

MARS

No. 336

25 September 2007

OBSERVATIONS

Published by the OAA Mars Section

CMO 2007/2008 Mars Report #07

OAA Mars Section

THIS time we deal with the one-month period

from 16 August ($\lambda=296^\circ\text{Ls}$) to 15 September ($\lambda=314^\circ\text{Ls}$)

and the report mainly contains the 4th one concerning the *Noachis Dust Storm*. During the period the apparent diameter δ went up from $\delta=7.5''$ to $8.8''$, and the central latitude ϕ was from 7°S to 1°N (on 13 September, it faced to the equator): ϕ will be northward until the end of this year (from January 2008 to the end of February, it will again face to the south). The phase angle ι read maximal 44.3° at the end of August, and then went down, but still on 15 September $\iota=44^\circ$ if rounded off. The apparent declination D went up from $D=20^\circ08'\text{N}$ to $D=22^\circ48'\text{N}$.

In Japan, as September came in, the autumnal rainy front stays (goes up or down) on the lands. Typhoons also visited frequently.

♂.....今回はノアキス大黃雲の第四回目の報告で、期間は16August($\lambda=296^\circ\text{Ls}$)から15September($\lambda=314^\circ\text{Ls}$)迄を扱う。この間、視直径 δ は $\delta=7.5''$ から $8.8''$ に延びた。中央緯度 ϕ は 7°S から、13Septに赤道を通過し、15Septには 1°N となった。年末まで北を向く(來年正月から二月一杯はまた南向きになる)。位相角 ι は八月一杯最大値 44.3° で九月に入って下がり気味であるが、この期間は 44° であった。視赤緯 D は $20^\circ08'\text{N}$ から $22^\circ48'\text{N}$ へと昇っている。

日本では九月に入って秋雨前線が出ているほか、颱風も屢々通過した。

♂..... The observations we received with thanks are as follows. 今回の報告は次の様に頂戴した。

ADELAAR, Jan ヤン・アデラール (JAd) 尼德蘭 Arnhem, Nederland

4 Sets of CCD Images (27 August; 5, 8, 13 September 2007)
f/40, 42, 50 \times 23cm SCT with a DMK21AF

ALLEN, Ethan T イーサン・アッレン (EAI) 加利福尼亚 Sebastopol, CA, USA

3 Sets of RGB + 1 R + 3 IR CCD Images (21, 28 August; 1, 6 September 2007)
f/36 \times 30cm speculum with a SKYnyx 2-0M

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

14 Sets + 2 IR CCD Images (10, 17, 27 August; 2, 4, 6, 8, 11, ~13, 15 September 2007)
36cm SCT with a SKYnyx 2-0

BATES, Donald R ドン・ベーツ (DBt) 德克萨斯·休斯敦 Houston, TX, USA

1 Colour CCD Image (9 September 2007) f/30 \times 25cm spec with a ToUcam Pro

BEISH, Jeffrey D ジェフ・ビーシュ (JBs) 佛羅里達 Lake Placid, FL, USA

1 Drawing (7 September 2007) 110~495 \times 41cm F/6.9 speculum

BIVER, Nicolas ニコラ・ビヴェール (NBv) 凡爾賽 Versailles, Yvelines, France

9 Colour Drawings (30* July; 1, 6, 11, 13, 26, 28, 30 August 2007) 460, 700 \times 41cm/510 \times 26cm* specs

- BOLZONI, Simone** スイモーネ・ボルツォーニ (*SBl*) 義大利, Italia
1 CCD Image (1 September 2007) 20cm SCT with ToUcam Pro II
- BOSMAN, Richard** リシャルト・ボズマン (*RBs*) 尼德蘭 Enschede, Nederland
1 Set of RGB Images (13 September 2007) $f/50\otimes 28$ cm SCT with an ATK-2HS
- DELCROIX, Marc** マルク・デルクロア (*MDc*) 法國 Tournefeuille, France
1 Set of RGB + 1 IR CCD Images (11 September 2007) $f/47\otimes 25$ cm SCT with SKYnyx 2-0M
- DICKINSON, William H** ビル・ディキンソン (*WDc*) 維吉尼亞 Glen Allen, VA, USA
1 Set of RGB Images (3 September 2007) 20cm SCT with a DMK21AF04 AS
- GERSTHEIMER, Ralf** ラルフ・ゲルシュトハイマー (*RGh*) 德國 Habichitswald, Deutschland
7 Colour + 1 R + 3 IR CCD Images (17, 18, 20, 25, 30 August; 14 September 2007)
 $f/34\otimes 32$ cm speculum with a DMK21AF04/ ToUcam Pro 740
- GHOMIZADEH, Sadegh** サデグ・ゴミザデ (*SGh*) 伊朗・德黑蘭 Tehran, Iran
11 Colour CCD Images (30 August; 2,~ 4, 6,~10, 15 September 2007)
 $f/37\otimes 28$ cm SCT with a ToUcam Pro III
- GORCZYNSKY, Peter** ピート・ゴルチンスキー (*PGc*) 康涅狄格 Oxford, CT, USA
17 Colour + 10 IR CCD Images (18, 27, 28, 30 August; 1,~ 8 September 2007)
 $f/42\otimes 18$ cm Maksutov-Cassgrain with a ToUcam
- GRAFTON, Edward A** エド・グラフトン (*EGf*) 德克薩斯・休斯敦 Houston, TX, USA
3 Sets of RGB + 8 Colour CCD Images
(19, 20, 24, 25, 28, 29 August; 4, 6, 8, 9, 15 September 2007) $f/39\otimes 36$ cm SCT with an ST402
- HANCOCK, Ian R** イアン・ハンコック (*IHn*) 英國・坎特伯雷 Canterbury, UK
1 RGB + 1 R CCD Images (30 August 2007) $f/30\otimes 25$ cm SCT with a Lu075M
- HEFFNER, Robert** ロバート・ヘフナー (*RHf*) 名古屋 Nagoya, Aichi, Japan
4 Colour CCD Images (19, 20 August; 4 September 2007) 28cm SCT with a Lu075C/DMK21AF04
- KUMAMORI, Teruaki** 熊森 照明 (*Km*) 堺 Sakai, Osaka, Japan
8 Colour CCD Images (19, 24 August; 4, 8, 12 September 2007)
 $f/85\otimes 20$ cm Dall-Kirkham with a DMK21AF04/Toucam pro
- LOMELI, Ed** エド・ロメリ (*ELm*) 加利福尼亞 Sacramento, CA, USA
3 Sets of RGB + 4 Colour + 4 IR CCD Images (17, 20*, 21, 28* August; 8* September 2007)
23cm SCT (\otimes Tele Vue 5 \times Powermate, 3 \times Barlow*) with DBK21AF04 & DMK21BF04
- MAKSYMOWICZ, Stanislas** スタニスラス・マクシモヴィッチ (*SMk*) 法國 Ecquevilly, France
4 Sets + 3 Drawings (16,~18, 25*, 28*, 30 August; 14** September 2007)
270, 333, 396 \times 20cm Cass, 250, 270 \times 10cm refractor*, 270 \times 15cm refractor**
- MELKA, James T** ジム・メルカ (*JMI*) 密蘇里・聖路易斯 St. Louis, MO, USA
1 Set of RGB + 10 Colour CCD Images (23, 27, 28, 31 August; 1, 5, 13 September 2007)
30cm speculum with a ToUcam 840
- MINAMI, Masatsugu** 南 政次 (*Mn*) 福井 Fukui, Fukui, Japan
24 Drawings (18, 19, 25 August ; 12 September 2007) 400, 600 \times 20cm ED refractor*
*Fukui City Observatory 福井市自然史博物館天文臺
- MOORE, David M** デヴィッド・ムーア (*DMr*) 亞利桑那 Phoenix, AZ, USA
2 Sets of RGB + 2 R + 1 IR CCD Images (18, 28 August 2007) $f/21\otimes 36$ cm Cass with DMK21AF04
- MORITA, Yukio** 森田 行雄 (*Mo*) 廿日市 Hatsuka-ichi, Hiroshima, Japan
22 Sets of RGB + 22 IR CCD Images (14,~18, 25 August; 5, 8 September 2007)
25cm spec with a Lu075M
- MURAKAMI, Masami** 村上 昌己 (*Mk*) 藤澤 Fujisawa, Kanagawa, Japan
2 Drawings (15 September 2007) 320 \times 20cm F/8 speculum

NAKAJIMA, Takashi 中島 孝 (Nj) 福井 Fukui, Fukui, Japan

38 Drawings (18, 19, 24, ~26 August; 4, 12, 14, 15 September 2007) 400, 600×20cm 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

7 Sets of RGB + 3 IR CCD Images (28, 31 August; 3, 8, 15 September 2007)
f/47⊗41cm F/6 spec with a SKYnyx 2-0M

PEACH, Damian A デミアン・ピーチ (DPc) 英國 Loudwater, Buckinghamshire, UK

30 Sets of RGB CCD Images (17, 25, ~27, 30 August; 4, 6, 8, 9, 11, ~15 September 2007)
f/40⊗36cm SCT with a SKYnyx 2-0M

PELLIER, Christophe クリストフ・ペリエ (CPI) 法國 Seine-St-Denis, France

4 Sets of RGB +4 IR CCD Images (5, 12 September 2007) f/52⊗25cm Cass with a SKYnyx 2-0M

PHILLIPS, Jim ジム・フィリップス (JPh) 南卡羅萊納 Charleston, SC, USA

2 Colour CCD Images (29 August; 8 September 2007) f/54⊗20cm refractor with a SKYnyx

ROSOLINA, Michael マイケル・ロゾリーナ (MRs) 西維吉尼亞 Friars, WV, USA

1 Colour Drawing (9 September 2007) 400×, 500×20cm F10 SCT

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

1 Colour CCD Image (15 September 2007) f/56⊗28cm SCT with a SKYnyx 2-0M

TAYLOR, Martin M マーチン・テイラー (MTy) 英國 Leicester, UK

1 Set of CCD Images (25 August 2007) f/30⊗36cm SCT with an ATIK-1HS

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

10 Sets of RGB + 2 Colour Images (25*, 30 August; 8*, 12, ~14 September 2007)
f/40, 48⊗36cm SCT with a Lu075M*/ SKYnyx 2-0

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

3 Sets of IRsGB + 9 IR+ 2 B Images (1, 18, 24, 29, 30 August; 5* September 2007)
f/24*⊗25cm spec with an ATIK-1HS

WALKER, Sean ショーン・ウォーカー (SWk) 新罕布夏 Chester, NH, USA

1 Set of RGB + 5 Colour CCD Images (18, 21, 28 August; 3, 5, 13 September 2007)
f/51⊗32cm speculum with a DMK21AF04

WARREN, Joel ジョエル・ウォーレン (JWn) 德克薩斯 Amarillo, TX, USA

2 Sets of RGB CCD Images (4, 5 September 2007) 20cm SCT (⊗ 3× Barlow) with ToUcam Pro

YUNOKI, Kenkichi 柚木 健吉 (Yn) 堺 Sakai, Osaka, Japan

15 Sets of RGB + 6 IR Images (16, 17, 20, 22, 24 August 2007)
26cm speculum (⊗ 2.8× Barlow) with a DMK21AF04

Noachis Dust Storm IV – I) Director's Comments: As stated previously, the northern deserts showed a tint of iron oxide in-mid August ($\lambda=296^\circ\text{Ls}$; note the dust storm started at $\lambda=264^\circ\text{Ls}$) and it suggested that the suspended airborne dust had become thinner. Similarly on 18 Aug ($\lambda=298^\circ\text{Ls}$), at Fukui we (NAKAJIMA:Nj, & MINAMI:Mn) observed that the northern deserts also looked reddish at $\omega=255^\circ\text{W}$ (Mn), 270°W (Nj), 275°W (Mn), 280°W (Nj). Incidentally, on the night we observed Hellas from the morning to the centre, but we judged it was not so bright, and its dull brightening was due to the backlighting of the airborne dust over the ground lit Hellas basin. This must cause a curious lightning of Hellas on ccd images. As to the ccd images of Hellas at that time, see the images by YUNOKI (Yn) and MORITA (Mo) on 17 Aug ($\lambda=297^\circ\text{Ls}$) at $\omega=245^\circ\text{W}\sim 274^\circ\text{W}$ and at $\omega=282^\circ\text{W}$, 287°W respectively, as well as those on 18 Aug ($\lambda=298^\circ\text{Ls}$) at $\omega=243^\circ\text{W}\sim 277^\circ\text{W}$ (by Mo), on 19 Aug ($\lambda=299^\circ\text{Ls}$) at $\omega=243^\circ\text{W}$ (by HEFFNER (RHf)), and at $\omega=252^\circ\text{W}$, 262°W (by KUMAMORI (Km)), and on 20 Aug ($\lambda=299^\circ\text{Ls}$) at $\omega=256^\circ\text{W}$ (by RHf). The rather thick global airborne dust was surely existent, and on 25 Aug ($\lambda=302^\circ\text{Ls}$) the observations at Fukui around at

$\omega=158^\circ\text{W}$ (*Mn*) proved that the slightly whitish lemon-yellow colour governs the whole globe except for the pure whitish nph. However at $\omega=168^\circ\text{W}$ (*Mn*), 173°W (*Nj*), 178°W (*Mn*), 183°W (*Nj*), 188°W (*Mn*) we also observed that a reddish tint could be seen through the dusty air. Especially at $\omega=197^\circ\text{W}$ (*Mn*), the evening side the nuance of iron oxide colour varied from the place to place. Otherwise at $\omega=168^\circ\text{W}$, *Mn* suspected that the airborne dust was mingled with the water vapour, and at $\omega=178^\circ\text{W}$ he described the dust was a whitish yellow suspended dust.

On 20 Aug ($\lambda=299^\circ\text{Ls}$, $\delta=7.7''$), GERSTHEIMER (*RGh*) in Germany issued an important IR ccd image at $\omega=017^\circ\text{W}$: Here Meridiani S and Margaritifer S which were hitherto quite hidden under the thick dust reappeared first in classical figures though still quite vague. The angular diameter augmented but at the same time it must have implied that the longer wavelength light began to penetrate deeper around the time because the suspended dust had become thinner.

