

Task #32876 CLOSED



Feature #31387: EGBS processing

EGBS: process the two '400s-PSF' observations 67068 and 67071

Added by Sylvain Mottet 2 months ago. Updated 13 days ago.

Status:	Closed	Start date:	2025-09-18
Priority:	Normal	Due date:	
Assignee:	Sylvain Mottet	% Done:	0%
Category:	Data production	Estimated time:	
Target version:	Version 18.4		
Buddy:			

Description

These two observations of 16 exposures (4 ROS with the same pointing) have been done just before and after the EGBS acquisition and should be used to measure a PSF for EGBS 400s. exposures.

[DbView](#) [DpdVisRawFrame](#) [Data.ObservationSequence.CalblockVariant='400s-PSF'](#)

They will be processed using the r18.4.0 VIS_ProcessField and VIS_PSFCalibration pipelines.

Files

VIS_ProcField_egbs_400sPSF_67071_v18.4.0_20251008_SM1.pdf (36 MB)	Sylvain Mottet, 2025-10-10 15:27	
EUC_VIS_MDL-PSF_250323-250324_20251010T191512.440105Z.psf.CHI2.png (70.4 KB)	Sylvain Mottet, 2025-10-13 10:31	
EUC_VIS_MDL-PSF_250323-250324_20251010T191512.440105Z.psf.PSF_FWHM.png (75.4 KB)	Sylvain Mottet, 2025-10-13 10:31	
EUC_VIS_MDL-PSF_250323-250324_20251010T191512.440105Z.psf (2.38 MB)	Sylvain Mottet, 2025-10-13 10:32	
bulge_stat.png (76.3 KB)	Clotilde Laigle, 2025-10-15 17:45	
comparison_F-001_144_R2_to_bulge.png (189 KB)	Clotilde Laigle, 2025-10-15 17:45	
newversion_stat.png (76.3 KB)	Clotilde Laigle, 2025-10-15 17:45	

Subtasks

Related issues

History

Notes



Updated by Sylvain Mottet about 1 month ago

- **Status** changed from *New* to *In Progress*

submitted VIS_ProcessField pipelines on SDC-ES with [VIS_ProcField_egbs_400sPSF_67068_v18.4.0_20251008_SM0](#) and [VIS_ProcField_egbs_400sPSF_67071_v18.4.0_20251008_SM0](#).



Updated by Sylvain Mottet about 1 month ago

- **File** [VIS_ProcField_egbs_400sPSF_67071_v18.4.0_20251008_SM1.pdf](#) added

The VIS_ProcessField pipelines have completed:

- [VIS_ProcField_egbs_400sPSF_67068_v18.4.0_20251008_SM0](#)
- [VIS_ProcField_egbs_400sPSF_67071_v18.4.0_20251008_SM1.pdf](#)

(The 67071 execution report is attached in PDF because of a bug when generating it ([#33157](#)) but the pipeline itself completed successfully)

We're lucky, no solar event (X-ray/protons) or guiding issue affected any of the exposures.

I'm running the PSF calibration pipeline.

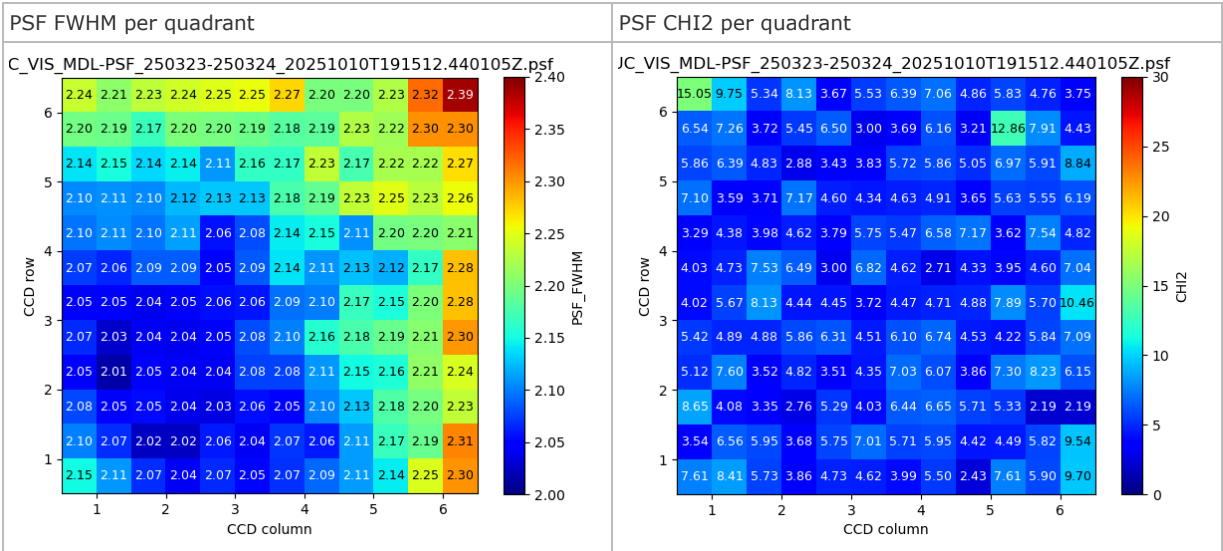


Updated by Sylvain Mottet about 1 month ago

- File [EUC_VIS_MDL-PSF_250323-250324_20251010T191512.440105Z.psf.CHI2.png](#) added
- File [EUC_VIS_MDL-PSF_250323-250324_20251010T191512.440105Z.psf.PSF_FWHM.png](#) added
- File [EUC_VIS_MDL-PSF_250323-250324_20251010T191512.440105Z.psf](#) added

The EGBS PSF calibration pipeline has completed in /sps/euclid/Users/smottet/wrk_egbs_400s-PSF_32876/ppo_PSFcal_egbs_400sPSF_32exp_v18.5.

