

**Quarterly Project Totals for Oct - Dec 2015**

Project Code	Total Time Observed	Total Actual Time Observed
13B-057	2.59	2.57
14A-214	40.97	39.34
14B-106	4.07	3.92
14B-157	15.96	15.81
14B-205	2.99	2.84
14B-336	5.98	5.76
14B-359	32.37	32.21
14B-396	32.04	31.56
14B-489	2.49	2.44
15A-069	2.95	2.62
15A-089	2.99	2.96
15A-234	1.00	0.92
15A-235	30.62	30.39
15A-251	2.99	2.92
15A-314	10.35	10.27
15A-339	11.67	11.56
15A-369	14.07	12.91
15A-417	3.55	3.48
15A-476	2.24	2.20
15A-490	1.55	1.48
15B-005	13.05	12.84
15B-013	11.00	10.85
15B-014	37.38	37.04
15B-016	5.99	5.74
15B-017	12.02	11.88
15B-035	2.00	2.00
15B-036	2.39	2.36
15B-049	2.00	1.92
15B-059	6.53	6.46
15B-065	18.21	17.85
15B-079	13.98	13.62
15B-085	4.00	3.93
15B-088	5.20	5.16
15B-089	60.42	59.31
15B-092	3.00	2.96
15B-096	3.99	3.92
15B-101	26.42	25.60
15B-102	1.06	1.04
15B-105	1.63	1.63
15B-108	1.19	1.18

15B-111	3.00	2.98
15B-115	11.97	11.70
15B-118	59.78	58.35
15B-122	39.99	38.17
15B-123	0.50	0.49
15B-125	4.02	3.75
15B-131	12.18	11.99
15B-137	2.52	2.50
15B-140	15.95	15.83
15B-145	23.54	22.58
15B-167	2.00	2.00
15B-168	2.00	1.99
15B-169	64.27	63.17
15B-170	6.00	5.96
15B-171	1.75	1.64
15B-173	14.48	14.40
15B-175	60.00	59.10
15B-177	4.74	4.71
15B-178	30.00	29.84
15B-182	47.89	46.00
15B-192	10.51	10.43
15B-196	23.01	22.49
15B-197	11.29	10.93
15B-199	1.50	1.38
15B-204	3.99	3.84
15B-206	12.99	12.73
15B-208	5.40	5.36
15B-210	46.05	45.18
15B-214	5.87	5.75
15B-219	2.00	1.96
15B-221	9.50	9.32
15B-229	8.53	8.38
15B-230	8.94	8.86
15B-237	23.95	23.63
15B-243	8.13	8.02
15B-254	8.23	7.98
15B-255	3.24	3.03
15B-258	7.99	7.80
15B-261	4.49	4.49
15B-266	4.74	4.67
15B-268	29.96	28.50
15B-269	3.99	3.99

15B-274	7.98	7.31
15B-275	4.66	4.57
15B-277	16.66	16.28
15B-281	7.98	7.93
15B-283	10.37	9.99
15B-290	19.95	19.39
15B-291	16.07	15.60
15B-292	9.19	9.15
15B-293	23.99	23.99
15B-295	8.47	8.37
15B-296	2.61	2.60
15B-305	125.22	120.83
15B-307	37.26	36.54
15B-309	50.20	49.68
15B-316	7.48	7.48
15B-320	6.06	6.04
15B-326	3.07	2.99
15B-329	15.72	15.52
15B-330	4.07	4.00
15B-332	1.94	1.92
15B-334	5.98	5.69
15B-335	3.36	3.36
15B-343	6.30	6.21
15B-352	2.21	1.96
15B-362	2.00	1.96
15B-364	0.96	0.90
15B-366	1.00	0.91
15B-370	3.09	2.93
15B-378	10.53	10.41
15B-381	1.50	1.50
15B-384	8.74	8.67
15B-388	6.03	6.03
16A-200	2.00	2.00
16A-249	1.00	0.96
BB365	8.72	8.27
BD188	6.05	5.86
BH212	11.62	9.51
BS247	8.00	6.00
S61420	2.58	2.58
SB4161	3.00	2.96
SB4220	1.16	1.16
SG0365	2.02	1.95

SG0534	0.79	0.79
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<b>TOTALS:</b>	<b>1583.37</b>	<b>1544.05</b>
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**NOTE:** the project actually ran for the *Total Time Observed* , but when one factors in equipment downtime, the *Total Actual Time Observed* is less.