This is a personal affair, but the present writer (*Mn*)'s observations stopped after 25 August, and he was absent from the Observatory for a long period of 18 days because he suddenly felt an acute pain inside the right leg on 26 August, and could hardly walk. It was because of a spinal disc herniation, and finally *Mn* was confined in hospital and it was not until on 12 September that he could leave the hospital. Though still painful, on the night of 12 Sept ($\lambda=313^\circ\text{Ls}$) he went up to the Fukui City Observatory and observed seven times from $\omega=328^\circ\text{W}$, to 017°W and 027°W , expecting that since it was a long blank of 18 nights he might have been endowed with a clearer and much recovered Martian markings. However the real situation was quite different. The Martian surface remained very dirty from the outset to the end. The disc looked to have lost its brightness when the dust was younger. The markings were not vivid (*Nj* joined later and complained similarly), and the configurations of the markings were not so different from those seen a month before and were such that the area of M Serpentis was said darker while the area of Meridiani S and Margaritifer S looked quite faint and the area from the southern M Erythraeum down to Aurorae S was still darker. Fortunately *Km* took the pictures the night at $\omega=017^\circ\text{W}$, 024°W (on 12 Sept ($\lambda=313^\circ\text{Ls}$, $\delta=8.7''$)) and so refer to *Km*'s images on the CMO Gallery. The image at $\omega=017^\circ\text{W}$ corresponds to *RGh*'s one on 20 Aug ($\lambda=299^\circ\text{Ls}$, $\delta=7.7''$). We should say on the night the desert around \AE ria was reddish. We were puzzled for a while but we were soon led to the conclusions: A uniform global airborne dust was still persistent which well blurred the markings, but the dirtiness of the surface was not due to the suspended dust, but it was because already the subsided dust much accumulated on several marking to weaken the intensities. When S Meridiani and S Margaritifer had been very obscure it must have been because of a thick covering of the lifted dusts around there, but the fallout must have begun quite early though the subsidence of the lifted dust became noticeable around the time of *RGh* on 20 Aug ($\lambda=299^\circ\text{Ls}$). Henceforward due to a local wind system the dust deposit laid on the markings will be washed away and the markings will be well recovered, but at present the accumulated sands were still existent.

The *RGh* angle of S Meridiani and S Margaritifer were shot later by WALKER (*SWk*) on 28 Aug ($\lambda=304^\circ\text{Ls}$) at $\omega=002^\circ\text{W}$, by PARKER (*DPk*) on 28 Aug ($\lambda=304^\circ\text{Ls}$) at $\omega=022^\circ\text{W}$ and on 31 Aug ($\lambda=305^\circ\text{Ls}$) at $\omega=356^\circ\text{W}$, by PHILLIPS (*JPh*) on 29 Aug ($\lambda=304^\circ\text{Ls}$) at $\omega=007^\circ\text{W}$, by MELKA (*JMI*) on 31 Aug ($\lambda=305^\circ\text{Ls}$) at $\omega=014^\circ\text{W}$ and on 1 Sept ($\lambda=306^\circ\text{Ls}$) at $\omega=004^\circ\text{W}$, by ALLEN (*EAl*) on 6 Sept ($\lambda=309^\circ\text{Ls}$) at $\omega=350^\circ\text{W}$ and so on. The stability of the aspect is therefore not due to the drifting dust. The fact that Meridiani S has not been well recovered (due to an accumulation or sediment of dust) compared with the area of the eastern S Sabaeus is shown by the following images: On 25 Aug ($\lambda=302^\circ\text{Ls}$), TYLER (*DTy*)'s at $\omega=313^\circ\text{W}\sim 325^\circ\text{W}$, *RGh*'s at $\omega=321^\circ\text{W}\sim 357^\circ\text{W}$, PEACH (*DPc*)'s at $\omega=324^\circ\text{W}\sim 343^\circ\text{W}$, TAYLOR (*MTy*)'s at $\omega=333^\circ\text{W}$, on 26 Aug ($\lambda=302^\circ\text{Ls}$), BIVER (*Nbv*)'s drawing at $\omega=334^\circ\text{W}$, *DPc*'s at $\omega=324^\circ\text{W}$, on 3 Sept ($\lambda=307^\circ\text{Ls}$) GORCZYNSKI

(PGc)'s at $\omega=315^{\circ}\text{W}\sim 334^{\circ}\text{W}$, DICKINSON (WDc)'s at $\omega=319^{\circ}\text{W}$, DPK's at $\omega=331^{\circ}\text{W}$, on 4 Sept ($\lambda=308^{\circ}\text{Ls}$) GRAFTON (EGf)'s at $\omega=337^{\circ}\text{W}$, and also on 6 Sept ($\lambda=309^{\circ}\text{Ls}$) at $\omega=318^{\circ}\text{W}$ etc. It is stupid to use the enhanced IR to intensify Meridiani S to lessen the difference. (Part I was written by Mn.)

II) General Reviews: **a) Area around Solis L:** The area of Solis L looked stable this period since no explicit dust disturbance was recorded. The area has been however quite deformed because of a certain dust sediment and washing out. Since δ has been smaller, the details will be unearthed henceforward. Local wind system will bring further deformation or recovering. The observation of the Solis L area was made this period by the following work: On 17 Aug ($\lambda=297^{\circ}\text{Ls}$), DPc's at $\omega=050^{\circ}\text{W}\sim 058^{\circ}\text{W}$, and ARDITTI (DAr)'s at $\omega=055^{\circ}\text{W}$, on 18 Aug ($\lambda=298^{\circ}\text{Ls}$), RGh's at $\omega=062^{\circ}\text{W}$, on 21 Aug ($\lambda=299^{\circ}\text{Ls}$) SWk's at $\omega=073^{\circ}\text{W}$, on 24 Aug ($\lambda=301^{\circ}\text{Ls}$) EGf's at $\omega=085^{\circ}\text{W}$, on 25 Aug ($\lambda=302^{\circ}\text{Ls}$) EGf's at $\omega=073^{\circ}\text{W}$, on 28 Aug ($\lambda=304^{\circ}\text{Ls}$) EGf's at $\omega=039^{\circ}\text{W}$, JMI's at $\omega=045^{\circ}\text{W}$, MOORE (DMr)'s at $\omega=043^{\circ}\text{W}\sim 052^{\circ}\text{W}$, LOMELI (ELm)'s at $\omega=067^{\circ}\text{W}\sim 071^{\circ}\text{W}$, and EAl's at $\omega=074^{\circ}\text{W}$. In Japan, on 4 Sept ($\lambda=308^{\circ}\text{Ls}$), RHf's at $\omega=082^{\circ}\text{W}$, 092°W , and Km's at $\omega=098^{\circ}\text{W}$, 105°W , on 5 Sept ($\lambda=309^{\circ}\text{Ls}$) Mo's at $\omega=070^{\circ}\text{W}$, 075°W , 085°W , on 8 Sept ($\lambda=310^{\circ}\text{Ls}$) Km's at $\omega=060^{\circ}\text{W}$, and Mo's at $\omega=072^{\circ}\text{W}$. Visually Nj observed on 4 Sept ($\lambda=308^{\circ}\text{Ls}$) at $\omega=067^{\circ}\text{W}\sim 116^{\circ}\text{W}$. At $\omega=087^{\circ}\text{W}$ he witnessed the deformed streak on Solis L near the CM. We incidentally pick out the following three modest images which show the preceding area of Aurorae S: DPk's on 28 Aug ($\lambda=304^{\circ}\text{Ls}$) at $\omega=034^{\circ}\text{W}$, EGf's on 29 Aug ($\lambda=304^{\circ}\text{Ls}$) at $\omega=031^{\circ}\text{W}$, and EAl's on 1 Sept ($\lambda=306^{\circ}\text{Ls}$) at $\omega=043^{\circ}\text{W}$ (Ophir light by reflection). Discussion why the area of Aurorae S survived the strong storm will be needed. **b) Olympus Mons:** As typical images we only choose the following: EGf's on 20 Aug ($\lambda=299^{\circ}\text{Ls}$) at $\omega=116^{\circ}\text{W}$, EAl's on 21 Aug ($\lambda=300^{\circ}\text{Ls}$) at $\omega=133^{\circ}\text{W}$, and finally DPc's on 15 Sept ($\lambda=314^{\circ}\text{Ls}$) at $\omega=123^{\circ}\text{W}\sim 147^{\circ}\text{W}$. EAl's images on 28 Aug ($\lambda=304^{\circ}\text{Ls}$) at $\omega=074^{\circ}\text{W}$ show the dark spot of Olympus Mons quite near the morning limb. **c) M Sirenum:** The bent M Sirenum was first clearly shot by DPc on 13 Sept ($\lambda=313^{\circ}\text{Ls}$, $\delta=8.7''$) at $\omega=151^{\circ}\text{W}$, 154°W , and on 15 Sept ($\lambda=314^{\circ}\text{Ls}$) at $\omega=123^{\circ}\text{W}\sim 147^{\circ}\text{W}$. It looks like the one seen in 1986/1988 but further slimmed because the SE coast looked sanded. The Newton crater will soon clarify the configuration. The images on 15 Sept also show the aspect of Daedalia preceding M Sirenum. Similar effective images of M Sirenum were also obtained as follows: On 11 Sept ($\lambda=312^{\circ}\text{Ls}$) DPc's at $\omega=168^{\circ}\text{W}$, on 12 Sept ($\lambda=312^{\circ}\text{Ls}$) DPc's at $\omega=150^{\circ}\text{W}$, 155°W , 161°W , PELLIER (CPl)'s at $\omega=156^{\circ}\text{W}$ (IR), DTy's at $\omega=164^{\circ}\text{W}$, on 13 Sept ($\lambda=313^{\circ}\text{Ls}$) DTy's at $\omega=143^{\circ}\text{W}$, on 14 Sept ($\lambda=314^{\circ}\text{Ls}$) RGh's at $\omega=169^{\circ}\text{W}$. **d) M Cimmerium:** The details of M Cimmerium were also produced in UK: the following show a classical M Cimmerium with some spikes downwards while M Cimmerium itself looks fainter because of dust sediment: On 6 Sept ($\lambda=309^{\circ}\text{Ls}$) DPc's at $\omega=210^{\circ}\text{W}$, 217°W , on 8 Sept ($\lambda=310^{\circ}\text{Ls}$) DTy's at $\omega=182^{\circ}\text{W}$, 190°W , 194°W , DAr's at $\omega=189^{\circ}\text{W}\sim 203^{\circ}\text{W}$, and DPc's at $\omega=191^{\circ}\text{W}\sim 202^{\circ}\text{W}$ etc. GHOMIZADEH (SGh) in Iran took M Cimmerium several days before Europe on 2 Sept ($\lambda=306^{\circ}\text{Ls}$) at a good angle (at $\omega=198^{\circ}\text{W}$), but it is useless to enhance the images. In the US, DPk and EGf gave images on 15 Sept ($\lambda=314^{\circ}\text{Ls}$) at $\omega=206^{\circ}\text{W}/214^{\circ}\text{W}$ and $\omega=227^{\circ}\text{W}\sim 231^{\circ}\text{W}$ respectively. **e) Syrtis Mj:** A lot of images which show Syrtis Mj and Hellas were contributed. We do not here make a list of observations, but we should say some were made too much enhanced. Even the grand marking it must have been fainter by the accumulation of dust, and if enhanced it appears very slimmer. The appearance of the Huygens crater is also due to sediment of dust. The area of M Serpentis looks quite the same as before, though no detailed images were found. **f) The North Polar Hood (nph):** Since ϕ began to face toward north, the nph became more and more apparent. It is necessary to obtain good B images. DPc's images on 13 Sept ($\lambda=313^{\circ}\text{Ls}$) at $\omega=151^{\circ}\text{W}$, 154°W , and those on 15 Sept ($\lambda=314^{\circ}\text{Ls}$) at $\omega=123^{\circ}\text{W}\sim 147^{\circ}\text{W}$ show well a shade and light inside the nph. Because of the present Noachis dust event, we are not certain but the coming season $\lambda=320^{\circ}\text{Ls}$ may show a Dawes slit at the area of M Acidalium. If usual, the present season

from $\lambda=310^\circ\text{Ls}$ implies the dust generating period around the north polar region (npr). Already we have had a big catastrophe, and hence the coming energy balance is uncertain, but still we should be careful with the behaviour of the npr.

