

MARS

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OBSERVATIONS

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WE review here the Mars observations made during the one-month period

from 16 April ($\lambda=059^\circ\text{Ls}$) to 15 May 2008 ($\lambda=072^\circ\text{Ls}$).

During the period the apparent diameter δ went down from 6.3" to 5.3". On 15 May the apparent declination read nearly 21°N so that the planet shines higher at the sunset time seen from the NH, but it goes down rapidly. The central latitude ϕ went largely up from 9°N to 16°N ; the npc is so apparent though its size quite shrank. The phase angle ι decreased from 37° to 34° .

♂.....今回は**16 April 2008 ($\lambda=059^\circ\text{Ls}$)** から **15 May 2008 ($\lambda=072^\circ\text{Ls}$)** までの一ヶ月間の報告である。視直径 δ はこの間6.3"から5.3"に縮小した。15Mayで視赤緯は 21°N で高く、日没前に捉えられるが、完全に西空で釣瓶落としてである。中央緯度 ϕ は 9°N から 16°N と急激に動き、北極冠は縮小しているが、好く見える。位相角 ι は 37° から 34° に落ちてきた。

♂.....This time we received the following reports from a total of 15 observers.

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

5 Sets of RGB + 3 IR Images (29, 30 April 2008) $f/33$ \otimes 36cm SCT with a DMK21AF04

GHOMIZADEH, Sadegh サデグ・ゴミザデ (SGh) 伊朗・德黑蘭 Tehran, Iran

3 Colour + 2 B Images (16, 21, 22 April 2008) $f/37$ \otimes 28cm SCT with a SKYnyx 2-0M

GORCZYNSKY, Peter ピート・ゴルチンスキー (PGc) 康涅狄格 Oxford, CT, USA

6 Sets of RGB Images (16, ~ 19, 23, 25 April 2008)

$f/42$ \otimes 18cm Maksutov-Cassegrain with a DMK21AF04

HIGA, Yasunobu 比嘉 保信 (Hg) 沖縄・那覇 Naha, Okinawa, Japan

9 Colour Images (19, 25, 26 April 2008) 25cm $F/4.8$ spec with ToUcam pro

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

5 Colour Images (17, 22 April; 1, 7, 14 May 2008) $f/50$ \otimes 35cm SCT with a DBK21AF04.AS

MAKSYMOWICZ, Stanislas スタニスラス・マクシモヴィッチ (SMk) 法國 Ecquevilly, France

10 Sets of Drawings (19, 23*, 25*, 30* April; 2, 5**, 7, 8***, 10***, 11*** May 2008)

300 \times ~ 333 \times 15cm spec, 20cm SCT*, 20cm Cass** & 15cm refr***

MELILLO, Frank J フランク・メリッロ (FMI) 紐約 Holtsville, NY, USA

1 Colour + 2 R* Images (17 April 2008) 25cm SCT with a ToUcam pro II & Starlight Xpress*

MELKA, James T ジム・メルカ (JMI) 密蘇里・聖路易斯 St. Louis, MO, USA

1 Colour Image (23 April 2008)

40cm SCT with a DBK21FA01.AS

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

46 Drawings (20, ~ 22, 25, 28, ~ 30 April; 5, ~ 7, 15 May 2008) 400, 600 \times 20cm ED refractor*

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

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

12 Sets of RGB + 12 IR Images (29 April; 3, 6, 11 May 2008) 25cm speculum with a Lu075M

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

8 Drawings (27, 30 April; 6, 7, 15 May 2008) 320×20cm F/8 speculum

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

45 Drawings (20, 21, 25, ~ 30 April; 5, ~ 7, 11, 15 May 2008) 400, 600×20cm ED refractor*

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

NISHITA, Akinori 西田 昭徳 (Ns) あわら Awara, Fukui, Japan

1 Set of RGB + 1 IR Images (29 April 2008) 30cm speculum with a Lu075M

PARKER, Donald C ドン・パーカー (DPk) 佛羅里達・邁阿密 Miami, FL, USA

2 Sets of RGB Images (23 April; 8 May 2008) f/47@41cm F/6 speculum with a SKYnyx 2-0M

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

2 Sets of RGB Images (19 April; 14 May 2008) 32cm speculum with a DMK21AU04.AS

♂..... a) **Hellas**: Passing now the season $\lambda=060^\circ\text{Ls}$, we should be concerned with the trend of Hellas. If the season goes up to around $\lambda=100^\circ\text{Ls}$, Hellas will shine whitish because of a fall of frost and so the period from $\lambda=060^\circ\text{Ls}$ to $\lambda=100^\circ\text{Ls}$ must be important as a preliminary stage of changing. There is also opportunity to watch Hellas in 2010 and 2012 while the tilt ϕ will be too high up to see the interrelation with the south polar hood. Furthermore Hellas does not face always to our fixed station, and hence we should not miss every opportunity. This time Hellas faced to our hemisphere on and after 21 Apr ($\lambda=062^\circ\text{Ls}$, $\phi=10^\circ\text{N}$). On the 21 May day NAKAJIMA (Nj) and MINAMI (Mn) at Fukui chased the evening Hellas at $\omega=346^\circ\text{W}(Mn)$, $351^\circ\text{W}(Nj)$, $355^\circ\text{W}(Mn)$, $000^\circ\text{W}(Nj)$, $005^\circ\text{W}(Mn)$, $010^\circ\text{W}(Nj)$, $015^\circ\text{W}(Mn)$, $020^\circ\text{W}(Nj)$ and on 22 Apr ($\lambda=062^\circ\text{Ls}$) Mn watched from $\omega=336^\circ\text{W}$ to $\omega=015^\circ\text{W}$ every 40 minutes: The southern part of the evening Hellas was fully whitish light because of an evening misty matter and as it approached the limb it became difficult to distinguish it from the mist floating at the spr. On 25 Apr ($\lambda=063^\circ\text{Ls}$, $\phi=11^\circ\text{N}$). HIGA (Hg) at Okinawa took ccd pictures at $\omega=338^\circ\text{W}$, 343°W which look to show the evening cloud. On 26 Apr ($\lambda=064^\circ\text{Ls}$, $\phi=11^\circ\text{N}$), Hg also produced images at $\omega=320^\circ\text{W}$, 330°W , 340°W , 346°W where the cloud looks to belong to the spr especially on the first two occasions. On 29 Apr ($\lambda=065^\circ\text{Ls}$, $\phi=12^\circ\text{N}$), MORITA (Mo) and AKUTSU (Ak) took the images in the following way: $\omega=279^\circ\text{W}(Mo)$, $284^\circ\text{W}(Ak)$, $284^\circ\text{W}(Mo)$, $294^\circ\text{W}(Mo)$, $299^\circ\text{W}(Ak)$, $303^\circ\text{W}(Mo)$. Already Hellas belonged to the morning side, and they all prove that Hellas does not shape even in IR. The B images however suggest that the spr is occupied by a thicker mist and invades the southern part of Hellas. The evening Ausonia is light however. On 28 Apr ($\lambda=065^\circ\text{Ls}$, $\phi=12^\circ\text{N}$), 29 Apr ($\lambda=065^\circ\text{Ls}$, $\phi=12^\circ\text{N}$), and 30 Apr ($\lambda=066^\circ\text{Ls}$, $\phi=12^\circ\text{N}$), Nj and Mn chased the angles between $\omega=262^\circ\text{W}$ and $\omega=330^\circ\text{W}$, and especially watched every day (repeated three times) the angles at $\omega=276^\circ\text{W}(Mn)$, $281^\circ\text{W}(Nj)$, $286^\circ\text{W}(Mn)$, $291^\circ\text{W}(Nj)$, $296^\circ\text{W}(Mn)$, $301^\circ\text{W}(Nj)$, $306^\circ\text{W}(Mn)$: The evening limb side is lighter but the morning Hellas is dull and the shape remained obscure. However the northern part had a slight mist and the southern part or the circumpolar region looked mistier. Even after $\omega=306^\circ\text{W}$, the evening limb preceding Libya was brighter than Hellas. We should note that the mist or cloud at the spr (the south pole is however invisible) looked more evident than that inspected on Mo's and Ak's ccd images. At $\omega=315^\circ\text{W}(Mn)$ on 28 Apr and 29 Apr, it was like a light patch. On 30 Apr ($\lambda=066^\circ\text{Ls}$, $\phi=12^\circ\text{N}$), Ak produced good images at $\omega=274^\circ\text{W}$, 279°W , 286°W where Hellas' contour is invisible. Just the B images suggest a protrusion of the spr. MURAKAMI (Mk) also observed visually on the same day at $\omega=272^\circ\text{W}$, 282°W , 291°W : The morning Hellas did not figure out first but he thought it gradually became lighter a bit. Our observations were not inclusive, but we may say the frost on Hellas did

not fully lay down. However we must take account of the fact the phase angle was higher: $\iota=36^\circ$. The morning shadowy Hellas was already shot successively by GORCZYNSKI (*PGc*) on 16 Apr ($\lambda=059^\circ\text{Ls}$) at $\omega=277^\circ\text{W}$, on 17 Apr ($\lambda=060^\circ\text{Ls}$) at $\omega=267^\circ\text{W}$, on 18 Apr ($\lambda=060^\circ\text{Ls}$) at $\omega=269^\circ\text{W}$, and on 19 Apr ($\lambda=061^\circ\text{Ls}$) at $\omega=259^\circ\text{W}$. See also MELILLO (*FMI*)'s work on 17 Apr ($\lambda=060^\circ\text{Ls}$) at $\omega=262^\circ\text{W}-285^\circ\text{W}$. The morning shadowy Hellas was also shot by KIDD (*SKd*) on 14 May ($\lambda=072^\circ\text{Ls}$) at $\omega=274^\circ\text{W}$. On the other hand, the evening Hellas must already have been taken by *SKd* on 7 May ($\lambda=069^\circ\text{Ls}$) at $\omega=340^\circ\text{W}$, but no trace of it because of a lack of white colour. However on the same day MAKSYMOWICZ (*SMk*) observed visually at $\omega=353^\circ\text{W}$, 003°W , and depicted the Hellas evening cloud or reflection. Furthermore WALKER (*SWk*) shot on 14 May ($\lambda=072^\circ\text{Ls}$) at $\omega=349^\circ\text{W}$, but Hellas was not conspicuous in B. One drawing by *SMk* on 11 May ($\lambda=071^\circ\text{Ls}$) at $\omega=305^\circ\text{W}$ however shows Hellas largely. As to the general behaviour of Hellas at the same season on the occasion of the 1992/93 apparition (at opposition on 7 Jan 1993), we just mention that Hellas faced to Japan at $\lambda=064^\circ\text{Ls}-067^\circ\text{Ls}$ in mid-April 1993 ($\iota=37^\circ$, $\phi=11^\circ\text{N}$). For example one of us (*Mn*) observed on 9 Apr 1993, 10 Apr 1993 ($\lambda=064^\circ\text{Ls}$) that the evening Hellas was quite light near the limb, while on 17 Apr 1993 ($\lambda=067^\circ\text{Ls}$) at $\omega=280^\circ\text{W}$ he recorded that Hellas was rather shadowy. This was also the same in March 1993 at around $\lambda=050^\circ\text{Ls}$. In Feb 1995, at the opposition time, Hellas from $\lambda=060^\circ\text{Ls}$ came to us, but $\phi=18^\circ\text{N}$ and Hellas was near the southern limb. The limb was bright but the inside looked dull though the boundary was rather clear because of the interrelation with Yaonis Fr. At that time, *Mo* was active by the use of TP2415: As an example of the morning Hellas, he produced an RGB set on 22 Feb 1995 ($\lambda=062^\circ\text{Ls}$) at $\omega=262^\circ\text{W}$ or 269°W whose B (B390) image either does not show well Hellas. (A review of the world-wide observations of Hellas during the period from $\lambda=062^\circ\text{Ls}$ to 128°Ls in 1995 was once given in CMO #174 (25 Apr 1996 issue).)

