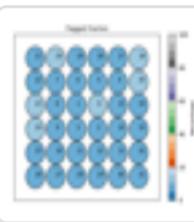
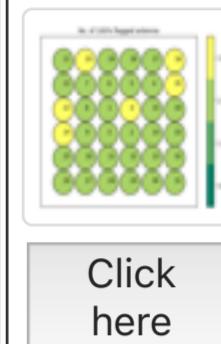
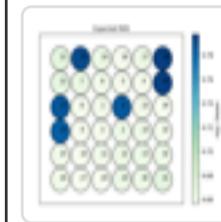


FLASH Spectral Line Data Validation Report

Observation

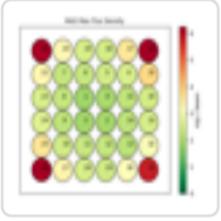
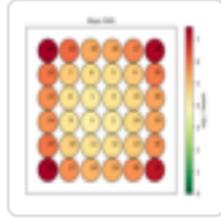
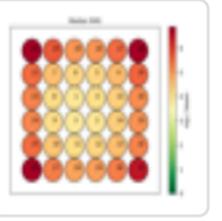
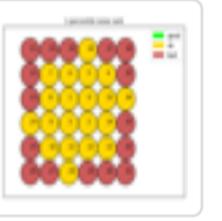
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
10849	36	17-Dec-2019/10:28:09.2	17-Dec-2019/12:28:15.4	2.0	FLASH_351P	22:11:19.2	-25.07.47.2	288.0

Processed Image Cube

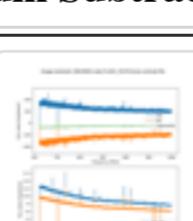
ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	10849	711.5-999.481	855.4907	15552	18.519	28.11 × 25.31			 Click here	

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
				
Stdev, MADFM	Stdev, MADFM			

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 10 Click here	n= 7 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

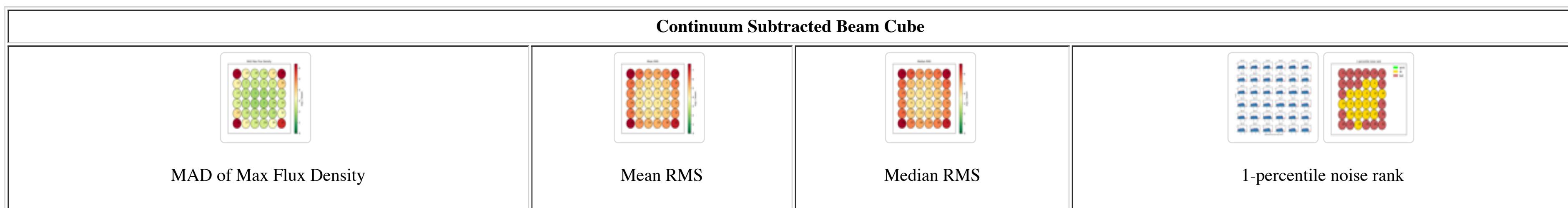
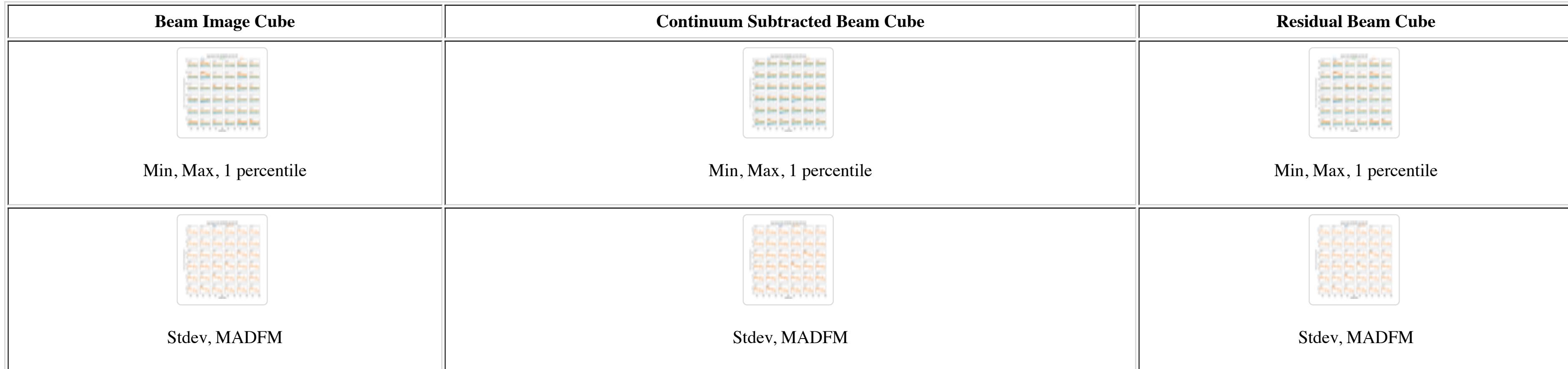
Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
10850	36	17-Dec-2019/12:29:35.0	17-Dec-2019/14:29:41.2	2.0	FLASH_302P	00:00:00.0	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec x arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	10850	711.5--999.481	855.4907	15552	18.519	28.89 x 25.37				

Beams Statistics



Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 10 Click here	n= 7 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 x 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
11051	36	05-Jan-2020/07:30:56.9	05-Jan-2020/09:38:11.1	2.1	FLASH_352P	22:38:29.4	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	11051	711.5-999.481	855.4907	15552	18.519	25.11 × 22.78				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube			
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 9 Click here	n= 6 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
11052	36	05-Jan-2020/09:40:50.3	05-Jan-2020/11:40:56.5	2.0	FLASH_353P	23:05:39.6	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	11052	711.5-999.481	855.4907	15552	18.519	26.81 × 23.34				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	1-percentile noise rank
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 8 Click here	n= 6 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

