送信します。念のため、一枚一通の形式で送ります。うまく届けばよいのですが・・・。今後ともよろしくお願いします。

○・・・・・***Subject: Mars Drawings***
Received: Tue 19 Jan 2010 23:59:10 JST

スケッチ径についてのご教示有難うございました。パソコン上でスケッチ用紙を作成するときに、いくつか円を描いてみまして、スケッチしやすいものを選んだつもりでしたが、36ミリという半端なものになってしまっていました。今日のスケッチから4センチにしました。次回の接近から、視直径に合わせて、5センチも使うようにします。

1月19日はシーイングは安定していましたが、14h40mGMT以降、雲が出て、現在も曇ったままです。2枚のスケッチを送信します。

神崎 一郎 (Ichiro KOHZAKI東久留米Tokyo)

●・・・・・***Subject: Happy new year !***
Received: Sat 09 Jan 2010 01:06:39 JST

Dear Masatsugu, I'm writing a personal e-mail to you to wish you a happy new year. I hope you're well and you're enjoying Mars observations. I have not been very active these past monthes, got unlucky with weather and many time too tired to go out during the second part of the night... Fortunately, Jean-Jacques has been very active. Best wishes

○・・・・・***Subject: Re:RE: Happy new year !***
Received: Tue 12 Jan 2010 07:48:39 JST

Dear Masatsugu, ・・・ Cold weather does not help ! They say that the very last weeks have been cold and snowy on many countries of the northern hemisphere. Here in Paris, it has been not that cold, not that snowy, but it's lasting since almost once month (over parts of France has been heavily snowded).

On another topic, I'm happy to inform you that I found someone able to build a new secondary mirror for my 250 cassegrain. Ottiche Zen in Italy has accepted. But I need to send him the mirrors. This means that I will certainly miss the end of the Mars apparition (I'm hoping to send them in februray), and probably the whole Saturn opposition. This is of course a shame, but I'm tired to observe with an instrument that is not what I dreamt... I send you friendly best wishes. Take care of you

○・・・・・***Subject: Re: Fw: Re: Mars, January***
Received: Wed 13 Jan 2010 04:38:18 JST

Dear Masatsugu, Oh yes thanks, I did it twice for my mailing list but few people made the change; e-mails sent to aliceadsl.fr are not sent back to the sender, but they never reach me.

I will read this interesting discussion! BW

Christophe PELLIER (ｸﾘｽﾄﾌ･ﾍﾟﾘｴ *nr* Paris 法)

●・・・・・***Subject: Returning AR11035***
Received: Sat 09 Jan 2010 01:39:48 JST

Hi all, Here's a shot of the AR11035 region. This is a mosaic of single exposures but the chromosphere and prominences have been processed independently of the surface. Higher magnification shots weren't attempted today due to the rather unstable seeing. Best regards,

○・・・・・***Subject: Mars, Jan 7th 2010, CM 271.6***
Received: Mon 11 Jan 2010 20:24:08 JST

Hi all, Here's a Mars image taken under cold conditions with slightly better than average seeing. On this occasion two filtered images were used for red and blue (IR 742nm and blue) with the green channel being synthesised. Best regards,

○・・・・・***Subject: Mars through decent seeing, Jan 17th***
Received: Mon 18 Jan 2010 08:03:04 JST

The rains cleared from my location just after midnight and left a very transparent sky with fairly decent seeing. Here's my first processed result from the morning of the 17th. A very bright region enshrouding Olympus Mons was recorded in all three channels.

http://www.digitalsky.org.uk/mars/2010-01-17_02-19-12_RGB.jpg

Best regards,

Pete LAWRENCE (ﾋﾟｰﾄ･ﾛｰﾚﾝｽ Selsey 英)

●・・・・・***Subject: mars 8 & 9 January***
Received: Sat 09 Jan 2010 22:10:16 JST

Hello Minami, seeing was very poor& average atmosphere. I took 8 fps for red & 4 fps for Blue, so was that weather. ・・・ Cheers

○・・・・・***Subject: mars 10 jan***
Received: Mon 11 Jan 2010 13:51:31 JST

Hi Minami, seeing & atmosphere was average.・・・

○・・・・・***Subject: mars 10 january***
Received: Tue 12 Jan 2010 03:43:28 JST

Hello My Guys, Hear is mars on 10th january from Tehran, & it shown Elysium Mons & Trebia Valles Valley & Herschel Crater. I took about total 12000 frames stack, PLS see you it.

○・・・・・***Subject: mars 17 jan***
Received: Tue 19 Jan 2010 02:49:57 JST

Hello Minami, mars image in 2010, Poor seeing.
・・・Cheers

Sadegh GHOMIZADEH
(ｻﾃﾞｸﾞ･ｺﾞﾐｻﾞﾃﾞ Tehran 伊朗)

●・・・・・*Subject: Mars Image - January 7, 2010*
Received: Sat 09 Jan 2010 23:55:04 JST

Gentlemen, Attached is my Mars image from January 7. Regards,

○・・・・・*Subject: Mars Image - January 9, 2010*
Received: Sun 10 Jan 2010 08:00:29 JST

Gentlemen, Attached is my Mars image from January 9. Regards,

○・・・・・ *Subject: Mars Image - January 10, 2010*
Received: Mon 11 Jan 2010 10:11:14 JST

Gentlemen, Attached is my Mars image from January 10. Regards,

○・・・・・*Subject: Mars Image - January 14, 2010*
Received: Sun 17 Jan 2010 01:26:35 JST

Gentlemen, Attached is my Mars image from January 14. Regards,

○・・・・・*Subject: Mars Image - January 11, 2010*
Received: Sun 17 Jan 2010 22:35:46 JST

Gentlemen, Attached is my Mars image from January 11. Regards,

○・・・・・*Subject: Mars Image - January 17, 2010*
Received: Mon 18 Jan 2010 10:42:54 JST

Gentlemen, Attached is my Mars image from January 17. Regards,

Peter GORCZYNSKI (ﾋﾟｰﾀｰ･ｺﾞﾙﾁﾝｽｷCT 美)

●・・・・・*Subject: Re: Mars obs 2010-01-09*
Received: Sun 10 Jan 2010 00:35:13 JST

Hello all, glad to see so many were able to take advantage of the recent clear spell. I have been away looking after an old friend but have managed my first observation this year. Seeing was poor on the whole but staring at the screen long enough I was able to catch a few moments. Attached observation

Happy new year - clear skies

○・・・・・*Subject: Re: Mars Images (January 17th, 2010.)*
Received: Tue 19 Jan 2010 07:02:25 JST

Hi, Much the same for me. Seeing was not good and later the transparency turned into full blown fog !!!