♂……)福井からのコメント：前號で述べたように、八月中旬($\lambda=296^\circ\text{Ls}$ 、黄雲發生は $\lambda=264^\circ\text{Ls}$)に於いて既に北の砂漠が酸化鐵の赤味を帯びていることから、全體黄雲が沈静化し薄くなっていることを暗示したが、福井(中島Nj、南Mn)では18Aug($\lambda=298^\circ\text{Ls}$)にも $\omega=255^\circ\text{W}$ (Mn)、 270°W (Nj)、 275°W (Mn)、 280°W (Nj)で同じ様な砂漠の赤味を觀測した。序でに述べるとこの日はヘッラスが朝方から南中に掛けて觀測が出来たが、然程明るいというのではなく、この光り方は、ヘッラスを覆う浮遊黄雲がヘッラス盆地内の反射を逆光で受けて光っているというものであらうと判断した。ccdに現れるヘッラスの奇妙な明るさはこれによるものだと思う。同じ時期のccdに依るヘッラスに就いては、17Aug($\lambda=297^\circ\text{Ls}$)の $\omega=245^\circ\text{W}\sim 274^\circ\text{W}$ (柚木(Yn)氏)、 $\omega=282^\circ\text{W}$ 、 287°W (森田(Mo)氏)、18Aug($\lambda=298^\circ\text{Ls}$)の $\omega=243^\circ\text{W}\sim 277^\circ\text{W}$ (Mo氏)、19Aug($\lambda=299^\circ\text{Ls}$)の $\omega=243^\circ\text{W}$ (ヘフナー(RHf)氏)、 $\omega=252^\circ\text{W}$ 、 262°W (熊森(Km)氏)、20Aug($\lambda=299^\circ\text{Ls}$)の $\omega=256^\circ\text{W}$ (RHf氏)等を参照されたい。全面を覆う浮遊黄雲は未だ確かに存在し、25Aug($\lambda=302^\circ\text{Ls}$)福井の $\omega=158^\circ\text{W}$ (Mn)前後の、觀測ではディスクは北極雲などの純白色を除いて、白味を帯びたレモンイエロー色が支配的である。然し、 $\omega=168^\circ\text{W}$ (Mn)、 173°W (Nj)、 178°W (Mn)、 183°W (Nj)、 188°W (Mn)等では浮遊黄雲を透かせて砂漠の赤味が見えていることを記述している。特に $\omega=197^\circ\text{W}$ (Mn)では夕方は酸化鐵の色合いだが、場所に依って赤味が異なっている。尚、實は $\omega=168^\circ\text{W}$ (Mn)では浮遊黄雲が水蒸氣を含んでいるのではないかと疑っている程で、 $\omega=178^\circ\text{W}$ ではwhitish yellow suspended dustと記述している。尚、20Aug($\lambda=299^\circ\text{Ls}$ 、 $\delta=7.7''$)にゲルシュトハイマー(RGh)氏の重要なccd觀測が出て、 $\omega=017^\circ\text{W}$ で、それまでIRccdでも不鮮明であったシヌス・メリディアニとマルガリティフェル・シヌスの古典的な様子が臃氣ながらも描寫されたということで注目された。これは視直径の増加にも據るであらうが、IRが浮遊黄雲を透かせて可成り深く入れるようになったということであらう。扱て、ここで私事に互るが、25Augの觀測はCMO#335の編集を終えてPDF版で公表した直後のことであつたが(編集中はあまり觀測が出来ない)、幸か不幸か(不幸に決まっているのだが、もう一日早く起こってれば更に悲劇であつた)、26日になって筆者(Mn)の右下肢に激痛が奔り、以後觀測や文筆活動どころか通常生活も儘ならぬ事になったのである。痛みは續き、結局病院で「椎間板ヘルニア」に據る激痛と分かり、最終的には入院して(ブロック注射を二度ほど受けて)九月12日に退院したのだが、未だ痛みはあるものの、その足で12Sept($\lambda=313^\circ\text{Ls}$)には足羽山に登り $\omega=328^\circ\text{W}$ 、 $\sim 017^\circ\text{W}$ 、 027°W まで七回觀測した(Nj氏も途中から参加した)。20AugのRGh氏の角度を含む。筆者にとっては不如意ながら十八日間も火星から遠離れた譯であるから、この間に火星面は多分に綺麗になっているであらうと豫斷した。然し、それは全く違っていた。先ず吃驚するぐらい汚い火星面であつた。更に黄雲の若いときの輝きが無い。模様は寧ろ見え辛く、模様の配置が、七月下旬から八月上旬の頃と餘り變わりがない。マレ・セルペンティスの邊りは同じように濃く、シヌス・メリディアニからマルガリティフェル・シヌスに掛けては弱く、マレ・エリュトウラエウムの南部からアウロラエ・シヌスに掛けては再び濃くなっているというお馴染みの様相である。この日にはKm氏に12Sept($\lambda=313^\circ\text{Ls}$ 、 $\delta=8.7''$) $\omega=017^\circ\text{W}$ 、 024°W の像があるからGalleryで参照されたい。 $\omega=017^\circ\text{W}$ は20Aug($\lambda=299^\circ\text{Ls}$ 、 $\delta=7.7''$)のRGh氏の角度である。尚、この日も矢張りアエリアの邊りは赤味を帯びていた。この日の觀測からホボ次の様に言えるのではないかと思う：均一に近い浮遊黄雲は依然健在であるのは確かであること、然し火星面の汚さは黄雲によるというより、砂塵が表面に沈澱して暗色模様を汚していること、特にシヌス・メリディアニとマルガリティフェル・シヌス邊りでは強いこと、シヌス・メリディアニなどが見えなかった頃は黄雲が強く漂っていたであらうが、20Aug($\lambda=299^\circ\text{Ls}$)からは黄雲による淡化というより、それ以前からダストの強い降下によって正常と違った様相を呈し始めていたということ、今後は地域的な風系によって沈下した砂塵が洗われることによって模様が快復するであらうが

未だそこに到っていないこと、など等である。シヌス・メリディアニとマルガリティフェル・シヌスを含むRGh的地域は、ウォーカー(SWk)氏に依って28Aug($\lambda=304^\circ\text{Ls}$) $\omega=002^\circ\text{W}$ 、パーカー(DPk)氏に依って28Aug($\lambda=304^\circ\text{Ls}$) $\omega=022^\circ\text{W}$ と31Aug($\lambda=305^\circ\text{Ls}$) $\omega=356^\circ\text{W}$ 、フィリップス(JPh)氏によって29Aug($\lambda=304^\circ\text{Ls}$) $\omega=007^\circ\text{W}$ 、メルカ(JMI)氏によって31Aug($\lambda=305^\circ\text{Ls}$) $\omega=014^\circ\text{W}$ と1Sept($\lambda=306^\circ\text{Ls}$) $\omega=004^\circ\text{W}$ 、アッレン(EAl)氏によって6Sept($\lambda=309^\circ\text{Ls}$) $\omega=350^\circ\text{W}$ で撮られているが、この「不変性」は蠢く黄塵によるものではない事は明らかである。一方、シヌス・メリディアニがシヌス・サバエウスより沈澱の影響を強く受けていて未だ快復しないことは、次の画像などにより明らかである：25Aug($\lambda=302^\circ\text{Ls}$)のタイラー(DTy)氏の $\omega=313^\circ\text{W}\sim 325^\circ\text{W}$ 、RGh氏の $\omega=321^\circ\text{W}\sim 357^\circ\text{W}$ 、ピーチ(DPc)氏の $\omega=324^\circ\text{W}\sim 343^\circ\text{W}$ 、テーラー(MTy)氏の $\omega=333^\circ\text{W}$ 、26Aug($\lambda=302^\circ\text{Ls}$)のビヴェール(NBv)氏の $\omega=334^\circ\text{W}$ (スケッチ)、DPc氏の $\omega=324^\circ\text{W}$ 、3Sept($\lambda=307^\circ\text{Ls}$)のゴルチンスキ(PGc)氏の $\omega=315^\circ\text{W}\sim 334^\circ\text{W}$ 、ディッキンソン(WDc)氏の $\omega=319^\circ\text{W}$ 、DPk氏の $\omega=331^\circ\text{W}$ 、4Sept($\lambda=308^\circ\text{Ls}$)のグラフトン(EGf)氏の $\omega=337^\circ\text{W}$ 、6Sept($\lambda=309^\circ\text{Ls}$) $\omega=318^\circ\text{W}$ 等。IRに依って、違いを薄めてシヌス・メリディアニを濃く出そうとするのは愚かである(この項I部は南記)。

♂……II)その他の概観： a) **ソリス・ラクス周辺**：ソリス・ラクス周辺も安定して来ていて、黄塵の擾亂は殆ど起こっていないと思われる。ソリス・ラクスは矢張り黄塵の沈澱によって今までにない變形を示している。未だ δ が小さく、詳細はこれからだが、風系によって未だ變化する可能性がある。今回の観測としては次が挙げられる：17Aug($\lambda=297^\circ\text{Ls}$)にはDPc氏の $\omega=050^\circ\text{W}\sim 058^\circ\text{W}$ 、アルヂッチ(DAr)氏の $\omega=055^\circ\text{W}$ 、18Aug($\lambda=298^\circ\text{Ls}$)にはRGh氏の $\omega=062^\circ\text{W}$ 、21Aug($\lambda=299^\circ\text{Ls}$)にはSWk氏の $\omega=073^\circ\text{W}$ 、24Aug($\lambda=301^\circ\text{Ls}$)にはEGf氏の $\omega=085^\circ\text{W}$ 、25Aug($\lambda=302^\circ\text{Ls}$)にもEGf氏の $\omega=073^\circ\text{W}$ 、28Aug($\lambda=304^\circ\text{Ls}$)にはEGf氏の $\omega=039^\circ\text{W}$ 、JMI氏の $\omega=045^\circ\text{W}$ 、ムーア(DMr)氏の $\omega=043^\circ\text{W}\sim 052^\circ\text{W}$ 、ロメリ(ELm)氏の $\omega=067^\circ\text{W}\sim 071^\circ\text{W}$ 、EAl氏の $\omega=074^\circ\text{W}$ 。日本に来て4Sept($\lambda=308^\circ\text{Ls}$)にはRHf氏が $\omega=082^\circ\text{W}$ 、 092°W で、Km氏が $\omega=098^\circ\text{W}$ 、 105°W で、5Sept($\lambda=309^\circ\text{Ls}$)にはMo氏が $\omega=070^\circ\text{W}$ 、 075°W 、 085°W 、8Sept($\lambda=310^\circ\text{Ls}$)にはKm氏が $\omega=060^\circ\text{W}$ 、Mo氏が $\omega=072^\circ\text{W}$ で撮っている。眼視では、Nj氏が4Sept($\lambda=308^\circ\text{Ls}$)に $\omega=067^\circ\text{W}$ から 116°W まで六回追跡した。 $\omega=087^\circ\text{W}$ 等では變形した濃いスジ等を正面で見ている。尚、アウロラエ・シヌス中心のモDESTな画像として次の三點を挙げておく：DPk氏の28Aug($\lambda=304^\circ\text{Ls}$) $\omega=034^\circ\text{W}$ 、EGf氏の29Aug($\lambda=304^\circ\text{Ls}$) $\omega=031^\circ\text{W}$ 、EAl氏の1Sept($\lambda=306^\circ\text{Ls}$) $\omega=043^\circ\text{W}$ (オピールは反射である)。何れ何故アウロラエ・シヌス周辺が濃く残ったか議論が必要であろう。 b) **オリュムプス・モンズ**：典型的な画像として、EGf氏の20Aug($\lambda=299^\circ\text{Ls}$) $\omega=116^\circ\text{W}$ とEAl氏の21Aug($\lambda=300^\circ\text{Ls}$) $\omega=133^\circ\text{W}$ 、DPc氏の15Sept($\lambda=314^\circ\text{Ls}$) $\omega=123^\circ\text{W}\sim 147^\circ\text{W}$ のみを挙げる。EAl氏の28Aug($\lambda=304^\circ\text{Ls}$) $\omega=074^\circ\text{W}$ には極朝縁にオリュムプス・モンズが暗点として見える丁寧な像である。 c) **マレ・シレヌム**：屈曲したマレ・シレヌムの形が初めてDPc氏によって13Sept($\lambda=313^\circ\text{Ls}$ 、 $\delta=8.7''$) $\omega=151^\circ\text{W}$ 、 154°W 、及び15Sept($\lambda=314^\circ\text{Ls}$) $\omega=123^\circ\text{W}\sim 147^\circ\text{W}$ の像で明らかにされた。マレ・シレヌムは1986/1988年型のやせ細った形であるが、更に東南部が削られたように見える。ニュートン・クレータが出てくる様になれば位置関係がもっとハッキリするであろう。マレ・シレヌム東方ダエダリア方面も後者によって好く示されている。これらの像に迫るマレ・シレヌム像としては、11Sept($\lambda=312^\circ\text{Ls}$)のDPc氏の $\omega=168^\circ\text{W}$ 、12Sept($\lambda=312^\circ\text{Ls}$)のDPc氏の $\omega=150^\circ\text{W}$ 、 155°W 、 161°W 、ペリエ(CPl)氏の $\omega=156^\circ\text{W}$ (IR)、DTy氏の $\omega=164^\circ\text{W}$ 、13Sept($\lambda=313^\circ\text{Ls}$)のDTy氏の $\omega=143^\circ\text{W}$ 、14Sept($\lambda=314^\circ\text{Ls}$)のRGh氏の $\omega=169^\circ\text{W}$ であろうか。 d) **マレ・キムメリウム**：マレ・キムメリウムの詳細も今回は英國の獨壇場で、6Sept($\lambda=309^\circ\text{Ls}$)のDPc氏の $\omega=210^\circ\text{W}$ 、 217°W 、8Sept($\lambda=310^\circ\text{Ls}$)のDTy氏の $\omega=182^\circ\text{W}$ 、 190°W 、 194°W 、DAr氏の $\omega=189^\circ\text{W}\sim 203^\circ\text{W}$ 、DPc氏の $\omega=191^\circ\text{W}\sim 202^\circ\text{W}$ などに古典的なトゲトゲと一緒に写っている。但し、明らかにマレ・キムメリウム自體も砂被り状態で淡くなっている。強調処理をすると駄目になる。尚、イランのコミザデ(SGh)氏がヨーロッパより数日早く2Sept($\lambda=306^\circ\text{Ls}$)に好い角度($\omega=198^\circ\text{W}$)で撮っている例がある。美國ではDPk氏とEGf氏が15Sept($\lambda=314^\circ\text{Ls}$)にそれぞれ $\omega=206^\circ\text{W}/214^\circ\text{W}$ と $\omega=227^\circ\text{W}\sim 231^\circ\text{W}$ で像を得ている。 e) **シュルティス・マイヨル**：今回もシュルティス・マイヨル中心の画像は多い。然し、シュルティス・マイヨルといえども砂被りで淡くな

っているはずで、強調した画像ではシュルティス・マイヨルが細身になってしまう。ホイヘンス・クレータが現れてきているが、これも内部に砂が溜まっているからだろうと思われる。観測の列記は割愛する。マレ・セルペンティスも相変わらず太く比較的濃い。但し好い観測がないので、この列記も割愛する。♁北極雲：φが北を向き始めていることもあって北極雲が好く見える。B光でキチンと撮らなければならない。DPc氏の13Sept($\lambda=313^\circ\text{Ls}$) $\omega=151^\circ\text{W}$ 、 154°W 、及び15Sept($\lambda=314^\circ\text{Ls}$) $\omega=123^\circ\text{W}\sim 147^\circ\text{W}$ では北極雲の内部に濃淡が出ている。黄雲の動きでどうなるか興味のあるところであるが、 $\lambda=320^\circ\text{Ls}$ ではドーゾのスリットが見える時期に入るから、この先注目である。尚、 $\lambda=310^\circ\text{Ls}$ は本来なら北極域での黄塵発生 of the 時期に入る。既にカタストロフは起こってしまったから、どうなるか分からないが、北極域は依然注目されるべきところである。

♁.....In the next issue we shall review the observations made during a one-month period from 16 September ($\lambda=315^\circ\text{Ls}$, $\delta=8.8''$) to 15 October 2007 ($\lambda=331^\circ\text{Ls}$, $\delta=10.7''$). On 15 October the apparent declination D will attain $D=23^\circ 38' \text{N}$

南 政 次・村上 昌己 M MINAMI & M MURAKAMI

Forthcoming 2007/2008 Mars (12)

Mars in 2007/2008 (2007/2008年の火星). II

Masatsugu MINAMI, Masami MURAKAMI and Akinori NISHITA

南 政 次(Mn)、村上 昌己(Mk)、西田 昭徳(Ns)

20° As already stated in I in CMO #325 (25 November 2006) the planet Mars in 2007 will be closest to the Earth on 19 December 2007 at 00h GMT (with maximal angular diameter $\delta=15.9''$), and at opposition on 24 December 2007 at 20h GMT, and so the latter half of the apparition occurs in 2008. And so as a sequel to I, we shall here be concerned with **possible observational points in 2008**.