Control plots:



The generated PSF model is: [EUC_VIS_MDL-PSF_250323-250324_20251010T191512.440105Z.psf](#)

It has been produced with:

```
[VIS_PSFex]
PSF_SIZE = 21,21
SAMPLE_FWHMRANGE = 1.8,2.8
PSFVAR_DEGREES = 2
PSF_SAMPLING = 1.0
```

Let me know if you want to try different parameters.

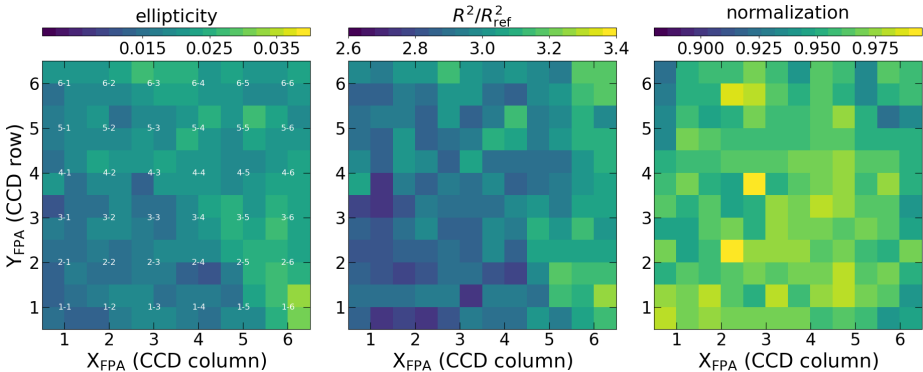


Updated by Clotilde Laigle about 1 month ago

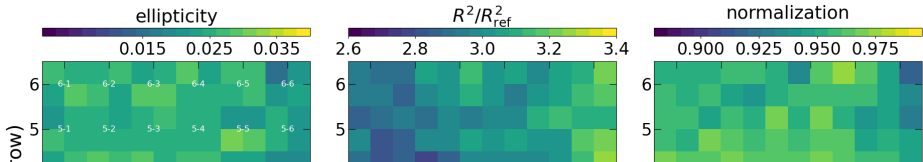
- File [bulge_stat.png](#) added
- File [comparison_F-001_144_R2_to_bulge.png](#) added
- File [newversion_stat.png](#) added

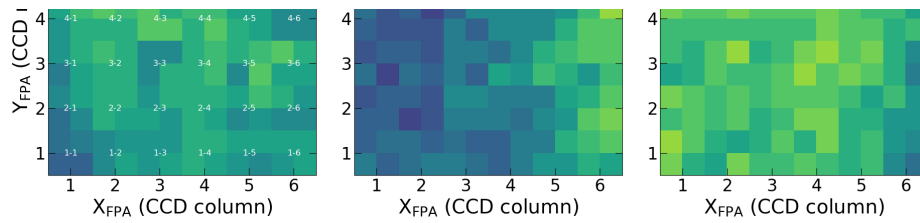
the PSF is quite similar to the one produced on F-001_144 (march 2025) with PF v184.

- EGBS

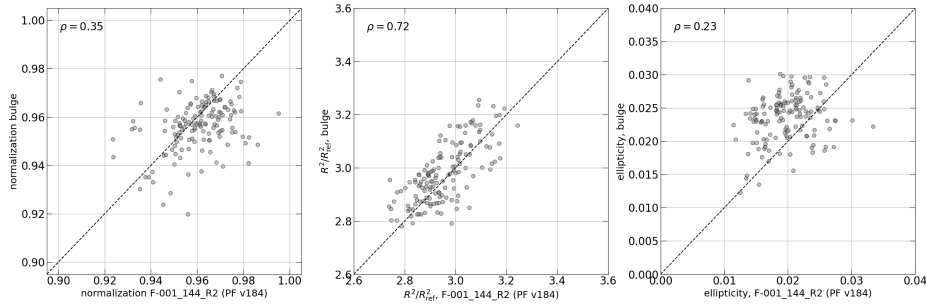


- F-001_144_R2 (PF v184)





- comparison of the metrics



Updated by [Sylvain Mottet](#) about 1 month ago

Thank you, Clotilde



Updated by [Sylvain Mottet](#) 13 days ago

- **Status** changed from *In Progress* to *Closed*

All the files have been copied to /n25data1/egbs/egbs-public/EGBS_400s-PSF on candide, closing.