I did swap the camera for the eyepiece when I had finished and glad I did. Although poor seeing the view was still inspiring. Mars was a vibrant colour and the polar cap was bright and vivid. I had almost forgotten what a treat Mars can be visually too. Best wishes

Bruce KINGSLEY (ﾌﾞﾙｰｽ･ｷﾝｸﾞｽﾘｨMaidenhead英)

●・・・・・*Subject: Mars image at last!*
Received: Sun 10 Jan 2010 04:38:39 JST

Dear all, EVENTUALLY, time allowed me to begin processing data from 3/4 January and so please find attached an initial effort.

Telescope: C14 @ F45, Filters: Trutek RGB + Baader UV/IR rejection, Camera: SKYnyx 2-0M, Transparency: Good, Seeing: very variable, but probably about 6/10 for this image on average, Time: Centred on 01:21 UTC I tried to bring out the clouds in my processing of this particular image. Very best wishes,

Peter GARBETT (ﾋﾟｰﾀｰ･ｶﾞｰﾍﾞｯﾄSharnbrook 英)

●・・・・・*Subject: Mars picture - 9 January 2010 - 01:41 UT*
Received: Sun 10 Jan 2010 05:32:57 JST

Hello, I'm Fidel Castro from Seville (Spain). I post you a picture of Mars taken on 9th January 2010 at 01:41 UT from Seville. The equipment employed was a Takahashi FS128 refractor, 2× + 2× barlows and a Tocam Pro II webcam. I didn't use any filter. I was helped enormously in the post-process of the picture by Nicolás Fontanillas who also collaborates with CMO.

Best regards and congratulations for your excellent work.

Fidel CASTRO ARMARIO
(ﾌｨﾃﾞﾙ･ｶｽﾄﾛ=ｱﾙﾏﾘｵ Sevilla 西班牙)

●・・・・・*Subject: Mars 1 January*
Received: Sun 10 Jan 2010 06:00:20 JST

Hi All, I have attached belated RGB, UV, and NIR Mars images from 1 January. Bright cloud over Edom and light clouds over Chryse, Tempe and along the AM limb. Best,

Don PARKER (ﾄﾞﾝ･ﾊﾟｰｶｰ Miami FL 美)

●・・・・・*Subject: Image: Jan 10th 07:00 UT GOOD seeing*
Received: Mon 11 Jan 2010 02:27:01 JST

Greetings list, I believe this is the first result I'm actually satisfied with for this apparition and I'm finally starting to see what my new C11 can do. Almost froze to death, but it was worth it. Imaged at 14 degrees. I shot several sequences and just worked on the best. In the later sequences you can easliy see clouds starting to form over Isidis Regio, about 30 minutes after this image was taken. I believe you can see their early formation in this image. Chyrse is very bright on the morning limb as to be expected. Hellas is dark and dusky and I didn't detect any real cloud or mist activity as it approached the evening terminator.

http://marswatch.amaonline.com/01-10-09@0700.jpg

○・・・・・*Subject: Image/Animation Jan 10th 2010*
Received: Mon 11 Jan 2010 05:58:17 JST

Greetings list, Came up with one more decent sequence that allowed me to make an animation showing 25 minutes worth of rotation. Image and animation linked below. You can see in the blue channel the clouds forming over Isidis Regio as I mentioned earlier.

http://marswatch.amaonline.com/01-10-09@0725.jpg
http://marswatch.amaonline.com/1-10animation.gif

○・・・・・*Subject: Re: [marsobservers] Image/Animation Jan 10th 2010*
Received: Mon 11 Jan 2010 06:44:07 JST

Lastly, an animation of the NPC enlarged and enhanced. Its not the best animation ever, but it does confirm albedo differences on the NPC and a darkened area.

http://marswatch.amaonline.com/NPCanimation.gif

○・・・・・*Subject: Image: Jan 11th 7:15 UT*
Received: Mon 11 Jan 2010 16:51:29 JST

Greetings list, Seeing wasn't quite as good as last night. I'll likely go back out for one more caputure. All info on image. Evening limb clouds are forming in Hellas and

Isidis Regio.
http://marswatch.amaonline.com/01-11-09@0715.jpg

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 02:58:06 JST

Excellent image for a 6 inch scope. That protrusion has been showing up in other images. I believe Glenn Jolly has captured it nicely a few times, but I didn't know what it was until now. There has been some discussion about it at the *cloudynights* forum. Regards,

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 04:52:43 JST

Jeff, check out this image....
http://www.cloudynights.com/ubbthreads/attachments/3539247-mars10_cnpost2.jpg

○・・・・・***Subject: Image: Jan 12th 7:00 UT Go***
Received: Tue 12 Jan 2010 17:19:11 JST

Greetings list, Pretty good seeing in a balmy 28 degrees. One of my better Mars images, but nothing remarkable to report in the way of weather activity.
http://marswatch.amaonline.com/01-12-10@0700.jpg
Regards,

○・・・・・***Subject: Image/Animation Jan 12th 06:50 UT***
Received: Wed 13 Jan 2010 11:25:10 JST

Greetings list, I came up with one more decent sequence last from last night and made a 2 frame animation showing rotation. I think in the 06:50 UT image a -possible- small dust cloud can be seen in N. Hellas.
http://marswatch.amaonline.com/1-12animation.gif
http://marswatch.amaonline.com/01-12-10@0650.jpg

○・・・・・***Subject: Image: Jan 17th, 2010 06:25 UT***
Received: Sun 17 Jan 2010 16:51:10 JST

Greetings list, Seeing wasn't anything like the CSC said it should be. Rather poor, hence the 100% scale. Even with the poor seeing, the "ring" in the NPC can still be glimpsed in this image in red, along with clouds over Elysium, or what actually appears to me as a double cloud. I've noted in a few other images of late, better quality images, that a double cloud has been imaged before over Elysium.
http://marswatch.amaonline.com/01-17-10@0625.jpg
Regards,

Joel WARREN (ｼﾞｮｴﾙ･ｳｫｰﾚﾝAmarillo TX 美)

●・・・・・***Subject: Bates image 01102010***
Received: Mon 11 Jan 2010 02:26 JST

Greetings from Texas: Poor seeing, but good alignment of major albedo features. Also tried using longer exposures and faster shutter speeds. All the best,

○・・・・・***Subject: Bates image 01132010***
Received: Thu 14 Jan 2010 12:08 JST

Better seeing arrived just before cloudy weather. Mars is still growing. All the best!

○・・・・・***Subject: 2 Mars Images from Bates 01/18/2010***
Received: Tue 19 Jan 2010 03:00 JST

Gentleman: The weather cleared last night, and I was able to obtain some good views of Mars as it approached the transit point here in Houston. Syrtus Major was beginning to rotate into view. Possible cloud/ haze seen in earlier image taken around 04:34 UT.

I decided not to buy a monochrome imager; I love being able to work quickly with the ToUcam images, and not having to combine multi-filtered exposures. Call me lazy! Clear Skies!