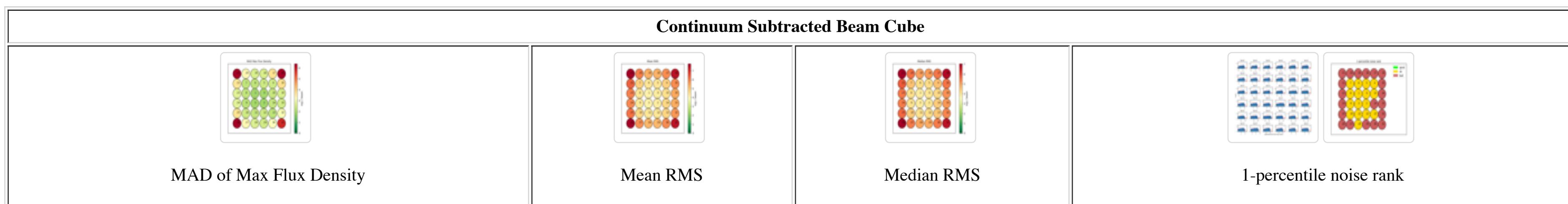
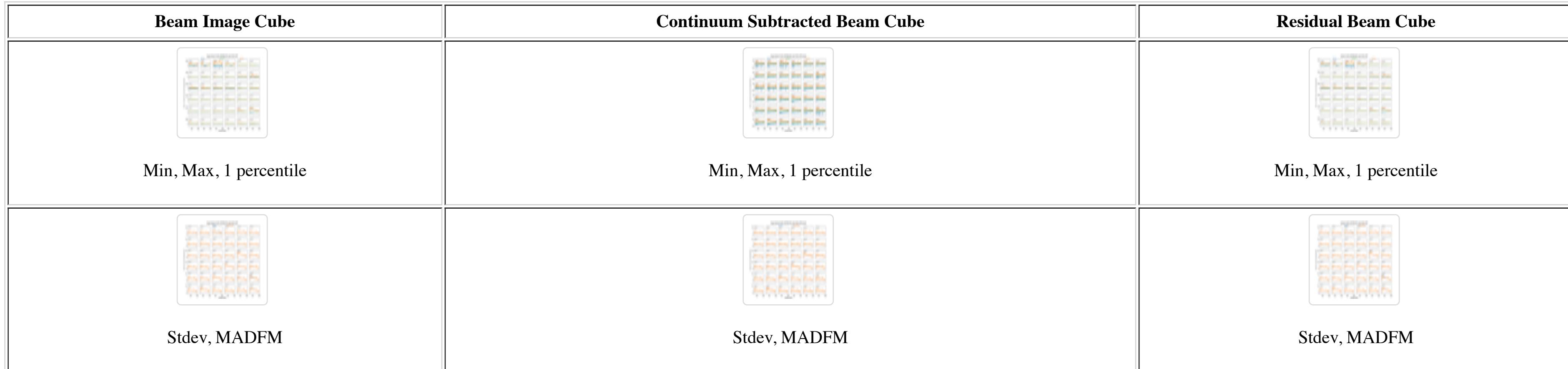
Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
11053	36	05-Jan-2020/11:42:06.2	05-Jan-2020/13:42:12.4	2.0	FLASH_303P	00:27:10.1	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	11053	711.5--999.481	855.4907	15552	18.519	28.74 × 23.57				

Beams Statistics



Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 10 Click here	n= 7 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
11068	36	07-Jan-2020/14:57:10.4	07-Jan-2020/21:36:08.0	6.7	FLASH_G9B_long	09:12:25.2	+00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	11068	711.5-999.481	855.4907	15552	18.519	27.54 × 24.79				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 5 Click here	n= 3 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

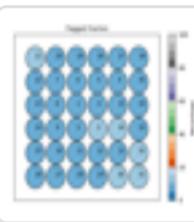
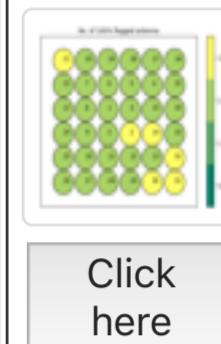
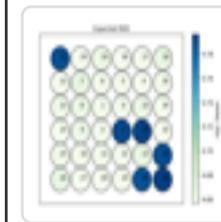
[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

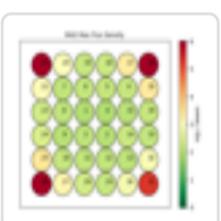
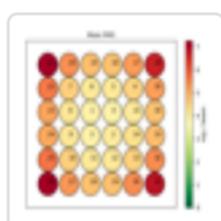
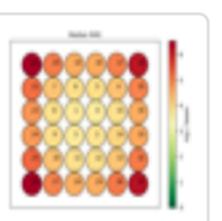
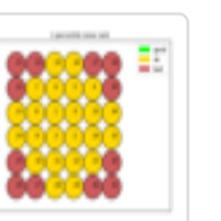
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13268	36	17-Apr-2020/05:52:21.0	17-Apr-2020/07:52:27.2	2.0	FLASH_307P	02:15:50.9	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13268	711.5-999.481	855.4907	15552	18.519	27.66 × 22.81			 Click here	

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM		

Continuum Subtracted Beam Cube

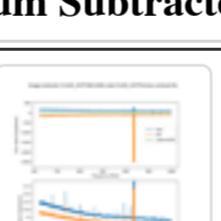
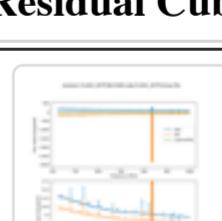
MAD of Max Flux Density

