

## MARS

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## OBSERVATIONS

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**W** E here review the Mars Observations made during the one-month period

*from 16 January ( $\lambda = 357^\circ \text{Ls}$ ) to 15 February 2006 ( $\lambda = 012^\circ \text{Ls}$ ).*

Now we entered the Martian spring equinox of the northern hemisphere. So this is the season when the grown-up north polar cap (npc) pops out from the retreating hood. It is however hard to disclose the npc at present because the angular diameter  $\delta$  is small (from 10.3" down to 7.8" during the period), and the tilt  $\phi$  is still no less than  $13^\circ \text{S}$  (down from  $18^\circ \text{S}$ ). The phase angle  $\iota$  went from  $37^\circ$  to maximal  $39^\circ$ , and so it was also difficult to pin down the sph (the south circumpolar area near the pole is whole day night without daybreak). On the other hand in the coming season at the end of 2007 we will encounter the spring equinox when  $\delta$  is just over 15" and  $\phi$  is  $4^\circ \text{N}$  and hence it will become easier to watch the transition from the retreat of the nph to the appearance of the npc (while no improvement in watching the sph can be expected). The apparent declination was this time from  $+18^\circ$  to  $+21.5^\circ$  (it is now hard for the observers who are using the refractors): In 2007/2008 it will be much higher (from the NH).

The weather in Japan remained still quite dismal, while Damian PEACH (*DPc*) and Dave TYLER (*DTy*) produced a series of excellent images in England, and Don PARKER (*DPk*) was also active in Florida.

♂.....今号は**16 January ( $\lambda=357^\circ \text{Ls}$ ) から 15 February 2006 ( $\lambda=012^\circ \text{Ls}$ )** の一ヶ月間をレビューする。季節は北半球の春分に入って、北極冠がどうかという季節になった。然し、視直径 $\delta$ は10.3"から7.8"に落ちた上、 $\phi$ は $18^\circ \text{S}$ から $13^\circ \text{S}$ にしか動かないから北側の観測は難しい。 $\iota$ は $37^\circ$ から最大値 $39^\circ$ になって、南極雲の観測も難しい。2007年末の $\lambda=000^\circ \text{Ls}$ 期は $\delta$ は15秒臺、 $\phi$ も $4^\circ \text{N}$ となるから北極域の観測は遙かに有利になる。視赤緯は今回は $+18^\circ$ から $+21.5^\circ$ へ昇った。2007年には更に高くなる。日本の天候は未だ回復しない。相変わらず、ピーチ氏やタイラー氏の活躍が目覚ましく、唐那・派克氏も頑張っている。

♂.....The following list shows (a total of 26) observers who observed and contributed this period (in the semi-month period of peak during 16 Oct - 30 Oct we received from 75 observers).

♂.....観測者は最盛期の1/3に減って二十六名である。

**ADELAAR, Jan ヤン・アデラール (*JAd*)** 尼徳蘭 Arnhem, Nederland

1 Set of CCD Images (18 January 2006)  $f/42 \otimes 23 \text{cm}$  SCT with a ToUcam

**AKUTSU, Tomio 阿久津 富夫 (*Ak*)** 菲律賓 Cebu, the Philippines

7 Colour CCD Images (26, 27, 29 January; 3, 5, 13 February 2006)  $f/30 \otimes 20 \text{cm}$  SCT with ToUcam

**ANDERSON, David デヴィッド・アンダーソン (*DAd*)** 南卡羅萊納 nr Greenwood, SC, USA

2 Sets of CCD Images (21 January; 2 February 2006)  $f/46 \otimes 40 \text{cm}$  spec with ToUcam 740

**ARDITTI, David デヴィッド・アーディッチ (*DAr*)** 英國 Stag Lane, Edgware, G London, UK

3 Sets of *LRsGB* Images (21, 24 January; 8 February 2006)  $f/58, 59, 90 \otimes 25 \text{cm}$  D-K Cass with mono ToUcam

- BOSMAN, Richard** リシャルト・ボズマン (*RBs*) 尼德蘭 Enshed, Nederland  
1 CCD Image (13 February 2006) 28cm SCT with an ATK-2HS
- COOPER, Jamie** ジェミー・クーパー (*JCp*) 英國 Northampton, UK  
1 CCD Image (22 January 2006)  $f/35 \otimes 36$ cm SCT with a modified ToUcam
- DeGROFF, Kent** ケント・デグロフ (*KGr*) 亞利桑那 Scottsdale, AZ, USA  
1 Colour CCD Image (18 January 2006)  $f/34 \otimes 25$ cm spec with ToUcam 740
- DICKINSON, William H** ビル・ディキンソン (*WDe*) 維吉尼亞 Glen Allen, VA, USA  
1 Colour CCD Image (28 January 2006)  $f/30 \otimes 20$ cm SCT with a ToUcam Pro II
- KUMAMORI, Teruaki** 熊森 照明 (*Km*) 堺 Sakai, Osaka, Japan  
7 Colour CCD Images (18, 24, 26 January; 8 February 2006)  $f/50 \otimes 60$ cm Cass with an ATK-2C  
\*ソフィア堺天文臺 Sakai City Observatory
- LOMELI, Ed** エド・ロメリ (*ELm*) 加利福尼亞 Sacramento, CA, USA  
9 Sets of CCD Images (20 January; 8 February 2006) 23cm SCT with a ToUcam Pro
- MAKSYMOWICZ, Stanislas** スタニスラス・マクシモヴィッチ (*SMk*) 法國 Ecquevilley, France  
6 Sets of Drawings (20, 21, 23 January; 9, 10, 14 February 2006) 200, 250×15cm refr
- MELILLO, Frank J** フランク・メリッロ (*FMI*) 紐約 Holtsville, NY, USA  
3 Sets of CCD Images (20, 28, 29 January 2006)  $f/20 \otimes 20$ cm SCT with a ToUcam
- MINAMI, Masatsugu** 南 政次 (*Mn*) 福井 Fukui, Fukui, Japan  
8 Drawings (29 January; 13 February 2006) 400, 600×20cm Goto ED refractor\*  
\*Fukui City Observatory 福井市自然史博物館天文臺
- MORITA, Yukio** 森田 行雄 (*Mo*) 廿日市 Hatsuka-ichi, Hiroshima, Japan  
1 Set of CCD Images +1 IR (18 January 2006) 25cm spec with a Lu075M
- MURAKAMI, Masami** 村上 昌己 (*Mk*) 藤澤 Fujisawa, Kanagawa, Japan  
11 Drawings (24, 27, 29 January; 5, 11 February 2006) 320×20cm  $F/8$  speculum
- NAKAJIMA, Takashi** 中島 孝 (*Nj*) 福井 Fukui, Fukui, Japan  
8 Drawings (29 January; 13 February 2006) 400, 600×20cm Goto ED refractor\*  
\* Fukui City Observatory 福井市自然史博物館屋上天文臺
- PARKER, Donald C** ドン・パーカー (*DPk*) 佛羅里達・邁阿密 Miami, FL, USA  
9 Sets of CCD Images (17, 22, 24 January; 10, 11 February 2006)  $f/36,47 \otimes 41$ cm  $F/6$  spec with Lu075M
- PEACH, Damian A** デミアン・ピーチ (*DPc*) 英國 Loudwater, Buckinghamshire, UK  
15 Sets of CCD Images (17, 20, 21, 22, 24, 25, 29 January; 8, ~11 February 2006)  
 $f/40 \otimes 35$ cm SCT with Lu075
- PELLIER, Christophe** クリストフ・ペリエ (*CPI*) 法國 Seine-St-Denis, France  
6 Sets of RGB + 4 IR +Images (23\*, 24\*, 29, 31 January 2006)  
 $f/52-63^*$ , 51, 65×21cm Mewlon with (Lu075M+ATK-1HS)\*/Lu075M
- ROSOLINA, Michael** マイケル・ロゾリーナ (*MRs*) 西維吉尼亞 Friars, WV, USA  
1 Colour Drawing (29 January 2006) 340×20cm  $F10$  SCT
- SCHULZ, Robert** ロベルト・シュルツ (*RSz*) 奧地利 Wien, Österreich  
1 Set of CCD Images (29 January 2006)  $f/31 \otimes 32$ cm spec with Lu075M
- SHARP, Ian** イアン・シャープ (*ISp*) 英國 Ham, West Sussex, UK  
1 Colour CCD Image (9 February 2006)  $f/50 \otimes 28$ cm SCT with ATiK-1HS
- SIEGEL, Elisabeth** エリサベト・シーゲル (*ESg*) 丹麥 Malling, Danmark  
3 Drawings (16, 23 January; 11 February 2006) 330×20cm  $F/10$  SCT
- TEICHERT, Gérard** ジェラルド・タイシエルト (*GTc*) 法國 Hattstatt, France  
5 Drawings (23, 24, 25, 29, 31 January 2006) 330, 350×28cm SCT

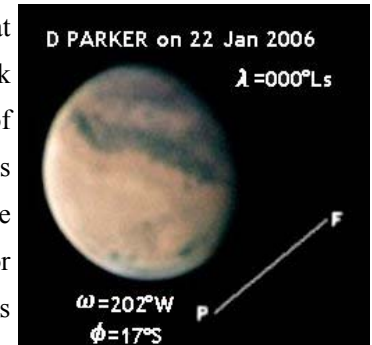
**TYLER, David** デーヴ・タイラー (*DTy*) 英國 Flackwell Heath, Buckinghamshire, UK

16 Sets of *RGB* or *IRsGB* Images +1 *R* (21, 22, 24, 29, 31 January; 4, 8, 9, 10, 15 February 2006)  
*f*/50,53,54,55,60 ⊗ 35cm SCT with Lu075M

**VANDEBERGH, Ralf** ラルフ・ファンデベルフ (*RVb*) 尼德蘭 Nederland

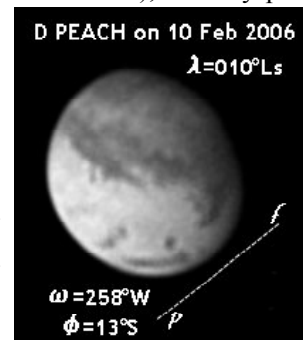
4 *IRsGB* or *RsGB* Images (24, 29, 31 January; 1 February 2006) *f*/35,40 ⊗ 25cm spec with ATK-1HS

♂.....**The NPH:** Even if the *nph* has become thinner, it may appear thicker if looked obliquely near the northern limb. On the images of **PARKER** (*DPk*) on 17 Jan ( $\lambda=358^\circ\text{Ls}$ ,  $\phi=18^\circ\text{S}$ ) at  $\omega=226^\circ\text{W}$  (to the north of Elysium), the *nph* looks thick in B, and in R also no dark marking is seen at Vastitas Borealis (to the east of Utopia). On the images of **MORITA** (*Mo*) on 18 Jan ( $\lambda=358^\circ\text{Ls}$ ) at  $\omega=026^\circ\text{W}$ , the half of M Acidalium looks still covered by the *nph*. In general the *nph* still looks thickly declined to the morning side as in **TYLER** (*DTy*)'s on 24 Jan ( $\lambda=002^\circ\text{Ls}$ ,  $\phi=16^\circ\text{S}$ ) at  $\omega=048^\circ\text{W}$  or **PEACH** (*DPc*)'s on 29 Jan ( $\lambda=004^\circ\text{Ls}$ ) at  $\omega=354^\circ\text{W}$ ,  $359^\circ\text{W}$  (*DPc*'s 100th night this apparition). A weaker image of the *nph* may be witnessed on *DPk*'s images made on



22 Jan ( $\lambda=000^\circ\text{Ls}$ ) at  $\omega=187^\circ\text{W}$ ,  $203^\circ\text{W}$  which show a faint expansion of the *nph* at the evening side at the north of Propontis I (see Figure here). It does not imply that the *nph* has weakened and retreated in general, and in fact *DPk*'s images on 24 Jan ( $\lambda=001^\circ\text{Ls}$ ) at  $\omega=170^\circ\text{W}\sim 191^\circ\text{W}$  show a revived *nph*. However we may say as the month turned round in February, it became rather difficult to find images which showed the *nph* vividly, while **MURAKAMI** (*Mk*) visually detected the whiteness of the *nph* on 5 Feb ( $\lambda=007^\circ\text{Ls}$ ) at  $\omega=170^\circ\text{W}\sim 189^\circ\text{W}$ , and felt it was rimmed by a shadowy band. On the same day **AKUTSU** (*Ak*) took an image at  $\omega=229^\circ\text{W}$  which shows a faint *nph*.