Don BATES (ﾄﾞﾝ･ﾍﾞｰﾂ Houston TX 美)

●・・・・・***Subject: Mars 20100105 (FFn)***
Received: Mon 11 Jan 2010 22:25:44 JST

Hello, I send to you a new picture that I obtain the night, 05th january of 2010. Telescope Meade LX 90 F=2000 × 3, Camera LPI Meade

Francisco José FERNÁNDEZ GÓMEZ
(ﾌﾗﾝｼｽｺ-ﾎｾ･ﾌｪﾙﾅﾝﾃﾞｽ=ｺﾞﾒｽ Ourense 西班牙)

●・・・・・***Subject: Mo 03 06 Jan 10***
Received: Mon 11 Jan 2010 23:33:44 JST

久しぶりに画像を送ります。最近はSeeingも悪く、少し画像処理に時間をかけてやってみましたが、良くはなりません。ずっと曇りが続いて撮る機会がありません。03Decは時々良いときがあって、このぐらいの状況が続いてくれればまだ良いのですが、最近はボヤボヤです。又、送ります。

○・・・・・***Subject; Re: Mo さーん***
Received: Tue 19 Jan 2010 23:20:01 JST

メール有難う御座います。6Janより天候不良や母の癌の手術などで撮れていません。17日より今まで通り撮っていますので、また、送るようにします。本当に天候が思ったより悪く、大阪は晴れているようなのに…と思いながらすごしました。また、送ります。

○・・・・・***Subject: 19 Jan 10***
Received: Wed 20 Jan 2010 01:32:32 JST

久しぶりに画像を送ります。17，18日と撮っていますので処理して送りたいと思いますが、とりあえず19日のものを送ります。今日が良像の最後と思って撮りましたが、これ1セット撮ったところで曇ってしまいました。未だに狙っていますが、晴れそうもありません。最近は曇りが多く困ります。明日は雨の予報で又寒くなりそうです。風邪などひかれませんように…
追伸：早いもので父が亡くなってから一年がたちました。

森田 行雄 (Yukio MORITA 廿日市 Hiroshima)

●・・・・・***Subject: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 02:10:46 JST

Hi Folks: I've been imaging Mars for a couple weeks now with various scopes, but this one is my best so far.

Kind of embarrassing because it was taken with my 6" *f*/10.3 Newtonian. It's interesting to me because it shows the Edom cloud on the terminator, looking like a protrusion off the limb.

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 04:52:47 JST

Jeff: I think my mirror is a prabola, as it was advertised as a planet killer, but I don't really know. Several others on Cloudynights have been imaging that clou on the terminator and commented on how it looks like a bump. It must be a high-altitude ice cloud. It's not a processing artifact. I've gotten much better since I took that image several years ago where I thought I'd captured one of the Edom flashes, but you weren't comfortable with the noise in my images back then.

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 07:46:28 JST

Hi Jeff: I've been trying to find that image where I thought I had caught a prior flash. It would have been during the 1999 apparition, and I believe I submitted it to the marswatch website that year, but I can't find the site on line anymore.

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Thu 14 Jan 2010 02:14:49 JST

I only sent my images to the marswatch website in those days. It was a pair of images taken with my 8" Springfield and Starlight Xpress HX516, colorized with Elecrtim camera color frames. IIRC, it would have been around opposition, like March or April of 1999?

All the data for that was on a hard drive on a PC I no longer have.

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Mon 18 Jan 2010 02:25:50 JST

Maurizio: Problem is that I'm not sure of the exact date, but I didn't submit a lot of images during an apparition, particularly in those days, so it shouldn't be too hard to track down, I hope. It was probably the only image pair I sent where I colorized the HX516 images with color data from that old Electrim color camera I had at the time. It was such a pain to switch cameras and software and re-focus that I very seldom did it.

On 1/16/10 2:01 PM, "Maurizio Di Sciullo" wrote:

I have my data from 1999, and I still have archives of some of the images you sent me, Tim - the good ol' days, remember?

I can't absolutely guarantee that I have it, but let me know what day you want, and I will try to find it. I remember that limb haze was so bright one morning, that it totally skewed my processing regimen. Mars came out nearly BROWN in color, whilst the morning limb haze over Tharsis overloaded the sensor in my HX-516. I had to resort to stretches to get the processing right, and even then, the limb was so bright, that at my customary exposure times, it was totally saturated. We may have imaged the same thing, as I recall that we discussed it one day on the phone. That image I can easily locate.

BTW, testing an *f*/8 paraboloid is a snap (have done it *MANY* times), and even an *f*/12 is easy if you know what you're doing. The problem with most published ATM activities, IMHO, is that they seem to stress shortcuts, rather than mastering formal, disciplined ways of doing things (remember the spacing on your Cassegrain that day?), and for testing, there's no substitute for Texereau's techniques. Also, don't listen to a certain elitist lobby that wants people to believe that the Foucault test is useless, and horribly error prone; again, if you apply it correctly, it yields excellent results.

Case in point: a certain 10" *f*/8 that acquired many fine images long before current techniques were available.

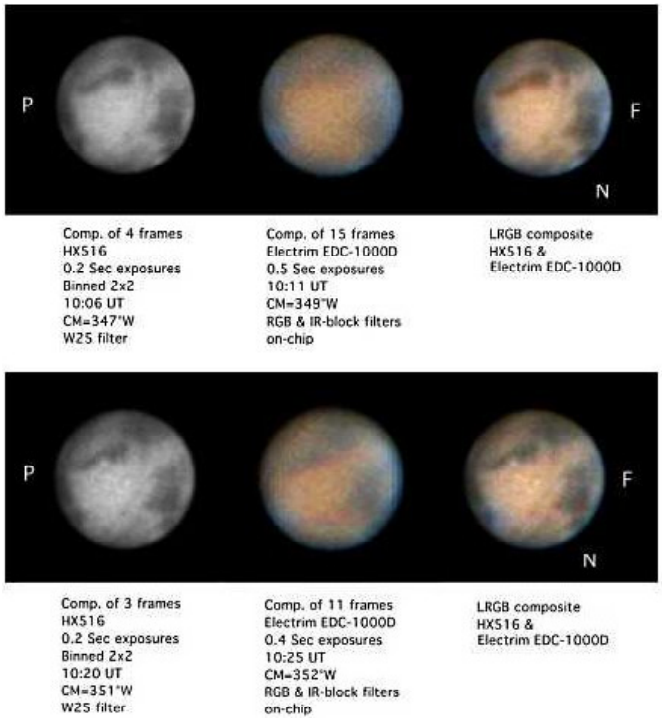
Maurizio "Dr. Washington" Di Sciullo (A HEAVILY armed citizen) I love my Desert Eagle!

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Thu 21 Jan 2010 06:37:00 JST

FYI: I put in a request to have Opportunity's Atmospheres team plan an observation for clouds at or just after sunset in the next sol or two (I' m on the MER science team). We just wrote the observation into plan, and hopefully will have some results in the next few days!