Mean RMS

Median RMS

1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 40 Click here	n= 2 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13269	36	17-Apr-2020/07:54:16.7	17-Apr-2020/09:54:22.9	2.0	FLASH_309P	03:10:11.3	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13269	711.5-999.481	855.4907	15552	18.519	30.9 × 22.65				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 44 Click here	n= 3 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

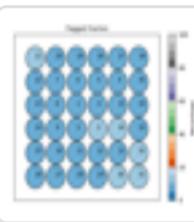
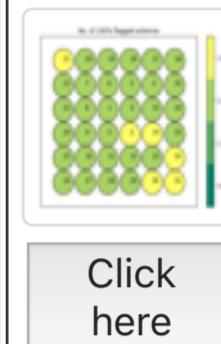
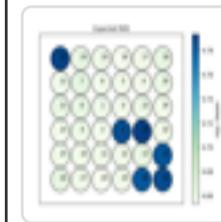
[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

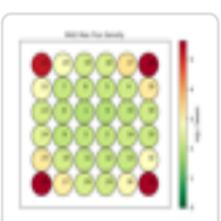
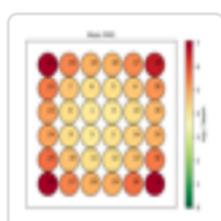
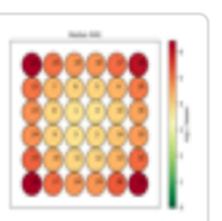
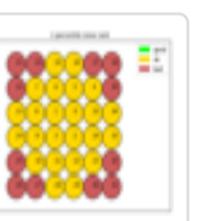
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13270	36	17-Apr-2020/09:56:32.3	17-Apr-2020/11:56:38.4	2.0	FLASH_718P	08:43:38.1	+18.51.28.8	288.0

Processed Image Cube

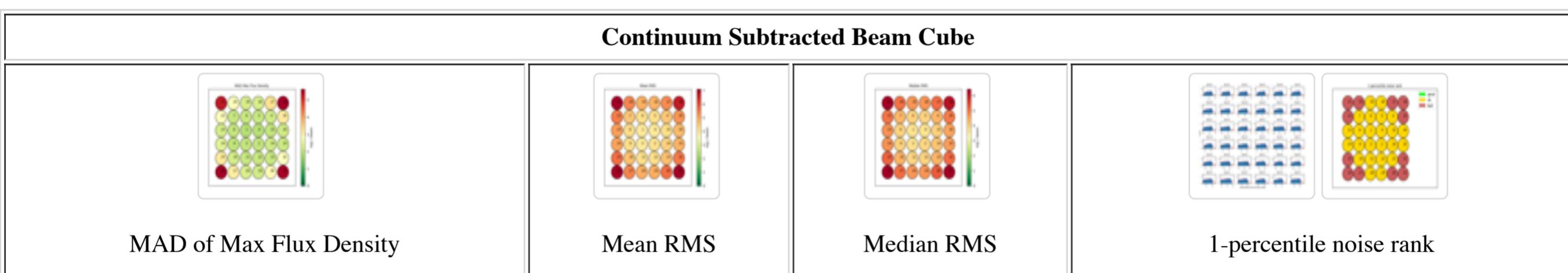
ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13270	711.5-999.481	855.4907	15552	18.519	29.06 × 25.09			 Click here	

Beams Statistics

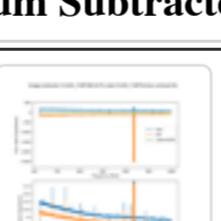
Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
				
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM		

Continuum Subtracted Beam Cube



Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 46 Click here	n= 7 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13271	36	17-Apr-2020/11:57:38.1	17-Apr-2020/13:57:44.3	2.0	FLASH_719P	09:09:49.0	+18.51.28.8	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13271	711.5-999.481	855.4907	15552	18.519	31.47 × 23.97				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	Bandpass Smoothing Issue

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 45 Click here	n= 7 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13272	36	17-Apr-2020/13:58:54.0	17-Apr-2020/15:59:00.2	2.0	FLASH_608P	10:33:06.2	+06.17.42.1	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13272	711.5-999.481	855.4907	15552	18.519	30.44 × 23.27				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 45 Click here	n= 6 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13273	36	17-Apr-2020/16:01:49.4	17-Apr-2020/18:01:55.6	2.0	FLASH_G15B	14:41:22.7	+00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13273	711.5-999.481	855.4907	15552	18.519	26.72 × 24.17				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 39 Click here	n= 1 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

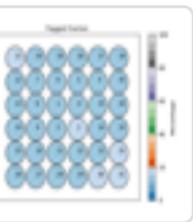
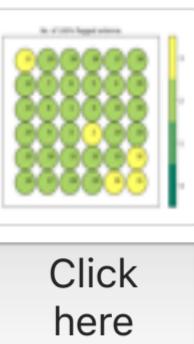
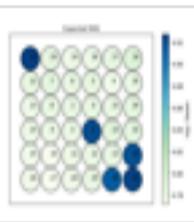
[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

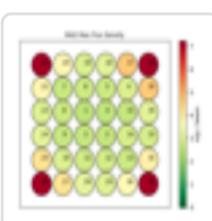
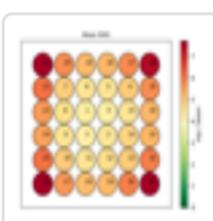
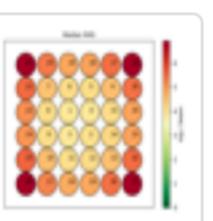
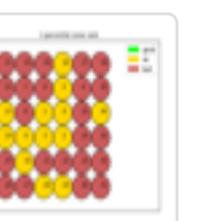
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13278	36	17-Apr-2020/22:32:29.4	18-Apr-2020/00:32:35.5	2.0	FLASH_159P	22:46:09.2	-50.05.45.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13278	711.5-999.481	855.4907	15552	18.519	27.84 × 22.61			 Click here	