♂.....**The NPC:** The reason why it is difficult to discriminate the appearance of the north polar cap (*npc*) was stated in the preceding issue: However if we follow **PELLIER** (*CPI*)'s indication (LtE in CMO #315), we may pick out the following *DPc*'s images as the ones that may show the *npc*: 24 Jan ( $\lambda=002^\circ\text{Ls}$ ,  $\phi=16^\circ\text{S}$ ) at  $\omega=057^\circ\text{W}$ , 25 Jan ( $\lambda=002^\circ\text{Ls}$ ) at  $\omega=048^\circ\text{W}$ , 29 Jan ( $\lambda=004^\circ\text{Ls}$ ) at  $\omega=354^\circ\text{W}$ , 9 Feb ( $\lambda=009^\circ\text{Ls}$ ) at  $\omega=256^\circ\text{W}$ ,  $263^\circ\text{W}$ , 10 Feb ( $\lambda=010^\circ\text{Ls}$ ) at  $\omega=258^\circ\text{W}$  (here shown the R image), 11 Feb ( $\lambda=010^\circ\text{Ls}$ ) at  $\omega=240^\circ\text{W}$ . *DTy*'s images on 24 Jan at  $\omega=048^\circ\text{W}$  may also show the tip. Finally however we should keep in mind the fact that the shorter wave-length light is easily affected by the terrestrial airborne matters like the water vapour so that we cannot necessarily judge the density on images to be very real.



We should incidentally note that in the delicate season when the *npc* pops out or the central latitude points to the equatorial zone, we should print down the direction *p*---*f* by stopping the driving motor (not by the declination of the camera) as *DPk* does (for instance on 22 Jan ↗): Without the sign of the NS line (not *pf* line) we cannot easily find the exact direction of the poles from the images. According to *The Almanac*, the *p* direction is different from the direction of the north pole by  $38^\circ$  in the case of *DPk* on 22 Jan, and by  $39^\circ$  in the case of *DPc* on 10 Feb here.

We incidentally note that on the images by *DPc* resp *DTy* on 8 Feb ( $\lambda=009^\circ\text{Ls}$ ) at  $\omega=270^\circ\text{W}$  resp  $272^\circ\text{W}$ , the area of Utopia looks abnormally disturbed and the bright limb matter appears not present (due to the seeing condition?).

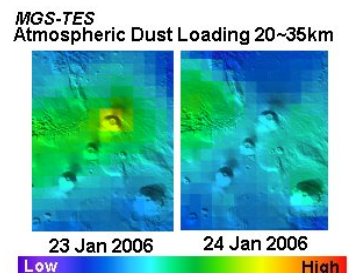
♂.....**Argyre Cloud:** Since the season of the south polar hood (*sph*) is come, the cloud over the basin Argyre is interesting. The Argyre cloud, mostly condensate, was seen during the period from the morning to the afternoon. At the afternoon limb side, it was apparent on *DPc*'s B image on 17 Jan ( $\lambda=358^\circ\text{Ls}$ ) at  $\omega=128^\circ\text{W}$ , and on the morning side it was clear on *Mo*'s G image on 18 Jan ( $\lambda=358^\circ\text{Ls}$ ) at  $\omega=026^\circ\text{W}$  (weak in B). Otherwise it was visible on B images on 21 Jan ( $\lambda=000^\circ\text{Ls}$ ) by *DTy* at  $\omega=082^\circ\text{W}$ ,  $093^\circ\text{W}$ , by *DPc* at  $\omega=074^\circ\text{W}$ ,  $093^\circ\text{W}$ , on 23 Jan ( $\lambda=001^\circ\text{Ls}$ ) by *CPI* at  $\omega=072^\circ\text{W}$ ,  $077^\circ\text{W}$ , on 24 Jan ( $\lambda=002^\circ\text{Ls}$ ) by **ARDITTI** (*DAr*) at  $\omega=059^\circ\text{W}$  (R, weak in B), by *DPc* at  $\omega=063^\circ\text{W}$  (B), by *CPI* at  $\omega=063^\circ\text{W}$ ,  $071^\circ\text{W}$  (B) and so on. Since  $\iota$  was near maximal  $38^\circ$ , Argyre (centred at

$\Omega=035^\circ\text{W}$ ) was regarded to be at noon when the LCM read  $\omega=070^\circ\text{W}+\alpha$ . In the US, **ANDERSON (DAd)**'s image shows it on 2 Feb ( $\lambda=006^\circ\text{Ls}$ ) at  $\omega=079^\circ\text{W}$ . At further morning side **DPk**'s B image on 10 Feb ( $\lambda=010^\circ\text{Ls}$ ) at  $\omega=012^\circ\text{W}$  shows a bright terminator mist patch.

♂.....**The SPH:** On 16 Jan ( $\lambda=357^\circ\text{Ls}$ ) at  $\omega=143^\circ\text{W}$ , and on 23 Jan ( $\lambda=001^\circ\text{Ls}$ ) at  $\omega=077^\circ\text{W}$ , **SIEGEL (ESg)** observed that the spr looked light thru W25 and W47, but was covered not by a solid hood but by a semi-transparent haze. **LOMELO (ELm)** took a sequence of images on 8 Feb ( $\lambda=009^\circ\text{Ls}$ ) at  $\omega=055^\circ\text{W}\sim 066^\circ\text{W}$  whose B and G showed a large hood-like pall from the spr down to Argyre. It looks larger than that taken by **DAd** on 2 Feb. On 11 Feb ( $\lambda=010^\circ\text{Ls}$ ), **DPk** produced the B image at  $\omega=008^\circ\text{W}$  where a compact pall down to the south of Noachis. On the same day, **DPc** produced a B image at  $\omega=241^\circ\text{W}$  where the nph was indistinct. Subsequently **ESg** tried to catch the hood by W58 at  $\omega=267^\circ\text{W}$  but nothing was visible. In Japan, **Mk** watched the spr at  $\omega=124^\circ\text{W}$ ,  $134^\circ\text{W}$ , but just saw a dull bluish light.

♂.....**Mist Belt at the Southern Continents:** **DPk**'s B images on 17 Jan ( $\lambda=358^\circ\text{Ls}$ ) at  $\omega=226^\circ\text{W}$  show that the continents of Electris, Eridania and Ausonia Australis are governed by a white mist belt from the morning to the afternoon, while to its south M Chronium was appearing dark. To its east, Phæthontis is roughly misty on **DPc**'s B image at  $\omega=130^\circ\text{W}$  on the day. On **DPk**'s images on 22 Jan ( $\lambda=000^\circ\text{Ls}$ ) at  $\omega=186^\circ\text{W}$ ,  $201^\circ\text{W}$ , the belt is seen on the morning side only to the west of Electris. **DPk**'s B series of images on 24 Jan ( $\lambda=001^\circ\text{Ls}$ ) at  $\omega=171^\circ\text{W}$ ,  $175^\circ\text{W}$ ,  $189^\circ\text{W}$ ,  $193^\circ\text{W}$  also show the mist belt as a whole as if surrounding M Chronium. Later on 11 Feb ( $\lambda=010^\circ\text{Ls}$ ), **DPc**'s B image at  $\omega=241^\circ\text{W}$  does not suggest easily this conspicuous belt.

♂.....**Arsia Evening Cloud:** A clear isolated cloud is seen near Arsia Mons on the B images of **DPk** made on 24 Jan ( $\lambda=001^\circ\text{Ls}$ ) at  $\omega=171^\circ\text{W}$ ,  $175^\circ\text{W}$ . However, it cannot be said the Arsia white cloud constantly revived: The TES on the preceding 23 Jan shows that the summit of Arsia Mons was covered by a dust (see the Figure here), though we lack the terrestrial data of Arsia Mons on 23 Jan.



♂.....**Morning Ascræus Mons:** It is well known that since the low temperature morning mist creeps near on the ground, the summits of such high mountains as Tharsis Montes and Olympus Mons pop out as reddish dark spots. Now that the morning mist is in a normal condition, the summits of Ascræus Mons and possibly Pavonis Mons should be quite evident as isolated dark spots on the mist sea as shown on **DPc**'s B image on 20 Jan ( $\lambda=000^\circ\text{Ls}$ ) at  $\omega=089^\circ\text{W}$ , and the composite images on 21 Jan ( $\lambda=000^\circ\text{Ls}$ ) made by **DTy** at  $\omega=073^\circ\text{W}\sim 093^\circ\text{W}$ , and by **DPc** at  $\omega=093^\circ\text{W}$  also show them timely. Especially the composite image of **DPc** at  $\omega=096^\circ\text{W}$  shows the reddish dark Olympus Mons out of mist near the terminator. Otherwise **CPI**'s B and G images on 23 Jan ( $\lambda=001^\circ\text{Ls}$ ) at  $\omega=077^\circ$  as well as on 24 Jan ( $\lambda=002^\circ\text{Ls}$ ) at  $\omega=064^\circ\text{W}$ ,  $071^\circ\text{W}$  also clearly prove the phenomenon.

♂.....**Morning Mist at Hellas:** The morning Hellas showing a mist was watched by **Mk** on 24 Jan ( $\lambda=001^\circ\text{Ls}$ ) at  $\omega=282^\circ\text{W}$ ,  $291^\circ\text{W}$ ,  $301^\circ\text{W}$ , and he saw a thicker part at the northern Hellas. At  $\omega=292^\circ\text{W}$ , **KUMAMORI (Km)** produced a good image. On 29 Jan ( $\lambda=004^\circ\text{Ls}$ ), **NAKAJIMA (Nj)** and **Mn** watched long from  $\omega=231^\circ\text{W}$  to  $285^\circ\text{W}$ : Hellas was dull, and its inside looked to show a tint of cream at around  $\omega=265^\circ\text{W}$ . On 11 Feb ( $\lambda=010^\circ\text{Ls}$ ), **ESg** observed at  $\omega=264^\circ\text{W}$  that a northern part of the morning Hellas was bright thru IntL.

♂.....**Miscellany:** a) **Deformation of M Cimmerium?:** **DeGROFF (KGr)**'s ToUcam image made on 18 Jan ( $\lambda=358^\circ\text{Ls}$ ) at  $\omega=249^\circ\text{W}$  looks to have been too enhanced to break up some usual markings: It is however interesting to note that the eastern part looks to split into two. Does it imply that some movement of sands has occurred? This may not be a ghost: **DPc**'s images on 9 Feb ( $\lambda=009^\circ\text{Ls}$ ) at  $\omega=256^\circ\text{W}$ ,  $263^\circ\text{W}$  and **DTy**'s images on 10 Feb ( $\lambda=010^\circ\text{Ls}$ ) at  $\omega=260^\circ\text{W}$  suggest the split-up. b) **Around Deucalionis R:** **Mo**'s colour composition on 18 Jan ( $\lambda=358^\circ\text{Ls}$ ) at  $\omega=026^\circ\text{W}$  shows that the region from Deucalionis R, through the lower part of Noachis, to Mar-