○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Fri 22 Jan 2010 05:01:38 JST

Dave: Thanks very much for tracking that down! I've downloaded and attached the image I was referring to (with a filename similar to the way I label my images now, with the date and time in the file name), wherein I



thought I'd captured an Edom flash in one of my monocrhome HX516 images (10:20UT on April 17, 1999), but Jeff wasn't convinced it wasn't just noise in my admittedly noisy images in those days. Unfortunately, I no longer have the individual frames that I used to make the 3-frame composite, and I don't remember how strong the bright spot appeared in any of the single frames, or whether it was in more than one frame or not. When I was using the HX516 camera, I shot sequences of, typically 100 images within a 5 minute period, then picked the best 25 or so to process with Maxim DL (version 2), and stack and combine the best of those (3, in this case). So it's possible that the individual frames are up to 5 minutes spread in time, but it's likely they were all within a minute or two of one another.

Telescope: 8" f/6 Springfield Newtonian.
Camera: Starlight Xpress HX516
Eyepiece proj. w/7mm Ortho.
Seeing (0-10): 8 (very good, calm).
Transparency (1-6): 5.
Date: April 17, 1999
Observer: Tim Parker
Address: Highland Park (L.A.), CA
Observing Station: Concrete Driveway
E-mail: tjparker@ktb.net

This technique of getting LRGB from a monochrome and an RGB camera has been on my mind again, recently. I've got both monochrome and RGB (bayer) Point Grey cameras now, and the means to mount both of them on one scope via a flip mirror, for rapid successive video acquisition with the two cameras, or use two scopes on a tandem bar and run both cameras at the same time.

Tim PARKER (ﾃｨﾓｼｨ・ﾊﾟｰｶｰ *NASA* CA 美)

●・・・・・***Subject: RE: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 04:49:33 JST

Yeah Tim, nicely done. The 6" must be nearly spherical, huh? An *f*/10-ish is hard to see in a Foucault test.
I wish it would warm up so to use the ToUcam on the 16". My focusing is not good so I need plenty of practice

and with Mars rising in the evening there will be plenty of time for that.

Have seen dust clouds protruding into the terminator several times but never a white cloud that should be fairly low in altitude. The cloud over Edom is usually a ground fog confined to the inside of the crater. I wonder if it is not some processing error? If not it is surly a high altitude event.

○・・・・・ ***Subject: RE: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 05:10:06 JST

Well, terminator projections are northing new and high altitude clouds are certainly present in Barsoom's higher vistas. Electronic cameras are very sensitive and it seems like the image takers are using their filters properly, so anything is possible these days.

Hum, just testing an *f*/8 is over my head, but *f*/10 is out there for a parabaloid.

I remember you at the flash point in the Keys, but was asleep though the good parts. Had just moved in the house that week and was too tired to stay up for the fun.

Can't remember your images of the event, sorry – CRS.

That was June 2001 and was the last time I saw you. Tom has a house over in Ft. Myers now and maybe we should talk him into some wild observing project together again, if and when he plans to retire to Florida.

○・・・・・***Subject: RE: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 07:56:50 JST

Good luck finding anything about Mars prior to 2001.
It is gone or misplaced.

○・・・・・***Subject: RE: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 21:52:07 JST

It seems like a lot of the old observations of Mars are not worthy of keeping by some organizations. Many observers only send their work to selected web sites and/or organizations, so that a complete archive of Mars observations is difficult to maintain. Internet is a volatile medium to store this information because people are always changing domains and such that a search results in so many "Selected URL NOT FOUND!" that I gave up looking for certain information.

Larry Owens is maintaining the ALPO site and doing a great job as you are, Dave, with the Mars Watch site, and the OAA site has a lot of images; however, not every observer will use all of them so that spreads observations in all directions and for those interested in a complete Mars watch; it is difficult to say the least. It would be nice if you found where all those records are.

○・・・・・***Subject: RE: Blue Cloud Left of Syrtis***
Received: Tue 12 Jan 2010 22:26:18 JST

Jim, look at FERNÁNDEZ's Jan 05 image:

http://www.hida.kyoto-u.ac.jp/~cmo/cmons/2009/f_image.html

for a good rendition of the "Capen" Blue Syrtis Major cloud.? Chick took a photo of this bluish vale over Syrtis Major using the 82-inch at MacDonald back in 1967 or 69 and it seems to me that the closer it is to the CM the bluer is appears.? I have seen visually a hint of blue in a cloudy Syrtis Major a few times in the past, but never as deep blue as on images or photos? Nice shot.

Jeff BEISH (ｼﾞｪﾌ･ﾋﾞｰｼｭ Lake Placid FL美)

●・・・・・***Subject: Mars 11-January***
Received: Tue 12 Jan 2010 12:16:22 JST

Dear Masatsugu, Attached are some images of Mars I managed to get early this morning under relatively good seeing conditions. It has been interesting during this year's apparition to watch the North Polar region and see some of the surface features more clearly than during the previous few apparitions.

I hope the New Year has been treating you well so far! Best wishes,

○・・・・・***Subject: Mars 18-January-2010***
Received: Wed 20 Jan 2010 12:15:37 JST

Dear Masatsugu, Attached is a set of images taken on the morning of 18 January. The seeing was little soft but still not too bad. Elysium appears to be particularly bright in the images. With Best wishes!

Bill FLANAGAN (ﾋﾞﾙ･ﾌﾗﾅｶﾞﾝ Houston TX 美)

●・・・・・***Subject: Mars January 11th 2010***
Received: Tue 12 Jan 2010 13:56:40 JST

Here is an image taken from Houston Texas January 11th 2010 at 7:47 UT

http://www.egrafton.com/1-11-10.jpg

Ed GRAFTON (ｴﾄﾞ･ｸﾞﾗﾌﾄﾝ TX 美)

●・・・・・***Subject: Mars: January 11, 2010***
Received: Tue 12 Jan 2010 15:12 JST

Hi - I have attached my latest image of Mars January 11th at 4:52 UT to be posted. Thanks,

○・・・・・***Subject: Re: Ed Lomeli's Address***
Received: Sat 16 Jan 2010 15:36:20 JST

Hi Mr. Minami - Yes, Ed Lomeli's e-mail address has changed. No, I haven't hear from Ed too about Mercury, even though I e-mailed to him a couple of times. Hmmm.. I will check it out.