Beams Statistics

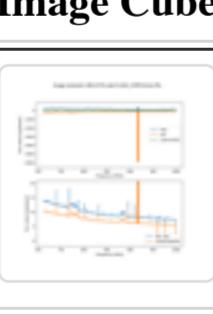
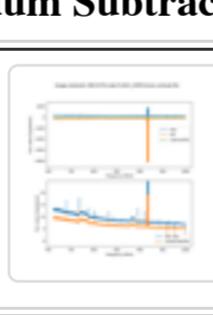
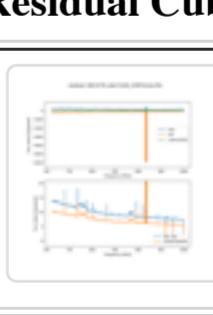
Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
				
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM		

Continuum Subtracted Beam Cube

MAD of Max Flux Density Mean RMS Median RMS 1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 44 Click here	n= 6 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13279	36	18-Apr-2020/00:34:35.0	18-Apr-2020/02:34:41.1	2.0	FLASH_354P	23:32:49.8	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13279	711.5-999.481	855.4907	15552	18.519	26.48 × 22.41				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube			
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 43 Click here	n= 5 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13281	36	18-Apr-2020/04:40:15.8	18-Apr-2020/06:40:12.0	2.0	FLASH_306P	01:48:40.7	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13281	711.5-999.481	855.4907	15552	18.519	26.85 × 22.93				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 41 Click here	n= 3 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

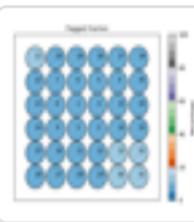
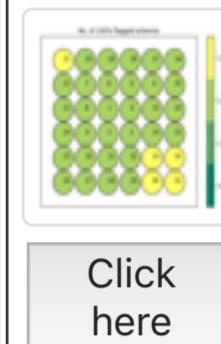
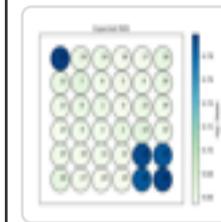
[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

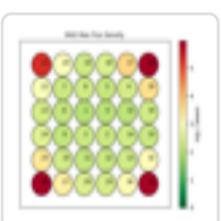
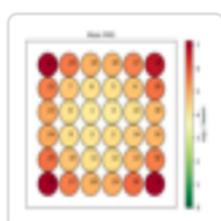
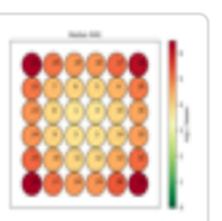
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13283	36	18-Apr-2020/08:44:27.0	18-Apr-2020/10:44:33.2	2.0	FLASH_G9B	09:12:25.2	+00.30.00.0	288.0

Processed Image Cube

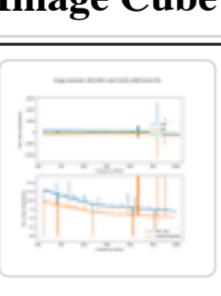
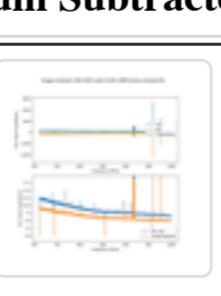
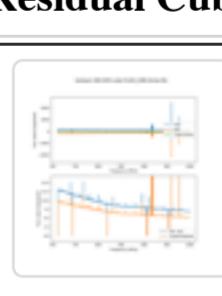
ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13283	711.5-999.481	855.4907	15552	18.519	28.67 × 25.03			 Click here	

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 45 Click here	n= 7 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13284	36	18-Apr-2020/10:45:42.8	18-Apr-2020/12:45:49.0	2.0	FLASH_607P	10:08:16.5	+06.17.42.1	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13284	711.5-999.481	855.4907	15552	18.519	26.31 × 25.56				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 46 Click here	n= 6 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13285	36	18-Apr-2020/12:46:48.7	18-Apr-2020/14:46:54.9	2.0	FLASH_G9A	08:47:35.5	+00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13285	711.5-999.481	855.4907	15552	18.519	32.69 × 22.47				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube			
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

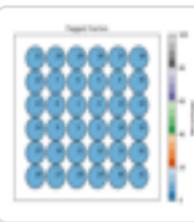
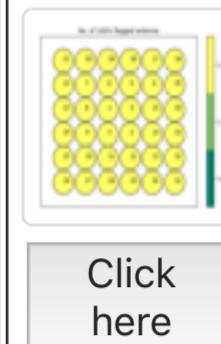
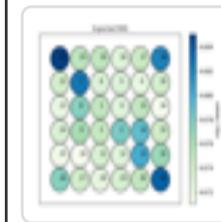
[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13290	36	19-Apr-2020/03:24:30.7	19-Apr-2020/05:24:36.8	2.0	FLASH_123P	00:36:55.3	-50.05.45.2	288.0

