5.2.2.3 NAC FM PRF LOCATION DEPENDENCE CALIBRATION RESULTS

As reported in Reference 5.2.2.3-1

Reference 5.2.2.3-1 - IOM 388-PAG-CCA98-12, "NAC FM Calibration Results: PRF Location Dependence", C. Avis, April 22, 1998

Reference 5.2.2.3-2 - IOM 388-PAG-CCA98-5, "NAC FM Calibration Results: Point Response Function", C. Avis, March 11, 1998 - See Section 5.2.2.1

5.2.2.3.1 INTRODUCTION

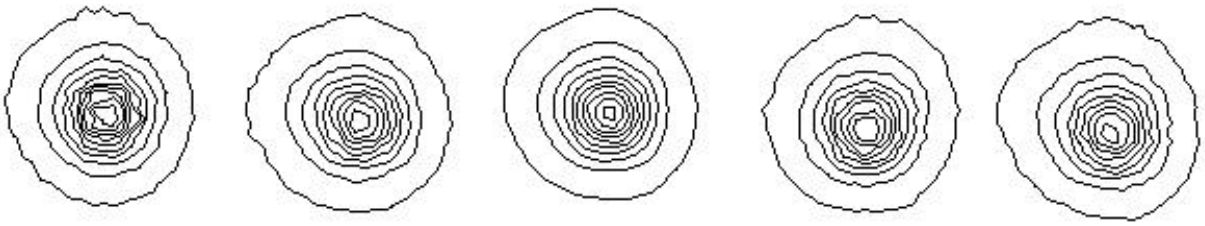
The Flight Model thermal/vacuum testing included the acquisition of images taken of simulated point sources. This memo reports on the use of those images to characterize the Point Response Function (PRF) dependence upon the intrapixel location of the centroid. The point response may differ when the centroid of a point image falls:

- in the center of a pixel
- at the edge between two horizontally-adjacent pixels
- at the edge between two vertically-adjacent pixels
- at the corner between four pixels

This analysis used selected point images from selected images from the Point Response tests described in Reference 5.2.2.3-2. See that report for more details.

5.2.2.3.2 METHOD

The available set of points was searched to find points whose centroids fell within 0.09 pixels of the above desired locations. The resulting small set of data was then processed normally except for the presentation of the results. Recall from Reference 5.2.2.3-2 that the CL1/CL2 +5° C appeared as illustrated below.



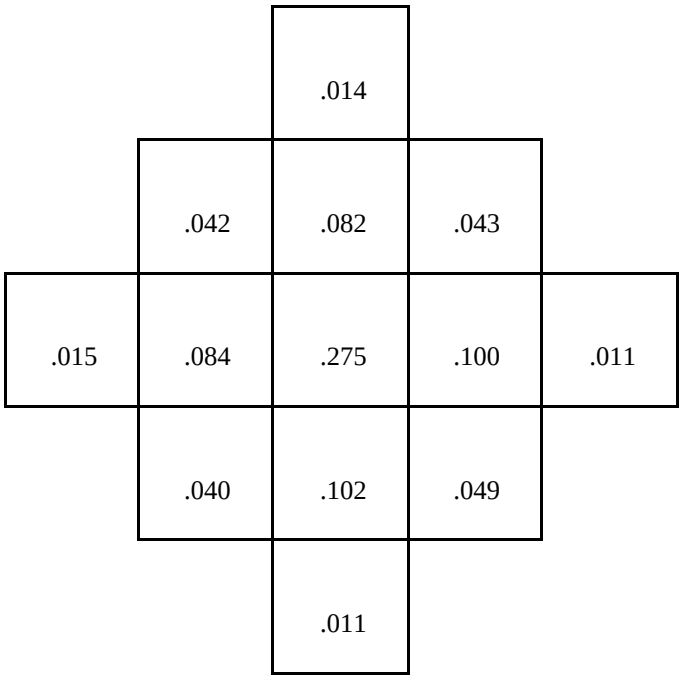
	Upper left	Upper right	Center	Lower left	Lower right
max=	.31	.26	.29	.28	.27

5.2.2.3.3 RESULTS

The plots and contours shown in Reference 5.2.2.3-2 are not appropriate for this restricted data. Therefore, the responses of the pixels surrounding the centroid are presented numerically below. This makes it easier, also, to judge the symmetry of the response.