Unfortunately, I don't have my website. MY AOL provider shut it down. My Mars images are now with the ALPO. Try it again here:

http://www.alpo.arksky.org/alpoimg/Mar12DED027.jpg

○・・・・・***Subject: Mars: January 17, 2010***
Received: Mon 18 Jan 2010 13:35 JST

Hi - I have attached my latest image of Mars January 17th to be posted. Thanks,

○・・・・・***Subject: Mars: January 21, 2010***
Received: Fri 22 Jan 2010 14:47 JST

Hi - I have attached my latest images of Mars January 21st to be posted. Thanks,

Frank MELILLO (ﾌﾗﾝｸ･ﾒﾘｯﾛ Holtsville NY美)

●・・・・・***Subject: RE: Mars, January 9th 2010***
Received: Tue 12 Jan 2010 21:53:12 JST

I interpret the cloud's visibility on the terminator to be due to its brightness, not its altitude. The appearance of projecting beyond the terminator is an artifact of the way terminator shading is handled by our processing of images. The same effect can be seen in lunar images of terminator areas, where higher altitude areas appear brighter and so appear to extend beyond the terminator.

○・・・・・***Subject: Re: Christophe Pellier's email address***
Received: Thu 14 January 2010 05:54 JST

Hi, Mr. Murakami -- Thanks for this update of Chris-

tophe Pellier's address. Regards,

Roger VENABLE (ﾛｼﾞｬｰ･ｳﾞｪﾅﾌﾞﾙChester GA美)
Coordinator of the ALPO Mars Section

●・・・・・*Subject: Blue Cloud Left of Syrtis*
Received: Tue 12 Jan 2010 22:13:29 JST

Speaking of clouds, see below: I got up about 1:30AM. Cold outside. After a couple hours I had to call it quits as my toes were beginning to hurt from the cold. There appears to be a bluish cloud to the left (E?) of Syrtis Major. Visible on the blue and green channels FYI. TMB 8" F/9 @ *F*/45, Skynyx Color Cam. All the best,

Jim PHILLIPS (ｼﾞﾑ･ﾌｨｯﾘﾌﾟｽ SC 美)

●・・・・・*Subject: Re: Mars, January 9th 2010*
Received: Tue 12 Jan 2010 22:20:10 JST

This is all the more reason to start using the ALPO Image Archives, with complete cross referencing systems,

TEN YEARS AGO (173)

-------CMO #227 (25 January 2000) pp2659~2682 ----

http://www.hida.kyoto-u.ac.jp/~cmo/cmo/227/cmo227.html

新しい世紀を迎えて、表紙は常間地さんの干支の辰のイラストと賀詞があり、寄せられた年賀の便りが紹介されている。次いでCMO Mars Report #20で、1999年十二月後半から2000年一月前半までの観測報告が纏められている。火星はこの期間には視直径は５秒角台を下回り、夕方の西空にあった。季節は283°Ls (15 Jan 2000)に達して南半球の夏至を挟んでの黄雲の季節の観測だった。報告者は、国内より９名、外国からは３名の報告があった。南半球に大きく傾いており南極冠と周辺の暗部が捉えられている。大きな異常は観測されていない。


ISSN 0917-7388
COMMUNICATIONS IN 東亞天文學會『火星通信』since 1986
MARS No. 227
25 January 2000
OBSERVATIONS Published by the OAA Mars Section
Hello Happy 2000
西暦弐千年 迎春
本年もよろしく
CMO Editors
OAA Mars Section
GREETINGS
●・・・・・I express wishes for your health and the success of your enterprises, all along the New Year
Audouin DOLLFUS (オードゥアン・ドゥルフュス Chaville 法)
●・・・・・Best Wishes for 2000! Hoping to have a bit more time to send all these German observations of the 1999 Mars to you,
Wolfgang MEYER (ヴォルフガング・マイヤー Berlin 德)
●・・・・・All the very best wishes for 2000 and beyond from the planet observers of the ASV.
Barry ADCOCK (バリィ・アドコック Victoria 澳洲)
●・・・・・賀正：今年も元気でご活躍を祈ります
村山 定男 (Sadao MURAYAMA 東京 Tokyo)
●・・・・・謹賀新春：・・・日本アマチュア天文研究発表会に代わり、近い将来、新しい形の全国的なアマチュア天文家組織の発足が、大いに期待されましょう。
木村 精二 (Seiji KIMURA 東京 Tokyo)
●・・・・・2000年の新年おめでとうございます。『火星通信』を毎號證せていただき、まことに感謝にたえません。近頃は血壓が不安定で、二度も入院しました。どうかお元気でご活躍ください。
蔡 章獻 (Chang-Hsien TSAI 臺北 Taibei)
2659

巻頭のGreetingsと年賀には、Audolin DOLLFUS (France), Wolfgang MEYER (Germany), Barry ADCOCK (Australia), 村山定男(東京)、木村精二(東京)、蔡 章獻 (Taiwan)の各氏から寄せられたものがある。

LtEには、Elisabeth SIEGEL (Denmark), Vanessa CAVE (USA), Sam WHITBY (USA), Frank J MELILLO (USA), Brian COLVILLE (Canada), 賴 武揚 (Taiwan), Gérard TEICHERT (France/Canada), TAN Wei-Leong (Singapore), Giovanni QUARRA (Italy), Damian PEACH (UK), Don PARKER (USA)の外国の皆さんから、国内では、尾代孝哉(和歌山)、熊森照明(大阪)、常間地ひとみ(神奈川)、日岐敏明(長野)、伊舍堂弘(沖縄)、浅田正(福岡)、石橋力(神奈川)、森田行雄(広島)、阿久津富夫(栃木)、小山田博之(神奈川)、岩崎徹(福岡)、比嘉保信(沖縄)の各氏からの多くの来信が紹介されている。

TYA(53)は、廿年前のCMO#082 (10 Jan 1990)とCMO#083 (25 Jan 1990)の二号の内容からで、当時の火星は合を過ぎて朝方の東天にあったが、まだ観測は始められていない。CMO#082には、来るべき2000年初秋の中接近の観測を迎える心構えが説かれていた。また、白尾氏などが出席した「国際火星フォーラム」の報告もあった。1988CMO観測ノート(９)として、「10月末の北半球の雲の擾乱について」（On Cloud Disturbances at Tharsis and Amazonis in Late-October (at around 300° Ls) ）が#082にある。CMO#083からは「1988年の火星観測に使用された望遠鏡」の連載も始まっている。

http://www.hida.kyoto-u.ac.jp/~cmo/cmo/227/tya053.html (Japanese) 村上 昌己 (Mk)

that we set up for the ALPO six years ago:
http://www.arksky.org/alpo/index.php
The single purpose of this archive was simply to have all records in ONE location and not scattered and at the mercy of transient websites. Unfortunately, some section heads have not chosen to recommend its use and observations of all solar system objects continue to be scattered throughout the ethereal ether.Try it...you will like it.

Clay SHERROD (ﾄﾞｸﾀｰ･ｸﾚｲ Arkansas 美)
Arkansas Sky Observatories

●・・・・・***Subject: (no subject)***
Received: Tue 12 Jan 2010 23:31:59 JST
Sorry, little bit late? 09 Jan 2010 at 09:12 UT
D-K 210, spc Philips 900. H. N. Y. !