December 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed
13B-057	2.59	13B-057	0.02	2.57
14A-214	25.01	14A-214	0.45	24.56
14B-106	4.07	14B-106	0.15	3.92
14B-396	3.99	14B-396	0.00	3.99
15A-235	8.16	15A-235	0.16	8.00
15A-314	3.50	15A-314	0.00	3.50
15A-339	2.09	15A-339	0.06	2.04
15A-476	2.24	15A-476	0.05	2.20
15A-490	1.55	15A-490	0.07	1.48
15B-013	1.00	15B-013	0.04	0.96
15B-014	9.08	15B-014	0.13	8.95
15B-016	2.99	15B-016	0.08	2.91
15B-017	7.98	15B-017	0.15	7.83
15B-049	2.00	15B-049	0.07	1.92
15B-079	8.00	15B-079	0.11	7.88
15B-088	5.20	15B-088	0.04	5.16
15B-092	2.00	15B-092	0.00	2.00
15B-101	17.27	15B-101	0.43	16.84
15B-108	1.19	15B-108	0.01	1.18
15B-111	3.00	15B-111	0.01	2.98
15B-115	9.97	15B-115	0.16	9.81
15B-118	22.10	15B-118	0.39	21.71
15B-122	3.99	15B-122	0.30	3.69
15B-125	4.02	15B-125	0.27	3.75
15B-131	5.08	15B-131	0.13	4.96
15B-145	13.62	15B-145	0.14	13.48
15B-168	2.00	15B-168	0.00	1.99
15B-169	34.29	15B-169	0.04	34.26
15B-173	10.72	15B-173	0.03	10.70
15B-175	5.00	15B-175	0.21	4.79

15B-182	29.93	15B-182	0.53	29.40
15B-192	4.19	15B-192	0.08	4.11
15B-197	3.74	15B-197	0.11	3.63
15B-204	3.99	15B-204	0.15	3.84
15B-206	8.80	15B-206	0.26	8.54
15B-208	2.66	15B-208	0.05	2.61
15B-221	2.00	15B-221	0.00	2.00
15B-229	5.29	15B-229	0.06	5.23
15B-230	8.94	15B-230	0.08	8.86
15B-237	4.99	15B-237	0.04	4.95
15B-243	1.51	15B-243	0.05	1.46
15B-254	1.50	15B-254	0.10	1.40
15B-255	1.00	15B-255	0.12	0.88
15B-258	3.99	15B-258	0.05	3.94
15B-266	1.51	15B-266	0.00	1.51
15B-268	19.96	15B-268	0.30	19.67
15B-269	3.99	15B-269	0.00	3.99
15B-275	2.66	15B-275	0.01	2.65
15B-277	16.66	15B-277	0.38	16.28
15B-281	7.98	15B-281	0.05	7.93
15B-283	2.39	15B-283	0.02	2.37
15B-290	19.95	15B-290	0.56	19.39
15B-293	22.00	15B-293	0.00	22.00
15B-295	5.93	15B-295	0.09	5.83
15B-296	1.31	15B-296	0.00	1.31
15B-305	27.52	15B-305	0.55	26.97
15B-307	32.16	15B-307	0.67	31.49
15B-309	48.20	15B-309	0.52	47.68
15B-320	1.99	15B-320	0.00	1.99
15B-329	3.99	15B-329	0.01	3.98
15B-330	4.07	15B-330	0.06	4.00
15B-332	1.94	15B-332	0.02	1.92



15B-334	5.98	15B-334	0.29	5.69
15B-335	3.36	15B-335	0.00	3.36
15B-343	4.00	15B-343	0.09	3.91
15B-378	9.48	15B-378	0.12	9.36
15B-381	1.50	15B-381	0.00	1.50
15B-384	8.74	15B-384	0.06	8.67
15B-388	6.03	15B-388	0.00	6.03
16A-200	2.00	16A-200	0.00	2.00
16A-249	1.00	16A-249	0.04	0.96
BH212	11.62	BH212	2.11	9.51
SG0534	0.79	SG0534	0.00	0.79
<b>TOTAL:</b>	<b>584.96</b>		<b>11.34</b>	<b>573.62</b>
			<b>1.94%</b>	