In the illustrations below, the squares represent pixels surrounding the centroid location. The centroid location is always at the center of the illustration. Inside the squares are the values of the mean normalized response accumulated from all points which met the selection criteria. The typical standard deviation of values is 0.02. These results are for the +5° C CL1/CL2 case only.

Using points whose centroids fell near the center of pixels (357 points used).



Using points whose centroids fell near a corner between 4 pixels (444 points used).

.013	.032	.033	.010
.036	.134	.148	.028
.032	.152	.186	.029
.009	.026	.028	.010

Using points whose centroids fell near the center of horizontal edge between two pixels (499 points used).

	.021	.038	.021	
.014	.072	.179	.078	.010
.012	.068	.227	.086	.010
	.017	.031	.020	

Using points whose centroids fell near the center of vertical edge between two pixels (499points used).

	.013	.013	
.023	.070	.071	.018
.040	.185	.219	.032
.019	.077	.086	.019
	.009	.011	

5.2.2.3.4 CONCLUSIONS

1. This analysis shows an asymmetry in the response of the pixels near the centroid in general favoring the lower right pixels. The point images are slightly asymmetric (see contours above), so equal response of neighboring pixels is not to be expected.

5.2.2.3.5 Images Used for Analysis

image	day	eventtime	observation	filters	temp
117843	127	13:3:7.0	POINT_RESPONSE_310	CL1 /CL2	26.0
117844	127	13:12:22.0	POINT_RESPONSE_310	CL1 /CL2	26.0
117845	127	13:24:56.0	POINT_RESPONSE_310	CL1 /CL2	26.0
117846	127	13:26:9.0	POINT_RESPONSE_310	CL1 /CL2	26.0
117847	127	13:29:4.0	POINT_RESPONSE_310	CL1 /CL2	26.0
117848	127	13:46:8.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117850	127	13:52:21.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117851	127	13:55:34.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117852	127	13:57:57.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117853	127	13:59:52.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117854	127	14:3:38.0	POINT_RESPONSE_283	CL1 /IR3	26.0
117856	127	14:11:16.0	POINT_RESPONSE_283	CL1 /IR3	26.0
117857	127	14:12:56.0	POINT_RESPONSE_283	CL1 /IR3	26.0
117858	127	14:14:39.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117859	127	14:17:34.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117860	127	14:20:11.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117861	127	14:22:29.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117862	127	14:28:22.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117864	127	14:35:7.0	POINT_RESPONSE_285	CL1 /MT1	26.0
117865	127	14:37:19.0	POINT_RESPONSE_285	CL1 /MT1	26.0
117868	127	14:51:32.0	POINT_RESPONSE_285	CL1 /MT1	26.0
117869	127	14:53:46.0	POINT_RESPONSE_285	CL1 /MT1	26.0
117870	127	15:1:5.0	POINT_RESPONSE_285	CL1 /MT1	26.0
117871	127	15:2:46.0	POINT_RESPONSE_285	CL1 /MT1	26.0
117872	127	15:4:16.0	POINT_RESPONSE_285	CL1 /MT1	26.0
117874	127	15:8:49.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117876	127	15:12:28.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117877	127	15:14:16.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117878	127	15:15:45.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117879	127	15:17:17.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117880	127	15:19:49.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117881	127	15:21:32.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117882	127	15:23:12.0	POINT_RESPONSE_286	IRP0/CB3	26.0
117883	127	15:31:26.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117884	127	15:33:44.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117885	127	15:35:26.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117886	127	15:37:2.0	POINT_RESPONSE_284	CL1 /CB3	26.0
117887	127	15:40:41.0	POINT_RESPONSE_283	CL1 /IR3	26.0
117888	127	15:42:16.0	POINT_RESPONSE_283	CL1 /IR3	26.0
117889	127	15:43:46.0	POINT_RESPONSE_283	CL1 /IR3	26.0
117891	127	15:47:19.0	POINT_RESPONSE_283	CL1 /IR3	26.0
117892	127	15:51:27.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117893	127	15:53:3.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117894	127	15:56:12.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117895	127	15:57:54.0	POINT_RESPONSE_282	BL1 /CL2	26.0
117905	127	19:2:14.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117906	127	19:3:43.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117907	127	19:5:12.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117908	127	19:6:41.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117909	127	19:8:10.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117910	127	19:9:39.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117911	127	19:10:56.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117912	127	19:12:36.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117914	127	19:16:21.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117915	127	19:18:43.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117916	127	19:25:41.0	POINT_RESPONSE_278	CL1 /CL2	26.0
117917	127	19:39:8.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117918	127	19:40:18.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117919	127	19:41:58.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117920	127	19:43:39.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117922	127	19:48:5.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117923	127	19:52:10.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117925	127	20:19:42.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117927	127	20:55:46.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117928	127	21:13:43.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117929	127	21:23:11.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117930	127	21:32:36.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117931	127	21:50:33.0	POINT_RESPONSE_279	CL1 /MT3	26.0