garitifer S is of still sandy colour; maybe implying that it was resulted from a fallout. **c) North Polar Dust Disturbance?:** *DTy*'s images on 4 Feb ( $\lambda=007^\circ\text{Ls}$ ,  $\varphi=14^\circ\text{S}$ ) at  $\omega=318^\circ\text{W}$ ,  $321^\circ\text{W}$ ,  $327^\circ\text{W}$  are exceptionally excellent for  $\delta=8.4''$  in that they show Nerei D and Peneus etc quite vividly, and otherwise they also suggest an occurrence of a local dust near the perimeter of the npc. **d) The Density of M Tyrrhenum:** This apparition (especially after opposition) M Tyrrhenum has looked dark sometimes without the water mist covering: On 29 Jan ( $\lambda=004^\circ\text{Ls}$ ), *Nj* and *Mn* easily caught M Tyrrhenum. The above-cited *DTy*'s image on 4 Feb ( $\lambda=007^\circ\text{Ls}$ ) at  $\omega=318^\circ\text{W}$ ,  $321^\circ\text{W}$ ,  $327^\circ\text{W}$  show that M Tyrrhenum was quite dark in R. On *DPc*'s B image on 9 Feb ( $\lambda=009^\circ\text{Ls}$ ) at  $\omega=261^\circ\text{W}$ , M Tyrrhenum is out of the mist. This fact was known from an earlier period: See eg *DPc*'s B image made on 26 Nov 2005 ( $\lambda=331^\circ\text{Ls}$ ) at  $\omega=281^\circ\text{W}$  et al. **e) Afternoon Mist at Libya:** *Ak*'s images on 26 Jan ( $\lambda=002^\circ\text{Ls}$ ) at  $\omega=321^\circ\text{W}$ , and on 27 Jan ( $\lambda=000^\circ\text{Ls}$ ) at  $\omega=317^\circ\text{W}$ ,  $328^\circ\text{W}$  show a white mist at Libya near the limb. This is not so evident on the above-cited images of *DTy* on 4 Feb ( $\lambda=007^\circ\text{Ls}$ ), but this may depend on the terrestrial moisture condition or on the processing. **f) North of the west end of M Sirenum:** The west end of M Sirenum has been an interesting point (since 1986?) and from time to time a shadowy patch to the north of the west end has been observed (shadowy spot when  $\tau$  is large?). *DPk*'s B images on 24 Jan ( $\lambda=001^\circ\text{Ls}$ ) at  $\omega=171^\circ\text{W}$ ,  $175^\circ\text{W}$ ,  $189^\circ\text{W}$ ,  $193^\circ\text{W}$  all show the patch is out as a result of de-concentration of mist. **g) Elysium:** *ESg* observed visually on 16 Jan ( $\lambda=357^\circ\text{Ls}$ ) at  $\omega=143^\circ\text{W}$  to detect a morning misty Elysium thru W47. Elysium was otherwise clearly lighter than the surrounding on *DAd*'s image taken on 21 Jan ( $\lambda=000^\circ\text{Ls}$ ) at  $\omega=192^\circ\text{W}$  and *DPk*'s on 22 Jan ( $\lambda=000^\circ\text{Ls}$ ) at  $\omega=203^\circ\text{W}$ .

♂.....**Outlook:** This winter the atmospheric pressure configuration over Japan was very severe - high to the west and low to the east - so that from Japan regrettably we were not able to contribute too much from December: Our contributions were very less compared with those from Europe and the US in the present winter time. We are not sure if the situation could happen to be improved in our winter period in 2007/2008, but at least the apparent diameter will be larger enough to observe the water mist distribution more in detail on Mars at this Martian season (as noted previously,  $\lambda=350^\circ\text{Ls}$  will come around on 20 November 2007,  $\lambda=000^\circ\text{Ls}$  around 10 December 2007, and  $\lambda=010^\circ\text{Ls}$  at the end of 2007). As shown above, to pursuit the interesting and important mist distribution on Mars the high qualified B images are indispensable: The peak of the spectral response of B should be near 410nm and the tails of G and R (IR) should be cut off. At the same time we should be aware that the quality depends highly on the conditions of the terrestrial moisture and others in winter. Furthermore, since the mist distribution in B is different from the dark or bright marking distribution in R, one should clearly indicate the perpendicular NS line on any image for example by stopping the driving motor (not by measuring mechanically or with the eye). We finally note: The view that the genuine G ingredient lacks on the Martian surface or phenomena is false.

♂.....**北極雲:** 北半球の春分( $\lambda=360^\circ\text{Ls}$ )が近づいた段階でも、北極は向こう側で斜めに見える所爲か未だ北極雲は可成り濃く見える。唐那・派克(DPk)氏の17Jan( $\lambda=358^\circ\text{Ls}$ ,  $\varphi=18^\circ\text{S}$ ) $\omega=226^\circ\text{W}$ (エリュシウムの北)では、可成り厚く見えていて、R像にもウトピアに続くワスティタス・ボレアリス(ワスティタスは延びた低地のこと)の暗部は出ていない。森田(Mo)氏の18Jan( $\lambda=358^\circ\text{Ls}$ ) $\omega=026^\circ\text{W}$ ではマレ・アキダリウムの半分が矢張り覆われている。一般に未だ北極雲は朝方に傾いて見えていて、タイラー(DTy)氏の24Jan( $\lambda=002^\circ\text{Ls}$ ) $\omega=048^\circ\text{W}$ 或いはピーチ(DPc)氏の29Jan( $\lambda=004^\circ\text{Ls}$ ) $\omega=354^\circ\text{W}$ ,  $359^\circ\text{W}$ の像(DPc氏の今期百回目の像)に明白である。DPk氏の22Jan( $\lambda=000^\circ\text{Ls}$ ) $\omega=187^\circ\text{W}$ ,  $203^\circ\text{W}$ では北邊の左側、プロポンティスIの北側で淡い雲の擴がりがある(英文の部の圖参照)。ここでは北極雲は弱くなっているが、必ずしも未だ完全に退化したわけではなく、実際にDPk氏の24Jan( $\lambda=001^\circ\text{Ls}$ ) $\omega=170^\circ\text{W}\sim 191^\circ\text{W}$ ではまた北極雲が好く現れている。然し、二月に入ると全體に衰退する。但し、村上(Mk)氏は5Feb( $\lambda=007^\circ\text{Ls}$ ) $\omega=170^\circ\text{W}\sim 189^\circ\text{W}$ で北邊に北極雲の白さを觀測し、而も稍縁取られて居るように見ている。この日には

阿久津(Ak)氏の $\omega=229^\circ\text{W}$ があり、北極雲の擴がりが出てきているが、弱く、縁取りは寫っていない。尚、短波長光は水蒸氣や浮遊物によって透過が影響されるから、B光での極雲の強さは一概には判断が出来ない事に注意する。

♂……北極冠：前號で述べたように現在は北極冠出現の時期であるに拘わらず、 $\phi$ 値が適切ではないために、北極冠を瞥然と垣間見ることすら難しい。ただ、前號のペリエ(CPI)氏の指摘に倣い、DPc氏の次のR像にはそれらしい片鱗が見えて居ると言えるかもしれない：24Jan( $\lambda=002^\circ\text{Ls}$ ,  $\phi=16^\circ\text{S}$ ) $\omega=057^\circ\text{W}$ 、25Jan( $\lambda=002^\circ\text{Ls}$ ) $\omega=048^\circ\text{W}$ 、29Jan( $\lambda=004^\circ\text{Ls}$ ) $\omega=354^\circ\text{W}$ 、9Feb( $\lambda=009^\circ\text{Ls}$ ) $\omega=256^\circ\text{W}$ 、 $263^\circ\text{W}$ 、10Feb( $\lambda=010^\circ\text{Ls}$ ) $\omega=258^\circ\text{W}$ (英文の部の圖参照)、11Feb( $\lambda=010^\circ\text{Ls}$ ) $\omega=240^\circ\text{W}$ 。24JanにはDTy氏の $\omega=048^\circ\text{W}$ の良像があって、これにも出ていると思うが、 $p$ --- $f$ の方向が分からないため、俄には分からない。現在のよう南北線が微妙なときは(カメラの向きよりも)先に掲げたDPk氏の圖のように $p$ --- $f$ の方向を畫面に寫し込んでおく事が必要で、DPk氏は正確に南北線を垂直にしているので助かる、というか速断が容易になる(Almanacに據ればDPk氏の場合、 $p$ 方向とN方向は $38^\circ$ 離れており、10FebのDPc氏の例では $39^\circ$ 傾いている)。

尚、8Feb( $\lambda=009^\circ\text{Ls}$ )のDPc、DTy氏の $\omega=270^\circ\text{W}$ 、 $272^\circ\text{W}$ によれば(シーイングの違いもあるだろうが)ウトピアの邊りがひどく崩れていて、北極冠は瞥見できないように思う。

♂……アルギュレ雲：南極雲の前哨戦として、アルギュレ上の霧状の雲は興味がある。この時期、これは朝から午後まで存続したようである。夕端ではDPc氏の17Jan( $\lambda=358^\circ\text{Ls}$ ) $\omega=128^\circ\text{W}$ のB像、朝方ではMo氏の18Jan( $\lambda=358^\circ\text{Ls}$ ) $\omega=026^\circ\text{W}$ のG像に出ている(Bでは弱い)。その他、内側では21Jan( $\lambda=000^\circ\text{Ls}$ )にDTy氏の $\omega=082^\circ\text{W}$ 、 $093^\circ\text{W}$ のB、DPc氏の $\omega=074^\circ\text{W}$ 、 $093^\circ\text{W}$ のB、23Jan( $\lambda=001^\circ\text{Ls}$ )のCPI氏の $\omega=072^\circ\text{W}$ 、 $077^\circ\text{W}$ のB、24Jan( $\lambda=002^\circ\text{Ls}$ )にはアルディッチ(DAr)氏の $\omega=059^\circ\text{W}$ のR、DPc氏の $\omega=063^\circ\text{W}$ のB、CPI氏の $\omega=063^\circ\text{W}$ 、 $071^\circ\text{W}$ のB像等がヨーロッパ側の結果である。 $i$ は最大値 $38^\circ$ に近いから、 $\omega=070^\circ\text{W}+\alpha$ でアルギュレ( $\Omega=035^\circ\text{W}$ 中心)は正午に来ていると思う。アメリカではアンダーソン(DAd)氏が2Feb( $\lambda=006^\circ\text{Ls}$ ) $\omega=079^\circ\text{W}$ で撮っている。更に朝縁の様子は10Feb( $\lambda=010^\circ\text{Ls}$ )のDPk氏の $\omega=012^\circ\text{W}$ (B)参照。

♂……南極雲：16Jan( $\lambda=357^\circ\text{Ls}$ ) $\omega=143^\circ\text{W}$ 、23Jan( $\lambda=001^\circ\text{Ls}$ ) $\omega=077^\circ\text{W}$ でのシーゲル(ESg)さんの南極雲域の観測ではW25でもW47でも明るく(白く)見えるが、まだ濃くはなく半透明のようである。ロメロ(ELm)氏の8Feb( $\lambda=009^\circ\text{Ls}$ ) $\omega=055^\circ\text{W}\sim 066^\circ\text{W}$ のB、G畫像にはアルギュレ方向に南極から張り出す雲が大きく寫されている。2FebのDAd氏の像に比べて大きくなっている様である。11Feb( $\lambda=010^\circ\text{Ls}$ )のDPk氏の $\omega=008^\circ\text{W}$ にはノアキスの南に南極雲が明るく垂れ下がっている。然し、同日のESgさんの $\omega=267^\circ\text{W}$ の方からはW58でも殆ど見えないようである。この日には英國ではDPc氏の $\omega=241^\circ\text{W}$ がある。日本ではMk氏が $\omega=124^\circ\text{W}$ 、 $134^\circ\text{W}$ で南極雲域を観察しているが、稍薄青い明るさを感じているようである。

♂……大陸の霧帯：17Jan( $\lambda=358^\circ\text{Ls}$ )のDPk氏の $\omega=226^\circ\text{W}$ のB像では、エレクトリス-エリダニア-アウソニアに霧帯が朝から午後まで顕著で、その南にはマレ・クロニウムは濃く出ている。その東では同日のDPc氏の $\omega=130^\circ\text{W}$ にパエトンティスが淡い朝霧で覆われているようだ。DPk氏の22Jan( $\lambda=000^\circ\text{Ls}$ ) $\omega=186^\circ\text{W}$ 、 $201^\circ\text{W}$ では朝方だけ、エレクトリス以西に見える。更にDPk氏の24Jan( $\lambda=001^\circ\text{Ls}$ )のB像シリーズ $\omega=171^\circ\text{W}$ 、 $175^\circ\text{W}$ 、 $189^\circ\text{W}$ 、 $193^\circ\text{W}$ にはマレ・クロニウムの外を取り囲むように全體に霧帯が出ている。11Feb( $\lambda=010^\circ\text{Ls}$ )のDPc氏の $\omega=241^\circ\text{W}$ ではこの霧帯は明白ではない。

♂……アルシアタ雲：24Jan( $\lambda=001^\circ\text{Ls}$ )のDPk氏のB像 $\omega=171^\circ\text{W}$ 、 $175^\circ\text{W}$ にはアルシア近傍にクッキリと孤立白斑が出ている。然し、恒常的に出ていたかどうか、TESに據れば23Janにはアルシア・モンズに黄雲が掛かっているので(英文の部の圖参照)、23Janの観測がないのは惜しい。