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	584.96	78.62%	573.62	78.29%
UNSCHEДУLED	18.05	2.43%	18.05	2.46%
MAINTENANCE	30.53	4.10%	30.53	4.17%
TEST/CALC	78.46	10.55%	78.46	10.71%
HOLIDAY SHUTDOWN	32.00	4.30%	32.00	4.37%
<b>TOTAL:</b>	<b>744.00</b>	<b>100.00%</b>	<b>732.66</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	603.10	Actual Hours	584.96	Percentage	96.99%
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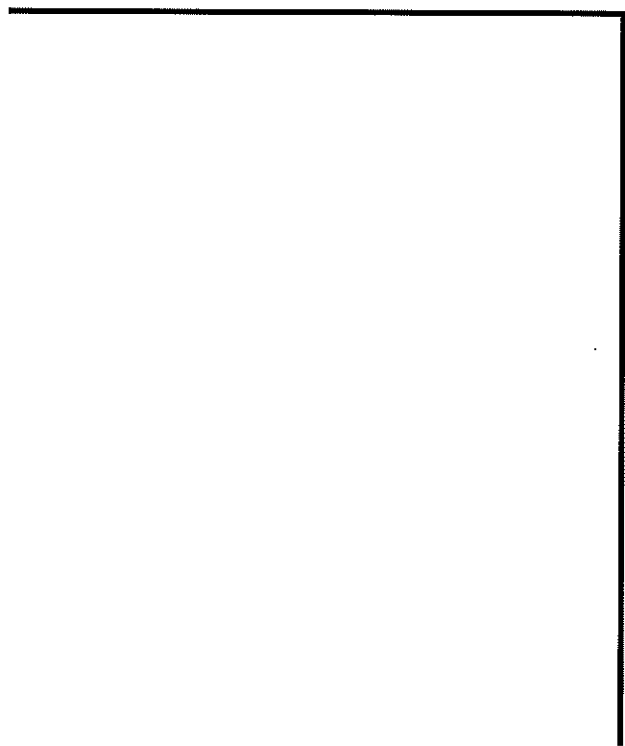
Average downtime measured in antenna hours was 1.94% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
COMPUTERS	2.15	18.97%
CORRELATOR	0.16	1.38%
CRYOGENICS	1.23	10.83%
FIBER OPTICS	0.03	0.27%
FOCUS/ROTATION	1.70	15.02%
FRONT END	0.59	5.18%
HVAC	0.01	0.11%
LO-IF	0.79	6.93%
OTHER	0.35	3.13%
RFI	0.00	0.01%
SERVO	2.28	20.10%
WEATHER	2.05	18.07%
<b>TOTAL:</b>	<b>11.34</b>	<b>100.00%</b>

Date Observed
4-Dec
11,14,16,17,18,21,24-Dec
6-Dec
10-Dec
1,29,30,31-Dec
7,17,22-Dec
6,30-Dec
5,8-Dec
16-Dec
5-Dec
5,12,13,20,27,28,29-Dec
6,8-Dec
8,16,18,19-Dec
21-Dec
13,22,26-Dec
29-Dec
13-Dec
7,8,9,14,31-Dec
30-Dec
12,13,28-Dec
1,8,17,18,31-Dec
3,4,6,18,19,23-Dec
5-Dec
31-Dec
24,31-Dec
10,12,13,15,20,23,24,26,27,31-Dec
3-Dec
9,10,12,14,23,24,27,28,30-Dec
11,13,15,22,27,28-Dec
17-Dec

4,6,7,8,9,14,16,17,18,19,21,31-Dec  
4,7-Dec  
6,18-Dec  
16,21-Dec  
7,18,19-Dec  
18,19-Dec  
2-Dec  
14,17,20-Dec  
23,31-Dec  
4,12,15,17,22-Dec  
2,6,16-Dec  
31-Dec  
31-Dec  
11,17-Dec  
4-Dec  
1,2,3,9,10,12,16,27-Dec  
4,27,29,30-Dec  
8,18,24-Dec  
2,6,7,17,18,19-Dec  
3,4,5-Dec  
1,9-Dec  
1,4,5,6-Dec  
7,10,11,12-Dec  
4,5-Dec  
24,28-Dec  
1,2,3,5,7,11,13,15,23-Dec  
7,10,17,22,23,24,27,28,29,30,31-Dec  
12,13,14,15,20,22,23,24,26,27-Dec  
2,8-Dec  
3,9-Dec  
14,19-Dec  
23,24,31-Dec

30-Dec  
11-Dec  
19,24-Dec  
1,3,5,7,9,11,13,15,17-Dec  
11-Dec  
8,10,12,14,24-Dec  
29,30-Dec  
8-Dec  
6-Dec  
20-Dec  
24-Dec