b) Brightness of Elysium and Cebrenia: Every image of *PGc* from 16 Apr ($\lambda=059^\circ\text{Ls}$) at $\omega=277^\circ\text{W}$, 17 Apr ($\lambda=060^\circ\text{Ls}$) at $\omega=267^\circ\text{W}$, 18 Apr ($\lambda=060^\circ\text{Ls}$) at $\omega=269^\circ\text{W}$, and on 19 Apr ($\lambda=061^\circ\text{Ls}$) at $\omega=259^\circ\text{W}$ nicely shows that the evening Elysium and Cebrenia are bright in a Y-like shape pinching the Ætheria dark patch. This was still suggested in *Mo*'s images at $\omega=279^\circ\text{W}$, 284°W and *Ak*'s at $\omega=284^\circ\text{W}$ on 29 Apr ($\lambda=065^\circ\text{Ls}$), while *Mo*'s images on 3 May ($\lambda=067^\circ\text{Ls}$) at $\omega=240^\circ\text{W}$, 245°W , 253°W , 255°W , 265°W clearly showed the phenomenon again. Refer also to *Mo*'s images on 6 May ($\lambda=068^\circ\text{Ls}$) at $\omega=217^\circ\text{W}$, 226°W . This was *déjà vu*, for example in Japan in April and May 1982 (around $\lambda=110^\circ\text{Ls}$ and $\lambda=125^\circ\text{Ls}$ respectively), and in April and May 1984 (around $\lambda=140^\circ\text{Ls}$ and $\lambda=155^\circ\text{Ls}$ respectively) and also in July 1984 (around $\lambda=170^\circ\text{Ls}$). This was also evident in Feb 1995 (around $\lambda=064^\circ\text{Ls}$) on in March 1997 (around $\lambda=090^\circ\text{Ls}$). For example *Mo*'s TP photo on 24 Feb 1995 ($\lambda=063^\circ\text{Ls}$) at $\omega=247^\circ\text{W}$ clearly shows it in Int. The case of the bright Cebrenia as reported in the preceding issue (#16), ie the case of *SWk* on 14 Apr ($\lambda=058^\circ\text{Ls}$) at $\omega=281^\circ\text{W}$ or of MELKA (*JMI*) on 15 Apr ($\lambda=059^\circ\text{Ls}$) at $\omega=298^\circ\text{W}$ must belong to the same brightening. Once in the 1996/97 apparition, one of us (*Mn*) observed on 29 Dec 1996 ($\lambda=058^\circ\text{Ls}$, $\delta=7.9''$ before opposition) at $\omega=233^\circ\text{W}$, 243°W , 253°W , 263°W , 272°W that Cebrenia was bright on the afternoon side, and finally on the day judged and noted that it must have been a polar dust cloud, but on the following 30 Dec 1996 at $\omega=243^\circ\text{W}$, 253°W , he recognised that it was not so bright as any entrained dust, but looked having such a pinkish tint that it must be ground-lit. At that time $\iota=36^\circ$, but opposite to this time, and $\phi=24^\circ\text{N}$ so that the npr was very faced to us.

c) Excellent Images of Elysium: We received at least two excellent sets of ccd images this time: One is a set of images made by *SWk* on 19 Apr ($\lambda=061^\circ\text{Ls}$) at $\omega=237^\circ\text{W}$ which is quite detailed despite $\delta=6.2''$. It shows Elysium Mons in R as well as a mist distribution from Elysium to the morning terminator (near the coming Syrtis Mj?) in B. The B also shows that a cloudy matter looks to be overflowed from the npc. Otherwise Valhalla is evident. Elysium and Cebrenia are not yet bright, but on the aforementioned images of *PGc* which were taken one hour &

half after at $\omega=259^\circ\text{W}$ they are light. Another excellent set of images was issued by *DPk* on 23 Apr ($\lambda=062^\circ\text{Ls}$) at $\omega=203^\circ\text{W}$ where Elysium is located on the more morning side and full of a morning mist. Phlegra is described rather dark as well as Propontis I. At the evening limb Olympus Mons is bright. On the day there obtained images by *PGc* at $\omega=205^\circ\text{W}$ and by *JMI* at $\omega=218^\circ\text{W}$: Cebrenia is broad and bright. See also *PGc*'s set of images on 25 Apr ($\lambda=063^\circ\text{Ls}$) at $\omega=192^\circ\text{W}$ and *Mo*'s on 11 May ($\lambda=070^\circ\text{Ls}$) at $\omega=171^\circ\text{W}$. **d) Mist Flow along the Equatorial Band:** A broad stream of mist along the equatorial band (ebm) looks visible on *Ak*'s images on 29 Apr ($\lambda=065^\circ\text{Ls}$) at $\omega=284^\circ\text{W}$, 299°W . The reason that *Ak*'s images on the following day shows a greenish Syrtis Mj maybe due to an ebm. *Mn* felt an ebm on the occasion of the session on 30 Apr ($\lambda=066^\circ\text{Ls}$) at $\omega=276^\circ\text{W}$: Syrtis Mj was still weak and less dense than Utopia. *SMk* felt also a candidate of the ebm on 2 May ($\lambda=067^\circ\text{Ls}$) at $\omega=046^\circ\text{W}$ (by the use of *Wr#82A*). *DPk* depicted an apparent ebm on 8 May ($\lambda=069^\circ\text{Ls}$) at $\omega=059^\circ\text{W}$ across Chryse and with a thicker part at the morning Tharsis. Tempe also shows a stream of mist. **e) The Area of M Acidalium:** Images where M Acidalium is shown are given by *Hg* on 19 Apr ($\lambda=061^\circ\text{Ls}$) at $\omega=043^\circ\text{W}$, 053°W , 063°W , by *GHOMIZADEH (SGh)* on 21 Apr ($\lambda=062^\circ\text{Ls}$) at $\omega=099^\circ\text{W}$, and by *SKd* on 1 May ($\lambda=066^\circ\text{Ls}$) at $\omega=039^\circ\text{W}$. On *SGh*'s image from 21 Apr ($\lambda=062^\circ\text{Ls}$) the Argyre cloud is visible. One of the best images of M Acidalium was given by the above-mentioned *DPk*'s set on 8 May ($\lambda=069^\circ\text{Ls}$) at $\omega=059^\circ\text{W}$: There is shot a dusty light stream at the northern part of M Acidalium. The Argyre cloud must be away or must have disappeared.

♂.....**a) ヘッラス:** $\lambda=060^\circ\text{Ls}$ を過ぎるとヘッラスが氣になるところである。 $\lambda=100^\circ\text{Ls}$ 臺になるとヘッラスの霜が朝から夕方まで南極冠と見紛う許りに白く輝くのであるが、その前哨が必要という譯である。2010年、2012年にも機会があるが、 ϕ が上がってしまい、南極雲との絡みが難しくなる。それに、ヘッラスの見える期間は限られるので、出来るだけ機会を多くした方が好い譯である。今回、夕方のヘッラスは日本の経度からは21Apr($\lambda=062^\circ\text{Ls}$, $\phi=10^\circ\text{N}$)頃から見えてきた。同日福井(Nj氏&Mn)では $\omega=346^\circ\text{W(Mn)}$ 、 351°W(Nj) 、 355°W(Mn) 、 000°W(Nj) 、 005°W(Mn) 、 010°W(Nj) 、 015°W(Mn) 、 020°W(Nj) と追い、22Apr($\lambda=062^\circ\text{Ls}$)にはMnが $\omega=336^\circ\text{W}$ から $\omega=015^\circ\text{W}$ 迄 10°W 刻みで追ったが、夕方のヘッラス南部は充分に白く明るく、夕端に近づくと聯れて、南極を支配し始めている霧との区別が附かなくなる。従ってヘッラスも夕雲であろうと思われる。25Apr($\lambda=063^\circ\text{Ls}$, $\phi=11^\circ\text{N}$)には沖繩の比嘉(Hg)氏が $\omega=338^\circ\text{W}$ 、 343°W で夕方のヘッラスを撮っているが、雲が出ている。翌26Apr($\lambda=064^\circ\text{Ls}$, $\phi=11^\circ\text{N}$)にもHg氏が $\omega=320^\circ\text{W}$ 、 330°W 、 340°W 、 346°W と撮り、前二者ではヘッラスの雲というより極雲に近い位置を占めている様に思われる。29Apr($\lambda=065^\circ\text{Ls}$, $\phi=12^\circ\text{N}$)には森田(Mo)氏と阿久津(Ak)氏が $\omega=279^\circ\text{W (Mo)}$ 、 284°W(Ak) 、 284°W(Mo) 、 294°W(Mo) 、 299°W(Ak) 、 303°W(Mo) と撮ったが、既にヘッラスは朝方の領域に入り、IRでもヘッラスが暗く形を成さないことが好く証明されている。但し、B光では南極地方の霧が可成りヘッラスの南部を侵しているように見える。また夕方のアウソニアの方には照り返しがある。28Apr($\lambda=065^\circ\text{Ls}$, $\phi=12^\circ\text{N}$)、29Apr($\lambda=065^\circ\text{Ls}$, $\phi=12^\circ\text{N}$)、30Apr($\lambda=066^\circ\text{Ls}$, $\phi=12^\circ\text{N}$)には福井(Nj氏&Mn)で $\omega=262^\circ\text{W}$ から $\omega=330^\circ\text{W}$ の範囲で観測したが、特にこの三日間共通して $\omega=276^\circ\text{W(Mn)}$ 、 281°W(Nj) 、 286°W(Mn) 、 291°W(Nj) 、 296°W(Mn) 、 301°W(Nj) 、 306°W(Mn) を連日押さえた。夕方方面は明るい、朝方のヘッラスは形状がハッキリしない。但し、北部にも稍霧があるようで、切れ込みが見えないことはないが、南極に近い部分の方がより霧状に見える。 $\omega=306^\circ\text{W}$ 以降になっても、ヘッラスよりリビュアの東の夕端の方が遙かに明るい。尚、南極(そのものは見えない)に存在する霧状のものはccdに出ているものより明るい様に思う。28Apr、29Aprの $\omega=315^\circ\text{W(Mn)}$ では核を持つように明るく見えている。30Apr($\lambda=066^\circ\text{Ls}$, $\phi=12^\circ\text{N}$)にはAk氏が $\omega=274^\circ\text{W}$ 、 279°W 、 286°W で良像を得ている。矢張りヘッラスの輪郭は出ない。Bでは南極が飛び出しているように見える。また、村上(Mk)も同日 $\omega=272^\circ\text{W}$ 、 282°W 、 291°W で観測した。朝方のヘッラスは区別が附かないが、後半の方が明るいように見ている。結論としては、まだ霜は充分に出ていないと思われる。但し位相角は $i=36^\circ$ と可成り高い。尚、朝方