♂……朝のアスクラエウス・モンズ：タルシス三山とオリュムプス・モンズは朝霧が低空を這うとき、霧の上に顔を出して赤黒く見えることは好く知られているが、今回、朝方に於いてアスクラエウス・モンズが(パウオニス・モンズも範囲内だが)B光で黒く霧の上に孤立している姿が、20Jan( $\lambda=000^\circ\text{Ls}$ )のDPc氏の $\omega=089^\circ\text{W}$ のB像、21Jan( $\lambda=000^\circ\text{Ls}$ )のDTy氏の $\omega=073^\circ\text{W}\sim 093^\circ\text{W}$ の合成像、DPc氏

の $\omega=093^\circ\text{W}$ に出ている。特に後者の合成像 $\omega=096^\circ\text{W}$ にはオリュムプス・モンスが朝縁で霧の上に赤黒い姿を見せている。他に、CPI氏の23Jan( $\lambda=001^\circ\text{Ls}$ ) $\omega=077^\circ\text{W}$ のB、G像、24Jan( $\lambda=002^\circ\text{Ls}$ ) $\omega=064^\circ\text{W}$ 、 $071^\circ\text{W}$ のB、G像にも明確である。

♂……**ヘッラスの朝霧**：ヘッラスの朝霧は24Jan( $\lambda=001^\circ\text{Ls}$ )にMk氏が $\omega=282^\circ\text{W}$ 、 $291^\circ\text{W}$ 、 $301^\circ\text{W}$ で北側で感じ取っているが、 $\omega=292^\circ\text{W}$ には熊森(Km)氏の像がある。29Jan( $\lambda=004^\circ\text{Ls}$ )には福井でNj氏と筆者が $\omega=231^\circ\text{W}\sim 285^\circ\text{W}$ で注視した。ヘッラスは鈍いのだが、 $\omega=265^\circ\text{W}$ 周りではクリーム色に見える。11Feb( $\lambda=010^\circ\text{Ls}$ )のESgさんの $\omega=264^\circ\text{W}$ ではヘッラス北部がILで明るく見えている。

♂……**その他**：**a) マレ・キムメリウムの奇形?**：デグロフ(KGr)氏の18Jan( $\lambda=358^\circ\text{Ls}$ ) $\omega=249^\circ\text{W}$ のToUcam像は明らかに強調処理画像で気色悪い模様が彼方此方に出ているが、マレ・キムメリウムの東部が縦に割れているように見えているのは、興味深い。何らかの砂の動きがあったものか。これはゴーストではなく、DPc氏の9Feb( $\lambda=009^\circ\text{Ls}$ ) $\omega=256^\circ\text{W}$ 、 $263^\circ\text{W}$ 、DTy氏の10Feb( $\lambda=010^\circ\text{Ls}$ ) $\omega=260^\circ\text{W}$ にも窺える。**b) デウカリオニス・レギオ周辺**：Mo氏の18Jan( $\lambda=358^\circ\text{Ls}$ ) $\omega=026^\circ\text{W}$ にはデウカリオニス・レギオからノアキスの一部、更にその西側に掛けて、依然砂色になっている。沈澱の結果であろう。**c) 北極**

**雲域の局所黄塵?**：DTy氏の4Feb( $\lambda=007^\circ\text{Ls}$ 、 $\phi=14^\circ\text{S}$ ) $\omega=318^\circ\text{W}$ 、 $321^\circ\text{W}$ 、 $327^\circ\text{W}$ の像は $\delta=8.4''$ にしては極めて良像で、ネレイ・デプレッショとペネウスが好く見えている他、幾つかの微細構造が見えるが、北極冠域の境界通りに極型の局所黄塵が出ている可能性がある。**d) マレ・テュッレヌムの濃度**：今期(後半?)はマレ・テュッレヌムが水蒸気を抜けて濃く見えるのであるが、29Jan( $\lambda=004^\circ\text{Ls}$ )のNj氏と筆者の観測でも、シーイングが悪くてもマレ・テュッレヌムは掴みやすかった。いま引用したDTy氏の4Feb( $\lambda=007^\circ\text{Ls}$ ) $\omega=318^\circ\text{W}$ 、 $321^\circ\text{W}$ 、 $327^\circ\text{W}$ の像では、夕端に来て濃い姿を見せている。DPc氏の9Feb( $\lambda=009^\circ\text{Ls}$ ) $\omega=261^\circ\text{W}$ のB像では霧を抜けている。このことはもっと早く、26Nov( $\lambda=331^\circ\text{Ls}$ )2005ato $\omega=281^\circ\text{W}$ (B)周りから認識されていることである。

**e) リビュアの夕霧**：Ak氏の26Jan( $\lambda=002^\circ\text{Ls}$ ) $\omega=321^\circ\text{W}$ 、27Jan( $\lambda=000^\circ\text{Ls}$ ) $\omega=317^\circ\text{W}$ 、 $328^\circ\text{W}$ ではリビュアには東端で白霧が出ている。4Feb( $\lambda=007^\circ\text{Ls}$ )のDTy氏の $\omega=318^\circ\text{W}$ 、 $321^\circ\text{W}$ 、 $327^\circ\text{W}$ では顕著ではないが、これは地球大気の水蒸気の状態か処理の仕方で異なるのかも知れない。但し、白霧が出ていることは確かである。**f) マレ・シレヌム西端の北**：マレ・シレヌム西端は昔と異同があるのだが、その北方には時々暗部が見られる。多分これは $t$ の大きいときの蔭かも知れないが、DPk氏の24Jan( $\lambda=001^\circ\text{Ls}$ )のB像( $\omega=171^\circ\text{W}$ 、 $175^\circ\text{W}$ 、 $189^\circ\text{W}$ 、 $193^\circ\text{W}$ )では全体を覆う水蒸気から抜け出て黒くなっている事に注意。脱凝縮の一種であろう。**g) エリュシウム**：ESgさんは眼視で16Jan( $\lambda=357^\circ\text{Ls}$ ) $\omega=143^\circ\text{W}$ に朝方のエリュシウムにW47で朝霧を見ている。未だエリュシウムはDAd氏の21Jan( $\lambda=000^\circ\text{Ls}$ ) $\omega=192^\circ\text{W}$ やDPk氏の22Jan( $\lambda=000^\circ\text{Ls}$ ) $\omega=203^\circ\text{W}$ などでクッキリしている。

♂……**あとがき**：この冬季は西高東低型の気圧配置が強く日本からの寄與が殆ど無いのは残念であるが、全體に視直径が小さくなったこともあり大事な点について追求が出来ないことが出てきている。ところで、火星のこの季節は上の分析から分かるようにB像が重要な働きをするわけだが、冬季は晴れても水蒸気が強く変化し、B像に影響が強くなるということがあるので注意しなければならない。2007/2008年ではこの冬期が火星の水蒸気の働きが重要になる時期と重なる( $\lambda=350^\circ\text{Ls}\sim 010^\circ\text{Ls}$ が十一月後半から年末に来る)譯であるから、特に留意する必要がある。またB像は410nm周りを中心に撮ることが望ましく、出来るだけG方向からの抜けを排除しなければならない。一方、火星に緑色は無いというのはウソで、矢張りG像が必要である。Rでは出ない模様があり、Bでは畫質が一層困難であるから、RとBからsG等というのは問題にならない。もう一点は、南極冠・北極冠ともにクリティカルな状況、水蒸気が不安定な状況では南北線が重要で、畫像の中で運轉時計を止めて、 $p\text{--}f$ の方向を出しておく必要がある。カメラの傾きでは覺束かない事である。

♂……In the next issue we shall review the observations made during a one-month period from 16 February 2006 ( $\lambda=012^\circ\text{Ls}$ ,  $\delta=7.7''$ ) to 15 March 2006 ( $\lambda=026^\circ\text{Ls}$ ,  $\delta=6.3''$ ).

## 便り

## Letters to the Editor

●.....Date: Wed, 25 Jan 2006 13:43:55 +0900  
Subject: 虹画像

こんにちは。セブではここしばらく天気不良で夜は殆ど晴れません。今夜は衛星画像からでは晴れて見えるかもしれませんが。気温は現在、外では30℃はあるでしょうか？ 暑い。これから徐々に暑くなりだし、四、五月が最も暑くなります。

一月23日の朝、雨が降り終わったら、綺麗な虹が見えました。セブではスコールの様な降雨が多いので日本より頻繁に虹が見られます。

○.....Date: Sat, 28 Jan 2006 14:41:01 +0900  
Subject: Mars iamge 26th Jan. 2006

こんにちは、火星画像です。小さくなりましたが、まだ見えます。

○.....Date: Mon, 30 Jan 2006 13:27:06 +0900  
Subject: mars images 27 .29 Jan.2006

こんにちは、火星画像です。

Dear observers, I attach here some of Mars images taken on 27th and 29th Jan 2006. Best Wishes

○.....Date: Tue, 7 Feb 2006 11:42:38 +0900  
Subject: mars image 02 .05 Feb, 2006

二月に入り、乾季特有の季節になりました。火星は小さくなりましたが、気流が良い時はまだ見えています。

○.....Date: Tue, 14 Feb 2006 16:22:41 +0900  
Subject: mars 13 Feb.2006

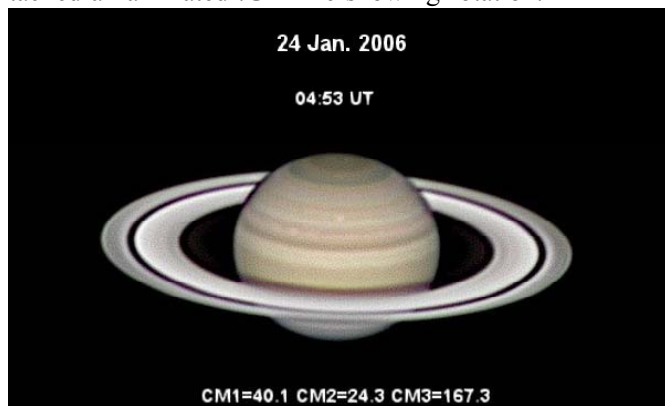
こんにちは。セブ島では先週末から雨が降って寒い週末となりました。今日は朝から晴れ、暑い二月となっています。火星は小さいながらもまだOKです。南極地方にモヤが有るのでしょうか？

阿久津 富夫 (Tomio AKUTSU セブ The Philippines)

[http://homepage2.nifty.com/~cmons/2005/index\\_Ak.html](http://homepage2.nifty.com/~cmons/2005/index_Ak.html)

●.....Date: Wed, 25 Jan 2006 18:01:17 +0000  
Subject: Saturn Spots

Hi All, I have attached some Saturn images showing small spots in the SEBz and the STB. I have also attached an animated .GIF file showing rotation.



Data: 16-inch f-6 Newtonian @ f-22  
Lumenera 075M Camera, StreamPix  
Astronomik LRGB filters  
Registax, Photoshop

○.....Date: Sat, 28 Jan 2006 20:49:42 +0000

From: Donald Parker To: vzy03210@nifty.com  
Subject: Re: Happy Birthday!

Dear Masatsugu, Many thanks for the Chinese character -- I certainly hope that we both make it at least another 10 years! I have printed it out and have it on my office bulletin board. It will be a reminder for a goal!

(On Jan. 28, 2006 Mars will be only ~6 arc-seconds -- I will have to get my cataracts fixed for that!)

Best and good seeing!

-----  
At 02:35 PM 1/28/2006 +0900, you wrote:

>Dear Don,

>Happy Birthday to You!

>You kindly made me a present of a Chinese Character which  
>implies Radiance or Brilliancy on my birthday, and so I

>should like to send to you a Chinese Character which means

>Delight or Joy or Pleasure on your happy 67th birthday.

>However this Character, if written in a *cursive* hand, is known

>to look like 77 in Chinese figures, and so we usually use it on

>the occasion of the 77th birthday. So let us live at least

>another TEN years!

>With best wishes

>Masatsugu@Mikuni in 2006

○.....Date: Mon, 30 Jan 2006 03:45:06 +0000  
Subject: Mars Images

Hi All, I have attached some Mars images from 24 Jan. NPH fragmenting. Arsia cloud still prominent.