21° At the beginning of 2008, the planet Mars is going backward and stays at the eastern part of Tau. **On 7 January ($\lambda=014^\circ\text{Ls}$) its apparent declination reads the northernmost value ($D=26^\circ 59' \text{N}$)**, and Mars shines very high up (about 80 degrees high) from our lands. On 30 January ($\lambda=025^\circ\text{Ls}$), its motion becomes stationary, and then resumes going eastwards. **On 30 March ($\lambda=051^\circ\text{Ls}$), the planet attains the eastern quadrature** with a diameter under 7 arc seconds and henceforward the planet is to be observed in the evening sky.

22° As was shown in the first figure in I (CMO #325) (or see also a figure at page Ser2-0541 in CMO #327), the angular diameter δ **rapidly decreases after opposition** (more rapidly than the time it approaches). On 1 January ($\lambda=010^\circ\text{Ls}$), the δ is 15.4", and well large, but on 20 February ($\lambda=034^\circ\text{Ls}$) it goes down to $\delta=10''$, and on 1 June ($\lambda=079^\circ\text{Ls}$) further down to $\delta=5''$. The appar-

ent declination will go to the southern sky at the end of August with $\delta=3.9''$. The conjunction with the Sun occurs on 5 December 2008.

23° The observable season in 2008 is so from around $\lambda=010^\circ\text{Ls}$ to $\lambda=105^\circ\text{Ls}$ (the end of July when $\delta=4.1''$).

24° At the beginning of 2008, the activity of the north polar hood (nph) is still expected, and so such a phenomenon as the **Dawes Slit** may be observed. The north polar cap (npc) must attain the largest size at around the spring equinox ($\lambda=000^\circ\text{Ls}$), but afterward the activity of the nph will be weakened and the dark fringe of the npc may peep out through the nph (especially at around Gyndes canal at $\Omega=180^\circ\text{W}$). To witness the moment when the npc pops out, one should be attentive from $\lambda=010^\circ\text{Ls}$ to 020°Ls .

25° The observation of the recession of the npc is an interesting and important problem of the present and following apparitions. We shall detail this problem in a coming issue: Around $\lambda=050^\circ\text{Ls}$ when the so-called **Baum's plateau** comes to an end, the northern hemisphere will become to well face to us (at the end of March, the tilt will turn to be $\phi=4^\circ\text{N}\sim 5^\circ\text{N}$).

26° The ccd images may catch some **dusts inside the npc**. On 18 September 1996 ($\lambda=011^\circ\text{Ls}$) and on 15 October 1996 ($\lambda=024^\circ\text{Ls}$), the HST witnessed the dust

streak from the inside of the npc to the edge side. More recently the MGS-MOC proved an existence of an envelope front of the dust inside the npc on 7 August 2004 ($\lambda=071^\circ\text{Ls}$) - see **Christophe PELLIER's colour mosaic** cited on page Ser2-0615 (CMO #330). All are within the season in 2008.

27° Some dust protrusions from the north polar region (npr) may also be expected this season. On 29 August 2000 ($\lambda=042^\circ\text{Ls}$) the MGS caught a **dust burst which protruded outwards** from the edge of the npc. In 1963 on 1 February ($\lambda=049^\circ\text{Ls}$), T SAHEKI and S MIYAMOTO observed at the same time some dust streaks from the npr which curiously crossed Sabaeus S.

28° After the spring equinox, the water vapour caused by the thawing of the npc will go southwards and on the way generates some **ascending evening clouds at the higher mountains**. Especially this kind of cloud will be conspicuous from $\lambda=060^\circ\text{Ls}$, at Olympus Mons, Pavonis Mons, Ascraeus Mons and Elysium Mons. These cloud may be detected even if the angular diameter decreases. Arsia Mons is slightly different: the evening ascending cloud will be seen but the best time will be after the end of the season.

29° We also note that in 1993 on 12 February ($\lambda=039^\circ\text{Ls}$) Y MORITA detected a large bright patch (maybe dust) from Elysium to Cebrenia (see CMO #140, 25 Dec 1993 issue). In 1995 at the end of January ($\lambda=051^\circ\text{Ls}$), M MURAKAMI and T IWASAKI and oth-

ers observed a bright patch (maybe a white cloud) at Alba (CMO #179, 25 Sept 1996 issue). **Alba behaves like Olympus Mons** and so any should be attentive on this area also this season.

30° Finally we note that **Hellas now enters a different phase**. After a while from the southern autumnal equinox, the Hellas basin becomes covered by frost or is icebound. So we should be attentive to Hellas around from $\lambda=060^\circ\text{Ls}$. Seasonally its behaviour looks akin to the evening ascending cloud of Olympus Mons et al but by a very different reason. At the end of the present apparition at $\lambda=100^\circ\text{Ls}$, it will shine near the southern limb because the tilt is around $\phi=25^\circ\text{N}$, and so some may confuse it with the spc.

31° Occultations of Mars by the Moon occur on 20 January, seen from N Russia, Arctic regions, NW tip of N America, on 12 April, seen from NE Canada, Greenland, Iceland, N Scandinavia, on 10 May, seen from N Africa, Europe except N part, and S Asia, and on 8 June, seen from New Zealand. None from Japan. Mars passes by ϵ Gem on 30 March, by α Leo on 1 July. The planet Saturn approaches Mars up to 0.7° on 11 July. On 24 May, the planet Mars proceeds through the Præsepe Beehive cluster (M44).

(註) 今回も地人書院の『天文観測年表』2008年度版の項目要約となっていますので、和文を省きます。発売をお待ち下さい。なお、北極冠の縮小については続項で更に詳しく述べます。 (Mk)

便り Letters to the Editor

●.....**Date: Sat, 25 Aug 2007 09:40:34 +0200**
Subject: mars obs. 25th (CMO-OAA-mars survey)

Dear Christophe, dear Minami san, dear Richard, to all, Here is the last document done this morning 25th, seeing conditions were average only to excellent, but disturbed by hazing here, after a week of strong floodings. This concerns the features from $\omega=291^\circ\text{W}$ until 307°W . Remain yours and will respond to your kind comments if any. Features are generally strong for that CM and what is reported in different colours tends to watch now some modifications on the ground and not due to any obscuring effect of a dust haze. With my best regards.

○.....**Date: Sat, 15 Sept 2007 13:41:09 +0200**
Subject: Re: Mars 26 august

Dear Richard, My apologies also for my late answers to your mails which are very welcome and read deeply. I agree with your comments generally speaking for the reports. I try to make an obs one day and try to confirm it after one or fews after at the same CM, personally for the least, every observer should take this rule, in spite of the conditions locally in any case. I am not following the jpl or mars rover reports, this is disturbing me, and frankly speaking nobody checked the pertinence of each, mars ground report and earth ground reports other than roughly. Simply based on ccd imaging that observers never performs visually inspections prior before, except some, but with artefacts involvements always discussed inconsistently, for small features. Seeing evaluation properly done remain a crucial point as transparency insted by Jeff, for efficient records. I am following the alpo procedures issued on times and retaken by Jeff Beish. Jeff, you are on the wave and follow your views in general for the evaluations of obs. Did it since

the mars opposition 81-82, visually of course. Ask the Lowell obs for my personal report during this opp., I think well filed in it, but in paper formatted only. Since 2 weeks I was outside my home and had not possibilities to survey Mars. However? this morning nothing new because what was reported in the north regio seems not changed except that the NPH is prominent. Did not see the north cap actually. Not a matter to make a scoop, as the mars views except some areas involved partly by dust events remains faint. For what reasons? Don't know, a ground contrast itself appearing permanently now or some remaining dust clouds settling still. However, I am still reseaching a polarimeter for an amateur use, but don't know where I can find some. Do you imagine when rotating some scopes with mirrors only, of any kind, they have polarisation effects. That's meaning that there is something wrong in the surface coatings, not 0 to 1, but perceptible visually when rotating the tube on its axis. You see when coats are done, some are at the center of the vacuum chamber and some outside, my diagnostic of the present situation, may be something else also. I think as you suggest the polarimetric obs should be a must but I don't have actually the tools for. Using only the polaroids, sold by a good telescope provider, but nobody can provide actual characteristics. A main concern and stronger than the classic views that I am still on arrest when issued but for the value itself, remains questionable for some. If somebody can answer this demand, he is welcome, for polarimeters, other points already evaluated. Still following the mars survey and your views, because on these forums and on the survey on concern, we need professional approaches from professionals for guidance, not me indeed. Also a strong communication alert channel and procedures for obs. A main concern Richard, my best regards, you get always a comprehensive french here that I can follow you well. Remain yours.

----- Original Message -----

From: RMckim5374@aol.com To: stsma@tiscali.fr
Sent: Wednesday, September 12, 2007 8:27 PM
Subject: Re: Mars 26 august

Cher Stanislas, Concernant cet email (en particulier) je vous offre une explication partielle. Quand la poussiere s'eleve dans l'atmosphere, l'effet de 'proximite du limbe' est bien plus exageree. Donc, si Nicolas observer le Sinus Sabaeus un peu plus pres du limbe matinal que vos observations, il semble que le tache est plus efface que normale. In other words, the limb haze effect is greater. Often a yellow veil that is thin and faint will show up only near the limb because the atmospheric depth in the line of sight is greater. I did not compare your work, but it could be a partial solution. In other words, you could both be correct....Please forgive my 'imparfait' French!

All the best. **Richard MckIM**

○.....Date: Sun, 16 Sept 2007 11:26:06 +0200
Subject: mars obs 16th

Dear Christophe, dear Minami san, dear Richard, to all, Here is the last document done this morning 16th 00H25UT, seeing conditions were average to good, but disturbed by clouds at the end. Performed before dew deposition. This concerns the features from $\omega=65^{\circ}W-70^{\circ}W$. Some comments are given in the attached files. Remain yours and will respond to your kind comments if any. Have good receipt of the present.

With my best regards.

○.....Date: Sat, 22 Sept 2007 13:40:43 +0200
Subject: mars obs 21-22th sept.

Dear Christophe, dear Minami san, dear Richard, to all, Here is the last document done this morning 22th 00H00UT, seeing conditions were average to good, but disturbed by cirrus clouds at the end. Performed before dew deposition. This concerns the features from $\omega=2^{\circ}W$. Some comments are given in the attached files for few only. Remain yours and will respond to your kind comments if any. Have good receipt of the present.

With my best regards.

Stanislas MAKSYMOWICZ

(スタニスラス・マクシモヴィッチ Ecquevilly 法)

●.....Date: Sat, 25 Aug 2007 20:54:31 +0900
Subject: Mars-2007-08-24-KUMAMORI

朝焼けが鮮やかに見えていました。薄雲を通しての撮影になりました。シーイングも今ひとつです。セミの音が撮影中にしなくなり、夏も終わりが近づいて来たのでしょうか。

○.....Date: Sun, 9 Sept 2007 07:26:09 +0900
Subject: Mars-2007-09-08-KUMAMORI

撮影直前まで良く晴れていたのですが、撮影中に曇ってきました。シーイングも悪く、1画像のみです。

○.....Date: Thu, 13 Sept 2007 07:38:53 +0900
Subject: Mars-2007-09-12-KUMAMORI

薄雲が多かったのですが何とか撮影できました。まだ、黄雲があつて、あまり見たことのない景色?のような気がします。

○.....Date: Wed, 19 Sept 2007 07:30:17 +0900
Subject: Mars-2007-09-18-KUMAMORI

僅かしかない撮影時間帯に雲が通過し、撮影枚数を稼ぐことができませんでした。

画像処理も不安定ですがご容赦ください。

○.....Date: Fri, 21 Sept 2007 07:13:05 +0900
Subject: Mars-2007-09-20-KUMAMORI

ベランダからの隙間での撮影は限界に近づいてきました。有効な撮影時間は30分間ほどになってきました。まだ、火星の赤緯は上がりますのでどこまでできるか、ま、できるところまでもう少し続けてみたいと思います。

○.....Date: Sun, 23 Sept 2007 07:14:06 +0900
Subject: Mars-2007-09-22-KUMAMORI

撮影可能時間になると曇ってきましたので、撮影間隔を取ることができませんでした。Hellasの北西部が明るく感じました。

よろしくお願いたします。

熊森 照明 (Teruaki KUMAMORI 堺 Osaka)

●.....Date: Sat, 25 Aug 2007 22:51:07 +0100
Subject: 2007-08-25 Mars

Folks, Please find enclosed an image of Mars from this morning (25th). It is good to see Mars now getting noticeably bigger. ATiK 1HS, C14 and a barlow (with a surprise visit from a hedgehog and attempted sabotage from one of the cats). Regards

Martin M TAYLOR (マーチン・テーラー Leicester 英)

●.....Date: Sat, 25 Aug 2007 10:22:28 -0500
Subject: Mars 8-25-07 11:10 UT

Observation from Houston Texas 8-25-07 at 11:11 UT, seeing 7/10, transparency 7/10.

<http://www.ghg.net/egrafton/08-25-07.jpg>

○.....Date: Tue, 28 Aug 2007 14:54:45 -0500
Subject: Mars 8-28-07 10:47 UT

Observation from Houston Texas 8-28-07 at 10:47 UT, seeing 7/10, transparency 7/10.

<http://www.ghg.net/egrafton/08-28-07.jpg>

○.....Date: Wed, 29 Aug 2007 13:34:26 -0500
Subject: Mars 8-29-07 10:55 UT

Observation from Houston Texas 8-29-07 at 10:55 UT, seeing 8/10, transparency 8/10.