の暗いヘッラス像は既に、ゴルチンスキ(PGc)氏が16Apr($\lambda=059^\circ\text{Ls}$) $\omega=277^\circ\text{W}$ 、17Apr($\lambda=060^\circ\text{Ls}$) $\omega=267^\circ\text{W}$ 、18Apr($\lambda=060^\circ\text{Ls}$) $\omega=269^\circ\text{W}$ 、19Apr($\lambda=061^\circ\text{Ls}$) $\omega=259^\circ\text{W}$ と連続して追っている。またメリッロ(FMI)氏には17Apr($\lambda=060^\circ\text{Ls}$)に $\omega=262^\circ\text{W}\sim 285^\circ\text{W}$ の像がある。何れも像が小さいが、上の観測に抵触しない。朝方のヘッラスはキッド(SKd)氏も14May($\lambda=072^\circ\text{Ls}$)に $\omega=274^\circ\text{W}$ で撮っているが、暗い。一方、夕方のヘッラス域はSKd氏の7May($\lambda=069^\circ\text{Ls}$) $\omega=340^\circ\text{W}$ に寫っている筈である。然し、SKd氏の像は白色に欠けて不明である。同日、マクシモヴィッツ(SMk)氏の $\omega=353^\circ\text{W}$ 、 003°W のスケッチにはヘッラスが出ていられるので、矢張り夕雲か照り返しがあったと思う。更に、14May($\lambda=072^\circ\text{Ls}$)にウォーカー(SWk)氏が $\omega=349^\circ\text{W}$ を撮ったが、ここでもヘッラスはBでも明白ではない。但し、11May($\lambda=071^\circ\text{Ls}$) $\omega=305^\circ\text{W}$ のSMk氏のスケッチで可成り大きく出ている。尚、この季節の過去のヘッラスについて、未だ充分調べが附かないが、2007/08年接近とよく似た1992/93年接近(7Jan1993衝)には1993年四月中旬 $\lambda=064^\circ\text{Ls}\sim 067^\circ\text{Ls}$ でヘッラスが日本に向いている($i=37^\circ$ 、 $\phi=11^\circ\text{N}$)。9Apr1993、10Apr1993($\lambda=064^\circ\text{Ls}$)邊りでは夕方のヘッラスが可成り明るいとし、17Apr1993($\lambda=067^\circ\text{Ls}$) $\omega=280^\circ\text{W}$ でヘッラスは寧ろ shadowy と記録している(Mn)。これは三月の $\lambda=050^\circ\text{Ls}$ 邊りでも同じである。1995年の二月の衝の頃には $\lambda=060^\circ\text{Ls}$ で面するが、この場合には、 $\phi=18^\circ\text{N}$ でヘッラスは可成り上に追いやられている。リムは明るい、本體は dull である。然し、境界は當時のヤオニス・フレトゥムとの絡みで割とハッキリしている。この時期はMo氏が精力的にTP2415で撮像したが、朝方の像としては例えば22Feb1995($\lambda=062^\circ\text{Ls}$) $\omega=262^\circ\text{W}$ 、 269°W のB光像ではヘッラスは殆ど出ていない。(1994/1995期のヘッラスの world-wide な観測についてはCMO#174(25Apr1996號)に羅列してあるので参照されたい。) **b) エリュシウムとケブレニアの明帯** : 先に引用したPGc氏の16Apr($\lambda=059^\circ\text{Ls}$) $\omega=277^\circ\text{W}$ 、17Apr($\lambda=060^\circ\text{Ls}$) $\omega=267^\circ\text{W}$ 、18Apr($\lambda=060^\circ\text{Ls}$) $\omega=269^\circ\text{W}$ 、19Apr($\lambda=061^\circ\text{Ls}$) $\omega=259^\circ\text{W}$ の何れの畫像にもエリュシウムとケブレニアがアエテリアの暗斑を挟んでY字型に明るく出ている。これは29Apr($\lambda=065^\circ\text{Ls}$)のMo氏の $\omega=279^\circ\text{W}$ 、 284°W やAk氏の $\omega=284^\circ\text{W}$ にも窺えるが、3May($\lambda=067^\circ\text{Ls}$)のMo氏の $\omega=240^\circ\text{W}$ 、 245°W 、 253°W 、 255°W 、 265°W の像に顕著に出ている。Mo氏の6May($\lambda=068^\circ\text{Ls}$) $\omega=217^\circ\text{W}$ 、 226°W も参照。こうした光景は(全部調べ切った譯ではないが)1982年四月($\lambda=110^\circ\text{Ls}$ 邊り)や五月($\lambda=125^\circ\text{Ls}$ 邊り)、1984年四月($\lambda=140^\circ\text{Ls}$ 邊り)や五月($\lambda=155^\circ\text{Ls}$ 邊り)にも捉えられ、七月($\lambda=170^\circ\text{Ls}$ 邊り)でも見える。1995年の二月($\lambda=064^\circ\text{Ls}$ 邊り)や1997年の三月($\lambda=090^\circ\text{Ls}$ 邊り)でも見慣れたものであり、記憶にも濃い。Mo氏のTP写真では例えば、24Feb1995($\lambda=063^\circ\text{Ls}$) $\omega=247^\circ\text{W}$ で明白である。先のレポート(#16)で報告した様な14Apr($\lambda=058^\circ\text{Ls}$) $\omega=281^\circ\text{W}$ のSWk氏の像と15Apr($\lambda=059^\circ\text{Ls}$) $\omega=298^\circ\text{W}$ のメルカ(JMI)氏の像に出ているケブレニアの明斑はこの片割れだと思われる。但し、筆者の一人(Mn)は1996/97接近の衝前29Dec1996($\lambda=058^\circ\text{Ls}$ 、 $\delta=7.9''$) $\omega=233^\circ\text{W}$ 、 243°W 、 253°W 、 263°W 、 272°W で同じ様なケブレニア明斑を夕縁近くで観測し、最終的に黄塵ではないかとノートしているのであるが、翌30Dec1996の $\omega=243^\circ\text{W}$ 、 253°W では然程(出来たての黄塵ほど)明るくなく、ピンク色の明帯で地肌かと考えているようである。尚、この時は $i=36^\circ$ だが、現在とは反対側であり、 ϕ は 24°N で北極域はグッとこちらを向いている。 **c) エリュシウムの良像** : 今回、エリュシウムの良像が二セットある。一つはエリュシウムのお昼を撮ったSWk氏の19Apr($\lambda=061^\circ\text{Ls}$ 、 $\delta=6.2''$) $\omega=237^\circ\text{W}$ の像で、不思議なほど詳細が寫っている。エリュシウム・モンズが出ていると思われるし、エリュシウム南部から朝方に霧が出ている様である。シュルティス・マイヨルが出るところであろうか。北極冠の近くにも雲が溢れている。その他ワルハッラが明確である。エリュシウムとケブレニアは未だ朝口か然程明るくないが、一時間半ほど後の像が先ほど採り上げたPGc氏の19Apr($\lambda=061^\circ\text{Ls}$) $\omega=259^\circ\text{W}$ の像である。もう一枚の良像は、唐那・派克(DPk)氏の23Apr($\lambda=062^\circ\text{Ls}$) $\omega=203^\circ\text{W}$ でエリュシウムがもっと朝方であり、ここではエリュシウム一杯に白霧が漂っている。プレグラが稍濃く描寫され、プロポンティスIが著しい。夕端にはオリュムプス・モンズの夕雲が出ているようである。この日にはPGc氏の $\omega=205^\circ\text{W}$ とJMI氏の $\omega=218^\circ\text{W}$ の像がある。ケブレニアが太く明るく東西に走っている。PGc氏の25Apr($\lambda=063^\circ\text{Ls}$) $\omega=192^\circ\text{W}$ 、Mo氏の11 May ($\lambda=070^\circ\text{Ls}$) $\omega=171^\circ\text{W}$ も参照。 **d) 赤道帯霧** : Ak

氏の29Apr($\lambda=065^\circ\text{Ls}$) $\omega=284^\circ\text{W}$ 、299 $^\circ\text{W}$ には赤道帯に霧の流れ(ebm)が出ているように思われる。30Aprの像でシュルティス・マイヨルが緑色になるのもその所為かと思われる。Mnは30Apr($\lambda=066^\circ\text{Ls}$) $\omega=276^\circ\text{W}$ のセッション中にebmを感じた。シュルティス・マイヨルは未だ朝方で明確だが弱く、ウトピアの方が濃い。SMk氏は2May($\lambda=067^\circ\text{Ls}$) $\omega=046^\circ\text{W}$ で、不完全ながらebmを感じているようである(Wr#82A使用)。少し違った角度でDPk氏は8May($\lambda=069^\circ\text{Ls}$) $\omega=059^\circ\text{W}$ で朝方のタルシスに濃いebmをクリュセを横切って寫し込んでいる。この像にはテムペ邊りにも霧の帯がある。e) マレ・アキダリウム周辺：マレ・アキダリウムを寫し込んだ像にはHg氏の19Apr($\lambda=061^\circ\text{Ls}$) $\omega=043^\circ\text{W}$ 、053 $^\circ\text{W}$ 、063 $^\circ\text{W}$ の他、ゴミザーデ(SGh)氏の21Apr($\lambda=062^\circ\text{Ls}$) $\omega=099^\circ\text{W}$ 、SKd氏の1May($\lambda=066^\circ\text{Ls}$) $\omega=039^\circ\text{W}$ 等がある。SGh氏の像にはアルギュレ雲が出ているようである。マレ・アキダリウムの最も鮮明な像は先ほど引用のDPk氏の8May($\lambda=069^\circ\text{Ls}$) $\omega=059^\circ\text{W}$ で、マレ・アキダリウムの北部に黄塵らしい切れ込みが撮し込まれている。アルギュレの雲は向こうへ行ったか弱くなった様に見える。

♂……追加報告：We Further Received the following observations which were produced before 16 Apr.

GRAHAM, David デイヴィッド・グレアム (DGh) 英國・北約克夏 Catterick, N Yorkshire, UK

1 Drawing (13 April 2008) 390×23cm Maksutov Cassegrain

HIGA, Yasunobu 比嘉 保信 (Hg) 沖縄・那覇 Naha, Okinawa, Japan

3 Colour Images (14, 15 April 2008) 25cm F4.8 spec with ToUcam pro

PARKER, Donald C ドン・パーカー (DPk) 佛羅里達・邁阿密 Miami, FL, USA

1 Set of RGB Images (12 April 2008) f/47@41cm F/6 speculum with a SKYnyx 2-0M

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

6 Sets of RGB Images + 3 R Images (3/4, 5, 6, 7 February 2008)

f/50@25cm Dall-Kirkham (with a SKYnyx 2-0M) at the Keys, FL, USA

The drawing of DGh was taken at $\omega=233^\circ\text{W}$ on 13 Apr ($\lambda=058^\circ\text{Ls}$) where the npc is evident. Hg's images were taken on 14 Apr ($\lambda=058^\circ\text{Ls}$) at $\omega=084^\circ\text{W}\sim 091^\circ\text{W}$, and on 15 Apr ($\lambda=059^\circ\text{Ls}$) at $\omega=072^\circ\text{W}$. DPk's set of images was taken at $\omega=310^\circ\text{W}$ on 12 Apr ($\lambda=058^\circ\text{Ls}$) where Hellas was at the afternoon side: This is valuable since Hellas's some northern part looks bare and the southern part to the spr is evening cloudy. An ebm is also shot. Six sets of DPc's images were given by the use of DPk's Meulon at a Star Party in Florida, and those given on 5 Feb ($\lambda=028^\circ\text{Ls}$, $\delta=11.6''$) at $\omega=246^\circ\text{W}$, 251 $^\circ\text{W}$, 261 $^\circ\text{W}$ show well a lit area inside Vastitas Borealis to the east of Utopia. This was also shot (slightly differently) on WALKER (SWk)'s set of images on 4 Feb ($\lambda=027^\circ\text{Ls}$) at $\omega=260^\circ\text{W}$, and must have been an aftermath of the dust disturbance imaged by FERNÁNDEZ GÓMEZ (FFn) on 22 Jan ($\lambda=021^\circ\text{Ls}$) at $\omega=263^\circ\text{W}$ and so on. DPc's images (especially excellent B) also quite clearly show a trend of the afternoon cloud at Elysium Mons (the first one was taken soon after noon). DPc's B image on 7 Feb ($\lambda=018^\circ\text{Ls}$) at $\omega=191^\circ\text{W}$ clearly shows the evening cloud of Olympus Mons as well as a long cloud belt to the south of Propontis I.

D Gh氏のスケッチは13Apr($\lambda=058^\circ\text{Ls}$) $\omega=233^\circ\text{W}$ でのもの、Hg氏の畫像は14Apr($\lambda=058^\circ\text{Ls}$)が $\omega=084^\circ\text{W}\sim 091^\circ\text{W}$ 、15Apr($\lambda=059^\circ\text{Ls}$)が $\omega=072^\circ\text{W}$ のものである。DPk氏の12Apr($\lambda=058^\circ\text{Ls}$)は $\omega=310^\circ\text{W}$ で撮られていて、ヘッラスが午後であるが、北部が裸で、南部から南極に掛けて雲が出ている畫像で貴重である。ebmも寫っている。DPc氏の六枚のセットはフロリダでのスター・パーティーでDPk氏のMeulonを使って得られたもので、5Feb($\lambda=028^\circ\text{Ls}$, $\delta=11.6''$) $\omega=246^\circ\text{W}$ 、251 $^\circ\text{W}$ 、261 $^\circ\text{W}$ にはエリュシウム・モンスの夕雲も鮮やかで、最初のもは午後に入って直ぐである。その他、ウトピア以東のワスティタス・ボレアリスに明るくなっている部分がある。これは前日のウォーカー(SWk)氏の4Feb($\lambda=027^\circ\text{Ls}$) $\omega=260^\circ\text{W}$ に見えるものと同じであろうと思われるが、22Jan($\lambda=021^\circ\text{Ls}$) $\omega=263^\circ\text{W}$ のフェルナンデス(FFn)氏以来の黄塵の後遺症であろうか。DPc氏の7Feb($\lambda=018^\circ\text{Ls}$) $\omega=191^\circ\text{W}$ (B光)には夕方のオリュムプス・モンスの雲が鮮やかで、またプロポンティスIの南に沿って雲帯が出ている。

♂..... In the next issue we shall review the observations made during one month period from 16 May ($\lambda=072^\circ\text{Ls}$, $\delta=5.3''$) to 15 June 2008 ($\lambda=086^\circ\text{Ls}$, $\delta=4.7''$).