Processed Image Cube

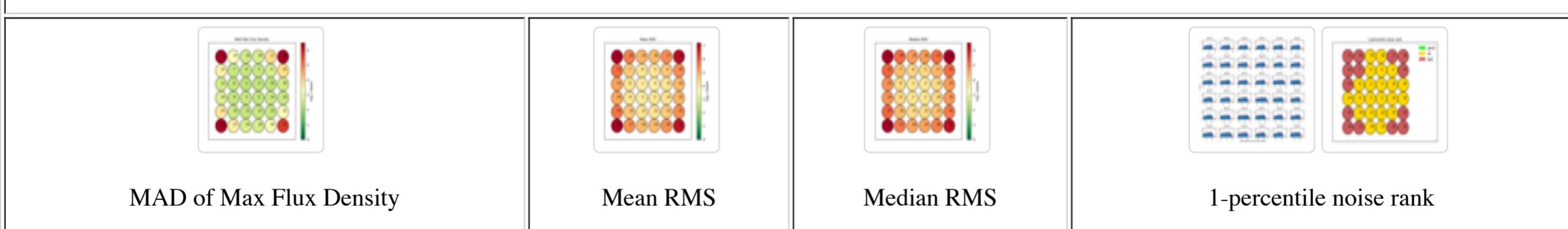
ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13290	711.5-999.481	855.4907	15552	18.519	25.65 × 24.45				

Beams Statistics

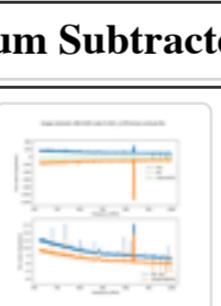
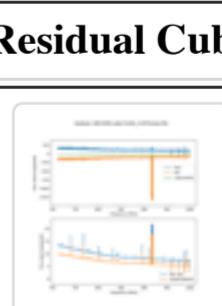
Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM

Continuum Subtracted Beam Cube



Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 149 Click here	n= 143 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

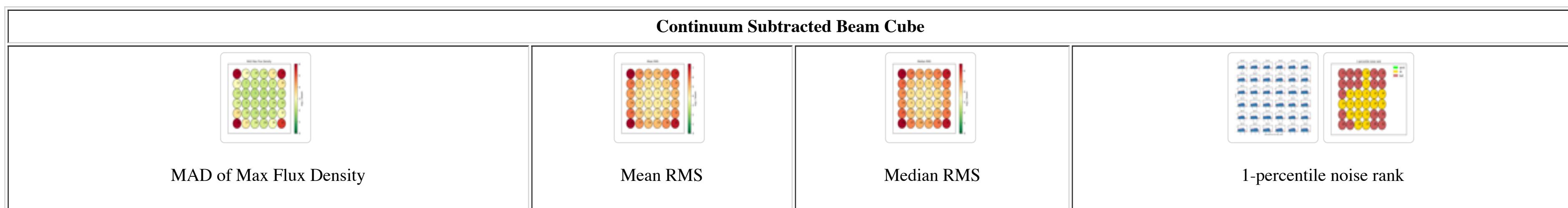
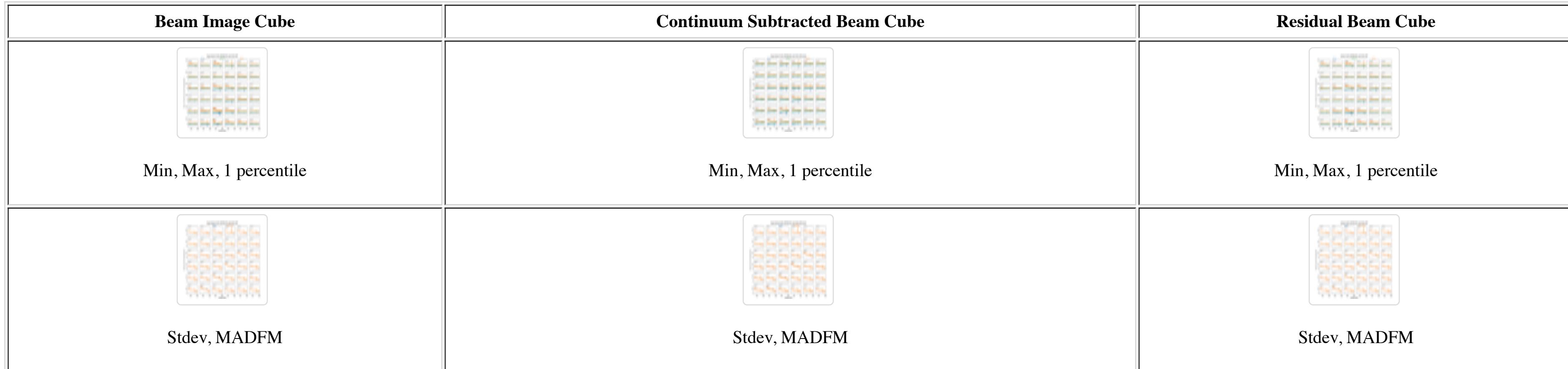
Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13291	36	19-Apr-2020/05:26:36.3	19-Apr-2020/07:26:42.5	2.0	FLASH_304P	00:54:20.3	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec x arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13291	711.5--999.481	855.4907	15552	18.519	30.58 x 22.66			Click here	

Beams Statistics



Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 42 Click here	n= 4 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 x 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13293	36	19-Apr-2020/08:29:22.1	19-Apr-2020/14:29:30.7	6.0	FLASH_G9A_long	08:47:35.5	+00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.14	13293	711.5-999.481	855.4907	15552	18.519	28.51 × 24.49				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 149 Click here	n= 8 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