117932	127	22:4:27.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117933	127	22:5:29.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117934	127	22:6:39.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117935	127	22:8:4.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117936	127	22:9:38.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117937	127	22:12:7.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117938	127	22:15:10.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117939	127	22:20:19.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117940	127	22:29:44.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117941	127	22:39:11.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117942	127	22:57:8.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117943	127	23:15:5.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117944	127	23:36:12.0	POINT_RESPONSE_280	IR4 /CL2	26.0
117945	128	0:32:9.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117946	128	0:33:19.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117947	128	0:34:44.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117948	128	0:36:18.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117949	128	0:38:47.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117950	128	0:42:54.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117951	128	0:52:19.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117952	128	1:1:44.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117953	128	1:19:43.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117954	128	1:37:40.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117955	128	1:58:45.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117956	128	2:3:57.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117957	128	2:25:2.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117958	128	2:46:7.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117959	128	3:7:14.0	POINT_RESPONSE_281	IRP0/MT3	26.0
117960	128	3:18:37.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117961	128	3:20:6.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117962	128	3:21:16.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117963	128	3:22:56.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117964	128	3:24:21.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117965	128	3:25:55.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117966	128	3:28:24.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117967	128	3:32:22.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117968	128	3:37:24.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117969	128	3:46:49.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117970	128	4:4:46.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117971	128	7:42:23.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117972	128	7:43:52.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117973	128	7:45:3.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117974	128	7:46:43.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117975	128	7:48:7.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117976	128	7:49:41.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117977	128	7:52:10.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117978	128	7:56:8.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117979	128	8:1:11.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117980	128	8:10:35.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117982	128	8:56:45.0	POINT_RESPONSE_277	BL1 /CL2	26.0
117985	128	9:58:6.0	POINT_RESPONSE_278	CL1 /CL2	26.0
118046	130	1:7:13.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118047	130	1:8:42.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118048	130	1:10:11.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118049	130	1:11:41.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118050	130	1:13:10.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118051	130	1:14:39.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118052	130	1:15:55.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118053	130	1:17:35.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118054	130	1:18:52.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118055	130	1:20:26.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118056	130	1:22:16.0	POINT_RESPONSE_288	CL1 /CL2	6.0
118057	130	1:57:15.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118058	130	1:58:17.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118059	130	1:59:27.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118060	130	2:0:52.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118061	130	2:2:26.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118062	130	2:4:55.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118063	130	2:7:58.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118064	130	2:13:7.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118065	130	2:22:32.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118066	130	2:31:59.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118067	130	2:49:56.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118068	130	3:7:53.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118069	130	3:29:0.0	POINT_RESPONSE_290	IR4 /CL2	6.0
118070	130	3:40:30.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118071	130	3:41:40.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118072	130	3:43:21.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118073	130	3:45:1.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118074	130	3:47:5.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118075	130	3:49:28.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118076	130	3:53:32.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118077	130	4:2:57.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118078	130	4:20:54.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118079	130	4:38:51.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118080	130	4:56:48.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118081	130	5:14:45.0	POINT_RESPONSE_289	CL1 /MT3	6.0