南 政 次 · 村 上 昌 己 M MINAMI & M MURAKAMI

便 り

Letters to the Editor

●..... **Date: Thu, 24 Apr 2008 10:44:56 +0100**
Subject: Solar images from 23rd April

Hi all, Here are some solar images from the 23rd April. The attached collage thumbnail is intended to be viewed at a larger scale which you can do by clicking the link below.

http://www.digitalsky.org.uk/solar/2008/2008-04-23_11-18-14_SVF70ss_1200.jpg

○..... **Date: Fri, 25 Apr 2008 10:09:38 +0100**
Subject: Full disk mosaic from April 24th 2008

Hi all, A rather ambitious endeavour on the 24th led to the construction of this 126 frame solar mosaic. This is presented at 50% linear size (i.e. 1/4 the original's area).

Apologies it's rather large at 0.5Mb but rest assured, I won't be doing another one for a while! Best regards,

○..... **Date: Fri, 25 Apr 2008 11:17:01 +0100**
Subject: Re: Full disk mosaic from April 24th 2008

Apologies, I knew I'd forget something! The image sent is L-R reversed. A corrected version is available here:

http://www.digitalsky.org.uk/solar/2008/2008-04-24_11-33-26_SVF70ss-flat15-final_50Pcnt.jpg

○..... **Date: Sat, 26 Apr 2008 10:29:32 +0100**
Subject: Re: Full disk mosaic from April 24th 2008

As I've had a number of requests to see the full size version. This is available online from the link below. Beware that it's 1.5Mb in size.

http://www.digitalsky.org.uk/solar/2008/2008-04-24_11-33-26_SVF70ss-flat15-final.jpg

○..... **Date: Tue, 29 Apr 2008 17:50:53 +0100**
Subject: Solar activity, April 29th

Hi all, A weather challenged day in the UK with an unexpected gap late morning. The main surface activity was a bright plage laden region with a faint filament, a disturbed region close to the western limb and a prominent dark filament in the south-western 'corner'.

An interesting, but deliciously delicate prominence was recorded on the eastern limb. The full size version of the attached collage can be seen here:

http://www.digitalsky.org.uk/solar/2008/2008-04-29_11-05-29_SVF70ss_flat.jpg

○..... **Date: Thu, 01 May 2008 10:04:10 +0100**
Subject: Prominent alert - May 1st

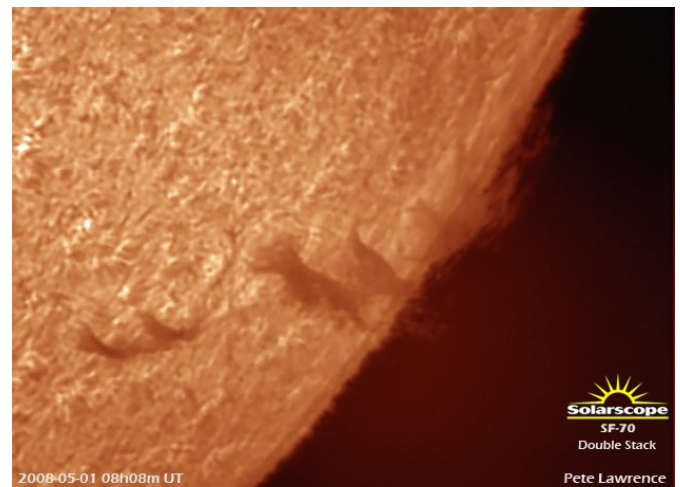
Hi all, The dark filament that's been edging ever closer to the south-western limb has now reached position and is starting to go over, turning into a prominence as it goes. Here's a quick grab from this morning's run...

Best regards,

○..... **Date: Thu, 01 May 2008 22:35:50 +0100**
Subject: Limb crossing filament, May 1st 2008 (part 2)

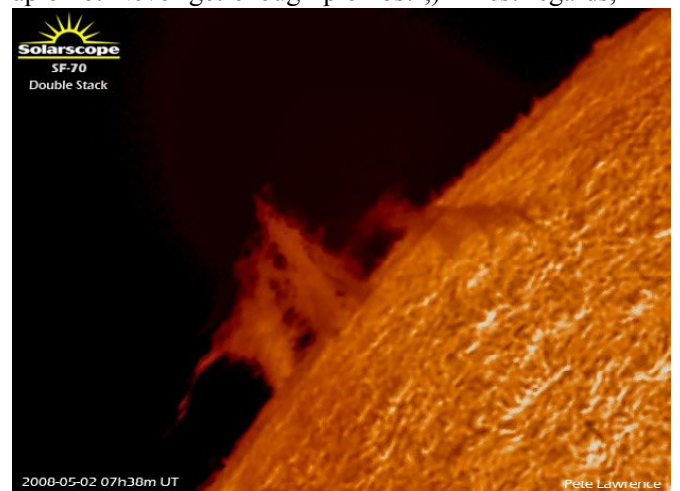
Hi all, Quite a number of images to be processed on this one to hopefully show the filament moving off limb in an animation, but this will take a while to construct.

In the meantime, here are two further image of the filament as it slowly turns into a prominence. Different processing and colouring techniques applied. I've also included a couple of comparison shots of a nearby prominence. Best regards,



○..... **Date: Sun, 04 May 2008 22:11:53 +0100**
Subject: More of that prom from the 2nd May...

Hi all, Here's the Solarscope's take on that prom. As Dave suggested, the surface and prominence were caught in one exposure. This was an early morning shot as I had duties for the rest of the day. The 0.5 Angstrom double-stacked filter dealt with the off-limb and on-surface prominence --> filament transition with aplomb. Never get enough plombs! ;) Best regards,



○..... **Date: Thu, 08 May 2008 00:09:26 +0100**
Subject: Amazing prom action, May 7th 2008 - update

Hi all, Here's the finished sequence from the May 7th capture session. Prominence changes from 08:30 - 15:30 UT in half hourly steps. A larger version is available from here:

http://www.digitalsky.org.uk/solar/2008/2008-05-07_prom-sequence2-flat.jpg

○..... **Date: Thu, 08 May 2008 12:31:18 +0100**
Subject: Filaprom - The Movie

Hi all, 30 frames of limb crossing filament action from the 1st May 2008... Be warned the file is 3.22Mb in size.

http://www.digitalsky.org.uk/solar/2008/2008-05-01_filaprom-anim-te.gif

○..... **Date: Tue, 13 May 2008 00:00:30 +0100**
Subject: Eruptive prominence - May 12th

Hi all, An amazing day of eruptive activity today. I still

have around 20Gb of data to process but here are some of the views as taken through a Solarscope SF-70 h-alpha filter. An initial warning about an eruptive flare led me to scan the chromospheric layer around the solar limb and locate a small bright feature to the east. Moments later it changed and moved so rapidly that I was able to see the form alter in realtime on my laptop screen. The region then continued with activity bursts all day long. The GOES x-ray plots acted as superb pre-warnings of activity. Best regards,

○ · · · · · **Date: Mon, 19 May 2008 14:13:09 +0100**
Subject: Solar activity May 18th and 19th 2008

Hi all, A couple of solar activity mosaics from the last couple of days. Some nice prominences visible today May 18th:

http://www.digitalsky.org.uk/solar/2008/2008-05-18_09-30-59_SVF70ss_flat-full.jpg

May 19th:

http://www.digitalsky.org.uk/solar/2008/2008-05-19_09-00-57_SVF70ss_flat.jpg

The attached file shows the brightest with a bit of filamentary surface detail into the bargain. Best regards,

○ · · · · · **Date: Tue, 20 May 2008 15:05:14 +0100**
Subject: Re: Early morning Prom

Great shot Dave! Just to put it into some context, here's today's full disk. The prominence that Dave has taken is at the top-left.

http://www.digitalsky.org.uk/solar/2008/2008-05-20_09-53-48_SVF70ss_flat.jpg

Best regards,

Pete LAWRENCE (ピート・ローレンス Selsey 英)

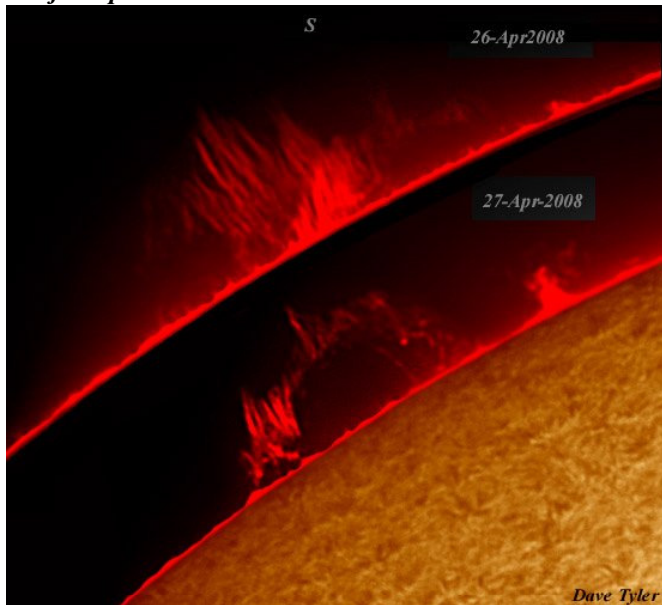
● · · · · · **Date: Thu, 24 Apr 2008 17:58:06 +0100**
Subject: Solar images from the 23rd

Hi Guys, A rather nice filament near the limb, it reminded me of Aaron's staff turning into a snake.

○ · · · · · **Date: Fri, 25 Apr 2008 14:13:41 +0100**
Subject: Saturn's green spot

Hi guys, Not good seeing for this image, but at least the spot was visible. Best wishes

○ · · · · · **Date: Mon, 28 Apr 2008 12:03:31 +0100**
Subject: prom 26th 27th



Hi Guys, here's an image of the progress of the largest current prominence, on the above dates. Best wishes.

○ · · · · · **Date: Sat, 3 May 2008 19:25:59 +0100**
Subject: Saturn 2nd May. 2 Storms

Hi guys, The two storms were on show in the UK last night. The red channel images show it a little brighter in red than my 24th April image. Seeing was better than my scope cooling. That's the trouble with piggy-backing a

solar scope, steps will have to be taken. Best wishes.

○ · · · · · **Date: Sat, 3 May 2008 23:50:15 +0100**
Subject: Saturn spot colour

Hi guys, This image is in addition to my previous issue on this date. As there was some positive contribution to the storm colours from all three channels which was ignored in my previous image due to rotational differences, I have re-processed and realigned the three channels on the actual storms themselves, see top image. This gives the channels the opportunity of presenting the storms by colours nearer the truth.

In the centre image I have aligned the same channels on the planet edges and added the green/red composite Luminance. Best wishes

PS, an interesting link

<http://www.jpl.nasa.gov/news/news.cfm?release=2008-069>

○ · · · · · **Date: Sun, 4 May 2008 17:53:05 +0100**
Subject: solar proms 2nd May2008

Hi Guys, here are two nice proms from the 2nd. The 1025 one, is of a type I have seen before, very active and very bright, as bright as the chromosphere, enabling both to be imaged in one shot, whereas the chromosphere has to be burned out in the 1020 image, to capture the fainter prominence. The 1015 prominence is also very different in appearance to the 1020. Gone is the stringy delicate appearance, this one appears more like a "sheet" of glowing gas. If anyone knows the reasons for this, I would love to know. 80mm og + Daystar ATM.6Å.

○ · · · · · **Date: Mon, 5 May 2008 00:30:44 +0100**
Subject: Re: More of that prom from the 2nd May...

Excellent Pete the .5 A enables the ccd settings to cope with that range of brightnesses very well. Quite dramatic. It will be interesting to see if it can do that with a normal brightness prom too.

I had one of those "superbright" proms last May, a large one, it was most peculiar, I have added it out of interest. Look how it got "electrified" over 4 mins. There must be a name for them? "Novaproms". cheers

○ · · · · · **Date: Thu, 8 May 2008 16:39:32 +0100**
Subject: prom 7th May 08

Hi Guys following on from Pete's delightful presentation yesterday, here are a couple of images that I took, of the entertaining prom. Best wishes

○ · · · · · **Date: Fri, 9 May 2008 21:30:07 +0100**
Subject: never look at the sun,,,

Hi Guys the nice but dim (bit like me) prominence of the past few days dimmed down some during the late morning of the 8th, but a couple of parts of it refused to go without a fight. The 1333 image is of the revival of the RH side. The 0836 (0936 local time) was captured in good low down solar seeing but with only fair transparency. Maybe you should put your shades on before scrolling to the colour image, "near eyepiece" view. Daystar ATM.6Å. Best wishes

○ · · · · · **Date: Thu, 15 May 2008 14:05:32 +0100**
Subject: solar images 11-may- 2008

Hi Guys, Here are a couple of images of the 11th's fair sized Prom. The mono wide field shot was with a:- TMB 80mm / red trutech type 2 filter in Televue 2x barlow / Daystar ATM .6A hα filter/ 0.8 Televue focal reducer/ Lu075 M ccd with IR blocker.