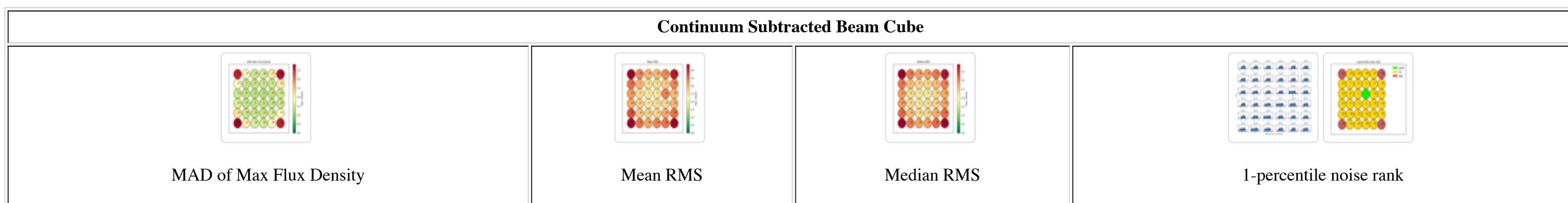
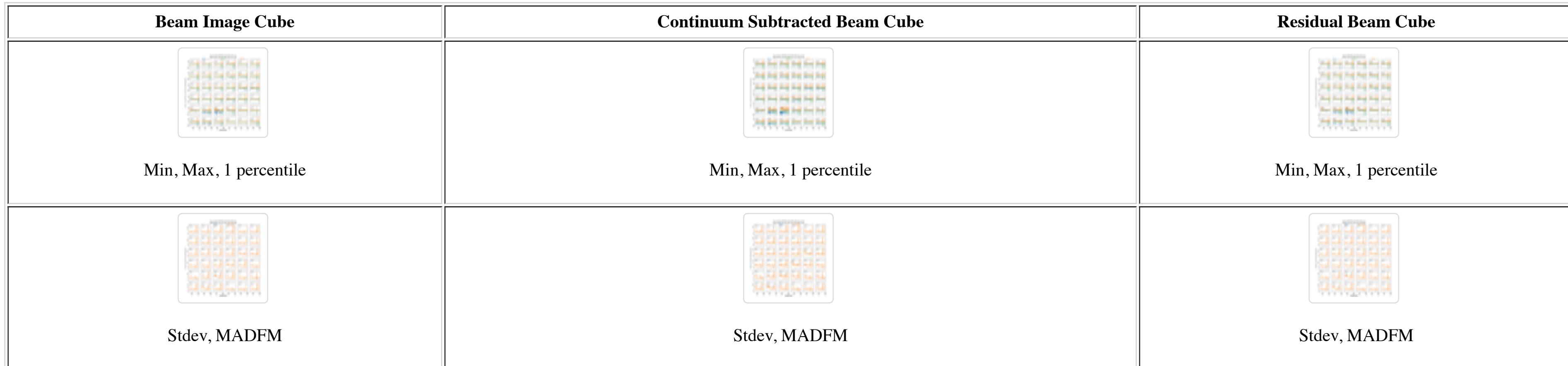
Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13294	36	19-Apr-2020/14:31:50.1	19-Apr-2020/20:31:58.6	6.0	FLASH_G15A_long	14:16:33.1	+00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec x arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13294	711.5--999.481	855.4907	15552	18.519	29.35 x 23.9			Click here	

Beams Statistics



Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 78 Click here	n= 1 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 x 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13296	36	19-Apr-2020/23:02:36.2	20-Apr-2020/01:02:42.4	2.0	FLASH_121P	23:38:49.4	-56.18.22.6	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13296	711.5-999.481	855.4907	15552	18.519	28.67 × 23.3				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 37 Click here	n= 5 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13297	36	20-Apr-2020/01:04:31.9	20-Apr-2020/03:04:38.0	2.0	FLASH_120P	22:56:28.2	-56.18.22.6	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13297	711.5-999.481	855.4907	15552	18.519	25.63 × 24.84				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube			
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 38 Click here	n= 6 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13298	36	20-Apr-2020/03:06:37.5	20-Apr-2020/05:06:43.7	2.0	FLASH_89P	01:03:31.7	-56.18.22.6	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13298	711.5-999.481	855.4907	15552	18.519	25.73 × 24.79				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube			
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 58 Click here	n= 4 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

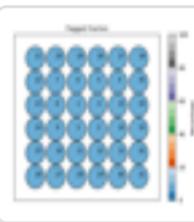
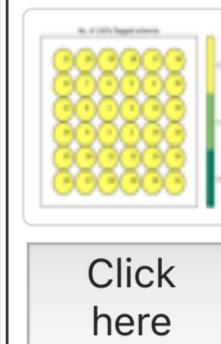
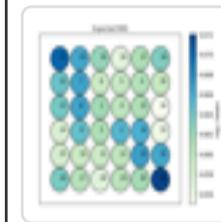
[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

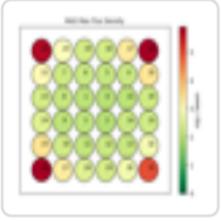
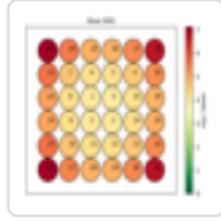
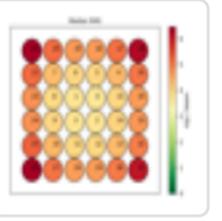
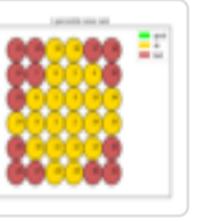
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13299	36	20-Apr-2020/05:08:23.2	20-Apr-2020/07:08:29.4	2.0	FLASH_88P	00:21:10.5	-56.18.22.6	288.0

