



M83 Gilles



→ Les Darks, Flats et Lights sont « débayerisés » à l'aide du script BatchDebayer :

Batch Debayer Script v1.2.6 A batch image debayer conversion utility for OSC CCD and DSLR imag Debayer process to each with the specified Bayer pattern and debayer	gers. This script collects a batch of files an ing method. Then it writes the resulting R	nd applies the GB color images to
the specified output directory. The output format can be selected by r Based upon an original script created by Niall J. Saunders, with contrib Vrastil. Last updated on 2013/01/18.	nodifying the output file extension (.fit by utions from Ken Pendlebury, Juan Coneje	y default). ero and Zbynek
— Input Images ————		
C:/Users/Tycho/Documents/Astro/Concours PixinSight/Images brut	es/M83/Source_M83-Darks/M83-4-300s-0	0-C1.fit
C:/Users/Tycho/Documents/Astro/Concours PixinSight/Images brut	es/M83/Source_M83-Darks/M83-4-300s-1	l-C1.fit
C:/Users/Tycho/Documents/Astro/Concours PixinSight/Images brute	es/M83/Source_M83-Darks/M83-4-300s-2	2-C1.fit
C:/Users/Tycho/Documents/Astro/Concours PixinSight/Images brute	es/M83/Source_M83-Darks/M83-4-300s-3	3-C1.fit
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➔ N'ayant pas de bias on passe directement à l'Intégration des Darks pour production du MasterDark Paramètres ImageIntegration pour le masterDark :



→ N'ayant pas de bias on passe directement à l'Intégration des Flatss pour production du MasterFlat Paramètres ImageIntegration pour le masterFlat

Integration of 15 images: Pixel combination median Output normalization none Scale estimator iterative k-sigma / BWMV Pixel rejection Winsorized sigma clipping Rejection normalization none Rejection clippings low=yes high=yes Rejection parameters sigma_low=6.000 sigma_high=3.500				
Résultats :				
Total : 117422 0.128% 0.049%)	(72754 + 44668 = 0.079% +			
MRS noise evaluation: done Computing noise scaling factors: done				
Gaussian noise estimates Scale estimates Location estimates SNR estimates Reference noise reduction Median noise reduction	: 2.4563e-003 3.0973e-003 3.0461e-003 : 3.5141e-002 7.3689e-002 7.1909e-002 : 3.1335e-001 6.9869e-001 6.9786e-001 : 1.6382e+004 5.0780e+004 5.2340e+004 : 1.9181 1.7020 1.7664 : 1.6821 1.4716 1.5123			

→ Puis calibration sur images brutes (application Master Dark et Master Flat)

	ImageCalibration	≖ ×
Targ	et Frames	\$
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Pente		

- → Cosmetic pour enlever pixels chauds et froids. Paramètres à 1,5 et 0,9
- → Exécution du Scipt BatchProcessing/SubFrameSelector pour identifier la meilleurs image (Meilleur FWHM) et éliminer éventuellement les images avec fond de ciel important (passage de nuage ou autres).

La FWHM moyenne la plus faible est sur l'image M83-3-300s-3-C0.fit (2,3)

- → L'usage du Process Blink met en évidence que l'image M83-2-300s-0-C0.fit est à éliminer (dominante rouge sur tout un coté -les 3/4- de l'image) et bleu sur le reste.
- → StarAlignment =>

		StarAlignment	≖ ×
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Regi	stration model:	Projective Transformation	
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➔ Process DynamicCrop : Définir sur l'image la plus décalée la zone à croper et sauvegarder le process sur le bureau.

→ Ouvrir un ImageContainer (dans les Process ou par Ctrl+Alt+I). Par Add File ajouter tous les fichiers à croper, puis faire glisser le triangle de ImageContainer sur l'icône du Process DynamicCrop sauvegardé sur le bureau.

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K & Y

- → Avec le script SubFrameSelector, identifier l'image qui a le meilleur SNR.
- → Le SNR le plus élevé est sur l'image M83-1-300s-11-C0



- → L'image prétraitée est toujours en mode linéaire
- → DBE pour retirer le fond de ciel rouge et quelques luminosités dans les angles. Dans Sample Color, mettre le rouge au maxi..

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→ L'image de réjection est la suivante :



 \rightarrow Copie de l'image et passage de cette image en N/B => ConvertToGreayScale

→ Obtention d'un masque à partir de cette copie N/B par l'utilisation du Process Histogram Transformation



➔ Passage de l'image couleur en mode non linéaire par Histogram Transformation puis application du masque préparé en protection des étoiles et de la galaxie.



→ Convolution pour lisser le bruit : Avant

Après



- Inversion du mask pour travailler sur la galaxie et les étoiles.
 AtrouWalvetTransformation redynamiser étoiles et galaxie.

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Après



- Passage sous Photoshop pour ajouter :
 Echelle
 Orientation
 - - → Textes