The Colour Image was with a:- 6 inch f9 Vixen with 6inch yellow ERF / AP barlow at about 3x / Daystar ATM .6A Hα filter / Lu075M with IR blocker (keeps the dust out). Best wishes

○ · · · · · **Date: Fri, 16 May 2008 11:54:51 +0100**
Subject: solar images from the 14th

Hi Guys, Interesting activity on the 14th, (last time I saw the sun). A very fast moving prom entertained us. The still shot (shown at the correct terrestrial view), and the 2 minute interval 16 min' animation, was taken with the black TMB 80mm in the picture, the 4x powermate shown was actually replaced by a 2x televue barlow, as I could fit a red trutek type 2 RGB filter on it as an ERF.

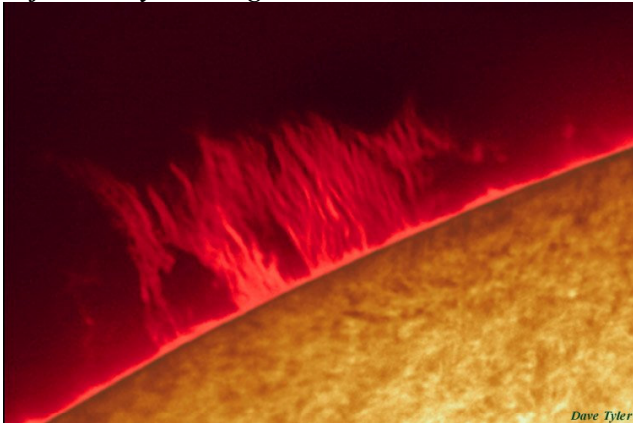
○ · · · · · **Date: Mon, 19 May 2008 17:13:09 +0100**
Subject: SOLAR 18-May- 2008

Hi Guys, Here are a few images from the 18th. The 0844 image needs viewing full size for max res.

○ · · · · · **Date: Mon, 19 May 2008 21:14:12 +0100**
Subject: 19th May solar prom

Hi Guys, A couple of images of the same prom, one wide field with My 80mm TMB, and the other, a colourised, one was taken with the barlow, Daystar filter and camera unit lifted out of the 80 and into the 150, although, the 150 was stopped to 114mm. at the time and produced a better image in the steadier early seeing, than it did a little later, at full 150mm aperture. Best wishes

○ · · · · · **Date: Tue, 20 May 2008 14:05:09 +0100**
Subject: Early morning Prom



Hi Guys, There was a nice prom out there early this morning, although low down, the seeing was fair. More to come from later in the morning. It as a remarkable resemblance to the fluffy cat prom of the 4th of Feb 11:42 ut. Best wishes

Dave TYLER (テ`ウ`イト`・タイラー Bkh 英)
<http://www.david-tyler.com>

● · · · · · **Date: Thu, 24 Apr 2008 18:58:07 +0100**
Subject: Mars 22/04/08

Dear All. Another image, taken under fairly average conditions the other night. Some detail recorded. All the best

○ · · · · · **Date: Fri, 2 May 2008 09:06:26 +0100**
Subject: Mars 1st May 2008

Dear All, Mars last night. Rather unsteady seeing, improved slightly around 1930ut for a while.

Just for fun, I wanted to see how big Saturn appeared at the same image scale, so used a quick 'ghost' image on a separate composite. Regards

○ · · · · · **Date: Thu, 8 May 2008 07:51:54 +0100**
Subject: Mars 07 May 2008

Dear All, Mars last night. There were large displacements of the image whilst taking this, with occasional short periods of relative stability (meaning it was never very good!) All the best.

○ · · · · · **Date: Fri, 16 May 2008 08:52:56 +0100**
Subject: Mars 14th May 2008

Dear All, Poor seeing on the 14th, but some detail captured. Regards

○ · · · · · **Date: Mon, 19 May 2008 08:55:54 +0100**
Subject: RE: Mars 18th May 2008

Dear All, Again, poor seeing last night. Regards

Simon KIDD (サイモン・キッド Herts 英)

● · · · · · **Date: Thu, 24 Apr 2008 20:51:54 +0100**
Subject: Saturn 2008 April 23

I see from my images of last night that there was a very prominent blue-green spot in the STrZ around III=290. This would appear to be the same one as imaged by Marc Delcroix on 2008 February 15 at exactly this longitude. Dave Tyler recorded in at III=287 on March 22. Interesting it shows up here as so green - hardly recorded in R at all, whereas Marc's early observation recorded it clearly in R (but not on April 04 and April 15, where he recorded it also prominent only in L or G). Dave's image also makes it green.

<http://www.davidarditti.co.uk/sat2008-04-23-DLA.jpg>

Incidentally, my earlier 2007-8 apparition images are now obtainable again on their original URLs, after having been down. However, they are collected also on this page:

<http://www.davidarditti.co.uk/saturn07.html>

○ · · · · · **Date: Mon, 5 May 2008 02:18:33 +0100**
Subject: Saturn 2008 April 28

Good conditions. Here we see a spot in what Marc Delcroix calls the SEBZ, the whiter band in the SEB. If, however, it is the same one as he observed on Feb. 22 at around III=100, it has fallen a lot against system III as it is now at III=57. It is presumably not the one I imaged on Feb. 11 at III=245. All these SEBZ spots are clearest in red, unlike the STrZ storm.

<http://www.davidarditti.co.uk/sat2008-04-28-DLA.jpg>

If you are wondering why I am using a DMK camera, it is because my SKYnyx has broken down!

○ · · · · · **Date: Tue, 6 May 2008 01:03:14 +0100**
Subject: Saturn 2008 May 02

Another stormy night on Saturn. The disturbances in the STrZ are now visible in all 3 colours (as Ian Sharp already pointed out), though still a bit more in G than R, I think. Main spot now is now at III=324. There is also the SEBZ spot I reported in my last set just visible in red here, at III=32. In 4 days it has moved -25 deg., corresponding to a drift of -6.25 deg. per day, similar to what Marc quoted.

<http://www.davidarditti.co.uk/sat2008-05-02-DLA.jpg>

○ · · · · · **Date: Fri, 9 May 2008 11:19:05 +0100**
Subject: Mercury 2008 May 08

It should not be forgotten it is the "Mercury season".

I imaged the planet in very bad, windy conditions yesterday. It is hard to say these images show anything beyond the phase. Still, an attempt to remind people it is there.

<http://www.davidarditti.co.uk/merc2008-05-08-DLA.jpg>

○ · · · · · **Date: Sat, 17 May 2008 14:25:07 +0100**
Subject: Jupiter 2008 May 12

This is my first go at Jupiter this singularly unfavourable apparition for us in the UK (someone has to do silly things). I wonder if this is the first high-res image of Jupiter from here this year. So far as I know it is.

I used a far (by amateur standards) IR filter, plus a low focal ratio to keep the frame rate high (30 fps) to combat the turbulence at 17 deg. alt. 3500 frames were captured in 2 mins.

Surprisingly, it shows something - the turbulence in the SEB, the big barge on the NEB and plume prec. it.

C11 - I can't get the C14 on it until later in the season.
<http://www.davidarditti.co.uk/jup2008-05-12-DLA.jpg>

○ · · · · · **Date: Thu, 22 May 2008 20:09:43 +0100**

Subject: Jupiter 2008 May 21

I have now been able to get my C14 on to the planet, and the results are rather better than with the C11.

I made a mistake in my observation reported at May 12, in that I had my IR filters confused. That image was taken with a C11 through a 742nm filter, not an 804nm filter, at 30 fps. Corrected version here.

<http://www.davidarditti.co.uk/jup2008-05-12-DLA.jpg>

On the 21st I tried both filters with the C14. Here are images taken at 807nm at 15 fps, and 742nm at 30 and 60 fps (nominal). I think marginally the best result is

742nm at 30 fps. The GRS, bright, is going off the limb on the left, closely followed by Oval BA, also bright. At the same latitude is the most striking feature, a dark spot at about II=190 (shown on Mike Salway's latest images from Down Under to be annular in structure). The N component of the SEB is very dark, the NEB is fairly dark, and dark turbulence can be seen on the S edge of the NEB. The NTB, being currently orange, is poorly-contrasted in IR.

<http://www.davidarditti.co.uk/jup2008-05-21-DLA.jpg>

David ARDITTI (デヴィッド・アーデイチ Edgware ME 英)

TEN YEARS AGO (153)

----CMO #203 (25 May 1998) pp2271-2282 ----

今号は巻頭はLtEから始まっているが、後半には1996/97 MarsSketchその(5)"White Hellas, from Its Brightest through Its Decline, Observed in 1997" 「顕著期から衰退期にかけてのヘッラスの動向」 <http://homepage2.nifty.com/~cmo/97Note05.htm> が、掲載された。

4Mar1997($\lambda=087^\circ\text{Ls}$)から12Oct1997($\lambda=197^\circ\text{Ls}$)の観測を採り上げて、南半球の冬至の $\lambda=090^\circ\text{Ls}$ 頃から、CO₂やH₂Oの氷結で白色に明るくなると思われるヘッラスの様子を記述している。

この年は我が国からは顕著には明るくならず、 $\lambda=100^\circ\text{Ls}$ を過ぎても内部に陰影が見られた、この様子を示す南(Mn)氏のスケッチが引用されている。その後の $\lambda=110^\circ\text{Ls}$ 頃から120°Ls過ぎまでが明るさのピークだったようで、ヨーロッパからの報告も引用されている。 $\lambda=150^\circ\text{Ls}$ を過ぎると季節は進み、ヘッラスの氷結も溶け始め明るさは低下して、春分(180°Ls)過ぎになると南半球は更に暖められて行きヘッラスは黄色味を帯びて来る。上昇気流による砂塵の発生もあると思われ、MGSが1997年十一月末($\lambda=224^\circ\sim 227^\circ\text{Ls}$)にノアキスで黄塵を観測したように、ヘッラス近くでも黄塵発生の可能性があるとしている。例として11 Sept 1954 ($\lambda=232^\circ\text{Ls}$)に、大澤俊彦(Os)氏の観測したヘッラスの黄色雲を採り上げ、スケッチが載っている。偶然同時に観測していた当時高校生のMn氏のスケッチも当時のノートのコピーと共に紹介されている。なお、この項を再読されたMn氏に依れば、全体に位相角 ι の考察が欠けている点が不充分とのことである。他にSMITH-SMITHによるヘッラスの動向は再考の必要があると感じていられるようである。

LtEには、200号祝福メッセージを含め以下の各氏から寄せられている。松本達二郎(尼崎)、Richard McKIM (UK)、日岐敏明(伊那)、森田行雄(広島)、Giovanni QUARRA (Italy)、Samuel WHITBY (USA)、比嘉保信(沖縄)の各氏。また、Jim BELL氏からの、MGS画像のwebsiteの紹介が掲載されたThe Intrenational Marswatch Electronic Newsletterがある。

TYA(33)は長編で、CMO#051(10May1988)とCMO#052(25May1988)からである。OAA MARS SECTIONは夜半過ぎの空で9秒角まで大きくなった火星の観測報告($\lambda=180^\circ\sim 190^\circ\text{Ls}$)。そのほか、理查・麥肯氏らの「ピク・デュ・ミディ天文台滞在記(抄訳)」「夜毎餘言VIII "南中老人早期観測回想"」「チョット小言」「1988年の火星(8):ミッチェル山の分離」等が掲載されていた。五月に開催された福井でのワークショップのレポートも紹介された。村上昌己(MK)

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東亜天文學會「火星通信」since 1986

COMMUNICATIONS IN

MARS

No. **203**
25 May 1998

OBSERVATIONS Published by the OAA Mars Section

便り
Letters to the Editor

●……いつも『火星通信』をお送りいただき有り難うございます。200号との事で、皆様のご努力 敬服しています。
カンパをお送り申し上げます。相変わらずのようですが、本年もよろしくお申し込みあげます。(6/19/98)
松本 達二郎 (Tatsujiro MATSUMOTO 尼崎 Hyogo)