Nicolás FONTANILLAS LOPEZ
(ﾆｺﾗｽｰﾌｫﾝﾀﾆﾔｽ=ﾛﾍﾟｽ Sevilla 西班牙)

●・・・・・***Subject:*** *[FWD: Updated Mars alerts and observations page]*
Received: Wed 13 Jan 2010 08:55:01 JST
Hi Richard and Masatsugu, Thought you might want to be aware of ALPO MARS Observations Page for 2009 that I regularly update. I'll be creating a new page for 2010. Please see
http://www.alpo-astronomy.org/marsblog/
Best regards,

Jim MELKA (ｼﾞﾑ･ﾒﾙｶ St Louis MO 美)

●・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Wed 13 Jan 2010 23:18:39 JST
With the assistance of Jim Bell [who contacted me before I had a chance to write to him---he's always on the ball!] I've got 2/3 of those links fixed, the 1994--5 and the 1996--7 (which Jim mirrored over to his Cornell server---thanks Jim!)
I've contacted the Astronomical League for either a new URL or to see if they can pass the archived site/images off to me to host here at Rowan.
○・・・・・***Subject: Re: Mars, January 9th 2010***
Received: Thu 21 Jan 2010 23:50:58 JST
I put a note up on the MarsWatch site, but thought I'd "close the loop" with everyone here, too. The Astronomical League has rebuilt the 1999 archive site and it's back up and running---thanks to Vern Raben for his help.
The new URL is http://marswatch.astroleague.org
although they set up an auto redirect so
http://www.astroleague.org/marswatch
will also work. So with this complete, it seems that all the MarsWatch archives are back up and running.
Thanks to those who brought this to my attention so we could fix it!

Dave KLASSEN (ﾃﾞｰｳﾞ･ｸﾗｯｾﾝ NJ 美)
Rowan University

●・・・・・***Subject: Mars-2010-01-14-KUMAMORI***
Received: Fri 15 Jan 2010 14:49:58 JST
南政次様、熊森照明です。ベランダからの撮影時間になかなか晴れなくて、久しぶりの撮影になりました。
○・・・・・***Subject: Mars-2010-01-15-KUMAMORI***
Received: Sun 17 Jan 2010 07:49:50 JST
昨夜よりやや風が収まりましたが、シーイングは小刻みに火星が揺れて相変わらず良くありません。
○・・・・・***Subject: Mars-2010-01-16&17-KUMAMORI***
Received: Mon 18 Jan 2010 15:49:19 JST
１月16日はシーイングも良くなり、私の望遠鏡ではこのへんが限界でしょうか。北極冠のリムが複雑そうで波打っています。
○・・・・・***Subject: Mars-2010-01-19-KUMAMORI***
Received: Wed 20 Jan 2010 20:43:02 JST
暖かくなっていますが、雲が多くシーイングも良くありません。もう少しシーイングが向上して欲しいものです。よろしくお願いします。

熊森 照明 (Teruaki KUMAMORI 堺 Osaka)

●・・・・・***Subject: (T SAHEKI' s Drawngs in 1950)***
Received: Sat 16 Jan 2010 13:23:17 JST
南政次様、 いろいろとお世話になっております。
McKIM氏からご依頼のありました1949年10月16日(No.10)から1950年8月30日(No.147)のスケッチ送ります。なお、No.1～9は紛失(盗難のため)したそうです。No.10～111は、Mr. Haas?に送ったと記述されています（Scan0195）。
文章は英文ではありませんが、データとしてあるのはこのスケッチしかありません。よろしくお願いします。
なお、McKIM氏の2001年のレポートは息子より(恭範)送ってもらいました。
○・・・・・***Subject: Re: 1950年のスケッチについて***
Received: Sat 23 Jan 2010 16:04:59 JST
拝復 4分割して、さらに圧縮率をかえて再度ご送付申し上げました。なお、写真を開くには、あらかじめ画像を右クリックして「画像に名前を付けて保存」を選び保存先をデスクトップと指定します。そののちファイルをクリックすれば開くことができます。よろしくお願いします。ファイルが大きいのでさらに分割する必要があるならご指摘ください。

佐伯 雅夫 (Masao SAHEKI 伊丹Hyogo)

(註) マッキム氏の依頼によるものですが、画像はスライドショーの再生の形になっていて記録としては不便ですので、再度送る事になりました。尚1950年、前回の1952年頃は佐伯恆夫氏の一番脂の乗りきった頃と思います。

●・・・・・***Subject: Mars 10 and 15 January***
Received: Sun 17 Jan 2010 23:37:02 JST
Hello: Images of lasts days and different telescope.
Seeing very fair.

Jesús R SÁNCHEZ (ﾍｽｽ･ｻﾝﾁｪｽ Córdova 西)

●・・・・・***Subject: Mars 1-11***
Received: Mon 18 Jan 2010 04:14:59 JST
Friends, Attached is an image from Monday morning. The weather was clear (t-5) and cold. Seeing was 4-7 with some heating effects from houses. I used the 25 cm *f*/12 reflector, 3x barlow, minus-IR filter, Toucam Pro,

Registax 3 and Photoshop CS2. Sincerely,

Randy TATUM (ﾗﾝﾃﾞｨ･ﾃｰﾀﾑ Henrico VA美)

●・・・・・***Subject: Re: 近内令一さん***
Received: Mon 18 Jan 2010 11:37:26 JST

南様、おはようございます。昨日、近内さんに連絡できました。メール返事がないのはパソコンハードデスクがクラッシュし、使用できなくなったとのこです。今は修復できたので、もう一度メールを出して欲しいとの伝言です。

昨夜、少し晴れ、火星が撮れましたので夕方までに送ります。風があり、良い条件ではありませんでした。北極冠は内部が少し黒くなってきました。ではまた。

○・・・・・***Subject: Mars Ak17Jan10***
Received: Mon 18 Jan 2010 18:58:30 JST

昨夜の火星です。今年初めてです。天気が悪いので仕方ありません。

○・・・・・***Subject: Mars Ak20Jan2010***
Received: Fri 22 Jan 2010 18:42:46 JST

火星画像　Ak20Jan2010です。まだ天気は悪く、続きません。

阿久津 富夫(Tomio AKUTSU セブThe Philippines)

●・・・・・***Subject: Mars 2010 January 17***
Received: Tue 19 Jan 2010 01:05:25 JST

Poor seeing, a pity as Mars is now almost as big as it will get, but an interesting feature, already noted by Pete Lawrence, the very bright Olympus cloud. On the 18th seeing was even worse and I didn't image.

http://www.davidarditti.co.uk/astro/images/mars/09/mars2010-01-17-DLA.jpg

David ARDITTI (ﾃﾞｳﾞｨｯﾄﾞ･ｱｰﾃﾞｨﾁ Edgware ME 英)

●・・・・・***Subject: Mars Images (January 17th, 2010.)***
Received: Tue 19 Jan 2010 04:40:10 JST

Hi all, Some images from the 17th. A stable image but fuzzy with poor definition immediately following a cold front passage some hours before. Bright Olympus Mons orographic cloud. Elysium is cloud free at this stage of the day. Some faint haze/clouds in the far south.

http://www.damianpeach.com/mars09/2010_01_17rgb.jpg

Best Wishes

(P.S. Seeing the following night was so poor it wasn't worth attempting any images.)