○.....Date: Thu, 02 Feb 2006 05:22:18 +0000  
Subject: Saturn Images

Hi All, I have attached some Saturn images from 31 Jan. The STZ spot is still present. It appears somewhat larger than on 24 Jan, but this could be due to the extremely poor seeing. Spots remain in the SEBz, seen near the PM limb.

I have also attached a belated Saturn image from 4 Jan.

○.....Date: Tue, 14 Feb 2006 04:23:04 +0000  
Subject: Mars Images

Hi All, I have attached some Mars images from 10 and 11 February. Very poor seeing. The NPH persists while the NPC is still not visible despite a De of -13 degrees. Best

Don PARKER (唐那・派克 Miami FL 美)

[http://homepage2.nifty.com/~cmons/2005/index\\_DPk.html](http://homepage2.nifty.com/~cmons/2005/index_DPk.html)

●.....Date: Wed, 25 Jan 2006 20:50:18 +0900  
Subject: Mars-2006-01-24-KUMAMORI

用意をしていると曇ってきました。やっと1画像のみ作ることができました。

○.....Date: Thu, 26 Jan 2006 21:03:59 +0900  
Subject: Mars-2006-01-26-KUMAMORI

天気予報は良いのですが、不安定な天候で、やっと一画像のみ作ることができました。

○.....Date: Fri, 10 Feb 2006 21:46:53 +0900  
Subject: Mars-2006-02-08-KUMAMORI

なかなか巧く晴れないのですが、晴れてもシーイングは悪く三個の画像を並べるほどではありませんが、報告させていただきます。

○.....Date: Thu, 23 Feb 2006 07:55:35 +0900  
Subject: Mars-2006-02-21-KUMAMORI

ちょっと温かくなりシーイングもやや回復気味ですが成果はあまり代わり映えしません。

熊森 照明 (Teruaki KUMAMORI 堺 Sakai)

[http://homepage2.nifty.com/~cmons/2005/index\\_Km.html](http://homepage2.nifty.com/~cmons/2005/index_Km.html)



●.....Date: Thu, 26 Jan 2006 12:19:18 -0000  
Subject: Mars on the 24th

Hi Guys, Here's is a set of Mars images from the 24th. there appears to be a distinct white cloud over Argyre.

C14 F60 RsG B Lumenera 075 Best wishes

○.....Date: Sun, 29 Jan 2006 23:18:33 -0000  
Subject: Mars this evening 29th

Hi Guys, after a blue sky day we had a short clear sunset before cloud arrived seeing was good.

○.....Date: Tue, 31 Jan 2006 23:02:16 -0000  
Subject: Mars 31-1-06

Hi Guys, Here is a set from this evening, grabbed at sundown before the clouds formed by spontaneous obscuration out of a clear sky! Seeing was unsteady but quite detailed. C14 @f50 Best wishes

○.....Date: Sun, 5 Feb 2006 13:24:51 -0000  
Subject: Mars 4-2-06

Hi Guys, here is a Mars set from our first clear evening for about a century ! Seeing was quite good.

The slightly darker processed image shows an interesting and very large "horse-shoe" feature.

C14 F53 LUMENERA075 RsGB Trutek type 1 red type 2 blue Best wishes

○.....Date: Thu, 9 Feb 2006 15:56:22 -0000  
Subject: Mars 8-2-06

Hi Guys, Here's a set of Mars. Taken in poor seeing on the 8th. C14 f54 Best wishes

○.....Date: Fri, 10 Feb 2006 14:03:24 -0000  
Subject: Mars 9-feb-2006

Hi Guys, Seeing was a little better last evening at sunset. This one was at about f 60 with my C14 i.e. a 3x barlow stretched 120mm. Best wishes

○.....Date: Sun, 12 Feb 2006 13:11:07 -0000  
Subject: Mars 10-Feb-2006

Hi Guys, Here is Mars from the 10th Feb. The 16:29 red image was taken 29 mins before sunset in very good seeing, but unfortunately clouds rolled over my half of the sky so preventing a blue image. Don't you just hate it when that happens? It cleared later allowing further imaging, but in shabby seeing. Don't you just love it when that happens ! C14 f 60 Best wishes

PS: It's raining now, don't you,,,,,,

○.....Date: Wed, 15 Feb 2006 22:19:28 -0000  
Subject: Mars 15-Feb-06

Hi guys, here is mars from this evening from the UK where seeing was YUK. Bit of a live system check really after some computer problems. This one was imaged through the thin clouds, through which the Moon is now shining quite brightly as I type. C14 @ f55

○.....Date: Fri, 17 Feb 2006 12:33:04 -0000  
Subject: Mars 16 Feb 06

Hi Guys, Although there was plenty of high speed jitter at sunset, Reggistax, once again, made the best of it. I note a little brightening at the North Pole. C14@f55 usual set-up. Best wishes

○.....Date: Sun, 19 Feb 2006 20:39:52 -0000  
Subject: Mars 17th Feb

Hi Guys, Here is Mars from the 17th. Caught in the fair seeing just before sunset. Details on Image.

○.....Date: Tue, 21 Feb 2006 12:41:41 -0000  
Subject: Mars 20th Feb

Hi Guys, Yet another clear sundown with good seeing C14 F55 Trutek type 1 red, type 2 G,B .

**Dave TYLER** (テウァイト・タイラー Bkh UK 英)

<http://www.david-tyler.com/>

[http://homepage2.nifty.com/~cmons/2005/index\\_DTy.html](http://homepage2.nifty.com/~cmons/2005/index_DTy.html)

●.....Date: Thu, 26 Jan 2006 21:00:03 +0100  
Subject: Re: Masatsugu asks a favour of Christophe

Dear Masatsugu, It will be a great honor to write something in the CMO bulletin ! I'll think about it; must it be only about the SAF activity ?

The cold wave that hit the northern part of Japan last month had an echo in our news here, as well as the one who ran into eastern Europe in the last weeks. Both have killed some people, but France still remains safe so far this winter, thanks to our oceanic-influenced climate. I had a very nice autumn for astronomy, usually autumn is the worst season of the year, the last ones where terrible, but I'm completing my 60th set of images, with good shots from the 24th (still to be sent). This apparition may have been better than the 2003 one. I'm waiting with a great interest for the 2007 aphelic opposition, which will allow us to observe the equinox season in both poles.

I feel really sorry to hear that you still have health problems; last week-end we had a meeting of the *Commission des observations planétaires* (Daniel Crussaire and Nicolas Biver were there) and with Daniel we remarked that we didn't receive the CMO new year wishes for 2006, we supposed because of this. But there is no need to be sorry! You and the CMO team don't have to prove your interest for all the amateurs that participate to the work.

Interesting are your info about the chinese' names. China and in general the Asian continent are far from our lives, but this is changing and will évoluer quickly. Last week we learned that China's national income outpassed that of Great Britain, which is slightly more important than ours... The economical power, for me, is going to shift to Asia, and Europe for the moment is out of the game. While I'm a great supporter of the european construction, I'm also deeply disappointed by what it is now, our currency is governed by ideology ("l'Euro fort"), there is no politic of budget, and the different states are only ok to deliberately maintain the budget of the EU at the ridiculous level of 1% of the total european income. I bet than in a near future, chinese's names will be used also in Europe, the same way than now many parents name their children with american ones. Best wishes

○.....Date: Sat, 28 Jan 2006 11:20:40 +0100  
Subject: Mars, january 24th

Hi all, seeing was excellent on the 24th - <http://www.astrosurf.org/pellier/M060124-CPE> Argyre is still cloudy. The SPH is much weaker than the NPH at same season, I believe because the SPR miss the same quantity of water vapor, right ?

Ascaerus is again seen as a red spot in the morning. The first sequence is taken with the Lumenera, the second one with the ATK. In that superb seeing, both cameras did the same job. Best wishes,

○.....Date: Sat, 28 Jan 2006 12:41:03 +0100  
Subject: Saturn january 5th, and 24-25th

Hi all, two sets of images from this month: On the 5th, good seeing but clouds did permit only one image:

<http://www.astrosurf.org/pellier/S060105-CPE>

On the 24-25th, a very good night although transparency was fair :

[http://www.astrosurf.org/pellier/S060124\\_25-CPE](http://www.astrosurf.org/pellier/S060124_25-CPE)

Visually, the "opposition effect" was present, with bright rings and dull yellow globe, but this is not well reproduced by the images, I find. Two spots are imaged (ar-

rowed in the Lumenera's shot), one at 42°S and another at the SEBs (not the one imaged by Andrea). The 42°S spot is very close to the limb but it has been observed minutes later by Bondoux and Dauvergne (link at the APOD web site). It must be the first one observed at this latitude since the "dragon's storm" in september 2004!

Best wishes

○ ······**Date: Sun, 29 Jan 2006 11:58:52 +0100**

**From: Christophe Pellier**

**To: Donald Parker Cc: Masatsugu Minami**

**Subject: Re: Saturn january 5th, and 24-25th**

Many thanks Don - I think that your images show something more: there must two dark spots following or preceding the bright ones... Best wishes

PS : happy birthday to you !!! Just a bit late...

-----  
Donald Parker a écrit :

> Hi Christophe,

> Nice shots! You also captured the SEBz spot, which no one has

> mentioned. I have attached some images from 24 Jan plus an

> animated .GIF showing rotation. Best,

> Don

○ ······**Date: Sun, 29 Jan 2006 15:00:44 +0100**

**Subject: Mapping the 2005 Mars**

Hi guys, here are two links with maps of Mars in 2005, made with WinJupos : *General map* :

<http://www.astrosurf.org/pellier/mars2005map>

*Polar maps* :

<http://www.astrosurf.org/pellier/mars2005polar>

I don't recall having seen many polar maps of Mars. This is easily done with WinJupos. One limit to these maps is that they have been realized with images from three different months (september, octobre, november). Therefore seasonal and daily changes are mixed together, bringing errors to the map, such as the SPC which doesn't present its real shape, or the NPH. Nonetheless the map of the NPH is interesting ; it proves clearly that the hood reaches more southerly latitude around 30° and 210°, where are theoretically found the Acidalium and Utopia low pressure systems...

Many thanks to you Grisca for your fantastic software and to all that gave you a hand ! Best wishes,

○ ······**Date: Sun, 12 Feb 2006 10:34:25 +0100**

**Subject: Re: Masatsugu asks a favour of Christophe**

Dear Masatsugu and Masami, Please find attached my contribution for the 20th anniversary CMO issue. I hope it's not too long. This is a little personal reflexion about Mars amateur studies, I hope that you'll find it ok for publication - Best wishes,

○ ······**Date: Sat, 18 Feb 2006 13:34:09 +0100**

**Subject: Mars, january 29th and 31th**

Hi all, two last sets of images:

<http://www.astrosurf.org/pellier/M060129-CPE>

<http://www.astrosurf.org/pellier/M060131-CPE>

○ ······**Date: Tue, 14 Mar 2006 19:47:16 +0100**

**Subject: Mars, march 12th 2006**

Hi all, seeing was good on the 12th and the pattern of details is well recognizable despite the 6,4" size.

<http://www.astrosurf.org/pellier/M060312-CPE>

The springtime NPC is visible at north.

○ ······**Date: Sat, 18 Mar 2006 12:46:08 +0100**

**Subject: Mars, march 15th 2006**

A new set under fairly good seeing.

<http://www.astrosurf.org/pellier/M060315-CPE>

Autumn clouds are now growing inside Hellas.

○ ······**Date: Sun, 19 Mar 2006 18:34:36 +0100**

**Subject: Saturn, march 15h 2006**

Hi all, an experience with a shorter focal length that night due to a lack of transparence mainly:

<http://www.astrosurf.org/pellier/S060315-CPE>

The two spots (unresolved) can be detected in all three colors but are best seen in green light (see hc version).

Regards

**Christophe PELLIER** (カリストフ・ペリエ nr Paris 法)

● ······**Date: Fri, 27 Jan 2006 19:16:01 -0000**

**Subject: Mars images (January 24th, 2006)**

Hi all, Here are some images from Jan 24th. Good seeing. Note the bright cloud over Argyre. Also the SPH seems to extend someway northward along the terminator. The NPH is still very prominent at this longtitude with no sign of the NPC edge in red light.

[http://homepage.ntlworld.com/damian.peach/2006\\_01\\_24rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_01_24rgb_DAP.jpg)

○ ······**Date: Fri, 27 Jan 2006 20:55:19 -0000**

**Subject: Mars images (January 25th, 2006)**

Hi all, Here are some images from Jan 25th. Fair to poor seeing, with large amounts of cloud causing problems. The cloud over Argyre is fainter than the day before.