<http://www.ghg.net/egrafton/08-29-07.jpg>

○.....Date: Tue, 4 Sept 2007 09:48:15 -0500
Subject: Mars September 04 2007

Here is an observation from Houston Texas September 04 2007 at 11:11 UT. Seeing 7/10 transp. 8/10

<http://www.ghg.net/egrafton/09-04-07.jpg>

○.....Date: Thu, 6 Sept 2007 14:23:59 -0500
Subject: Mars September 6th 2007

Here is an observation from Houston Texas September 6th 2007 at 11:10 UT. Seeing 6/10 transp. 8/10

<http://www.ghg.net/egrafton/09-06-07.jpg>

○.....Date: Sat, 8 Sept 2007 11:29:52 -0500
Subject: Mars September 8th 2007

Here is an observation from Houston Texas September 8th 2007. Seeing 7/10, transp. 7/10

<http://www.ghg.net/egrafton/09-08-07.jpg>

○.....Date: Sun, 9 Sept 2007 10:57:15 -0500
Subject: Mars September 9th 2007

Here is an observation from Houston Texas September 9th 2007. Seeing 8/10, transp. 9/10. Note the brightness of the Hellas basin.

<http://www.ghg.net/egrafton/09-09-07.jpg>

○.....Date: Sat, 15 Sept 2007 10:06:09 -0500
Subject: Mars September 15th 2007

Here is an observation from Houston Texas September 15th 2007. Seeing 8/10, transp. 8/10.

<http://www.ghg.net/egrafton/09-15-07.jpg>

○.....Date: Mon, 17 Sept 2007 14:12:07 -0500
Subject: Mars September 17th 2007

Here is an observation from Houston Texas September 17th 2007. Seeing 6-7/10, transp. 8/10. Finally the weather has started cool down a bit here in Houston with the temperature only 72F this morning and the air a bit less humid.

<http://www.ghg.net/egrafton/09-17-07.jpg>

○.....Date: Fri, 21 Sept 2007 16:50:29 -0500
Subject: Image - September 21, 2007

An image from September 21st 2007 at 11:16 UT

<http://www.ghg.net/egrafton/09-21-07.jpg>

Also an image from September 17th that must have been spammed away by yahoo but did make it to the CMO.

<http://www.ghg.net/egrafton/09-17-07.jpg>

○.....Date: Sat, 22 Sept 2007 12:12:04 -0500
Subject: Image - September 22nd, 2007

An image from September 22nd 2007.

<http://www.ghg.net/egrafton/09-22-07.jpg>

Ed GRAFTON (エド・グラフトン Houston TX 美)

●.....Date: Sun, 26 Aug 2007 14:30:33 +0200
Subject: Mars 25.8.2007

Dear Masatsugu, new images from 25. August. Seeing was 'friendly', so i got some detailed pictures. The rgb-image at 03.32ut was used als color-channel for the irgb-image at 03.29ut. The image at 03.56ut was recorded with the red-filter of the astronomik rgb-filter-set. At 05.55ut, the sun has arised and was about 13° over the horizon. I proceeded the image in two different ways:

- As the visual impression was with the blue sky as background

- With the background reduced to black to get a better contrast of the marsian surface.

With best wishes

Camera: DMK 21AF04 at 685nm / ToUCam Pro 740 for RGB
Telescope: 12,5" Newton ($f = 11m$)

○.....Date: Thu, 30 Aug 2007 11:53:01 +0200
Subject: Mars 30.8.2007

Dear Masatsugu, a new image from 30. August, in IR685 and IRGB. The clearing of the atmosphere continues. Hellas looks noticeable bright. With best wishes

○.....Date: Wed, 19 Sept 2007 14:50:55 +0200
Subject: Mars on 14., 16. and 17. 9. 2007

Dear Masatsugu, in the attachment, i send you images from 14., 16. and 17. September. On 16., seeing was very bad. Unfortunately, we had a lot of clouds and no chance to observe between 30. August and 14. September. With best wishes

○.....Date: Wed, 19 Sept 2007 15:27:52 +0200
Subject: addendum: Mars on 14., 16. and 17. 9. 2007

Dear Masatsugu, sorry, i forgot to note, that the focal length of the two (second-time) attached images was not 11m but 13,5m. With best wishes

Ralf GERSTHEIMER

(ラルフ・ゲルシュトハイマー Habichtswald 徳)

●.....Date: Sun, 26 Aug 2007 21:34:24 +0100
Subject: Mars 25th Aug

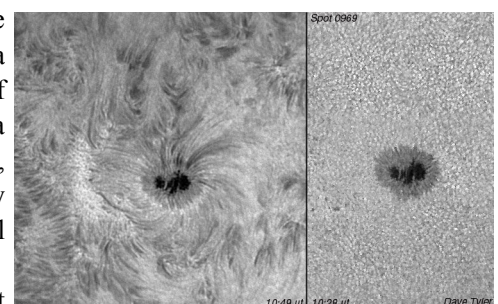
Hi guys, Here is Mars from the early hours of the 25th The early set was imaged with a LU075 colour, and the later ones, with a Skynyx and trutek RGB type 2 filters.

I have added one I took in 2005 showing the same area, for comparison. Remember Mars was about 18 secs across as opposed to 8secs just now. Best wishes

○.....Date: Mon, 27 Aug 2007 11:22:31 +0100
Subject: Solar images 25th aug

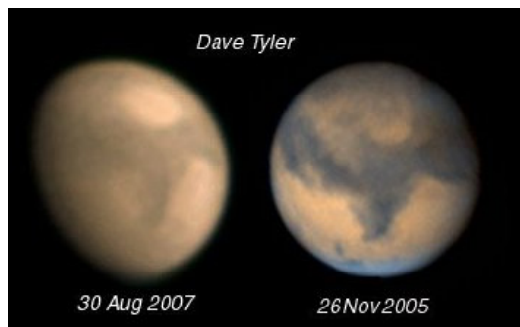
Hi guys, we are having a small taste of summer for a few days, after plenty of autumnal weather.

Here is spot 0969 in H α and white light. I also noted an odd feature near the limb, quite tornado- like. Seeing poor with fair patches. Lu 075M 6inch achro @f30. Daystar .6Å



○.....**Date: Fri, 31 Aug 2007 17:31:42 +0100**
Subject: Mars 30th Aug

Hi Guys, I have been in Cyber- limbo for two days due to a telephone line fault. Here are a couple of mars images from the 30th. They show the planet is still obscured by dust, when you compare it with the 2005 image.



They show the planet is still obscured by dust, when you compare it with the 2005 image.

Hellas is amazingly bright, an interesting

mechanism at work there, it is just visible in the blue image. The two frame animation shows more clearly, the amount rotation in 20 mins. Best wishes

○.....**Date: Fri, 31 Aug 2007 22:07:36 +0100**
Subject: Solar images from the 29th aug

Hi guys, Here are some images from the 29th. Little spot 0969, is quite spectacular in Hydrogen Alpha, and quite pleasing in White light. The quite large spidery Prominence taken at 180" focal length was a little unusual. The wide angle shot of 0969 is a montage of two images 90" focal length images, to bring the limb into view. The higher resolution images of the spot are 180" focal length. Best wishes

○.....**Date: Mon, 3 Sept 2007 12:43:29 +0100**
Subject: Prominence 2nd sept

Hi guys, The 1" eyepiece on 180x mag could just make out this prominence, though the thin cloud and haze, but simply swapping the eyepiece for the CCD revealed this glorious "flaming" spectacle. Best wishes

○.....**Date: Thu, 6 Sept 2007 23:13:46 +0100**
Subject: the sun 6th sept

Hi Guys, Although warm with plenty of sun today, the gaps in the clouds were too small and full of haze. Seeing was more stable at 08:30 ut than 10:00. These were the only real areas of interest, in the seeing available. The disturbance, I take to be the remnants of spot 0970. Celestial north is shown at the top.

Vixen ED 150mm stopped to 4.5" with 2x powermate and full aperture with 4x powermate for the prom. Daystar .6A. Best wishes

○.....**Date: Fri, 7 Sept 2007 23:05:25 +0100**
Subject: Jupiter 7 sept

Hi guys, Well I just tried my "intended for solar" 6 inch vixen on Jupiter, as it looked ok through it. It imaged surprisingly well too, with a Skynyx 2.0. Seeing was much better than earlier imaging of the sun today. Note the very long blue festoon. Best wishes

○.....**Date: Sat, 8 Sept 2007 21:06:37 +0100**
Subject: Mars with small scope

Hi Guys, I decided to get up for Mars this morning, and also to see what this gem of a 150mm refractor could make of it, before putting the C14 on the mount. I tried out the Lumenera Lu075 colour ccd first, the image was so small on screen it was difficult to assess the camera's colour balance through the image length dispersion at 36

deg alt. Seeing was poor too at 3 am. I then put a mono Skynyx on with filter block into a 3x televue barlow. The images have been enlarged about 300%. Best wishes

○.....**Date: Mon, 10 Sept 2007 00:13:15 +0100**
Subject: Mars 8th sept

Hi Guys, Reasonable seeing on the 8th at an unreasonable hour. Note the North Polar hood and a "North Polar Hood collar" on the images. Best wishes

○.....**Date: Thu, 13 Sept 2007 06:36:12 +0100**
Subject: Mars 12th sept

Hi guys, here's a set of Mars from the 12th, imaged in dodgy seeing. I see a hint of blue in the south pole now, it was particularly noticeable with the blue filter on the laptop screen this morning (13th) in good seeing.

C14 F48 skynyx 2.0 trutek type 2 rgb filters . 3x TV Barlow plus ATIK filter drawer unit. Best wishes

○.....**Date: Thu, 13 Sept 2007 16:42:02 +0100**
Subject: Mars this morning

Hi guys, Some good seeing was to be found this morning diguised among the mediocre. I have attached the free download "mars previewer" image for comparison. When the full version is clicked the names of the clicked features, appear on the crude but effective image.

○.....**Date: Fri, 14 Sept 2007 14:37:10 +0100**
Subject: mars this morning

Hi guys, and a special, hi to fellow bleary eyed Mars imagers/processors who are staggering around unkempt and barely alive. Or is it just me ? Seeing was dastardly this am, but one had to do something, after making the effort. Nothing much to show for it , and its virtually the same CM as yesterday's but it was fun anyway. What a strange lot we are !

○.....**Date: Mon, 17 Sept 2007 17:09:37 +0100**
Subject: Mars 16th Sept

Hi Guys, here's a Mars image from the 16th , Seeing was better, allowing quite a lot of detail to be gleaned. Solis Lacus has just "arrived" for us English imagers, with this odd retrograde stroboscopic view we all have as Mars appears to "rotate the wrong way" from day to day.

○.....**Date: Mon, 17 Sept 2007 21:23:14 +0100**
Subject: 2005 - sept 2007 Mars changes

Hi guys, Just an interesting comparison image, showing how Solis Lacus was in 2005 and how it appears at the moment. Best wishes

○.....**Date: Wed, 19 Sept 2007 14:47:43 +0100**
Subject: Mars 18th sept

Hi Guys, This was the first cold morning this year at 5°C, also the first time since last winter, that my scope has "dewed up" on the inside if the corrector. There was also a nice breeze to go with this, making it feel more like zero. The change in weather also brought poor seeing. I look fwd to better seeing to image this longitude in better detail. Best wishes

Dave TYLER (テグアイド・タイラー Bkh 英)

●.....**Date: Sun, 26 Aug 2007 21:39:41 +0900**
Subject: Mo25Aug_07

やっと2時すぎから火星が昇ってくるようになりました。25Augをお送りします。このほかに20、24日と撮っています。

○.....**Date: Sun, 9 Sept 2007 21:34:32 +0900**

Subject: Mo05 08Sept_07

今日は撮ろうと張り切ってはいましたが、つい寝過ぎて 起きたら5時で、大慌てで撮りましたが三十分あまりで曇ってしまいました。よって1setのみ。明日は晴れそうで2時半ぐらいから撮ろうと思っています。

森田 行雄 (Yukio MORITA 廿日市 Hiroshima)

●.....**Date: Mon, 27 Aug 2007 00:15:05 +0100**
Subject: Mars images (August 25th, 2007.)

Hi all, Here are some images from Aug 25th in good seeing. This hemisphere has cleared allot in the last month, but the markings are still rather poorly contrasted in red light compared to normal. Clearly there is still much airborne dust. Hellas - Noachis to Argyre is bright band across the disk. Pandora Fretum is dark. Deucalionis Regio is also darkened. Mare Acidalium is now weakly visible.

http://www.damianpeach.com/mars07/m2007_08_25rgb_dp.jpg
http://www.damianpeach.com/mars07/m2007_08_25red_dp.jpg
http://www.damianpeach.com/mars07/m2007_08_25blue_dp.jpg

○.....**Date: Mon, 27 Aug 2007 22:56:37 +0100**
Subject: Mars images (August 26 & 27th, 2007.)

Hi all, Here are some images from Aug 26 and 27th.

http://www.damianpeach.com/mars07/m2007_08_26rgb_dp.jpg
http://www.damianpeach.com/mars07/m2007_08_27rgb_dp.jpg

○.....**Date: Thu, 30 Aug 2007 19:51:48 +0100**
Subject: Mars images (August 30th, 2007.)

Hi all, Here are some images from this morning under rather poor conditions. I was lucky to get anything as it started to cloud up rapidly after the first captures....

http://www.damianpeach.com/mars07/m2007_08_30rgb_dp.jpg

Syrtis Major is very prominent, and Hellas is almost a "shining disk" in Red light. Best Wishes

○.....**Date: Wed, 5 Sept 2007 20:12:49 +0100**
Subject: Mars images (September 4th, 2007.)

Hi all, Here are some images from Sept 4th. Poor seeing unfortunately but at least it was actually clear! Where has Nodus Alcyonius gone!?

http://www.damianpeach.com/mars07/m2007_09_04rgb_dp.jpg

○.....**Date: Thu, 6 Sept 2007 22:43:24 +0100**
Subject: Mars images (September 6th, 2007.)

Hi all, Here are some images from Sept 6th. Seeing was (believe it or not!) decidedly poor. I continue to be surprised (as in 2005) how tolerant Mars is of poorer seeing.... An interesting double dark patch in Aethiopia. Any comments on this Jeff/Don/Masatsugu?

http://www.damianpeach.com/mars07/m2007_09_06rgb_dp.jpg

○.....**Date: Fri, 7 Sept 2007 20:09:44 +0100**
Subject: Ganymede & Io - May 26th, 2007.