118082	130	5:36:4.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118083	130	5:37:33.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118084	130	5:38:44.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118085	130	5:40:24.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118086	130	5:41:48.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118087	130	5:43:23.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118088	130	5:45:51.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118089	130	5:49:50.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118090	130	5:54:52.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118091	130	6:4:16.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118092	130	6:22:13.0	POINT_RESPONSE_287	BL1 /CL2	6.0
118093	130	6:29:29.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118094	130	6:30:40.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118095	130	6:32:4.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118097	130	6:36:18.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118098	130	6:40:25.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118099	130	6:49:50.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118100	130	6:59:15.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118101	130	7:17:14.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118102	130	7:35:11.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118103	130	7:56:16.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118104	130	8:1:28.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118105	130	8:22:32.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118106	130	8:43:38.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118107	130	9:4:45.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118108	130	9:19:2.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118109	130	9:29:1.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118110	130	9:37:53.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118111	130	9:39:50.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118112	130	9:44:5.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118113	130	9:49:40.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118114	130	9:52:52.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118115	130	10:2:44.0	POINT_RESPONSE_291	IRP0/MT3	6.0
118532	131	18:8:16.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118533	131	18:19:2.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118534	131	18:25:11.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118535	131	18:28:8.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118536	131	18:30:35.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118537	131	18:33:4.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118538	131	18:35:26.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118539	131	18:37:49.0	POINT_RESPONSE_292	CL1 /CL2	6.0
118547	131	19:5:13.0	POINT_RESPONSE_293	BL1 /CL2	6.0
118549	131	19:10:38.0	POINT_RESPONSE_293	BL1 /CL2	6.0
118550	131	19:13:36.0	POINT_RESPONSE_293	BL1 /CL2	6.0
118551	131	19:16:5.0	POINT_RESPONSE_293	BL1 /CL2	6.0
118553	131	19:21:16.0	POINT_RESPONSE_293	BL1 /CL2	6.0
118554	131	19:23:47.0	POINT_RESPONSE_293	BL1 /CL2	6.0
118555	131	19:26:26.0	POINT_RESPONSE_293	BL1 /CL2	6.0
118557	131	19:33:15.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118558	131	19:37:14.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118560	131	19:45:46.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118562	131	19:52:27.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118563	131	19:54:57.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118564	131	19:57:38.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118565	131	19:59:57.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118566	131	20:2:29.0	POINT_RESPONSE_294	CL1 /IR3	6.0
118567	131	20:8:47.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118568	131	20:12:38.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118569	131	20:15:19.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118570	131	20:17:42.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118571	131	20:20:8.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118572	131	20:22:30.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118573	131	20:24:50.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118574	131	20:27:12.0	POINT_RESPONSE_295	CL1 /CB3	6.0
118575	131	20:30:6.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118576	131	20:40:3.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118577	131	20:43:10.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118578	131	20:45:48.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118579	131	20:48:15.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118580	131	20:52:27.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118581	131	20:55:2.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118582	131	20:57:30.0	POINT_RESPONSE_296	CL1 /MT1	6.0
118583	131	21:1:6.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118584	131	21:3:37.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118585	131	21:6:11.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118586	131	21:8:38.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118587	131	21:11:5.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118588	131	21:13:15.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118590	131	21:17:25.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118591	131	21:19:50.0	POINT_RESPONSE_297	IRP0/CB3	6.0
118816	135	0:41:4.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118817	135	0:42:33.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118818	135	0:44:3.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118819	135	0:45:32.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118820	135	0:47:1.0	POINT_RESPONSE_299	CL1 /CL2	-9.0