[http://homepage.ntlworld.com/damian.peach/2006\\_01\\_25rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_01_25rgb_DAP.jpg)

○ ······**Date: Sun, 29 Jan 2006 22:03:08 -0000**

**Subject: Mars images (Jan 29th, 2006)100th session.**

Hi all, Here are some images from this evening. Good seeing. This was my 100th night of Mars imaging this apparition!. It all seems to have gone by so quickly!

Hellas is misty on the limb, with the SPH is weakly visible. Some faint mists over Edom and Deltoton Sinus. Deuteronilus is dark as is Ismenius Lacus.

[http://homepage.ntlworld.com/damian.peach/2006\\_01\\_29rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_01_29rgb_DAP.jpg)

○ ······**Date: Sat, 11 Feb 2006 22:48:42 -0000**

**Subject: Mars images (February 8th, 2006)**

Hi all, Here is the first of four sessions of Mars images obtained this week. Poor seeing. Some weak haze over Hellas and Libya can be seen. No haze over Elysium.

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_08rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_08rgb_DAP.jpg)

○ ······**Date: Sun, 12 Feb 2006 14:22:30 -0000**

**Subject: Mars images (February 9th, 2006.)**

Hi all, Here are some images from Feb 6th. Good seeing. A bright cloud over Libya. Also a bright limb cloud over southern Mare Hadriacum on the edge of Hellas. Some mistiness also over Ausonia and the SPR.

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_09gb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_09gb_DAP.jpg)

○ ······**Date: Sun, 12 Feb 2006 22:57:31 -0000**

**Subject: Mars images (February 10th, 2006)**

Hi all, Here are some images from Feb 10th. Good seeing. The SPH is becoming increasingly thick it seems and is very prominent in Blue light. Also clouds over Ausonia, Libya and Hellas.

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_10rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_10rgb_DAP.jpg)

○ ······**Date: Mon, 13 Feb 2006 16:11:49 -0000**

**Subject: Mars images (February 11th, 2006.)**

Hi all, Here are some images from Feb 11th. Fair to good seeing, but deteriorating as poor weather rapidly approaching.

Similar activity to yesterday. Still a thick SPH (though not especially bright). Perhaps we are now seeing the true NPC shining through the last remnants of the hood given we have now reached Ls=10°.

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_11rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_11rgb_DAP.jpg)

○ ······**Date: Mon, 13 Feb 2006 17:42:56 -0000**

**Subject: Re:Venus/Saturn/Jupiter - JJ (10/11th Feb 06)**

Hi David, all, This double ring aspect of Saturn i have seen before. I am not convinced its due to frame mis-

alignment, as R3 deals very well with dim or noisy frames provided the settings are correct. Jame's image was taken with Saturn low in the sky at 0330 UT (just 30deg altitude.) If he did not use an IR block filter much of the problem will be due to smearing and dispersion at low altitude. The Toucam is pretty useless really for objects at low altitude unless you have a wedge prism to correct for the dispersion or are using filters. The Blue channel data will be especially badly affected by dispersion and not using the proper filters.

David's images are rather more puzzling however since they are filtered. The blurring present in the Feb 10th Saturn images is always in the same plane running from upper right to lower left, smearing the cassini division. I think this is either due to a bad and constant flow of turbulence in one direction, registax misaligning frames on all the image sets (unlikely) or an instrumental problem of some kind.

Martin Mobberley made a very good point that a rural location does not mean a better location for Planetary observation. There are other factors to consider such as rural sites tend to be far more prone to fog and low cloud forming under tranquil airmasses, especially to the east and midlands of the UK.

A great example of fine results being obtained from a really bad location are Eric Ng's images taken from the centre of Hong Kong city surrounded by buildings everywhere, and with constant poor transparency due to pollution, and an old vibration prone building from where he imaged from!. If someone can obtain good results from an awful location like that, i think a typical UK backyard location is pretty good by comparison!

Best Wishes

○.....Date: **Mon, 20 Feb 2006 16:12:25 -0000**  
Subject: **Mars images (February 17th, 2006.)**

Hi all, Here are some images from Feb 17th. Good seeing. The true edge of the NPC can be nicely seen now showing through the weak misty NPH. The albedo markings around Panchaia and Lemuria can be seen through the hood. Also note the thickening SPH now easy to see. Also a bright cloud over Ausonia. Arsia orographic cloud is bright at the limb.

Despite  $\delta=7.6''$  some minor features are still seen such as the projections at Gomer Sinus and the small Trivium-Cerberus dots.

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_17rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_17rgb_DAP.jpg)

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_17bw\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_17bw_DAP.jpg)

○.....Date: **Mon, 20 Feb 2006 17:24:28 -0000**  
Subject: **Mars images (February 18th, 2006.)**

Hi all, Here are some images from Feb 18th. Good seeing, but caught through a 20 min clearing in the clouds very late with Mars well past the meridian. Similar details to yesterday with the NPC nicely seen, and SPH prominent.

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_18rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_18rgb_DAP.jpg)

○.....Date: **Mon, 20 Feb 2006 22:11:56 -0000**  
Subject: **Mars images (February 20th, 2006.)**

Hi all, Here are some images from this evening. Pretty good seeing, but gusty winds. The NPC southern edge is seen again, but the SPH seems even more brilliant and condensed this session than previously.

[http://homepage.ntlworld.com/damian.peach/2006\\_02\\_20rgb\\_DAP.jpg](http://homepage.ntlworld.com/damian.peach/2006_02_20rgb_DAP.jpg)

Best Wishes

**Damian PEACH** (テミアン・ピーチ Bkh UK 英)  
<http://www.damianpeach.com/>

●.....Date: **Sun, 29 Jan 2006 17:48:28 +0900**  
Subject: **Re: お断り(南政次記)**

南様、村上様：

> 序でに、S&T十二月号のシーハンさんの記事のロー  
>エル・ルートの出鱈目さ加減は、シーハンさんに起  
>因するようです。どういう経緯であんな妙なルート  
>が描かれたのか知りませんが(多分資料整理が悪い)、  
>事後にS&Tから送られて来た元図をみると、S&Tには  
>責任がないようです。

>私は文字原稿の方はチェックするように頼まれ、  
>幾らか直していますが、この図は前もって送  
>られてきていませんでした。S&Tにはこの図を訂正  
>しないようでは評判を落としますよ、と言ってあり  
>ますが、どうなるのでしょうかね。.....

シーハン氏から次のようなメールをもらっています。S&T12月号の記事を見たよ、というメールに対する返事です(途中までですが。)

> January 12, 2006

> Dear Tadashi,

> I am very pleased to hear from you again, and I too fondly  
>recall our travels together in pursuit of Lowell's route.

> I had not intended originally to include a map of Lowell's  
>route, but the editor at Sky & Telescope requested this at the  
>last minute -- literally the day before it was due to appear in  
>press. So I did the best I could to prepare a map based on my  
>recollections and the base map that I had available. I know  
>that my attempt has been judged very severely by M. Minami,  
>but what I did was merely meant to indicate roughly the route  
>taken-- Sky & Telescope is not the National Geographic. Very  
>few Sky & Telescope readers who are not Japanese would not  
>have known even where Noto is. I know M. Minami has  
>now published a map of Lowell's route on his web site; I only  
>regret this had not been available when I needed it.

> There are always fault-finders and one must make one's way  
>as best one can despite them. .... **Bill SHEEHAN**

○.....Date: **Wed, 01 Feb 2006 12:01:22 +0900**  
Subject: **Re: Lu075**

私もフィルターを変えようかと考えています(今のものは暗すぎるので)。フィルターの情報を教えていただければ幸いです。

**浅田 正** (Tadashi ASADA 宗像 Fukuoka)

[http://homepage2.nifty.com/~cmons/2005/index\\_As.html](http://homepage2.nifty.com/~cmons/2005/index_As.html)

●.....Date: **Sun, 29 Jan 2006 12:28:35 -0600**  
Subject: **RE: CMO**

Dear CMO Colleagues: I wish you all a happy and prosperous 2006 on the occasion of the New Lunar Year. It was an honor to have my images of Mars posted on your site during 2005. I am a better observer as a result of your knowledge and feedback regarding my CCD images. The awareness of the planets and other object in the night sky, has enriched my life, and given me a broader perspective on the universe in which we all share. May your skies be clear and steady, and you bodies and souls enjoy the peak of health and contentment. Best wishes,

**Don BATES** (ドナルド・ベーツ Houston TX 美)

[http://homepage2.nifty.com/~cmons/2005/index\\_Dbt.html](http://homepage2.nifty.com/~cmons/2005/index_Dbt.html)

●.....Date: **Mon, 30 Jan 2006 00:13:19 -0800**  
Subject: **Re: CMO**

Thanks for Best Wishes in the New Year 2006. I wish to you all the best in New Year and in future activities of CMO.

I have problem to identify some details - names of details near south and north pole on my Mars photo (October 12, 2005)- details in grayscale. Can you help me? Photos are in attachment.

Best wishes from Croatia, Europe.

Zlatko KOVACEVIC (ズラトコ・コヴァチェヴィッチ  
Republika Hrvatska 克羅地亞)

[http://homepage2.nifty.com/~cmons/2005/index\\_ZkV.html](http://homepage2.nifty.com/~cmons/2005/index_ZkV.html)

●.....Date: Sun, 29 Jan 2006 23:06:59 -0500  
Subject: RE: CMO

Hello Masami: Thank you for continuing to send me copies of the CMO. I was able to measure the magnitude and brightness of Mars in late 2005. Mars reached magnitude -2.4 on Nov. 7, 2005. Keep up the good work.

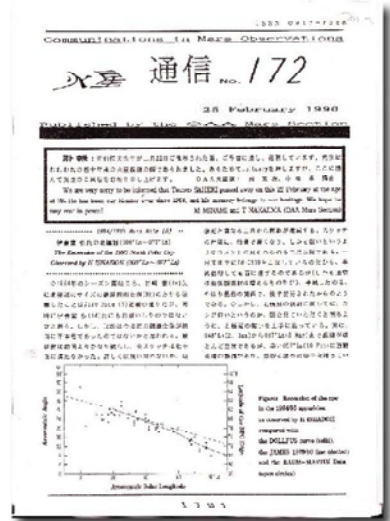
Richard SCHMUDE, Jr (リチャード・シュマド  
Barnesville GA 美)

●.....Date: Tue, 31 Jan 2006 00:34:05 +0900

# TEN YEARS AGO (126)

----CMO #172 (25 February 1996)----

CMO#172 consists of 12 pages: *A*) At the top it is reported the death on 22 February of Tsuneo SAHEKI at the age of 79. *B*) 1994/1995 Mars Note (8) and (9) treat the recession curves of the 1995 npc observed by H ISHADOH (Id) and J WARELL (JWr at Uppsala) respectively. *JWr's* ranges from  $\lambda=353^\circ\text{Ls}$  to  $083^\circ\text{Ls}$ . *C*) LtE includes letters from WHITBY(SWb), QUARRA(GQr), MEYER, JWr, FALSARELLA(NFI) and others: Gianni QUARRA informs of the death of M FALORNI on 23 Dec. *D*) MURAKAMI (Mk) describes about the Comet Hyakutaké (found on 30 Jan 1996). *E*) The OAA Mars Section corner reports first about *JWr's* observations from 21 Feb to 4 Mar 1995 ( $\lambda=061^\circ\text{Ls}\sim 066^\circ\text{Ls}$ ) with the 50cm Swedish vacuum solar telescope at La Palma by a lot of ccd images (on which his Master Thesis was based), and secondly about *NFI's* observations of the recession of the 1995 npc.