Hi all, Here are some images showing Ganymede and Io under excellent conditions on May 26th. Surface markings are clearly seen on Ganymede, while Io shows some interesting detail.

http://www.damianpeach.com/barbados07/2007_05_26_gany_dp.jpg

http://www.damianpeach.com/barbados07/2007_05_26_io_dp.jpg

○.....**Date: Sat, 8 Sept 2007 23:01:38 +0100**
Subject: Mars images (September 8th, 2007.)

Hi all, Here are some images from this morning under good seeing. A clearer view of the "new" feature between

Sinus Gomer and Hyblaeus which on the old maps seems to be located at Pambotis Lacus. Trivium-Cerberus appear as the typical two dots.

http://www.damianpeach.com/mars07/m2007_09_08rgb_dp.jpg

http://www.damianpeach.com/mars07/m2007_09_08bw_dp.jpg

○.....**Date: Sun, 9 Sept 2007 17:36:22 +0100**
Subject: Mars images (September 9th, 2007.)

Hi all, Here are some images from this morning.

http://www.damianpeach.com/mars07/m2007_09_09rgb_dp.jpg

○.....**Date: Tue, 11 Sept 2007 22:22:17 +0100**
Subject: Mars images (September 11th, 2007.)

Hi all, Here are some images from this morning.

http://www.damianpeach.com/mars07/m2007_09_11rgb_dp.jpg

The NPH is interesting showing a dark band across it. Propontis complex is visible. Best Wishes

○.....**Date: Sun, 16 Sept 2007 21:21:56 +0100**
Subject: Mars images (September 12th, 2007.)

Hi all, Here are some Mars images from Sept 12th.

http://www.damianpeach.com/mars07/m2007_09_12rgb_dp.jpg

http://www.damianpeach.com/mars07/m2007_09_12bw_dp.jpg

Olympus Mons seen at the terminator. Interesting appearance to the NPH. Best

○.....**Date: Sun, 16 Sept 2007 23:28:10 +0100**
Subject: Mars images (September 13th, 2007.)

Hi all, Here are some images from Sept 13th. Olympus and Arsia Mons well seen as dark spots.

http://www.damianpeach.com/mars07/m2007_09_13rgb_dp.jpg

○.....**Date: Mon, 17 Sept 2007 16:03:45 +0100**
Subject: Mars images (September 14th, 2007.)

Hi all, Here are some images from Sept 14th under very poor seeing.

http://www.damianpeach.com/mars07/m2007_09_14rgb_dp.jpg

○.....**Date: Mon, 17 Sept 2007 21:56:48 +0100**
Subject: Mars images (September 15th, 2007.)

Hi all, Here are some images from Sept 15th. Tharsis volcanoes are nicely seen. As already mentioned by others some interesting changes have occurred across Mare Sirenum since 2005.

http://www.damianpeach.com/mars07/m2007_09_15rgb_dp.jpg

http://www.damianpeach.com/mars07/m2007_09_15red_dp.jpg

http://www.damianpeach.com/mars07/m2007_09_15blue_dp.jpg

○.....**Date: Wed, 19 Sept 2007 18:48:35 +0100**
Subject: Mars images (September 16th, 2007.)

Hi all, Here are some images from Sept 16th in very good seeing at times. Olympus Mons looks remarkable, and i saw it visually on this morning. Ascraeus, Pavonis and Arsia Mons are also very prominent. Interesting changes to Mare Sirenum from 2005. The NPH shows some nice structure, and on none of my sessions this week did i detect any clouds over the Tharsis volcanoes.

http://www.damianpeach.com/mars07/m2007_09_16rgb_dp.jpg

http://www.damianpeach.com/mars07/m2007_09_16red_dp.jpg

http://www.damianpeach.com/mars07/m2007_09_16blue_dp.jpg

○.....**Date: Wed, 19 Sept 2007 20:32:27 +0100**
Subject: Mars images (September 18th, 2007.)

Hi all, Here are some images from Sept 18th under extremely poor seeing.

http://www.damianpeach.com/mars07/m2007_09_18rgb_dp.jpg

○.....**Date: Sat, 22 Sept 2007 14:57:40 +0100**
Subject: Mars images (September 22nd, 2007.)

Hi all, Here is an image from this morning. No colour

images due to it clouding up almost immediately. Seeing was very poor.

http://www.damianpeach.com/mars07/m2007_09_22red_dp.jpg

Solis Lacus and Aurorae Sinus are prominent. Juventate Fons is seen. Lunae Lacus/Ganges looks very dusky. Agathodaemon is rather weak. Some clumpy appearance to the NPH. Best Wishes

Damian PEACH (デミアン・ピーチ Bkh 英)

●.....*Date: Mon, 27 Aug 2007 02:14:15 +0100*
Subject: Mars 2007 August 10

A good result on the 10th, with not only Olympus clearly visible, but the Tharsis volcanoes, faintly, near the limb.

○.....*Date: Mon, 27 Aug 2007 04:05:34 +0100*
Subject: Mars 2007 August 17

This is the first result from my C14, and I am very pleased with it. A view of the Mare Erythraeum area. Not bad detail for a 7.5" dia. disk.

○.....*Date: Tue, 28 Aug 2007 03:31:15 +0100*
Subject: Mars 2007 August 27

Rather poor seeing on this occasion. Mars quite perceptibly bigger than it was last time I imaged, 10 days ago, now 8" across.

○.....*Date: Sun, 2 Sept 2007 21:17:00 +0100*
Subject: Mars 2007 September 02

Seeing was not particularly good. The bright "dish" of Hellas has been commented on by others. It is very striking on-screen during capture. However, Aeria, following Syrtis Major, also shows up very bright here, particularly in IR.

○.....*Date: Tue, 4 Sept 2007 19:01:54 +0100*
Subject: Mars 2007 September 04

On the 4th seeing was improved but still not very good. Richard McKim has pointed out that the bright "dish" of Hellas represents one of the last parts of the dying storm isolated in that basin. Nevertheless, there still seems to be a general haze reducing contrast from what one would expect. Here, a bit more detail than before is visible, including Syrtis Minor, Nubis Lacus, the dark patch p. the tip of Syrtis M, and Nodus Laocoontis, the streak near the terminator.

○.....*Date: Sun, 9 Sept 2007 21:55:26 +0100*
Subject: Mars 2007 September 06

Poor seeing again. The bright dust bowl of Hellas is still visible, on the limb, looking like a bump. S polar collar clear.

○.....*Date: Fri, 21 Sept 2007 02:23:43 +0100*
Subject: Mars 2007 September 08

A set of images from the 8th. Processing delayed by doing some work for the AAVSO/HST, for which I received no acknowledgement. Won't be doing anything for them again.

○.....*Date: Sat, 22 Sept 2007 03:02:14 +0100*
Subject: Mars 2007 September 11

Rather poor seeing. However, the three dots of Propontis are just discernable in the N.

David ARDITTI (デヴィッド・アーティチ Edgware ME 英)

●.....*Date: Mon, 27 Aug 2007 11:15:15 +0200*
Subject: Re: Mars 26 august

Dear Mars observers, After another cloudy/wet period, I got clear and quite steady skies yesterday morning. I got the opportunity to make 2 drawings of Mars with good seeing conditions, attached here. (I will send my July 30 - August 13 observations later.)

The storm look like finally clearing up: Sinus Sabaeus and M. Serpentis-Hellespontus looked dark and relatively well defined. But (in contrary to some overprocessed images seen recently?) Sinus Meridiani is still very pale and obscured by dust. M Acidalium is also probably obscured by dust or also by haze or extension of North polar hood? Regards,

○.....*Date: Mon, 27 Aug 2007 11:53:53 +0200*
Subject: Mars 30 July - 13 August

Dear Masatsugu, Richard, Masami, Christophe, I attach here my Mars drawing from the past weeks: I was for three weeks elsewhere in South-eastern France with no internet connection...

The August 6-13 observation were done from these remote places in french alps. Meanwhile they all show a martian disk still mostly obscured by dust in contrary to yesterday morning observation (see other e-mail).

○.....*Date: Wed, 5 Sept 2007 18:10:21 +0200*
Subject: Mars 28-30 aug (& comments from this week)

Dear Mars Observers, First, find here my drawings from last week, 28th and 30th of august morning, with the 407mm Dobson ×700 next to my building in Versailles. The seeing was not as good as on the 26. Syrtis Major seemed still a bit obscured in its northern part. Since then, I observed Mars yesterday and this morning (4 Sept. 3:35 and 5 UT and 5 Sept. 4:25 UT) with the longitudes from Mare Cimmerium to Hellas. The seeing was still a bit marginal to fair but good enough at some time for the ×700 magnification. NPH was prominent and I also notice the bright core in Northern Hellas that other observers mentionned. I may not send my scanned drawing very soon as I plan to be away (from internet connection also) Sept. 9-15, hopefully getting good images of Mars from southern France this coming week.

Clear Skies,

Nicolas BIVER (ニコラ・ビヴァール Versailles 法)

●.....*Date: Tue, 28 Aug 2007 03:01:06 -0700*
Subject: Mars 8-28

Very good conditions this morning, and it looks like improving conditions for Opportunity.

○.....*Date: Tue, 4 Sept 2007 09:58:29 -0700*
Subject: Mars 09-03

Poor seeing, though still worth waking up for shooting.

○.....*Date: Wed, 5 Sept 2007 08:26:16 -0700*
Subject: Mars 9/5

Poor conditions once again. Syrtis Major appears "skinny".

○.....*Date: Thu, 13 Sept 2007 11:23:12 -0700*
Subject: Mars 9/13

Fair seeing this morning bordering on good.

○.....*Date: Tue, 18 Sept 2007 12:12:57 -0700*
Subject: Mars 9/18

Good conditions this morning. Note the prominent cloud offset from the NPC.

○.....Date: *Wed, 19 Sept 2007 03:52:34 -0700*
 Subject: *Mars 9/19*

Good to excellent seeing this morning. Shot one hour before yesterday's image, no odd clouds.

Sean WALKER (シヨーン・ウォーカー S&T 美)

●.....Date: *Tue, 28 Aug 2007 09:22:48 +0330*
 Subject: *mars*

Hi mr MINAMI, I sent one image for you see you it admire? Cheers

○.....Date: *Wed, 29 Aug 2007 07:57:39 +0330*
 Subject: *fw*

Hi Mr MINAMI, I sent one image for you PLS see you it. perhaps you admire? Mr Minami I tried very hard that the image to be better I don,t konw where is wrong, anyway: if you have comment for me welcome .

information: telescope C 11 F 2800 mm, camera ToUcam pro III mono +3x barlow f 37. Filter: astronomik RGB, processeing 5, 800 frames RED one 700 frame Green & one 700 frame Blue software: regitax & PS. Cheers

Sadegh GOMIZADEH

(サテグ・コムサデ Teheran 伊朗)

●.....Date: *Tue, 28 Aug 2007 18:33:18 -0700*
 Subject: *Images on August 27th*

Hi Masatsugu, Please see attached.

○.....Date: *Wed, 5 Sept 2007 19:32:17 -0700*
 Subject: *Mars Image on Sept 5th*

Hi Masatsugu, Please see attachment. It looks like there is a large dust cloud over western Hellas with a dust band extending westward. And maybe a dust cloud possibly over Edom (bright). NPH visible.

○.....Date: *Wed, 19 Sept 2007 19:46:26 -0700*
 Subject: *Mars Images on Sept 18th*

Hi Masatsugu, Bad seeing, but images nonetheless.

Jim MELKA (シム・メルカ St Louis MO 美)

●.....Date: *Wed, 29 Aug 2007 05:47:31 -0700*
 Subject: *Mars Images - August 27 & 28*

Gentlemen, I am submitting a set of images from August 27 and August 28. Regards,

○.....Date: *Mon, 3 Sept 2007 05:28:00 -0700*
 Subject: *Mars Image - 2007-August-30*

Gentlemen, I am submitting a set of images from August 30. I sent this image two days ago but it did not seem to get posted. So I am sending this again. Regards,

○.....Date: *Sat, 8 Sept 2007 17:39:24 -0700 (PDT)*
 Subject: *Mars Image - 2007-September-08 (corrected)*

Gentlemen, The image from September 8 that I previously sent you was labeled with the incorrect central meridian. Attached is the corrected image. Regards,

Peter GORCZYNSKI (ピート・コルチンスキ CT 美)

●.....Date: *Wed, 29 Aug 2007 17:01:39 +0200*
 Subject: *Mars 27th august*

Hi Fellows, Here a first encounter for me with Mars, regretly seeing was chaotic, sometimes with displacements of 10". best to you

○.....Date: *Tue, 11 Sept 2007 18:41:58 +0200*
 Subject: *Jupiter 8th september*

Hi Fellows, Last weekend travelled down 650 km to France to enjoy the pristine skies without lightpollution. It started cloudy but during the night it cleared and what

a Milkyway we saw. M33 magnificent in the W.O. 80 mm apo, also M31 was beyond I ever saw...many objects seen you as you can imagine. Jupiter (but also rather low overthere) and Mars finally in good conditions. Mars will follow. Also a test with the DMK to image M57 in prime focus in the C9,25...I couldn't guide so sticked to 20-30 sec per frame and 20 or so frames were used but if possible it must be possible to capture nice nebulae.



○.....Date: *Tue, 11 Sept 2007 21:24:21 +0200*
 Subject: *Mars 8 september*

Hi Fellows, Last weekend imaged from a more southerly location in France under a great sky and conditions were good. best to all

○.....Date: *Thu, 13 Sept 2007 20:51:52 +0200*
 Subject: *Mars this morning*

Hi all, Seeing could be better but nice to see nix olympia again...also a bright limb could be seen. best <http://home.tiscali.nl/planetadelaar/mars20070913-0322-jad.JPG>

Jan ADELAAR (ヤン・アテラール Arnhem 荷蘭)

●.....Date: *Wed, 29 Aug 2007 18:51:29 -0700*
 Subject: *Mars 28 August 2007*

Hi Masatsugu, Here's Mars on the 28th. This was an especially enjoyable night as I could look over my shoulder while I was imaging Mars and watch the Lunar eclipse! Best wishes,

○.....Date: *Mon, 03 Sept 2007 14:05:54 -0700*
 Subject: *Mars 1 September 2007*

Hi Masatsugu, Here's Mars on September 1st. Note the difference in the apparent polar diameter of the infrared and the green/blue images. Is the dust alone causing this or is there another explanation?

http://www.ethan-t-allen.com/astronomy/m2007-09-01_13-43_ea.jpg

○.....Date: *Tue, 04 Sept 2007 12:36:29 -0700*
 Subject: *Re: Mars 1 September 2007*

Hi Masatsugu, Congrats on CMO #335! It's great that you were able to get in so many good nights of observation.