Damian PEACH (ﾃﾞﾐｱﾝ･ﾋﾟｰﾁ Bkh 英)

●・・・・・***Subject: Mars 17th Jan 2010***
Received: Tue 19 Jan 2010 06:25:53 JST

Hi Guys, This was the first clear evening for some time, seeing was really bad , but having set up, I took some. The on screen blue image was actually more entertaining than the red, with some obvious clouds. and no lesser definition. C14 @ *F*44, Best wishes

Dave TYLER (ﾃﾞｳﾞｨﾄﾞ･ﾀｲﾗｰ Bkh 英)
http://www.david-tyler.com

●・・・・・***Subject: Mars image 15th Jan***
Received: Wed 20 Jan 2010 05:20 JST

Dear Masami, I send you my second Mars image for this opposition. Details are on the image. Friendly,

Simone BOLZONI
(ｼｨﾓｰﾈ･ﾎﾞﾙﾂｫｰﾆ Busto Arsizio 義)

●・・・・・***Subject: Mars Observation (January 18, 2010)***
Received: Wed 20 Jan 2010 17:36 JST

I hope that you, Dr. Minami, and the rest of the CMO staff are doing well. The images and observations posted on the CMO web site are very impressive for the apparent diameter of Mars. I was treated to an exceptional view of the planet Mars on January 18, 2010 (06:15-07:00 U.T.). I observed fine detail over the Martian surface (and atmosphere) extending between Amazonis on the preceding limb and Syrtis Major on the following limb. During moments of steady seeing the Hybaleus Extension-Aetheria region of Mars reminded me of the observation of the same region made in 1909 by the famous Greco-French astronomer Eugene M. Antoniadi (1870-1944) at which time he described the region as composed of dark knots and streaks. The region between Trivium Charontis and the Propontis Complex was also complex.

Date (U.T.) January 18, 2010
Time (U.T.): 06:15-07:00
CM (Degrees West): 234.4-245.3
Ls 039.5° (Mid-Northern Spring/Southern Autumn)
De: 16.1°, Ds 15.4°, Phase 99%, 13.9 arc-seconds
Instrument: 9-inch (23-cm) *F*/13.5 Maksutov-Cassegrain
Magnification: 295x and 443x
Filters (Wratten): 30 (Magenta) and 80A (Blue)
Seeing (1-10): 8, Antoniadi (I-V) II
Transparency (1-6): 5

Notes:

06:15 U.T. (CM 234.4°W, Wratten 30 (Magenta)): The North Polar Cap (NPC) was brilliant (10/10) with dusky to dull (4-5/10) streaks noted within it. I believe I noted the initial separation of the NPC remnant Lemuria (~205°W) along the southern border of the North Polar Cap. The NPC dark to dusky (3-4/10) collar was composed of Lemuria and Utopia/Casius. The Hybaleus Extension was visible on the central meridian (CM) and appeared to be composed of dark to dusky (3-4/10) streaks and condensations (knots). Elysium was visible preceding the CM with a very bright (8/10) cloud over the northeast (north-preceding) sector of Elysium. Trivium Charontis/Phlegra/Azania appeared dark to dusky (3-4/10) and mottled over the preceding border of Elysium. Nodus Alcyonius was visible following the CM as an elliptical ("teardrop") shaped albedo feature. Mare Cimmerium was visible preceding the CM and appeared dark to dusky (3-4/10). Hesperia was visible as a diagonal, bright (7/10) following the CM. Mare Tyrrhenum (3/-510) and Syrtis Minor (3/10) were visible following the CM. Syrtis Major was visible as thin, dark to dull (3-5/10) projection ("finger") over the following (morning) limb partially obscured by very bright to extremely bright (8-9/10) haze. The preceding (evening)/southern/following (morning) limbs appeared very to extremely bright (8-9/10).

07:00 U.T. (CM 245.3°W, Wratten 80A): The North Polar Cap (NPC) appeared brilliant (10/10). A very bright (8/10) cloud was visible over the northeast (N-p) sector of Elysium whereas the rest of it appeared bright (7/10). A bright to very bright (7-8/10) haze was visibly extending from the morning limb haze (8-9/10) over Aetheria. The preceding (evening)/southern/following (morning) limbs appeared very to extremely bright (8-9/10).

The best of luck in your own imaging/observations of

Mars. Regards,

○・・・・・***Subject: Mars Observation (January 20, 2010)***
Received: Sat 23 Jan 2010 5:37 JST

I observed Mars on January 20, 2010 under average seeing conditions with brief moments of steady seeing (5-7/10). I noted an interesting complex of orographic clouds over Tharsis on the evening (preceding) limb. A cloud was also noted over Elysium.

Date (U.T.) January 20, 2010
Time (U.T.): 03;30-04:30
CM (Degrees West): 176.6-191.3
Ls 040.3° (Mid-Northern Spring/Southern Autumn)
De: 15.8°, Ds 15.7°, Phase 100%, 14.0 arc-seconds
Instrument: 9-inch (23-cm) F/13.5 Maksutov-Cassegrain
Magnification: 295x and 388x
Filters (Wratten): 30 (Magenta) and 80A (Blue)
Seeing (1-10): 5-7, Antoniadi (I-V) III-II
Transparency (1-6): 5
Notes:
03:45 U.T. (CM 180.3°W, Wratten 30 (Magenta)): The North Polar Cap (NPC) was brilliant (10/10) without any detail visible within it. The North Polar Cap (NPC) collar was produced by Lemuria which appeared dark to dusky (3-4/10). The region extending between Trivium Charontis (3-4/10) and the Propontis Complex (3-4/10; also including Azania (6/10), Phlegra (4/10), and Styx (4/10)) appeared mottled but somewhat subdued possibly due the opposition effect :

http://www.absoluteastronomy.com/topics/Opposition_effect

Elysium is visible following the central meridian (CM) and appeared bright to very bright (7-8/10)with a haze (cloud) over it. Mare Sirenum (3-4/10) was visible preceding and Mare Cimmerium (3-4/10) following the CM. Valhalla was visible a dusky (4/10) streak north and parallel to Mare Sirenum and Mare Cimmerium. Orographic (Mounatin-associared) clouds were visible along the evening (preceding) limb and appeared very bright (8/10).