佐伯恆夫先生ご他界の訃報は編集中に長谷川一郎氏より伝えられ、急遽トップに入れた。Id氏とJWr氏の北極冠曲線は筆者が計測し、西田昭徳(Ns)氏がプロットしたものである。Id氏は衝後の観測は事情で少なかった様だが、北極冠の観測は $\lambda=077^\circ\text{Ls}$ までプロット出来、後半はジェームズよりドルフスの曲線に合っている。JWr氏の16cm屈折の観測で $\lambda=083^\circ\text{Ls}$ まで四十葉寄せられている。視赤緯は当時 $+18^\circ$ 位はあった筈で、ウプサラでも好く観測出来たと思う。彼自身の計測とわれわれの結果を併用しているが、やや違った結果で、全体に $\lambda=000^\circ\text{Ls}$ 邊りは小さ目になり、バラツキがある。LtEは日本人は山本進氏、村上昌己氏、木村精二氏、比嘉保信氏(庭の桜が咲きました--6ニ1996)からである。SWb氏は筆者の母親の病状について氣遣っている。GQr氏のは(7ニ1996)付けFAXでどうも自己紹介があるからこのときが最初のお便りのようである。JWr氏は"May I first congratulate you, Mr Nakajima and Mr Nishita for ten years (and a gasping 171 issues, so far) of the CMO! ... The last issue of CMO featuring Don Parker's images was surely a beautiful jewel of the anniversary"と述べている。彼は修士論文とLa Palma (2327m)での画像をフロッピーとコピーで送ってきており、それはOAA Mars Sectionコーナーで概要を紹介した。25 Feb 1995 ( $\lambda=064^\circ\text{Ls}$ ,  $\omega=329^\circ\text{W}$ )の画像が引用されている。このコーナーではもう一人NFI氏の北極冠の観測が述べられている(データはLtE)。 $\lambda=055^\circ\text{Ls}$ 邊りまで雪線は $70^\circ\text{N}$ の様である。この人はMGSが全面画像を出しているからと言って来てから最近は報告がない(MGSの全面画像が午後二時のswathの合成であることを知らないらしい)。尚。当時百武彗星(C/1995 B2)が出たところで、Mk氏が「三月の天象」コーナーでこの彗星の予報他を記述している。

Ten-Years-Agoは1986年の#002と#003をMk氏が紹介している。#002には佐伯恆夫氏と村山定男氏の1954年のスケッチが掲載された。#003から佐伯氏の連載「火星観測の50年」が開始された。1986年二月25日にMnが臺灣へ向かい、#004以降は浅田正氏が編集するとある。南 政 次(Mn)

29日は晴天で、撮れていますので、処理してお送りします。ただ、またしても時間がありませんので、少し遅れます。十二月分もお送りしないといけないものがあるのですが、なかなか時間がありません。……

○……………Date: **Mon, 6 Feb 2006 00:47:14 +0900**

Subject: **Re: 十二月の観測**

メール有難うございました。十二月の観測は、01、03、14、16、25日となっています。ただ、初期のころは節約して画面を小さくしたところ、おかしなリング状の模様が出てしまいました。それと、撮った数が少ないので像は良くありません。やはり、2000枚以上は撮らないといけないようです。

**森田 行雄** (Yukio MORITA 廿日市 Hiroshima)

[http://homepage2.nifty.com/~cmons/2005/index\\_Mo.html](http://homepage2.nifty.com/~cmons/2005/index_Mo.html)

●……………Date: **Tue, 31 Jan 2006 01:49:15 +0900**

Subject: **Re: FW:Saturn Spots**

今冬は厳しい寒さが続いておりますが、お変わりありませんでしょうか。福井の方は例年以上に雪が多いのではないかと拝察いたします。

Don ParkerとDave Tylerの画像を転送いただき、ありがとうございます。来月の木星土星課報にて取り上げさせていただきます。また、両氏には今後木星土星課の方に直接送っていただけるよう近日中にメールでお願いしてみます。

**堀川 邦昭** (Kuniaki HORIKAWA 横濱 Yokohama)

Director, the OAA Jupiter & Saturn Section

<http://homepage3.nifty.com/~kuniaki/oa/index.htm>

●……………Date: **Wed, 1 Feb 2006 13:07:58 +0900**

Subject: **朝日取材.doc**

拝復、……1月18日に杉本氏が来られたときに、……パーカーさんたちの2001年のフロリダにおける観測を踏まえて、閃光現象が氷による反射によるものなら水もしくは生命体の存在の可能性もあることから、オポータユニティがエドム付近に下りたことを説明し、かつ論文のコピーを渡しました。南様が言われたように、その時点で初めて父の50年前の観測が現代において大きな意味を持つてくるわけです。更に、去年のシーハンさんと南様の記事については訳文を付けて渡しましたが、杉本氏はそれらの論文に対して、あまり興味をもたれなかったように思います。むしろ、始めから父の訃報の記事あるいは経歴等から記事の内容を考えていて、それに肉付けをするための取材だった様です。たとえば、恒夫氏はどのように思っておられるでしょうか。……喜んでいと思います。あたりまえですね。小生としては「日本の天文あるいは科学を学ぶ若い人達にとって大きな励みになる……」というようなことを言ったのですが。そのように考えると小生が強く勧めたにもかかわらず、OAAで火星の専門家である南様の取材をしなかったのもうなずけます。南様も言われるように科学記者が書く記事ではないけれども、まあ一般大衆受けする非常に無難な記事だとは思いますが。おそらく、何故サヘキの名前が火星のクレータに名づけられたのか杉本氏本人もわかっていな

いと思いますし、理解しようとも思わなかったのでしょうか。

最近の生命科学に関しては、韓国の黄教授のES細胞の捏造論文、さらに日本では東大の多比良教授の論文では、実験記録がなく、しかも結果を再現できないという話題があります。それから考えれば、父の五十年も前の観測結果がアメリカで注目され、しかもその観測記録が今でも残っているという見方で、記事を書けばもっとタイムリーな面白いものになったのではないかと思います。今は、結果を出すために当たり前のことが忘れられている時代で、父が生きていれば大いに嘆いただろうと思います。……

今回の記事については、批判はいろいろあるとは思いますが、私どもにとりましては、朝日新聞の杉本氏がOAAの元旦のHPを見て、記事を書いてくれたことについては非常に感謝しておりますが、惜しむらくは父のことを非常によく理解して下さっている南様から取材をしていただくと迫力のあるよい記事になっただろうし、杉本氏も記者として今後のよい勉強が出来ただろうと思っております。

寒い折くれぐれもお身体お大事にお過ごし下さい。

**佐伯 雅夫** (Masao SAHEKI 伊丹 Itami, Hyogo)

●……………Date: **Wed, 1 Feb 2006 14:58:32 +0000**

Subject: **Mars Jan 24**

This is the best I have been able to do on Mars recently. The Toucam was used at 30 fps for 1 min on R, 10 fps for 3 mins on B.

Like other observers, I note that Argyre was bright in blue (clouded) at this time. Chryse, towards *p* limb, has bright patches in R. I am not sure of the reality of the diagonal line of dark spots, as they are not shown in other observers' images from this time.

○……………Date: **Fri, 10 Feb 2006 02:12:23 +0000**

Subject: **Mars Feb 08**

Here is a slightly disappointing Mars set from last night. Seeing poor, but I think at 8" it has got too small now for my methods/equipment, and this will probably be the last one this apparition.

○……………Date: **Thu, 16 Feb 2006 20:04:50 +0000**

Subject: **Mars Feb. 16**

Here is a tiny Mars taken this evening between clouds, in poor seeing and windy conditions (sounds familiar?) Down to 7.6".

I note that the NPH remains prominent, while the S polar area is also bright in B.

○……………Date: **Sun, 19 Feb 2006 18:34:29 +0000**

Subject: **Mars Feb. 17**

Another attempt on Mars. Seeing fair. SPH still strong. Is the shadow-like feature at the terminator the Aetheria secular darkening?

○……………Date: **Mon, 20 Feb 2006 12:10:31 +0000**

Subject: **Re: Toucam B/W Mode / RGB ?**

JJ, Answer is, no, it is not the same, though this is a possible method of imaging.

You can filter a colour Toucam, but signal levels end up quite low because you still have the internal Bayer filter mask on the chip, so you are really double-filtering. This applies if you use the mono mode, just the resultant

image looks grey as if taken with a mono camera. With the Toucam the result is fairly usable with a red filter as it is sensitive in the R, but signal level is very low with a B filter.

Dave Tyler took quite a lot of images of Mars by this method early this apparition, using a standard Toucam in mono mode with filters, before he got his Luminera. They were surprisingly good.

The mono Toucam that I and a few others use has the chip replaced with one without the Bayer filter, and it only operates in B&W mode. It is the cheapest such device, at 150, and is much more sensitive than the standard Toucam.

On 20 Feb 2006, at 11:27, James Jefferson-Wilson James wrote:  
> Hi All,  
> A question : You have Mono Imagers and One Shot  
> Colour imagers. What if you took AVI's in the B/W  
> Mode of a One Shot Imager, would you effectively have the  
> same a Mono imager ? .....JJ

**David ARDITTI** (デヴィッド・アーティ Greater London 英)  
<http://www.davidarditti.co.uk/>

●.....Date: Thu, 02 Feb 2006 17:40:24 +0900  
Subject: 一月31日締め観測結果の報告について

ご無沙汰いたしています。この期間は、私が体調を崩していたこともあり、火星に望遠鏡を向けることはできませんでした。スケッチの報告が無いことをご連絡します。

いままいましいことに、もうすぐスギ花粉が飛び始めます。仕事の方もどんどん忙しくなる一方で、ストレスがたまります。髪の毛の生え際が後退する一因になっているのではないかと、危惧しています。それでは今回は、これにて失礼いたします。

**岩崎 徹** (Thoru IWASAKI 小倉 KitaKyushu)

●.....Date: Thu, 2 Feb 2006 21:51:25 +0100  
Subject: Mars maps 2005

Hi all, Here a map constructed from my captures in roughly one month time, at top a cylindrical projection and below both poleside views, nice to see alot of blue clouds exist in that period on the NPR and some mist on the SPR, hope you enjoy the maps although seeing was'nt always cooperating. best

**Jan ADELAAR** (ヤン・アデアール Arnhem Holland 荷蘭)  
[http://homepage2.nifty.com/~cmons/2005/P\\_C\\_JAd.jpg](http://homepage2.nifty.com/~cmons/2005/P_C_JAd.jpg)  
[http://homepage2.nifty.com/~cmons/2005/index\\_JAd.html](http://homepage2.nifty.com/~cmons/2005/index_JAd.html)

●.....Date: Thu, 2 Feb 2006 22:09:01 +0900  
Subject: 2005 Apparition projection map with animation of textured map

Dear CMO, Here is a projection map of the Martian features during the 2005 apparition I made using a composite of four images (some overlap) taken during October and November 2005. Imaged with my C11@f/50 and LU075 CCD camera. Greyscaled images were loaded into the program StellaImage for the projection map, and a rough animation (some false shadows produced due to the "stitched" areas) of the textured map was made using WinJUPOS. Best regards,

**Robert HEFFNER** (ロブ・ヘフナー Nagoya, Japan)  
[http://homepage2.nifty.com/~cmons/2005/P\\_C\\_RHf.jpg](http://homepage2.nifty.com/~cmons/2005/P_C_RHf.jpg)  
[http://homepage2.nifty.com/~cmons/2005/index\\_RHf.htm](http://homepage2.nifty.com/~cmons/2005/index_RHf.htm)

●.....Date: Fri, 03 Feb 2006 09:21:58 +0100  
Subject: Drawings on their way

Dear Masatsugu, Thank you for your mail. I apologize for answering so late; on the other hand, now I can tell you that today I shall put my Mars drawings from January in the mailbox, so that they will reach you in a couple of days, hopefully.

You are absolutely right about the 'evil eyes' on Mars resembling the old Leonardo da Vinci's eyes! It had not occurred to me before, but I know exactly what you mean.

Yes, you are also right about the *Novus Pons* showing up discontinuously. For your information, I can add that on March 5, 1993 I made a Mars drawing, showing all of Mare Acidalius, with absolutely no sign of the Pons. But just two days later, on March 7, I made another one, with not just a clear-cut drawing of the Pons, but also some observing notes stating how very conspicuous the so-called *Novus Pons* was on that particular evening.

Thank you for the further information about the name Aryn. I like that kind of information, getting to know the history behind the Martian names.