●……With best regards, and belated congratulations on the 200th CMO. … (16/02/1998 email)
●……Observing conditions are good here. Very dark skies, and some good seeing in the few observations of Saturn I had at the end of the recent apparition. I hope to construct an observatory but some 16-metre high trees will have to come down! … (17/04/1998 email)
●……Since the email I wrote you about Rima T, I have received the last CMO (202) about this. What you have written seems very reasonable. … (25/04/1998 email)
Richard McKIM (理查・麥肯 Peterborough 英) mckim@ondle.norhants.sch.uk

●……上伊那もようやく桜の開花となりました。アルプスは残雪がとてと美しく、見事です。福井はいかがですか。
さて、前便で申し上げたとおり、組合の執行部としての業務も終了し、学校に集中できる状況に
もどりました。福井での観測者懇談会では意義ある発表の数々をお聞きし大変刺激を受けました。やはり、これからはたとえ限られた観測であっても広く観測知識をもっていないとどうしようもないと感じ、反省させられました。私の場合、これからもスケッチが観測手段のメインとなるでしょうが、挑戦してみたいこともあります。
話は変わりますが、年度末に校長より来年度の私の異動についての話がありました。信州大学付属小、中での勤務や留学関係などを勧められました。今年度で現勤務校に赴任して、四年になりましたので時期としては適当です。自分としては深夜まで延々と会議の続く付属小・中は退屈したいところですが、内地留学は魅力的です。火星の観測をさせていただけの研究機関はありませんか。飛騨の天文台はいかがでしょうか。家族のこともあるのあまり遠くというわけにはまいりませんが、そろそろ検討していきたいと思っています。また、相談ののっていただけだとも思います。よろしくお願ひいたします。
ノートパソコンを購入しました。これが「太郎」での最初の文章となりました。メールも近々始められそうです。取りあえず福井でのお礼と近況報告まで。(17/04/1998)
●……汗ばむ熱気がなりました。さて、先日はメール有り難うございました。先にいたいただいてまい恐縮しています。パソコンはFujitsuのBiblo NPV16D(MMXベンティアム166, ハードディスク2.1GB, モデルK566ex)です。今のところ、メールの送受信はなんとかなります。時間がなくなかなか上達しませんが、焦らず覚えてまいります。…… (15/04/1998 email)
●……メール有り難うございました。Niftyのソ

2 2 7 1

●.....Date: Thu, 24 Apr 2008 23:30:02 +0100
Subject: Sun Image

Hi, here is a Sun image from yesterday, mosaic of 9 images taken with a PST@f/20

BW version

http://www.astrosurf.com/pcasquinha/sol_080423.jpg

color version

http://www.astrosurf.com/pcasquinha/sol_080423_c.jpg

○.....Date: Sat, 26 Apr 2008 13:00:01 +0100
Subject: Sun on April 25

Hi, here is another Sun mosaic, this time working with the PST @ f/25, the mosaic contains 12 individual images. No Sun spots but lots of activity.

BW version

http://www.astrosurf.com/pcasquinha/sol_080425.jpg

Colour version

http://www.astrosurf.com/pcasquinha/sol_080425_c.jpg

○.....Date: Mon, 28 Apr 2008 16:19:30 +0100
Subject: Sun Image

Hi, here is the Sun yesterday PST @ f/25 and Skynyx 2.0M camera, mosaic of 12 images

BW version

http://www.astrosurf.com/pcasquinha/sol_080427.jpg

Colour version

http://www.astrosurf.com/pcasquinha/sol_080427_c.jpg

My best regards

Paulo CASQUINHA (ハウル・カスキニャ Portugal 葡)

●.....Date: Fri, 25 Apr 2008 15:19:32 +0900
Subject: Re: 観測依頼

南様、了解しました。夕方の時間帯が読めない時が多いのですが、やってみましょう。ここ数日、ミンダナオ島付近に雲が発生し、夜には雨が降り、今日もその傾向です。明日もそんな感じで週末は駄目の予感がします。天気は本当に分かりません。

○.....Date: Tue, 29 Apr 2008 17:15:02 +0900
Subject: RE:Re: 観測依頼

今日は雲はありますが、観測は出来そうです。

○.....Date: Wed, 30 Apr 2008 12:09:11 +0900
Subject: 火星画像 AKM080429

昨夜の火星像です。風と雲が邪魔をし、イライラの撮像でしたが、何とか画像は得られました。特に風がなければもっと解像度は上がると思いますが。今夜も狙って見ます。

○.....Date: Thu, 1 May 2008 17:06:10 +0900
Subject: 火星画像 AKM080430

昨夜の火星像です。風は少ないのでブレは少なかったのですが、気流は安定せずフラフラしていました。眼視ではさすがに小さい火星ですが、何とかいけそうです。日本ではいかがですか？

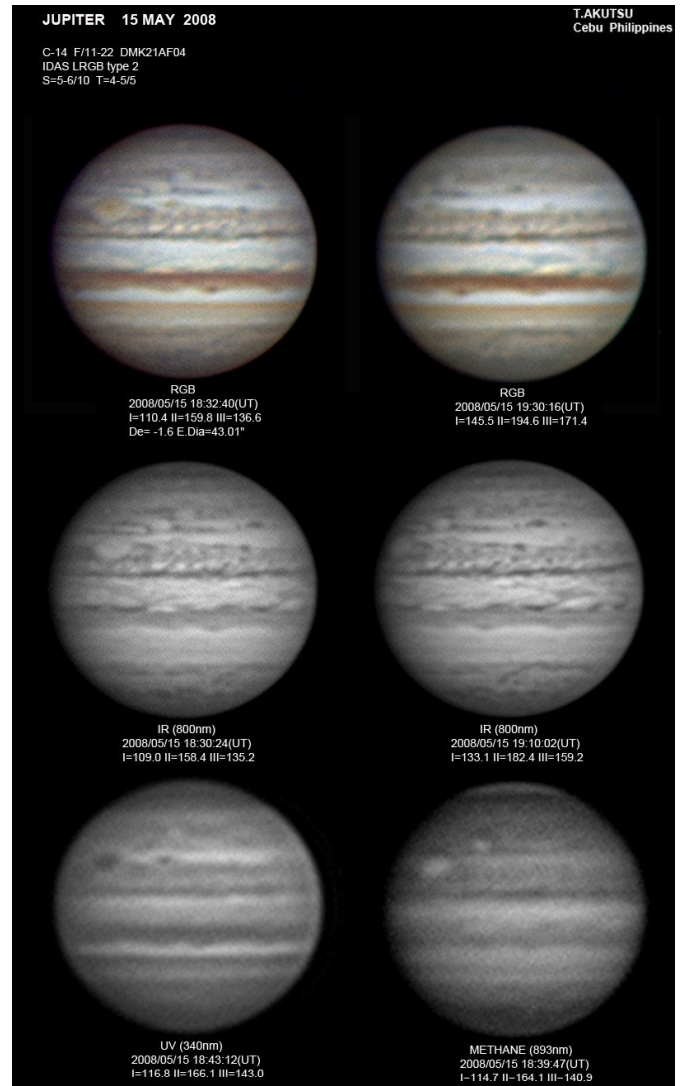
○.....Date: Mon, 5 May 2008 11:43:21 +0900
Subject: C14 冷却ファン

こんにちは、ゴールドンウェークがないセブですが、先週末の土曜日、思い切ってC1筒内気流除去用のファンをセルに設置しました。コンピューター用のファンは振動が少なく良いようです、INに2個、OUTに1個を付けました。C14の分解は少し躊躇しましたが、構造はいたってシンプルでこれで良く、見得るものだなあと感心しました。この効果は今後の観測で分かるでしょう。

○.....Date: Fri, 16 May 2008 15:39:34 +0900
Subject: CMO 拝受

本日CMO-344がセブに届きました。ありがとうございます。セブは先週、台風2号の通過で天気が全く悪く、星は見えませんでした。今週も雲が多く、今朝やっとなり、木星が見えました、その

画像を添付します。今年は天気がおかしい様に思



います。例年とは違い、雨が多く感じます。海水の温度が高いのでしょうか？ ではまた

阿久津 富夫 (Tomio AKUTSU セブ The Philippines)

●.....Date: Mon, 28 Apr 2008 22:49:41 +0100
Subject: Saturn - Two Spots - 28-Apr-2008

Hi all, The spot seen so prominently in green is now showing in all colours and also another spot has developed. Here is a quick hot-off-the-press image showing all 3 channels. I'll get an RGB composite later if smearing allows.

<http://tinyurl.com/4rgv5t>

○.....Date: Mon, 28 Apr 2008 23:26:12 +0100
Subject: Saturn with two spots - RGLB version

Hi all, Here is an RGLB version showing the two storms:

<http://tinyurl.com/5q2ffh>

The separate colour channels repeated here:

<http://tinyurl.com/4rgv5t>

○.....Date: Fri, 02 May 2008 08:23:21 +0100
Subject: Saturn 01-May-2008 - Storms

Hi all, Had to shoot this through high, thin cloud but seeing was good. System III=273

<http://tinyurl.com/5w8hg2>

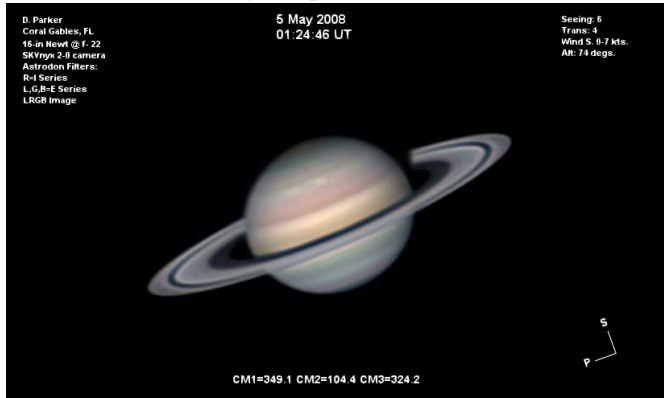
If the storms are best seen in the Green, does this mean Saturn has a G-spot ;-) Regards

Ian SHARP (イアン・シャープ WS 英)

●.....Date: **Wed, 30 Apr 2008 06:15:00 +0000**
Subject: Mars 12 and 23 April

Hi All, I have attached some belated Mars images from 12 and 23 April. Faint ECB seen across Moab and Aeria into Libya. On 23 April a bright cloud is seen over Olympus Mons on PM limb. There was a diffuse cloud over Elysium. "Valhalla" was visible. Cerberus-Trivium appears somewhat more prominent than previously.

○.....Date: **Tue, 13 May 2008 04:36:41 +0000**
Subject: Saturn Images, Spots



Hi All, I have attached some belated images from 26 Feb. and 5 May. Best,

○.....Date: **Wed, 14 May 2008 22:50:30 +0000**
Subject: Jupiter 12 May

Hi All, I have attached an image of Jupiter from 12 May. Best,

○.....Date: **Thu, 15 May 2008 18:00:34 +0000**
Subject: Re: Mars 14 May (SWk)

Nice! You show that the Syrtis Blue cloud is still present. Mongo

○.....Date: **Thu, 15 May 2008 21:10:15 +0000**
Subject: Mars 8 May

Hi All, I have attached some Mars images from 8 May. Clouds persist. ECB prominent. Best,

○.....Date: **Sat, 24 May 2008 02:33:19 +0000**
Subject: Jupiter 21 May

Hi All, I have attached some RGB and methane band Jupiter images from 21 May. Best,

Don PARKER (唐那・派克 Miami FL 美)

●.....Date: **Wed, 30 Apr 2008 15:48:35 +0200**
Subject: first light with methanebandfilter (Saturn/Jupiter)

Hi all, last week I got the chance, to test my new methanebandfilter on my balcony with an 8" f=5 Newtonian and DMK 21AF04.AS.

<http://www.sternwarte-zollern-alb.de/beobachtungen/methanband/index-gb.htm>

The goal of my efforts is to take the Uranusrings with the 80 cm mirror of the Observatory Zollern-Alb...

best wishes

Silvia KOWOLLIK

(シルヴァ・コワ・オリク Ludwigsburg 徳)

●.....Date: **Wed, 30 Apr 2008 13:58:08 -0400**

Subject: Re: first light with methanebandfilter (Saturn/Jupiter)

Silvia - You have a very interesting project coming up! I also have a methane filter at 8900nm +/-10nm. I have imaged Uranus with this filter taken with the Celestron 8 inch telescope using the Starlight Xpress MX-5 camera. The MX-5 sensitivity at 8900nm is just as the same with the DMK.