Thanks or the description of the Ophir-Candor brightness. I was wondering if that was dust or not. Another thing: I've noticed that the apparent polar diameter of Mars seems to be noticeably larger in the shorter wavelengths. Christophe Pellier thinks that this is a "technical illusion" due to the scattering of light in shorter wavelengths. Alternately, I wonder if this effect is caused by the formation of the NPH? I have only seen this in my images from the last several imaging sessions, from the end of August & beginning of September. It's hard to imagine that such a pronounced difference would be caused by the NPH alone though..

I'm very sorry to hear about your disc. Spinal injuries can be very painful. I hope you have a quick and complete recovery. By the way, my mother has had multiple problems with disc herniation and has done a consid-

erable amount of research on this topic. She says that it can be easy to overcome and recovery can be within 24 hours. Here's her advise: It's caused by severe long term dehydration which reduces the Turgor pressure in the disc. Drink a gallon and a half of water a day! Take extra calcium magnesium oxide powder in a chelated form in a fruit drink. Also include a 1000 mg of vitamin C. Lay flat on your back on a stiff surface for long, restful periods. My mother has overcome disc herniation, non-surgically, with this method several times.

My best wishes for a quick and complete recovery,
 ○.....Date: Wed, 05 Sept 2007 11:05:27 -0700
 Subject: Re: Mars 1 September 2007

Hi Masatsugu, You're welcome. Don't worry about my last question. I will write up a small report and send you the results. Again, my best wishes for a quick and complete recovery,

○.....Date: Fri, 07 Sept 2007 20:11:42 -0700
 Subject: Mars 6 September 2007

Hi Masatsugu, Here's Mars in Red on the 6th. I could not get a set as there were several large fires here in California that reduced the transparency dramatically. Imaging mars with ash raining down on my computer was

quite a spectacle... Best Wishes,
Ethan ALLEN (イ-サン・アレソ Sebastopol CA 美)

●.....Date: Wed, 29 Aug 2007 21:20:59 -0700
 Subject: Mars August 18 and 28, 2007

These sets are late, sorry. Dust is clearing in this area from last month. NPH becoming visible in Blue. Thanks
Dave MOORE (デ-ヴァ-イット-ム-ア Phoenix AZ 美)

●.....Date: Thu, 30 Aug 2007 14:13:18 +0100
 Subject: Mars image August 30th

Gentlemen, another pair of Mars images for your consideration, still not great but at least there are some surface features to focus on now ! Was able to observe from CM longitude 255°W to 300°W this morning and this face of Mars at least now presents it's classic features quite clearly. Syrtis Major was prominent, so too Syrtis Minor and Mare Tyrrhenum. Hellas became bright, as seen in the attached photo and Mare Serpentis and later, after sunrise, Sinus Sabaeus looked dark and well defined. Hope these are of interest, best wishes for now

Ian HANCOCK (イ-アン・ハンコック Canterbury 英)

TEN YEARS AGO (145)

---CMO #195 (25 September 1997) pp2151-2166---

CMO #195巻頭はOAA MARS SECTION Reportで、1997年八月後半・九月前半の観測がまとめられている。火星はてんびん座へ移り、沈むのが早くなって、観測は最終盤となった。報告は国内からの五名のみであった(右画像を拡大すると読める)。この期間の末に視直径は $\delta=5.5''$ まで落ち、季節は $\lambda=181^\circ\text{Ls}$ まで進み、北半球の秋分となった。北極冠とヘッラスの明るさなどが観測の主題であった。

20Aug1997($\lambda=167^\circ\text{Ls}$)には、マーズ・グローバル・サーベイヤーMGSが接近途中で、撮影した三枚の半月状の画像が発表されて、Click CMO(10)に画像入りで詳しく取り上げられた。

LtEは、Francis_OGER_(France), André_NIKOLAI_(Germany), 頼武揚(Taiwan), Richard MckIM_(UK)の国外の各氏からと、大澤俊彦(T OSAWA福岡)、伊舎堂弘(Id沖縄)、岩崎徹(Iw北九州)、森田行雄(Mo広島)の国内の各氏からのものが取り上げられた。森田氏からは久しぶりの来信で、CCD画像が引用されている。TP写真からCCDカメラに切り替えた時に、不慣れな上に仕事の忙しさも加わって画像処理がタイミング良く出来ずに現在も処理続行中であることが述べられている。巻末には「福井だより」として、南氏から秋の福井の風情が紹介された。

TYA(25) は廿年前のCMO#038 (25 September 1987)が取り上げられている。翌年の1988年の接近の様子が記事になり、南氏作成の最接近予想図が大きく載った表紙が引用されている。他に、アメリカから寄せられた写真関係の記事があった。

村上昌己 (MK)

ISSN 0.917-7388

Communications in Mars Observations

火星通信 No. 195

No. 17/1996~1997
25 September 1997

Published by the OAA Mars Section

---OAA MARS SECTION --- 南 政 次 MMINAMI ---

○.....火星は夕方薄明中に掴まえないと約兩落として低くになってしまう状況である。然し、視直径は未だ増えらるる大きさである。今回は16Augから15Sepの観測を扱うが、視直径は16Augで6.0秒角、15Sepで5.5秒角であった。火星の季節はこの間、165°Lsから181°Lsに遷移し、北半球の秋分となっている。中央緯度は22°Nから15°Nに落ちて来ている。位相角も39°から36°へ戻っている。火星は天秤座にあり、視赤緯は南緯12度から南緯18度へと落ちていく。薄明観測に遅刻したり、薄雲が二十分彷徨していたりすると致命的である。

The planet Mars has to be caught in the twilight; if not, it rapidly goes down from our country. Mars is now in Lib and the apparent declination of the planet read -18° in mid-September. The present report deals with the period from 16 August to 15 September 1997. The apparent diameter δ was 6.0 arcsecs on 15 Aug while it went down to 5.5 arcsecs on 15 Sept. The season proceeded from 165°Ls to 181°Ls, the vernal equinox of the northern hemisphere. The central latitude ϕ was 22°N down to 15°N. The phase angle α decreased also from 39° to 36°.

○.....いよいよ終盤だが、この期に関して観測の報告は次の様に掲載した:

We thank the following observers who are still chasing the red planet:

ISHADOH, Hiroshi 伊舎堂 弘 (Id) 那覇 Naha, Okinawa, Japan
7 Drawings (30 Aug; 1, 7, 9, 10, 12 Sp) 530x31cm speculum

IWASAKI, Tohru 岩崎 徹 (Iw) 北九州・小倉 Kita-Kyushu, Japan
11 Drawings (21, 22, 23, 25, 26, 30, 31 Aug; 1, 2, 8, 12 Sp) 400x21cm speculum

MINAMI, Masatsugu 南 政次 (Ma) 福井 Fukui, Japan
34 Drawings (16, 17, 18, 21, 24, 26, 27, 30 Aug; 2, 10, 11, 12 Sp) 480x20cm refractor*

MURAKAMI, Masami 村上 昌己 (Mk) 藤澤 Fujisawa, Kanagawa, Japan
4 Drawings (17, 24* Aug; 1, 11 Sp) 315x10cm refr*/370x15cm speculum

NAKAJIMA, Takashi 中島 孝 (Nj) 福井 Fukui, Japan
10 Drawings (16, 27, 28 Aug; 10, 11 Sp) 480x20cm refractor*
*福井市自然史博物館天文室 Fukui City Observatory

○.....期間外の観測報告としては次の様に掲載している:

We also acknowledge receipt of the reports of the following Deutsche observers: (We are indebted to Wolfgang MEYER for CHs, and to André NIKOLAI for HSO):

HAASE, J Carsten カールステン・ハーゼ (Ch) ベルリン Berlin, Deutschland
1 Drawing (5 Mar) 250x15cm refraktor an der WFS

2 1 5 1

●.....Date: **Thu, 30 Aug 2007 15:19:26 +0200**
Subject: Mars 2007/7/31

Hi, just have the time to proces my images from Mars 2007/7/31 during my summer vacation.

http://www.astrofotografie.nl/mars_2007_7_31.htm

○.....Date: **Fri, 7 Sept 2007 19:29:49 +0200**
Subject: Mercury 2007/8/29

Hi guys, this my first time that I observe Mercury. I see some albedo, but i have a little bit doubt about the details. If i compare it with Dollfus chart it seems that the albedo is Solitudo Neptuni, Solitudes Helii and Solitudo Maiae left (south-west) Solitudo Atlantis and a white spot. Have somebody experience with Mercury?

The CM 241 and image is from 15h45 UT 2007/8/29.

○.....Date: **Sat, 15 Sept 2007 07:56:57 +0200**
Subject: Mars 2007/8/13 RGB

Hi all, Mars from sept.13th. No clouds on this side:

http://www.astrofotografie.nl/mars_2007_9_13.htm

○.....Date: **Wed, 19 Sept 2007 21:00:34 +0200**
Subject: Mars 2007/9/19

Hi Guys, rise and shine this morning for me, to see Mars. Mars 2007/9/19 03h58 UT 280 mm SCT@50, ATK-2HS, Astronomik RGB filter.

<http://www.astrofotografie.nl/Mars.htm>

http://www.astrofotografie.nl/mars_2007_9_19.htm

○.....Date: **Sun, 23 Sept 2007 11:21:19 +0200**
Subject: Mars 2007/9/23 05h00 UT B image

Hi guys, i just out of time but, so i must processe my image this week, here the first B image this morning. Note the NPC is growing fast. Vriendelijke groeten

Richard BOSMAN(リチャルト・ボスマン Enschede阿蘭)

●.....Date: **Thu, 30 Aug 2007 16:32:51 +0900**
Subject: 皆既月食 070828

こんにちは、先日の月食画像です。日本では天気が悪く見えない所もあったそうですが、セブでは何とか薄雲を通して見る事が出来ました。透明度の悪い条件でしたが、楽しむ事はできました。

○.....Date: **Mon, 24 Sept 2007 13:12:41 +0900**
Subject: C-14 組み上げ完了

P赤道儀、セブで作った特製三脚からなる構成で何とか組み上がり、星を見ることが出来ました。C-14鏡筒ともなると外形は大きく、一人で組み上げるには大変な作業になり、住まいのエンジニアの手を借りました。総重量は80kg程度ありますが、キャスターがあり屋上内の移動は簡単です。人へ威圧感を与えるには十分な大きさで現地人は皆、ビックリ仰天しています。光学系に関しては当初、光軸が大幅に狂っていて夕方木星を覗いた時は縞模様さえ見えない状態でした。大まかに副鏡を合わせ直したところ、良く見えるようになりましたので光学系はOKですね。後は筒内気流の対策だけが課題です。また極望がない赤道儀ですので極軸合わせが大変です。良い案があれば教えてください。まだ、組みあがったばかりで細かな調整が必要です。近日中には惑星画像が撮れるものと思っています。

阿久津 富夫(Tomio AKUTSU セブThe Philippines)

●.....Date: **Sat, 8 Sept 2007 21:59:52 -0400 (EDT)**
Subject: Mars Sept. 8, 2007

Attached images from this morning. Forest fires are sending smoke into the Sacramento Valley and coastal areas. Best Wishes,

Ed LOMELI (エド・ロメリ Sacramento CA 美)

●.....Date: **Fri, 31 Aug 2007 02:59:28 +0000**
Subject: Mars 28 Aug.

Hi All, I have attached some images from 28 August. Some bright dust clouds persist, but many albedo features are returning to "normal" appearance. Aurorae Sinus and Protei are very dark. Bright dust persists in Ophir-Candor. The North Polar Hood has become prominent. No SPC detected, but the De is only -3.6 degrees. The southern limb is covered with clouds. Morning limb arc is prominent and is enhanced by dust high in the atmosphere. Best,

○.....Date: **Thu, 06 Sept 2007 23:11:30 +0000**
Subject: Mars 31 August, 3 September

Hi All, I have attached some Mars images from 31 August and 3 September. The albedo features are returning to normal appearance. The NP Hood is prominent. The morning limb arc remains distinct. Best,

○.....Date: **Wed, 12 Sept 2007 03:44:57 +0000**
Subject: Mars 8 September

Hi All, I have attached some Mars images from 8 September. Some dust on the floor of Hellas, but even there some surface details are faintly visible. Otherwise Mars looks fairly normal for the season. Best,

○.....Date: **Wed, 19 Sept 2007 22:43:12 +0000**
Subject: Mars 15 September

Hi All, I have attached some Mars images from 15 September. No obvious dust except in AM limb arc. Details are now visible around the Elysium Shield. Best,

Don PARKER (唐那・派克 Miami FL 美)

●.....Date: **Fri, 31 Aug 2007 04:41:19 -0400**
Subject: Re: Mars 28 Aug.

Wow Don, are you sure that isn't Mercury? :-D It that Ganges stuck off Lunae Lacus? Dust storms sure make a mess.

○.....Date: **Fri, 07 Sept 2007 06:19:24 -0400**
Subject: 2007-09-07-JDB-1

First Mars for 2007. Telescope drive corrector quit, stopped observing of course.

Jeff BEISH (ジエフ・ビッシュ Lake Placid FL 美)

●.....Date: **Sat, 1 Sept 2007 13:29:20 +0200**
Subject: Mars, 1st September 2007

Dear Masami, I send you my first Mars image regarding 2007-08 campaign, to be inserted in the CMO site gallery. Friendly and thanks,

SimoneBOLZONI(シモーネ・ボルツォーニBustoArsizio義)

●.....Date: **Tue, 04 Sept 2007 08:41:21 +0200**
Subject: Meeting on Mars observations

Dear Masatsugu, Yesterday, during the council of Société Astronomique de France, I could meet Roger Ferlet, who is coordinating the organization of the 2009 symposium on Contributions of Amateurs to Astronomy, Nicolas Biver, who is contributing regularly to CMO, and Daniel Crussaire, who is in charge of the repairing of

the Grande Lunette in Meudon. I send them copies of the present message, so that they can correct me if necessary.