Processed Image Cube

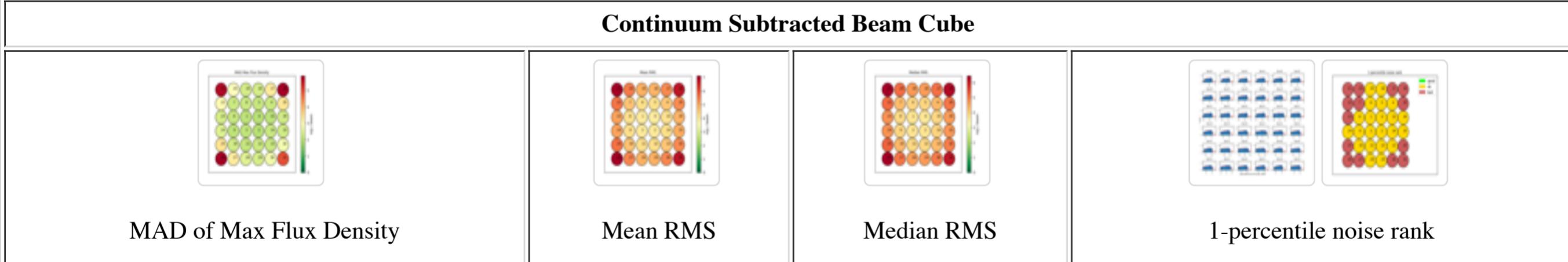
ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13299	711.5-999.481	855.4907	15552	18.519	29.77 × 25.17				

Beams Statistics

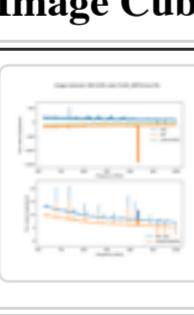
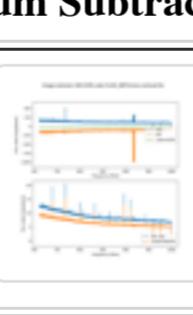
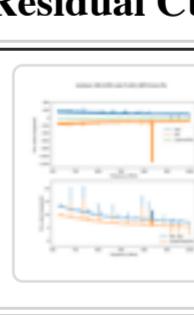
Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
				
Stdev, MADFM	Stdev, MADFM			

Continuum Subtracted Beam Cube



Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 12 Click here	n= 5 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13305	36	20-Apr-2020/10:11:17.9	20-Apr-2020/12:11:24.0	2.0	FLASH_550P	10:33:06.2	+00.00.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13305	711.5-999.481	855.4907	15552	18.519	28.01 × 24.89				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS		

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 45 Click here	n= 6 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13306	36	20-Apr-2020/12:12:33.7	20-Apr-2020/18:12:42.3	6.0	FLASH_G12A_long	11:47:35.1	-00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13306	711.5-999.481	855.4907	15552	18.519	29.84 × 23.64				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	Bandpass Smoothing Issue
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 41 Click here	n= 3 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13334	36	21-Apr-2020/11:15:24.3	21-Apr-2020/13:15:30.4	2.0	FLASH_G12A	11:47:35.1	-00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13334	711.5-999.481	855.4907	15552	18.519	28.29 × 24.82				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 9 Click here	n= 3 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13335	36	21-Apr-2020/13:16:40.1	21-Apr-2020/15:16:46.3	2.0	FLASH_G12B	12:12:24.8	-00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13335	711.5-999.481	855.4907	15552	18.519	26.69 × 24.04				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM	Stdev, MADFM

Continuum Subtracted Beam Cube

MAD of Max Flux Density Mean RMS Median RMS 1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 27 Click here	n= 2 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13336	36	21-Apr-2020/15:18:35.8	21-Apr-2020/17:18:41.9	2.0	FLASH_G15A	14:16:33.1	+00.30.00.0	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec \times arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	13336	711.5-999.481	855.4907	15552	18.519	26.7 \times 24.19			 Click here	

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM



Continuum Subtracted Beam Cut

MAD of Max Flux Density

Mean RMS

Median RMS

1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 39 Click here	n= 1 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6×6 sq degree (Condon+ 1998)

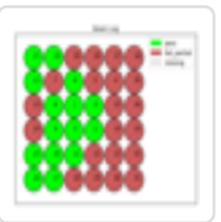
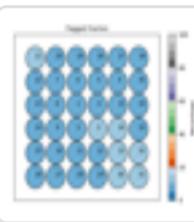
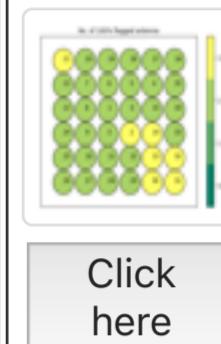
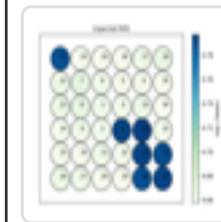
Click here

FLASH Spectral Line Data Validation Report

Observation

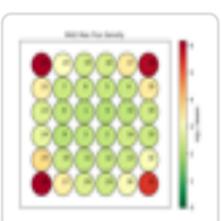
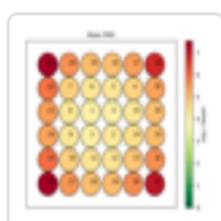
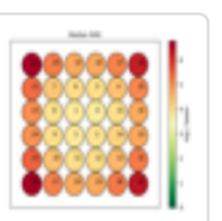
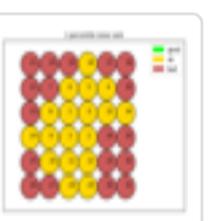
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
13372	36	22-Apr-2020/00:34:49.1	22-Apr-2020/02:34:55.3	2.0	FLASH_305P	20:22:38.4	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	13372	711.5-999.481	855.4907	15552	18.519	29.97 × 22.66			 Click here	