Uranus appears very faint in the methane light images through the C-8. Still, there is enough light to reflect. Perhaps with some haze over the methane level. With an

80cm telescope (I assume it is a 32-inch), you should no problem. This is the best way to capture any possible outbursts or disturbances above the methane level while the contrast increases. Uranus in methane light would brighten and dimming during the rotation. Then you know something is going on there in the atmosphere.

Back in the early 2000s, I imaged Uranus in methane light for a few hours each time. I was checking to see if there is any variation in brightness during its rotation. Of course, I have a star or two in the field so I can compare it with Uranus' brightness. So far, I didn't see any variation when I ran the short animations. Actually, not much activity going on at the time. But if there would be an outburst, perhaps I would have pick it up. Most of the work published in the ALPO Journals. Please, let us know how you make out!

○.....Date: **Sat, 10 May 2008 19:35:52 EDT**
Subject: Re: Mercury 5/5

Bruce - Good shot of the moon and Mercury! Also, I am questioning about Sean's images of Mercury to see if the white spot near the limb below center is ray Kuiper crater. I did some measurements of the disk. At CM 81 degrees, Kuiper's position at 30 degrees longitude and -13 latitude seems to be right on the target. I forward his images to the Mercury experts.

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

●.....Date: **Wed, 30 Apr 2008 22:15:58 +0900**
Subject: Synoptic Survey Telescope

『火星通信』にアメリカ旅行記を掲載していただき有難うございました。Large Synoptic Survey Telescope の写野面積が満月の400倍と書きましたが、正しくは「約 50 倍」でした(編集註:訂正済み)。写野直径 3.5度、面積 9.6 平方度です。15 秒の露出で 24等級まで写り、3日に1回のペースで全天を撮影し続けることができるそうです。国家予算に加えて、Bill GatesとGoogleがスポンサーになっているようです。間違いの件、お詫び申し上げます。

なお、あの旅行記はもうすこし文章を練り、写真もつけて『天界』にも出したいと思っておりますので、ご了解下さい。

佐藤 健 (Takeshi SATO 廿日市 Hiroshima)

●.....Date: **Fri, 2 May 2008 14:48:08 +0200**
Subject: Saturn Storms



FYI. See attached.

Jim PHILLIPS (ジム・フィリップス SC 美)

●.....Date: **Sun, 04 May 2008 15:12:01 -0400**
Subject: New AR, 2008 May 04

Solar H-alpha 2008 05 04, 1035ST - 1145ST (1435UT - 1545UT)
 PCW Memorial Observatory, Zanesville, Ohio, USA, Lat: 40.01 / Long: -81.56
 Temp: 54.0°F / 12.2 °C Winds: 5.8 mph NW, clear turning to partly cloudy
 Humidity: 53% Seeing: very poor 2/6 Transparency: 4/6

Equipment: Internally double stacked Maxscope 60mm, LX75, 40mm ProOptic Plossl, 21-7mm Zhumell, ETX70AT, 8mm TV Plossl

Sketch Media: H-alpha - Black Strathmore Artagain paper, white Conte' and Prang pencils, white vinyl eraser.

Tilting Sun program shows error on new computer so am unable to use it for this session. White light pores created in Photoshop.

New active region in the ESE quadrant was visible with two crescent shaped plage facing each other during the h-alpha observing session. In white light, seeing was very poor making it invisible at first glance. Eventually my eyes were able to see two dark specks in the AR, appearing to be only umbrae, with the more easterly one slightly darker and thicker. No faculae were noted in white light.

Of the prominence activity in h-alpha, the long line of southern prominences had filament reaching out over the disk on the far western edge. The large eastern edged prom in this line was leaning at a crook to the east (right) in my FOV. It was also the faintest of the four more prominent prominences around the Sun's limb.

Erika RIX (エリカ・リックス Zanesville OH 美)

●.....Date: Sun, 04 May 2008 17:07:23 +0900

Subject: 火星観測報告など拝受

本日、「博物館天文台における1999年の火星観測報告」、「2001年の火星観測報告(その1)」の別刷り、「福井市自然史博物館博物館だより」が届きました。ご送付くださいますありがとうございます。取り急ぎ、お礼まで。

○.....Date: Sun, 11 May 2008 17:25:57 +0900

Subject: 『火星通信』#345 拝受

本日、「火星通信」#345拝受いたしました。いつもありがとうございます。お礼まで。

浅田 正 (Tadashi ASADA 宗像 Fukuoka)

●.....Date: 5 May 2008

前略、先日火星観測報告を拝受いたしました。有難うございます。長い間ご無沙汰していますが、2005年の途中からスケッチよりWebカメラ(ToUcam)に移行し、それ以来火星を見る機会が少なくなりました。像の方はこれまで幾らか撮像していますが、データの計算をしていないためお送りすることが出来ません。何れお送りしたいと思います。草々

伊舎堂 弘 (Hiroshi ISHADOH 那覇 Okinawa)

●.....Date: Tue, 6 May 2008 07:46:24 -0500

Subject: Re: article on Galileo's Italy

Hi, Melita, Just to keep you in the loop--

I've been very busy with work--things are a bit disorganized and in transition there though there is some daylight ahead--

My passion for art and astronomy has increased--and now, having immersed myself in Renaissance art (which has included a number of book acquisitions, including Bernard Berenson's book on Italian Renaissance painters) I've set my sights on the Impressionists. It occurs to me that as the Italian Renaissance artists established the conventions for representing what we have come to think of as normal space--that is, the way things are presented on the canvas from a particular point of view--the Impressionists, especially Monet, went one further in their pursuit of the evanescent, the momentary, play of light and shade and color. Monet was always trying to capture the effects of the ever-changing scene--haystacks and Rouen cathedral under different lighting conditions, as at dawn, high noon, twilight--and once said that a lifetime wasn't enough to learn to capture everything revealed in a single moment. I think that this attitude influenced observers of Mars like Antoniadi who--rather than like his

predecessors who methodically but deceptively built up highly complex maps of what supposedly were the underlying stable features through laying on layer after layer of detail--chased rather what was revealed in the momentary "revelation peeps" (to adopt an arresting phrase of Percival Lowell), and realized, as the Impressionists did, that color, for instance, as a definite quantity, doesn't exist, but is only the result of the play of light upon form, and that even shadows are not the negation of light but an altered form of it. Thus those remarkable--and to me, Impressionist--depictions of Mars that he made at Meudon (where Rodin and other notables of the Parisian art set lived) in September 1909.

Oh, my, I must end this dissertation and head off to work. Ever,

○.....Date: Tue, 13 May 2008 18:32:01 -0500

Subject: Fw:

Dear Masatsugu, You may have seen this letter (from the Guardian, May 13, 2008), but if not I send it forward.

Einstein's ideas about religion correspond with mine to a T.

Thanks much for your extremely thought-provoking letter about Impressionists and Mars. I will be back to you soon, but as you surmised, I am at the moment deeply immersed in Galileo and the art of the Renaissance.

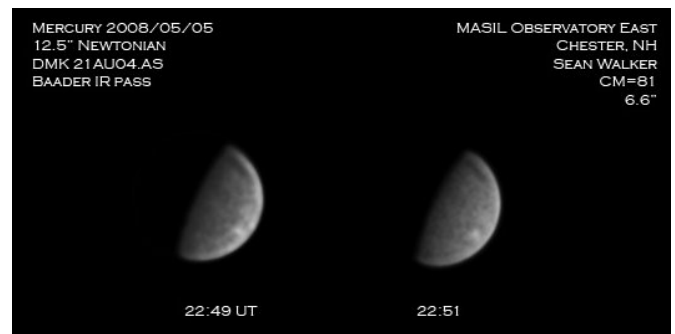
The tour of Florence was very successful, and there is a great deal of interest among American members of the Astronomical Society of the Pacific in coming to Paris in the autumn of 2009. All the best,

Bill SHEEHAN (ウィリアム・シーハン MN 美)

●.....Date: Fri, 9 May 2008 06:08:39 -0700

Subject: Mercury 5/5

Nice shot Dave- I had good luck the afternoon of the 5th.



○.....Date: Thu, 15 May 2008 09:11:56 -0700

Subject: Mars 14 May

Tough target as the planet heads south through the ecliptic, and decreases in apparent size. I may be done with this apparition soon. Anyway, attached are my results.

Sean WALKER (シヨン・ウォーカー S&T 美)

●.....Date: Sat, 10 May 2008 01:31:04 +0900

Subject: Re: カンパ拝受

メール有難うございました。カンパは、しばらく出していないことはわかっていましたが、こんなに滞納しているとは思いませんでした。申し訳ありません。今度は忘れずお納め致します。

火星は、四月20、22、26、29、五月2、3日と撮っています。エリュシウムあたりが明るいのがわかります。

○.....Date: **Mon, 12 May 2008 23:35:31 +0900**
Subject: Mo29Apr 03May 08

お世話になります。やっとエリュシウムあたりを撮った画像が出来ましたのでお送りします。

紀要別刷りも届いています。有難うございます。

火星は今月6日と11日は撮っています。今日は撮ろうと思っていましたが、帰ったとたん曇りはじめ結局撮れませんでした。6日の画像ではエリュシウムは明るくなくなっています。6日と11日はこれから処理に入ります。

最近、佐藤健さんがここ阿品台で講演されることが多く、楽しみです。あとに観望会もあり結構人数も集まります。雨や曇りも多く、なかなか行けないことも多いですが、何かの役に立てればと思っています。

森田 行雄 (Yukio MORITA 廿日市 Hiroshima)

●.....Date: **Sun, 11 May 2008 21:10:20 +0100**
Subject: Latest Mars

Dr Dr Minami, I attach a scan of my most recent observation of Mars. Now that the planet is now only about 5 arc seconds, I very much doubt that I shall manage any further observations for the 2007 - 08 apparition.

Kind regards,

David GRAHAM (テ`イヴ`ィット`・クレアム NYs 英)

●.....Date: **Mon, 12 May 2008 16:41:19 +0200**
Subject: New incoming events on Mars nearly from 11th May.

Dear all, I am thinking that a new event for EBC clouds can occur very nextly, some days. May I have to ask you to have a look on Mars nearly, because this can be effective, may be already done. I will not be available for such here, in spite of bad weather forecast this week, bust also by job occupations. I would like to get some reports here because this is only for the mars survey, not medals of any origin. The period is very consistent for getting some.

My last obs was done whis an achro 6" 330x and a green filter Astronomik, that is fine for (narrow band of 110nm), images 10-8/10 near sunset and after sometimes. That's can be done fruitfully. Mars is continuing its job. Best hope and clear skies to all.

○.....Date: **Mon, 12 May 2008 18:33:09 +0200**
Subject: Mars obs May and April.

Dear MINAMI San, I was going on the CMO web site after my last mail. Your AKUTSU and MORITA San observeers get strong views of the Mars confetti on this web site cmo mars oaa.. I don't know if they could pursiue the survey in the few days but this should be suitable as they had shown lastly, this is possible on this next possible event. Sincerly yours.

Stanislas MAKSYMOWICZ

(スタニスラス・マクシモウ`ィッチ Ecquevilly 法)

●.....Date: **Thu, 22 May 2008 17:57:07 +0100**
Subject: Mars images (February 3-4th, 2008.)

Hi all, Here is the first of about 40 nights of images upto late May.

http://www.damianpeach.com/mars07/m2008_02_03-04rgb_dp.jpg

○.....Date: **Fri, 23 May 2008 01:46:15 +0100**
Subject: Mars images (February 5th, 2008.)

Hi all, Some images from Feb 5th. Thanks to Don Parker for keeping Mars on the chip during these runs! As with the previous set, 10" Mewlon at F50 at the WSP 2008.

Elysium Orographic cloud is very bright, and brightens as it approaches the limb. Also note the dark band in blue light running just north of Syrtis Major. Many faint hazes and clouds elsewhere.

http://www.damianpeach.com/mars07/m2008_02_05rgb_dp.jpg

http://www.damianpeach.com/mars07/m2008_02_05red_dp.jpg

http://www.damianpeach.com/mars07/m2008_02_05grmbly_dp.jpg

○.....Date: **Fri, 23 May 2008 14:55:47 +0100**
Subject: Mars images (February 6th, 2008.)

Hi all, Here is an image from the 6th. Terrible conditions with winds E @20-25kts with constant higher gusts. Also lots of clouds so no colour image was possible. Still, with the Paramount we were still able to do work while everyone else was shutdown! What a superb mount....

http://www.damianpeach.com/mars07/m2008_02_06red_dp.jpg

○.....Date: **Sat, 24 May 2008 00:35:52 +0100**
Subject: Mars images (February 7th, 2008.)