image	day	eventtime	observation	filters	temp
118821	135	0:48:30.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118822	135	0:49:46.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118823	135	0:51:26.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118824	135	0:52:43.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118825	135	0:54:17.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118826	135	0:56:8.0	POINT_RESPONSE_299	CL1 /CL2	-9.0
118837	135	1:51:11.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118838	135	1:52:22.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118839	135	1:54:2.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118840	135	1:55:42.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118841	135	1:57:47.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118842	135	2:0:9.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118843	135	2:4:13.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118845	135	2:31:39.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118846	135	2:49:36.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118847	135	3:7:33.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118848	135	3:25:31.0	POINT_RESPONSE_300	CL1 /MT3	-9.0
118868	135	5:37:3.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118869	135	5:38:13.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118870	135	5:39:38.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118871	135	5:41:12.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118872	135	5:43:41.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118873	135	5:47:48.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118874	135	5:57:13.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118876	135	6:24:48.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118877	135	6:42:45.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118879	135	7:9:11.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118880	135	7:30:17.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118882	135	8:12:40.0	POINT_RESPONSE_302	IRP0/MT3	-9.0
118883	135	8:25:6.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118884	135	8:26:8.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118885	135	8:27:18.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118886	135	8:28:49.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118887	135	8:30:23.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118888	135	8:32:52.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118889	135	8:35:55.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118890	135	8:41:4.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118893	135	9:44:35.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118894	135	10:2:33.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118895	135	10:20:30.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118897	135	10:48:43.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118898	135	10:58:10.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118899	135	11:19:17.0	POINT_RESPONSE_301	IR4 /CL2	-9.0
118988	135	17:27:35.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
118989	135	17:31:14.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
118990	135	17:33:56.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
118991	135	17:36:35.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
118993	135	17:42:36.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
118994	135	17:45:7.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
118995	135	17:47:35.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
118996	135	17:50:4.0	POINT_RESPONSE_303	CL1 /CL2	-9.0
119003	135	18:8:12.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119004	135	18:11:6.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119005	135	18:21:20.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119006	135	18:23:56.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119007	135	18:28:6.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119008	135	18:30:46.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119009	135	18:33:4.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119010	135	18:35:29.0	POINT_RESPONSE_304	BL1 /CL2	-9.0
119017	135	18:51:23.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119018	135	18:54:10.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119019	135	19:0:17.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119020	135	19:2:41.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119021	135	19:5:0.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119022	135	19:7:13.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119023	135	19:9:27.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119024	135	19:11:52.0	POINT_RESPONSE_305	CL1 /IR3	-9.0
119025	135	19:19:18.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119026	135	19:22:38.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119027	135	19:24:56.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119028	135	19:27:12.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119030	135	19:31:16.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119031	135	19:33:31.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119032	135	19:35:55.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119033	135	19:38:8.0	POINT_RESPONSE_306	CL1 /CB3	-9.0
119034	135	19:41:14.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119035	135	19:43:43.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119036	135	19:57:7.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119037	135	19:59:19.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119038	135	20:1:36.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119039	135	20:3:59.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119040	135	20:6:12.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119041	135	20:8:38.0	POINT_RESPONSE_307	CL1 /MT1	-9.0
119042	135	20:11:48.0	POINT_RESPONSE_308	IRP0/CB3	-9.0
119043	135	20:14:42.0	POINT_RESPONSE_308	IRP0/CB3	-9.0
119044	135	20:19:18.0	POINT_RESPONSE_308	IRP0/CB3	-9.0
119045	135	20:21:40.0	POINT_RESPONSE_308	IRP0/CB3	-9.0
119046	135	20:29:1.0	POINT_RESPONSE_308	IRP0/CB3	-9.0
119047	135	20:32:8.0	POINT_RESPONSE_308	IRP0/CB3	-9.0
119048	135	20:34:21.0	POINT_RESPONSE_308	IRP0/CB3	-9.0
119049	135	20:36:39.0	POINT_RESPONSE_308	IRP0/CB3	-9.0