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
				
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM		

Continuum Subtracted Beam Cube

MAD of Max Flux Density Mean RMS Median RMS 1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 29 Click here	n= 7 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
15208	36	04-Jul-2020/13:02:12.7	04-Jul-2020/15:02:18.9	2.0	FLASH_194P	18:25:06.9	-43.52.21.3	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	15208	711.5-999.481	855.4907	15552	18.519	22.81 × 20.56				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube			
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 221 Click here	n= 219 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

[Click here](#)

FLASH Spectral Line Data Validation Report

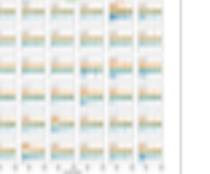
Observation

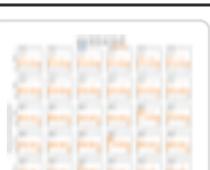
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
15209	36	04-Jul-2020/15:03:28.6	04-Jul-2020/17:03:34.8	2.0	FLASH_197P	20:05:34.8	-43.52.21.3	288.0

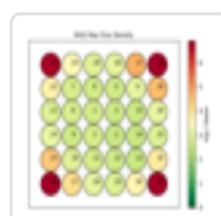
Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec \times arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	15209	711.5-999.481	855.4907	15552	18.519	22.43 \times 20.46			 Click here	

Beams Statistics

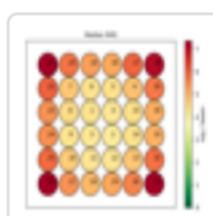
Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM



MAD of Max Flux Density

Mean RMS



Median RMS



1-percentile noise rank

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 221	n= 219	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6×6 sq degree (Condon+ 1998)

Click here

FLASH Spectral Line Data Validation Report

Observation

SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
15212	36	04-Jul-2020/21:37:17.7	04-Jul-2020/23:37:23.8	2.0	FLASH_308P	02:43:01.1	-25.07.47.2	288.0

Processed Image Cube

ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.1.0	15212	711.5-999.481	855.4907	15552	18.519	22.79 × 20.09				

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	Bandpass Smoothing Issue

Mosaic Statistics

Image Cube	Continuum Subtracted Cube	Residual Cube
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 363 Click here	n= 360 Click here	No

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

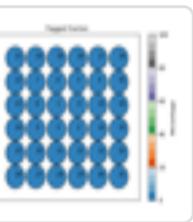
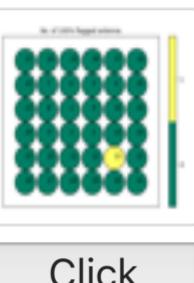
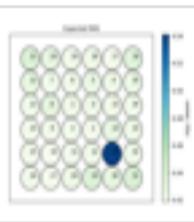
[Click here](#)

FLASH Spectral Line Data Validation Report

Observation

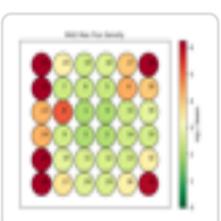
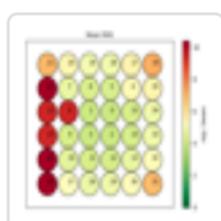
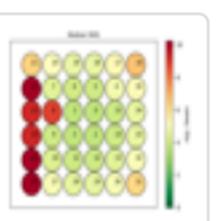
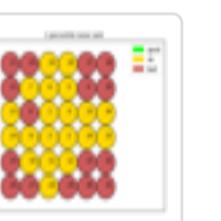
SBID	No. of Antennas	Obs Start Date/Time (UTC)	Obs End Date/Time (UTC)	Duration (hr)	Field	R.A.	Decl.	Total Bandwidth (MHz)
15873	36	04-Sep-2020/13:45:40.5	04-Sep-2020/15:45:36.7	2.0	FLASH_160P	23:23:04.6	-50.05.45.2	288.0

Processed Image Cube

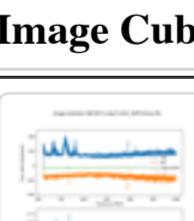
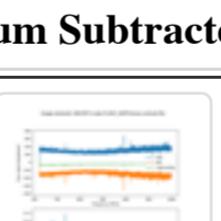
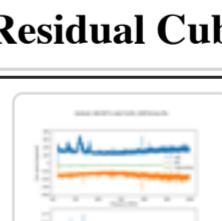
ASKAPsoft version	Cal SBID	Frequency Range (MHz)	Central Frequency (MHz)	No. of Channels	Channel Width (kHz)	Synthesised Beam (arcsec × arcsec)	Beam Logs	Flagged Fractions	Flagged Antennas	Expected RMS
1.0.16	15873	711.5-999.481	855.4907	15552	18.519	26.19 × 22.71			 Click here	

Beams Statistics

Beam Image Cube	Continuum Subtracted Beam Cube	Residual Beam Cube
		
Min, Max, 1 percentile	Min, Max, 1 percentile	Min, Max, 1 percentile

Continuum Subtracted Beam Cube				
				
MAD of Max Flux Density	Mean RMS	Median RMS	1-percentile noise rank	
Stdev, MADFM	Stdev, MADFM	Stdev, MADFM		

Continuum Subtracted Beam Cube

Image Cube	Continuum Subtracted Cube	Residual Cube
		
Number of Bad Quality Channel	Number of Missing Data Channel	Bandpass Smoothing Issue*
n= 9 Click here	n= 3 Click here	Yes

* SBIDs processed prior to March 2021 were affected by issues with bandpass smoothing parameterisation, resulting in a higher incidence of glitches on 1 MHz intervals.

NVSS sources within 6 × 6 sq degree (Condon+ 1998)

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