Hi all, Here are some images from Feb 7th. Note the brilliant orographic cloud over Olympus Mons and the band of cloud north of Elysium toward Propontis.

http://www.damianpeach.com/mars07/m2008_02_07rgb_dp.jpg

○.....Date: **Sat, 24 May 2008 00:36:30 +0100**
Subject: Mars images (February 6th, 2008 - Additional.)

Hi all, An additional movie for this night. Sean reminded me of a home video he took at the time of the image. This will give you an idea of just how windy it was!

http://www.damianpeach.com/mars07/mars_hurricane.avi
 Best Wishes

Damian PEACH (テ`ミアソ`ピ`ーチ Bkh 英)

●.....Date: **Fri, 23 May 2008 07:11:32 +1000**
Subject: Jupiter's Moons in Motion

Hi all, Here's an 8-frame animation of Jupiter, including 5-frames showing her moons Europa, Io and Callisto in motion. Jupiter's Moons in Motion (1mb animated gif) Remember to scroll to the right!

http://www.iceinspace.com.au/downloads/20080514-jupiter+moons_anim.gif

Callisto, moving towards Jupiter, is casting the shadow on Jupiter in the first few frames. Europa and Io are in a close pairing, moving away from Jupiter.

I was lucky enough that Callisto was *just* close enough to Jupiter so that I could capture a reference frame to pinpoint the Moon's position relative to Jupiter. I could then capture a separate set of avi's with the 3 moons in the same Field of View. This was repeated 5 times throughout the session to get the data for the animation.

Jupiter's 8-frame animation was tricky to align in terms of limbs and colour balance, because the first 4 frames were captured in poorer seeing at 30fps with a decreasing histogram due to the mirrors fogging up. The last 4 frames were captured at 15fps with a much fuller histogram in improved seeing. Processed in Registax v5 (beta), Astra Image, Photoshop and Jasc Animation Shop.

Attached is a single frame from the animation - you need to click on the link below to see the full animation. Jupiter's Moons in Motion (1mb animated gif) Remember to scroll to the right!

http://www.iceinspace.com.au/downloads/20080514-jupiter+moons_anim.gif

Thanks for looking, comments welcome.

Mike SALWAY (マイク`ソルウェイ NSW 澳)

☆☆☆

Forthcoming 2007/2008 Mars (20)

Ephemeris for the Observations of the 2007/2008 Mars. XI

July and until mid-August 2008

Masami MURAKAMI 村上 昌己 (Mk)

As a sequel to the Ephemeris X (in CMO#344), we here list the necessary elements of the Ephemeris for the physical observation of Mars from 1 July 2008 to 15 August 2008. This is a final of the series.

The data are listed for every day at 00:00 GMT (not TDT). ω and φ denote the longitude and latitude of the sub-Earth point respectively. The symbols λ , δ and ι stand for the areocentric longitude of the Sun, the appar-

ent diameter and the phase angle respectively. From this apparition, we also add the column of the Position Angle Π of the axis rotation, measured eastwards from the north point: This is useful to determine the north pole direction from the p \leftarrow . The apparent declination D of the planet is also given at the final column. The data here are basically based on *The Astronomical Almanac for the Year 2008*.

Date (00:00GMT)	ω	φ	λ	δ	ι	Π	D
01 July 2008	240.65°W	23.5°N	92.55°Ls	4.44"	28.1°	9.4°	+12°41'
02 July 2008	230.90°W	23.6°N	92.99°Ls	4.43"	28.0°	9.8°	+12°28'
03 July 2008	221.14°W	23.7°N	93.44°Ls	4.41"	27.8°	10.1°	+12°15'
04 July 2008	211.38°W	23.9°N	93.88°Ls	4.40"	27.7°	10.5°	+12°01'
05 July 2008	201.62°W	24.0°N	94.32°Ls	4.38"	27.5°	10.9°	+11°48'
06 July 2008	191.86°W	24.1°N	94.77°Ls	4.37"	27.4°	11.2°	+11°34'
07 July 2008	182.09°W	24.2°N	95.21°Ls	4.36"	27.2°	11.6°	+11°20'
08 July 2008	172.33°W	24.3°N	95.66°Ls	4.34"	27.1°	12.0°	+11°06'
09 July 2008	162.56°W	24.4°N	96.10°Ls	4.33"	26.9°	12.4°	+10°53'
10 July 2008	152.79°W	24.5°N	96.55°Ls	4.32"	26.8°	12.7°	+10°39'
11 July 2008	143.02°W	24.6°N	96.99°Ls	4.31"	26.6°	13.1°	+10°26'
12 July 2008	133.24°W	24.7°N	97.44°Ls	4.29"	26.5°	13.5°	+10°12'
13 July 2008	123.47°W	24.8°N	97.88°Ls	4.28"	26.3°	13.9°	+09°58'
14 July 2008	113.69°W	24.9°N	98.33°Ls	4.27"	26.1°	14.2°	+09°44'
15 July 2008	103.91°W	25.0°N	98.78°Ls	4.26"	26.0°	14.6°	+09°29'
16 July 2008	94.13°W	25.1°N	99.22°Ls	4.25"	25.8°	15.0°	+09°15'
17 July 2008	84.35°W	25.2°N	99.67°Ls	4.24"	25.6°	15.3°	+09°01'
18 July 2008	74.56°W	25.3°N	100.12°Ls	4.23"	25.5°	15.7°	+08°46'
19 July 2008	64.78°W	25.3°N	100.57°Ls	4.22"	25.3°	16.1°	+08°32'
20 July 2008	54.99°W	25.4°N	101.01°Ls	4.21"	25.2°	16.4°	+08°18'
21 July 2008	45.20°W	25.5°N	101.46°Ls	4.20"	25.0°	16.8°	+08°03'
22 July 2008	35.41°W	25.6°N	101.91°Ls	4.19"	24.8°	17.2°	+07°48'
23 July 2008	25.61°W	25.6°N	102.36°Ls	4.18"	24.7°	17.5°	+07°34'
24 July 2008	15.82°W	25.7°N	102.81°Ls	4.17"	24.5°	17.9°	+07°19'
25 July 2008	6.02°W	25.8°N	103.26°Ls	4.16"	24.3°	18.3°	+07°04'
26 July 2008	356.23°W	25.8°N	103.71°Ls	4.15"	24.2°	18.6°	+06°50'
27 July 2008	346.43°W	25.9°N	104.16°Ls	4.14"	24.0°	19.0°	+06°35'
28 July 2008	336.63°W	25.9°N	104.61°Ls	4.13"	23.9°	19.3°	+06°20'
29 July 2008	326.83°W	26.0°N	105.06°Ls	4.12"	23.7°	19.7°	+06°05'
30 July 2008	317.02°W	26.0°N	105.51°Ls	4.11"	23.5°	20.0°	+05°50'
31 July 2008	307.22°W	26.0°N	105.97°Ls	4.10"	23.4°	20.4°	+05°35'
01 August 2008	297.41°W	26.1°N	106.42°Ls	4.09"	23.2°	20.8°	+05°20'
02 August 2008	287.61°W	26.1°N	106.87°Ls	4.08"	23.0°	21.1°	+05°04'
03 August 2008	277.80°W	26.1°N	107.33°Ls	4.07"	22.8°	21.5°	+04°49'
04 August 2008	267.99°W	26.2°N	107.78°Ls	4.07"	22.7°	21.8°	+04°34'
05 August 2008	258.18°W	26.2°N	108.24°Ls	4.06"	22.5°	22.2°	+04°19'
06 August 2008	248.37°W	26.2°N	108.69°Ls	4.05"	22.3°	22.5°	+04°03'
07 August 2008	238.56°W	26.2°N	109.15°Ls	4.04"	22.1°	22.8°	+03°48'
08 August 2008	228.74°W	26.2°N	109.60°Ls	4.04"	22.0°	23.2°	+03°33'
09 August 2008	218.93°W	26.2°N	110.06°Ls	4.03"	21.8°	23.5°	+03°17'
10 August 2008	209.11°W	26.3°N	110.51°Ls	4.02"	21.6°	23.9°	+03°02'
11 August 2008	199.30°W	26.3°N	110.97°Ls	4.01"	21.5°	24.2°	+02°46'
12 August 2008	189.48°W	26.3°N	111.43°Ls	4.01"	21.3°	24.5°	+02°30'
13 August 2008	179.66°W	26.3°N	111.89°Ls	4.00"	21.2°	24.9°	+02°15'
14 August 2008	169.84°W	26.3°N	112.35°Ls	3.99"	21.0°	25.2°	+01°59'
15 August 2008	160.03°W	26.2°N	112.81°Ls	3.98"	20.8°	25.5°	+01°28'
16 August 2008	150.21°W	26.2°N	113.27°Ls	3.98"	20.7°	25.8°	+01°12'

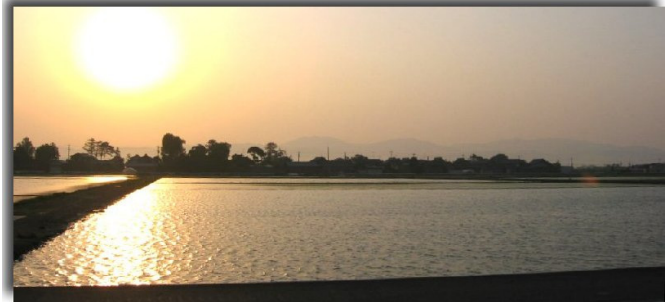
ときどき歳時記

(3)◆古九頭龍川湖灣◆相当古い話で縄文前期になるのだが、當時は今の九頭龍(くずりゅう)川の河口は南の方に10km以上も擴

がっていたそうである。というより川ではなく坂井平野は大きな灣となっていて、福井市も足羽山が半島か島になって顔を出しているだけで他は沈んでいたらしい。◆言ってみれば、私が足羽山(W GRIFFISの頃は愛宕山)の天文臺で観測を終えて、山を車で下りると直ぐにズブズブと水の中に入り、23kmほど海の底を走って、三國病院(これも海の中)を越えて漸く淺瀬から這い出して、坂を上り右に陣ヶ岡を見て左(南)に入ると埒に辿り着ける譯である。もう少し南には北杉谷遺跡があり、加越臺地の南限になるが、その線に沿って内陸の芦原の方には舟津(貝塚で有名)という處がある。更に東にNs氏の金津がある。金津が灣に面していたかどうか知らないが、竹田川を介して津であったことは確かであろう。足羽山の西にも久喜津という處がある。これも日野川沿いである。◆灣には今の九頭龍川、日野川、足羽川、竹田川等が流れ込み、遂に時代が下がって沖積平野が出来るのだが、九頭龍川はツイこの間まで「崩(くずれ)川」と呼ばれていた譯で(三國の資料館-龍翔館にそういう地圖がある)、灣が湖になり、湖が川に分割されてからも治水の難しい、島村の多い處であったのだと思う。いまは足羽川は日野川に、日野川は九頭龍川に合流させられ、最後は竹田川を併合して三國湊で日本海に到る。川幅は北の方に狭められている。三國坂中井(日本書紀)の土地はこうして永く濕地であったのだらうと思うが、今は九頭龍川と無関係な様に、田園風景の擴がる平野である。コシヒカリの誕生地として知られる。

◆その坂井平野が「湖」と化すときがある。四月末から五月の聯休に掛けての季節で、一齋に田

に水が入るからである。今年は夕陽を受けて水田の中を走って天文臺へ向かったのだが、實は朝の方が氣持が好い。昨年五月は火星は朝方の観測で、一観測終えて朝日に照らされる水を張った田毎の光景を目にするのは歸りの愉しみであった。但し、



夜中暗い内は餘り氣持の好いものではない。街燈に照らされて、水面が感じられると、まるで火星街道はそれこそ湖の中の細道と化し、不氣味で運轉が危うい。◆然し、この湖風景もホンの暫くの間である。半端に苗が育つ様になると、興醒めだ。だが、その頃になると、一足先に麥畑が繁茂して眺望の好いところが出現する。五月も今頃に



なると麥穂が實って黄金の野が擴がるからである。麥秋である。これも時期を過ぎると勢いが無くなるのだが、麥秋は初夏の季語であろう。それも朝霧の中から現れるときは抜群である。(写真は共に昨年2007年五月の早朝撮影のもの。) (Mn)

シー・エム・オー・フクイ

中島 孝 Nj

★前回報告以降、中島 守正様(406、最終)、比嘉 保信様(407)、森田 行雄様(408)よりカンパを頂戴いたしました。有難うございました。不一

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