I am sorry that I only managed to observe 4 times during all of January. But the weather in general has not been good, and it has also been very difficult to observe even when sky conditions allowed it. There has been a 30 cm layer of snow in my garden, with a thin crust of extremely slippery ice on top, making it quite scary to have to walk out there carrying a big and heavy ( - and frail!) telescope and try to set it up. To all of that you also have to add that I have severe back trouble for the time being, sometimes forcing me to take a strong pain-killer just to be able to go through with the observing session. - The other night, on January 30, the sky was clear for once, and since I had observed so little in January, I thought that now I had better take advantage of the clear sky. So I carried the scope out to cool off and noticed that it was quite windy, but I didn't think more of that for the time being. I made preparations for about half an hour or so, dressing up in almost exactly the same extreme-cold gear that I wore when I visited Antarctica a couple of years ago, got outside and raised the scope's tripod (a true back-killer when you have a bad back), got all my stuff ready and in place, and finally sat down on my observing stool and looked through the eyepiece. And then it turned out that the wind was so strong that it almost continuously shook the whole tripod (which, by the way, is a quite good and sturdy, stable one, not some light-weight junk), making observation absolutely impossible!! I felt SO idiotic!!

Well, let's just hope that conditions will improve for the both of us. With all the best wishes,

**Elisabeth SIEGEL** (エリサベト・シーゲル Malling 丹麥)

●.....Date: Tue, 07 Feb 2006 22:49:27 +0700  
Subject: Re: mars image 02 .05 Feb, 2006

阿久津 様:火星画像の送信、ありがとうございます。こちらベトナム南部のホーチミン市(旧サイゴン)も一ヶ月遅れて1月初めに乾期入りしました。スコールが無くなり、ほとんど雨が降りません。日中の気温は32~33℃程ですが、夜は25℃を下回るようで、クーラーを止めても寝苦しさはありません。ホーチミン市は人口600~700万のベトナム一の大都市で、その中心街には

ど近いところに投宿しておりますので、空の状態はあまりよくありません。特にメコンデルタが近いこともあって、水蒸気が多いためか、空の抜けが悪いです。望遠鏡は持ってきませんでしたのでシーイングの状態は分かりませんが、星は結構瞬いています。

ベトナムは、先週旧正月の休みが一週間ほどありました(太陽暦の正月は全く祝わないため、年末年始の休みはありませんでした)。喧騒のホーチミン市を離れて、ベトナム中部のムイネーという海辺のホテルで休暇を過ごしましたが、ここは透明度も良くて、久しぶりに綺麗な南十字を椰子の合間に眺めることができました。

**宮崎 勲** (Isao MIYAZAKI うるま Okinawa)

[http://homepage2.nifty.com/~cmons/2005/index\\_My.html](http://homepage2.nifty.com/~cmons/2005/index_My.html)

●.....**Date: Tue, 7 Feb 2006 06:13:31 -0500**  
**Subject: Mars Sketch 1.29.06**

Hello, Sorry to send this so late but my e-mail has been down. Please note that I have a new e-mail address:

My old e-mail address is no longer active.

I have attached a sketch of Mars. The disk was small and hard to observe. The south polar region appeared bluish in the unfiltered view. *Happy New Year!*

**Michael ROSOLINA** (マイク・ロゾリーナ Friars WV 美)

[http://homepage2.nifty.com/~cmons/2005/index\\_MRs.html](http://homepage2.nifty.com/~cmons/2005/index_MRs.html)

●.....**Date: Wed, 8 Feb 2006 00:15:04 +0100**  
**Subject: Mars rotation 2005 Winjupos**

Hi all, I enjoy all the picture's last view weeks! So I can not always reply, on all the good images, sorry about that. So lets go to the point, we have still cloudy weeks here in Holland. And we have the time now for making a gif rotation from Mars 2005. I have use Winjupos, and that's a great program. The moons of Mars is not real, Winjupos fixed already with the image. I have not the luck to get the best picture's on the opposition. So I have to do wit early images from Mars. Here my link from the animation.

[http://www.astrofotografie.nl/mars\\_rotatie\\_2005.htm](http://www.astrofotografie.nl/mars_rotatie_2005.htm)

Sorry for the big file (2.18 mb). Regards

○.....**Date: Wed, 15 Feb 2006 15:23:39 +0100**  
**Subject: Mars 2006/2/13 18h21 UT Richard Bosman**

Hi all, here a very small Mars just 7,87 arcsec. Not the best condition here in Holland, but it will do.

<http://www.astrofotografie.nl/Celestron%2011%20-%20Planeten%202.htm>

C11, 5x barlow, ATK-2HS RGB filters. Kindly regards

**Richard BOSMAN** (リヒャルト・ボスマン Enschede 荷)

[http://homepage2.nifty.com/~cmons/2005/index\\_RBs.html](http://homepage2.nifty.com/~cmons/2005/index_RBs.html)

●.....**Date: Sun, 12 Feb 2006 16:07:21 -0800**  
**Subject: Fw: Mars January 10, 2006**

Some images from Tuesday here. SPH looked very conspicuous. Best Wishes,

**Ed LOMELI** (エド・ロメリ Sacramento CA 美)

[http://homepage2.nifty.com/~cmons/2005/index\\_ELm.html](http://homepage2.nifty.com/~cmons/2005/index_ELm.html)

●.....**Date: Mon, 13 Feb 2006 15:47:57 -0000**  
**Subject: Seeing etc**

Hi David cc All on your list, I don't usually spam the world with my comments, but I thought I'd make an exception in this case, as a fellow UK amateur, who has been in communication with Damian, on and off, for most days of the past 3 or 4 years....

I had a good go at Mars this year and, between June

and the end of November, managed to bag it, mainly through gaps in clouds, on 40 out of ~180 nights. The weather here in the Eastern UK (Suffolk) has been awful this year and I have had less than half the clear nights that Damian & Dave, a mile apart at Loudwater/Flackwell Heath seem to have had. Those 40/180 nights were the absolute maximum I could have had....many 'nights' were simply 10 minute gaps !! This is mainly due to cloud (clag) drifting in from the north sea and, I feel, a damp, moist rural location near the north sea. The supernova patroller Tom Boles has had his worst year, since serious SN patrolling, as he lives in Suffolk too. Some years he has bagged 30 supernovae, but only 11 last year. However, when conditions were still, and foggy, I did get some pleasing results...for example, see:

[http://uk.geocities.com/martinmoberley/mars/Mars2005Nov18\\_2230ut\\_mpm.jpg](http://uk.geocities.com/martinmoberley/mars/Mars2005Nov18_2230ut_mpm.jpg)

As always from here, it just preceded thickening fog ending the session.....it has always been like that here, for over 30 years!

There is no doubt that seeing is the most important factor, but as someone who lives in a rural location, I see no evidence of this being an advantage. To me, the most crucial factor is simply how many nights you observe for and how many hours per night. I would say my rural location is a big disadvantage....given the slightest chance, the dew-sodden fields and air just form mist, fog and low cloud that combines with the omni-present cloud/clag here.....especially when conditions are still and calm. The seeing may well be excellent on those nights, but I am under solid clag!

There are certainly locations and sub-locations where seeing is, locally, very poor. I have seen the limb of the moon rippling wildly in low power binoculars from Lancashire, just as the observer there told me I would.... from a totally rural site!!! Plus, ask any professional telescope site tester and they will tell you that the seeing can vary within a few hundred yards. The late Horace Dall reckoned that being on the top of a hill (he was....I visited him there) was usually an excellent situation.

However, I think the most important factor is simply getting the hours in and spending countless man-hours processing each image. Most people whose telescopes I have looked through have NOT been collimated, despite them telling me that they were!!! Also, most people, if it's clear, nip outside, take a few AVIs and nip back in.....I have seen Damian at Selsey and it's an all night affair.....the hard disc is constantly spinning away virtually from sunset to sunrise, maximising the chance of catching good seeing. The next day, Damian & Dave are in Patrick's dome with their PC's..all day.....Registaxing, Registaxing, Registaxing, tweaking, tweaking, tweaking, tweaking ;-))) It's a 110% all-consuming effort. God knows what they will bring back from Barbados in April!

Damian used to be virtually alone in taking good pics from the UK, but now his influence has rubbed off on myself, Dave Tyler, Ian and Pete and we are all getting images we would not have dreamed of a few years ago.....But to be the best in the world, as in any hobby/sport, you literally have to be manically obsessed and with a highly competitive streak!!

Another factor here is that everyone seems to get good results from Celestron SCTs....me, Damian, Dave T, Jamie Cooper and Ian Sharp....it seems to be a common factor.

I have had occasions where Registax has misaligned Saturn's rings, especially when the image is dim....I have simply had to lower the quality setting and just repeatedly 'play around' until it works....sometimes this can take days, depending on your processor speed.....

Anyway, this gives me time to blatantly plug my new book ;-))))))

I would not have written any of it without Damian's influence and I have told Damian already that it is his 'biography'....well, he features a lot in it!!! Called 'Lunar & Planetary Webcam User's Guide' it will be published by Springer next month. Everything I've learnt (stolen!) from Damian is in the book ;-)))))) and quite a few people on this list have kindly provided images.....

Writing astronomy books is not a lucrative profession, but I hope it is of interest....

End of Blatant Plug..... ;-)))

Apologies for this Spam.....hope some of it is of interest..... Please don't all reply !! Regards,

**Martin MOBBERLY** (マーチン・モッパリー  
Cockfield Sfk 英)

<http://uk.geocities.com/martinmobberley/>

●.....Date: Thu, 16 Feb 2006 15:29:14 -0500  
Subject: A little sun on 16 Feb 2006

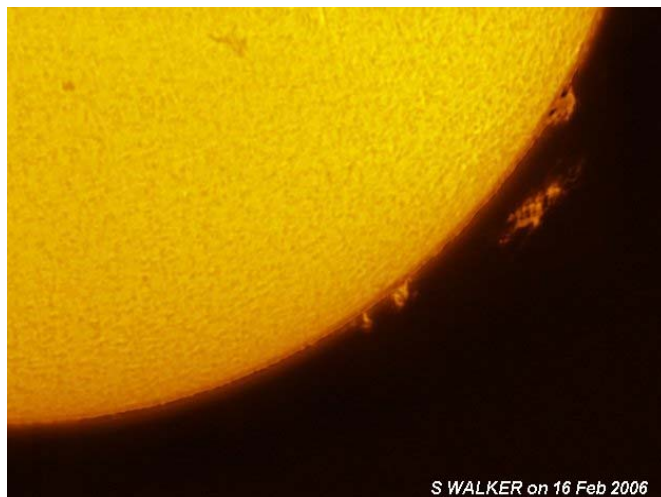
Managed to squeeze this shot out at lunch. ↗  
PST, Lumenera, 120 frames.

**Sean WALKER** (ショーン・ウォーカー S&T NY 美)

[http://homepage2.nifty.com/~cmons/2005/index\\_SWk.html](http://homepage2.nifty.com/~cmons/2005/index_SWk.html)

●.....Date: Mon, 20 Feb 2006 20:03:09 -0500  
Subject: Mars Observations (February 19, 2006)

I made a pair of observations of Mars on February 19, 2006 (00:45 and 01:05 U.T.) using two excellent instruments (6" F/15 Refractor and a 10" F/9 Newtonian) belonging to a friend (Michael Palermi, Jupiter, Florida). The apparent diameter of the planet was small (7.6"), but I was able to pick out detail when the seeing steadied for



brief moments at a time. The red planet stills continue to provide views for us earthlings. I welcome any comments on my observations.

Date (U.T.): February 19, 2006

Time (U.T.): 00:45 (left image) and 01:05 (right image)

CM: 297.5 (left image) and 282.3 (right image)

Ls: 013.9 (Early Northern Spring/Southern Autumn)

De: -11.3, Ds: 5.8, p 0.89, 7.6"

Instrument: 6" F/15 Refractor (left image) and 10" F/9 Newtonian (right image)

Filters: None

Seeing (1-10): 5-6, Antoniadi (I-V): III

Transparency (1-6): 6

The best of luck in your own imaging and observations of Mars. Regards,

**Carlos HERNANDEZ** (カルロス・ヘルナンデス Miami FL 美)  
[http://homepage2.nifty.com/~cmons/2005/index\\_CHr.html](http://homepage2.nifty.com/~cmons/2005/index_CHr.html)

☆☆☆

シー・エム・オー・フクイ

中島 孝 Nj

★今回はカンパがありませんでした。不一

☆ **Kasei-Tsushin CMO** (Home Page: [http://www.mars.dti.ne.jp/~cmo/oa\\_mars.html](http://www.mars.dti.ne.jp/~cmo/oa_mars.html))

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(2006年三月20日から坂井郡一坂井市)