04:30 U.T. (CM 191.3°W, Wratten 80A): The North Polar Cap (NPC) appeared brilliant (10/10). A bright to very bright (7-8/10) cloud was visible over Elysium. Orographic (Mountain-associated) clouds were visible over the evening (preceding) limb and appeared very bright (8/10). The preceding (evening)/southern/following (morning) limbs appeared very to extremely bright (8-9/10).

The best of luck to you, Dr. Minami, the CMO staff, and all Mars observers. Regards,

Carlos HERNANDEZ (ｶｰﾛｽ･ﾍﾙﾅﾝﾃﾞｽ FL 美)

●・・・・***Subject: Re: Your Web Site***
Received: Wed 20 Jan 2010 23:29:53 JST

Sorry, It has been active for a long time and I decided to take it down and replace it with something else. I'll let you know if I decide to resurrect it.

Tom WILLIAMSON (ﾄﾑ･ｳｨﾘｱﾑｿﾝ NM 美)

●・・・・・***Subject: 南　政次先生***
Received: Fri 22 Jan 2010 21:40:00 JST

近内令一と申します。村上昌己様より昨年11月30日付けの私宛の南先生のメールを転送していただきました。11月末から私のパソコンのハードディスク回りが完全に崩壊しまして、２週間ほど入院して脳味噌全取っ替えとなり、Eメールを含むかなりのデータが復旧不能となり、大変失礼いたしました。

南先生のご活躍はずっと以前より存じ上げておりまして、大変尊敬申し上げております。先生のお仕事に私の火星スケッチ、写真を使っていただけるとのことで、非常に光栄に存じます。1975年で私の惑星観測は終焉し、火星、木星、土星等の眼視、写真観測の記録は全て私の手許にありません。木星、土星については平林勇さんのところに総て保管されております。1971年、73年の火星のスケッチ、写真等は、71年のダストストームの展開移動図とともに宮本正太郎先生、一部は海老澤嗣郎先生のところに送付したように記憶しておりますが、お恥ずかしいことに行方不明の状態です。南先生が以前に私の火星スケッチ、写真をコピーされたのは、『星の手帖』Vol.41、'88夏号と思われます。手許にこのVol.のスペアが何部かありますので、よろしければ一冊郵送謹呈させていただきたく存じます。ご住所教えていただけましたら幸いです。宜しくお願い申し上げます。

近内 令一 (Reiichi KONNAI 福島 Fukushima)

☆ ☆ ☆

時時間間：**二次元と三次元**：▼私が今度巴里の會合(IWCMO)に出席して刺戟を得たことの一つは、二次元と三次元の違いの面白さというか、そういう世界觀を大きく意識したことである。▼私はもともと場の量子論で二十六次元とか十次元とかいう世界を長く扱っていたので、次元には古典相對論の四次元も含めて驚かないが、こうした高次元の物理世界がいまや天體物理學と關係し、振り返って見ると二次元と三次元も天文學ではないか、という驚きであった。▼我々が實際に見る我々の周りの世界は三次元である。一方天球は二次元ではないか。月でもいい、惑星でも好い、誰もが見るのは二次元である。いかなる望遠鏡を以てしても二次元である。すると我々が、と言ってもいいし、スキアパレッリやローエルやアントニアディでもいいが、火星を見るのは、二次元の円盤であり、それから三次元の火星を構成して來たのである。▼そうした二次元の火星を我々が知恵を出して様々な三次元の、つまりは我々の三次元の世界に存在するものとして火星像を拵えてきた、

これが火星觀測の歴史である、ということに思い當たる。▼私はここではそれからの岐路については問わない(會合では散々の話題であったが)。興味があるのは二次元から三次元描像を構成するのは一種の抽象化であり、人間の脳の素晴らしい働きであるということである。天文學の愉しみとはそういうことではないか。

▼2009年はガリレオと引っ掛けて世界天文年と言われた。IWCMOもフランスのその行事の一部とされた。然し、私はウェブの方では一言も觸れなかった。前にも書いたように(CMO#119(1992年七月25日號)p1060參照、　或いは、http://www.hida.kyoto-u.ac.jp/~cmo/cmomn1/Zure10.htmを見られたい)、私はガリレオを天文學者と認めていないからである。▼ガリレオを貶めているのではない。ラグランジュも言っているように、天體の發見など道具と時期と勤勉さえ揃えば誰にでも出來るが、「現象のなかに、自然の法則を洞察する並み外れた天才を持っていた」という點でラグランジュと同じ數學者に近かったのである。抽象的な等速直線運動というものを考えるのは並大抵ではない。然し殘念ながら、彼には三次元の宇宙空間と重力を想像することが出來なかった。▼一方、(上でも觸れているが)ホイヘンスは様々な二次元の土星を並べることによって三次元の土星の環を脳の中に構成したという意味で、天文學者でもあったのである(物理學者としても名高いが。2026年には生誕400年になる)。

▼今後、世界に緊張が生まれたり、妙な消費癖がつくとますますロケットを飛ばし合って「宇宙探査」などというものが加速するかも知れない。然し、そうして得た知識は、滑車物理學と然程變わらない。▼一方、二次元の繪畫藝術が決して廃れないように、天文に於いても人間の脳は矢張り二次元世界を三次元世界に置き換えることに愉しみを見い出すことは變わらないであろう。▼その意味で望遠鏡による連續觀測は廃れることはないと思う。望遠鏡も變遷し、撮像技術なども向上し、映像技術も長足の進歩であるが、結局は對象物を脳の中で三次元に戻さないと我々は納得しないであろう。

▼尚、言うまでもないが、火星の場合、三次元描像はただ單に裏側をも觀るということではない。歴史はそうは言っていない。表面はどの様な圓形構造を保ち、どの様な「排水」がなされていたかにまで及んでいる。我々だって黄雲をどの様に追っかけるか。

▼尤も、そういう場合、必ず、大いなる眞理と大いなる誤謬が存在し、その眞理も更なる發展を疎外するという意味でパラダイムになる可能性もある。それもまた歴史であろうけれど。(*Mn*)

シー・エム・オー・フクイ 中 島　孝　*Nj*

★前1月10日号は1月13日に印刷・丁合し、国内は翌日発送しました。藤沢(Mk氏)、横浜(Tsさん)には16日、宗像(As氏)には17日に配達された様です。不一

☆ Kasei-Tsûshin CMO (http://www.hida.kyoto-u.ac.jp/~cmo/cmo/oaa_mars.html)
『火星通信』#367 (25 January 2010)　編集：**淺 田　正**(*As*)、**南　政 次**(*Mn*)、**村上 昌己**(*Mk*)
中 島　孝(*Nj*)、**西田 昭徳**(*Ns*)
Edited by: **Tadashi ASADA, Masatsugu MINAMI, Masami MURAKAMI, Takashi NAKAJIMA and Akinori NISHITA**
発行　Published by/for : **東亞天文学会** OAA **火星課** Mars Section

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