The symposium is planned to last for 5 days. The subject becomes something larger like "Astronomy and Society". It would include topics such as "the influence of astronomy in human thought" and "relations of astronomy with media".

Also, the symposium should not take place less than 4 months before or after the General meeting of the International Astronomical Union, which will be held in Brasil in July 2009. Consequently, the date of the symposium should be December 2009, or more probably the beginning of 2009.

For all these reasons, I am afraid that most members of CMO will not be interested to meet in Meudon at the time of the symposium, even though Roger Ferlet suggests that it would give more publicity to your group.

Consequently, according to your indications, I suggested that the meeting of Mars observers should take place in Meudon Observatory in September 2009, with 40 to 50 participants. It would last for 3 days, with the following subjects:

- centenary of the 1909 opposition of Mars (Antonialedi, Flammarion, Barnard, ...);
- on 2007 - 2009 Mars observations in the world;
- contributions of amateurs to the observation of Mars.

R. Ferlet, N. Biver and D. Crussaire agreed that such a meeting can be supported by SAF and Meudon Observatory. N. Biver thinks that it would have rather the same size as the IWCA meeting on Cometary Observations that we organized three years ago. D. Crussaire has some hope that the repairing of the Grande Lunette can be finished at that time. With best wishes.

Francis OGER (フランス・オンジェ *nr* Paris 法)

●.....Date: Tue, 4 Sept 2007 08:47:28 -0400
Subject: Mars - Sept 3, 2007

Gentlemen, With very good seeing and the dust subsiding, several major features can be seen in this image from Monday morning, Sept 3. Hellas is very bright, even in blue light, perhaps dust or clouds?. Syrtis Major and Sinus Sabeanus and Meridian are easily identified.

Best regards,

Bill DICKINSON (ビル・ディキンソン *Glen Allen V* 美)

●.....Date: Tue, 4 Sep 2007 14:21:22 -0500
Subject: Image: 09-04-07 0410UT

Greetings all, Image shows Hellas just about to rotate into night. It appears somewhat dull. I found the small black dot(s) north of Syrtis Major interesting. I didn't see them on images submitted by others that show the area earlier on, last evening. I'm assuming it is Umbra and is dark and distinct at this CM due to it being so close to the evening limb?

<http://marswatch.amaonline.com/09-04-070410.jpg>

Joel WARREN (ジョエル・ウォーレン *Amarillo TX* 美)

●.....Date: Wed, 05 Sept 2007 23:04:40 +0200
Subject: Re: How are you? from Mn

Dear Masatsugu, I'm quite sorry to hear about your

leg/back problem :-// I just hope that my answer will join you before your departure! *Je vous souhaite bonne chance pour l'opération ainsi qu'un prompt rétablissement.* Mars needs you and so do we all.

I've been quite silent lately because the poor weather partially demotivated me, and so I have not been reactive to catch the very few clear mornings. Moreover, I've been quite out of home at night lately - Paris is a nice town to live next to :-)) None the less, that very morning I have been able to observe under fairly good seeing, but the mount of the telescope (EM200 from 高橋) encountered a problem of motor, I'm just wondering if I send it back now or after the Mars opposition, next spring.

About the meeting, I would also support a limited participation to motivated people. Our topics of studies are a bit "specialized" and possibly many people just wouldn't enjoy them completely... With again my best thoughts and wishes, Your friend Christophe

○.....Date: Sat, 08 Sept 2007 14:14:06 +0200
Subject: Mars 5ths september 2007

Hi all, Some images under fair seeing.

<http://www.astrosurf.com/pellier/M070905-CPE>

The contrast in visible light remains weak due to airborne dust, although the storms looks now over. Note here also some "new" albedo features next to Elysium - I think reminiscent of the Viking era ? Regards

○.....Date: Sat, 15 Sept 2007 22:51:18 +0200
Subject: Mars, 12 september 2007

Hi all, Transparency was not good but seeing ok.

<http://www.astrosurf.com/pellier/M070912-CPE>

These images have been taken just a few hours before we cross the martian equatorial plan from south to north so we're perfectly viewing the planet "by the side". We're now facing the northern hemisphere. Note Olympus Mons just near the terminator.

○.....Date: Sun, 23 Sep 2007 16:12:11 +0200
Subject: Mars 23 september 2007

Hi all, Again average conditions. Transparency was not good enough to have a correctly exposed B image even at minimal framerate :

<http://www.astrosurf.com/pellier/M070923-CPE>

Argyre is bright because of fresh dust deposit.

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

●.....Date: Thu, 06 Sept 2007 18:04:55 +0900
Subject: Mars - Sept. 4th UT: Solis Lacus irregular

Dear CMO, Here is a set of Mars images from September 4th UT. Seeing was forecasted to be decent and Solis/Tharsis was in view so I gave it a shot.

Olympus Mons and the Tharsis region are visible. The shape of Solis Lacus looks very irregular, likely due to effects from the dust storm. NPH is prominent.

Hope all is well in Fukui. Clear skies and good seeing,

○.....Date: Thu, 06 Sept 2007 19:23:10 +0900
Subject: Re:

Minami-san, I've been reading the recent CMO updates on the facade. Looks like for the most part the storm is subsiding but will be interesting to see how things develop in the coming weeks. I'm really looking forward to opposition and winter, though the seeing is always a

problem during the winter season of course.

○ *Date: Fri, 07 Sept 2007 18:26:08 +0900*
Subject: RGB Mars 2007/09/04 18:21

Dear CMO, Here is an RGB image of Mars from Sept. 4th taken with the DMK. The NPH and polar clouds came out pretty well using the filters, almost similar to the LU075C capture. Best regards and clear skies.

○ *Date: Sun, 09 Sept 2007 10:35:49 +0900*
Subject: Re: RE:Re:

Dear Minami-san, I wish you a speedy recovery from the nerve-induced pain you are suffering from. I hope they are able to eliminate the problem without the need for major surgery.

I look forward to your Mars reports and observations in the coming weeks. Stay strong.

It was good to catch Solis Lacus and Tharsis on the 4th but probably will be my one set of images for September.

Again take care and best wishes,

○ *Date: Sun, 23 Sept 2007 15:13:52 +0900*
Subject: Mars - 2007/09/21 UT - Syrtis Major

Dear CMO, Here is a Mars image from Sept 21st UT, showing Syrtis Major head-on. Seeing was poor and I am currently unable to image Mars higher than around 56 degrees due to the roof angle, but I gave it a fair attempt.

No dust or clouds visible (except NPH).

Minami-san, I hope all is well these days and I hope you are recuperating from your nerve-induced pain. Hopefully major surgery wasn't necessary as you mentioned last time. Please take care. Best regards,

○ *Date: Mon, 24 Sept 2007 10:25:31 +0900*
Subject: Re: RE:Mars - 2007/09/21 UT - Syrtis Major

Minami-san, Great to hear everything is going a little better these days! I hope the situation continues to improve for you.

Also thank you for the generous comments on my Mars image. It was good to be able to produce a fair image in less than ideal conditions. I think I've come a long way since my initial images back in 2005, in terms of detail and less noise. Thank you as always for the valuable feedback. . . . It is clear that using the IR filter is a big help in poor conditions, as exemplified this time with the Huygens crater. Best regards as always,

Robert HEFFNER (ロバート・ヘフナー 名古屋 Aichi)

● *Date: Sat, 8 Sept 2007 01:31:10 EDT*
Subject: Uranus' observations

Hi all - I hope many of you don't forget about Uranus this year. Now, we are viewing edge-on first time in 42 years. Take advantage of it. Also, it is nice to see Uranus' moons in a straight line just like Jupiter but in sideways.

I have some Uranus observations for the past week posted on my website. The seeing and the sky were mediocre but they came out pretty decently.

<http://hometown.aol.com/frankj12/uranusindex.html>

○ *Date: Thu, 20 Sept 2007 00:50:13 EDT*
Subject: Uranus: September 19, 2007

Hi all - I have posted my latest image of Uranus September 19, 2007.

<http://hometown.aol.com/frankj12/uranusindex.html>

The seeing was nearly perfect. But still, it is hard to make out anything on the disk, even with a Wr. #25 red filter. I think the brightening of the SPR is not as pronounced as before. It is tilting mostly away from us.

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

● *Date: Sun, 9 Sept 2007 13:28:51 -0500*
Subject: Bates Mars Image 09/09/2007

Gentlemen: My apologies for not sending any images for awhile; weather, work, and illness in my wife's family have all conspired to keep me away from the telescope. Last night brought mostly clear skies, hot and humid conditions with intermittent sea fog. The albedo features of Mars seem to be clearer than last time I viewed them, although a general softness remains. Dust? Increased altitude of the planet prior to dawn is also helping to provide steadier seeing conditions. To the naked eye, Mars still seems pale, with less of the normal copper color.

Hope all is well in Japan; keep up the good work on the CMO website. Best to all.

○ *Date: Sun, 16 Sept 2007 22:09:02 -0500*
Subject: Bates Image 09/16/2007

Gentlemen: Image taken last night under a cool morning sky. The weather in Texas is finally cooling somewhat. Mars is a nice companion to Betelgeuse in the moonless sky. All the best,

Don BATES (ドナルド・ベーツ Houston TX 美)

● *Date: Sun, 9 Sept 2007 19:12:13 -0400*
Subject: Mars Observation 2007.9.09

Sir: Please accept this submission of my first Mars observation and sketch for the 2007-08 apparition. With Mars still at such a small apparent diameter, I was fortunate to have very good seeing this morning. Notes follow: Hellas very bright in integrated light (IL) and with W21 (orange) filter. Syrtis Major approaching central meridian (CM). Aeria on following limb appears bright with W21 filter. Slender morning limb haze (MLH). Evening terminator appears shaded. North Polar Hood (NPH) appears small and bluish. Albedo features visible with W80A (blue) filter. Thank you,

Michaël ROSOLINA (マイク・ロソリーナ Friars H WV 美)

● *Date: Mon, 10 Sept 2007 09:17:08 -0500*
Subject: south equatorial belt disturbances

Dear Masatsugu, I am currently working on a planets book--and have arrived at the point where I am writing a chapter on Jupiter. I must admit my attention to this planet has been intermittent for much of the last Jovian year, and I wonder if Asada would mind answering a few questions for me based on his unrivaled knowledge of the planet:

1. The dates and features of the SEB disturbances since that in 1993

2. Any unusual phenomena in other areas of the planet, such as No. Tropical Belt Disturbances, examples of the Circulating current, or outbreaks of NTB spots.

Kind regards,

○.....Date: Wed, 12 Sept 2007 08:57:48 -0500
Subject: Re: South Equatorial Belt Disturbance

Dear Asada-san, I am very pleased to hear from you, and appreciate your clarifications. I also believe that one should restrict the term "SEB disturbance" to an outbreak of activity like in 1975 and 1993 when the SEB undergoes a cycle of revival against a backdrop of white clouds, and the swirling patterns around the GRS do not really qualify. So I was glad to hear of your endorsement of this view.

I am hoping to equip my small observatory (with a C-11 at my disposal) with CCD imaging capability in the near future. I have given up on visual observing of planets like Jupiter where the detail is simply too overwhelming.

I entertain fond memories of my trip through Japan with you and Minami-san and am hoping that something eventuates in Paris in 2009 for all of us to reconvene--I believe the occasion will be the centennial of Antoniadi's great Mars observations with the Grand Lunette.

I hope you and your family are well. With kind regards and best wishes,

Bill SHEEHAN (ウィリアム・シーハン MN 美)

●.....Date: Fri, 14 Sept 2007 11:59:01 +0000
Subject: 博物館だよりの原稿依頼

南様、梅田です。火星観測、および研究報告の原稿は順調でしょうか。

さて、当館で年4回発行している「博物館だよりの」では、県内の自然に関して研究している方々に、その研究内容や面白さなどについて、一般の人にもわかりやすく（自己）紹介していただく「リレーエッセイ」のコーナーを設けています。今回、このリレーエッセイに、例えば、天文台での火星観測について執筆いただきたく、いかがでしょうか？既刊号は、ホームページからも閲覧できます。
<http://www.nature.museum.city.fukui.fukui.jp/shuppan/tayori/tayori.html>

締め切りは、12月5日、発行は1月10日を予定しています。中島先生との共著でも結構です。

火星観測の時期で、お忙しいことと思いますが、もし、可能であれば、ぜひ執筆お願いします。

梅田 美由紀(Miyuki_UMEDA福井自然史博物館)

●.....Date: Tue, 18 Sept 2007 19:27:55 +0200
Subject: Mars 2007.09.11

Hello all, My first image this apparition, and the very first one with my SKYnyx 2-0M, under very average seeing:

<http://astrosurf.com/delcroix/images/planches/me.php?y=2007&m=9&d=11>

○.....Date: Thu, 20 Sept 2007 22:59:46 +0200
Subject: RE: Mars 2007.09.11

Dear Masatsugu & Masami, You're welcome, i'll sure send you my next Mars images, hopefully I'll make more often when it rises earlier.

In case you like to get older images from previous apparition, I a few ones in 2005-2006 available here :

<http://astrosurf.com/delcroix/images/planches/>

Let me know if you would like me to send these directly to you. Regards,

Marc DELCROIX (マルク・デルクロアTournefeuille 法)

●.....Date: Thu, 20 Sept 2007 12:32:20 -0400
Subject: goddess

Hi all - Captured this Wednesday morning:

http://www.avertedimagination.com/img_pages/venus_091907.html

I was startled by the brilliance (Venus reaches it's maximum, -4.8, this week) - had to turn the scope away from Mars to make sure it wasn't a plane headed in my direction. Venus is usually out of reach from my backyard pier location, I haven't shot it often and don't have a UV pass filter. This was recorded in RGB using my A-P 10" mak/cassegrain at f30.

The image was captured on the morning of my 26th wedding anniversary I've dedicated it to the goddess in my life, Donna Massimo, who has always supported my obsession with this hobby! clear skies and best wishes,

Alan FRIEDMAN (アラン・フリードマン NY 美)

☆☆☆

☆ **Kasei-Tsūshin CMO** (Home Page: http://www.mars.dti.ne.jp/~cmo/oaa_mars.html)

『火星通信』 #336 (25 September 2007) 編集：南 政次(Mn)、村上 昌己(Mk)、中島 孝(Nj)
西田 昭徳(Ns)、常間地 ひとみ(Ts)

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発行 Published by/for : 東亜天文学会 OAA 火星課 Mars Section

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