November 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed	Date Observed
14A-214	7.98	14A-214	1.18	6.80	7,28,29-Nov
14B-336	5.98	14B-336	0.22	5.76	15-Nov
14B-359	13.62	14B-359	0.08	13.54	1,4,5,7,10,16-Nov
14B-396	5.98	14B-396	0.10	5.89	11,16,25-Nov
15A-235	11.22	15A-235	0.00	11.22	1,4,13,28-Nov
15A-251	2.99	15A-251	0.07	2.92	14,15-Nov
15A-314	5.85	15A-314	0.05	5.81	9,10,28-Nov
15A-339	7.08	15A-339	0.03	7.06	4,5,10,13,18-Nov
15B-005	6.50	15B-005	0.21	6.29	6,8,9-Nov
15B-013	6.00	15B-013	0.11	5.88	8,15,20,22,25,27-Nov
15B-014	15.62	15B-014	0.16	15.46	2,3,5,11,16,17,18,25,28,29-Nov
15B-016	1.50	15B-016	0.00	1.50	7-Nov
15B-017	4.04	15B-017	0.00	4.04	29,30-Nov
15B-035	1.00	15B-035	0.00	1.00	29-Nov
15B-065	9.12	15B-065	0.36	8.75	3,6,14-Nov
15B-079	5.98	15B-079	0.24	5.74	17,18-Nov
15B-085	2.01	15B-085	0.00	2.01	5,10-Nov
15B-089	8.06	15B-089	0.08	7.97	1,3,6,10-Nov
15B-092	1.00	15B-092	0.04	0.96	15-Nov
15B-101	9.15	15B-101	0.39	8.76	21,22,24,29-Nov
15B-115	2.00	15B-115	0.11	1.88	23-Nov
15B-118	22.59	15B-118	0.61	21.98	1,2,19,20,21,22-Nov
15B-122	32.01	15B-122	1.51	30.49	5,7,11,15,16,27-Nov
15B-131	7.10	15B-131	0.07	7.04	9,10,25-Nov
15B-137	2.52	15B-137	0.02	2.50	9-Nov
15B-140	13.24	15B-140	0.12	13.12	3,6,7,13,19,20,21-Nov
15B-145	8.92	15B-145	0.82	8.10	5,11,15,18,25,26,27,29-Nov
15B-167	1.00	15B-167	0.00	1.00	5-Nov
15B-169	10.03	15B-169	0.45	9.58	5,21,23,30-Nov
15B-170	1.99	15B-170	0.00	1.99	1-Nov
15B-173	3.75	15B-173	0.05	3.70	4,5,18,27-Nov
15B-175	55.00	15B-175	0.70	54.31	8,10,11,13,14,20,21,22,25,27,28-Nov
15B-177	4.74	15B-177	0.02	4.71	12,13,19-Nov
15B-178	9.04	15B-178	0.07	8.97	1,4,6,8-Nov
15B-182	1.99	15B-182	0.16	1.84	22-Nov
15B-192	6.32	15B-192	0.00	6.32	2,3,12-Nov
15B-196	5.49	15B-196	0.17	5.32	2,7,14,22-Nov
15B-197	7.55	15B-197	0.25	7.30	8,12,13,15,23-Nov
15B-199	1.50	15B-199	0.11	1.38	22-Nov
15B-206	4.19	15B-206	0.00	4.19	23-Nov
15B-208	2.74	15B-208	0.00	2.74	2,20-Nov

15B-210	46.05	15B-210	0.87	45.18	2,8,13,14,19,20,23,30-Nov
15B-221	5.51	15B-221	0.18	5.33	6,8,14-Nov
15B-229	1.62	15B-229	0.09	1.53	21-Nov
15B-237	7.99	15B-237	0.11	7.88	5,7,9,15,16,18-Nov
15B-243	3.22	15B-243	0.02	3.20	1,3,7,24-Nov
15B-254	4.99	15B-254	0.09	4.90	1,12,21-Nov
15B-255	2.24	15B-255	0.10	2.15	1,21-Nov
15B-266	3.23	15B-266	0.06	3.16	8,10,13,21-Nov
15B-268	10.00	15B-268	1.17	8.83	24,25,26,28-Nov
15B-274	1.99	15B-274	0.04	1.96	15-Nov
15B-275	2.00	15B-275	0.08	1.92	14,21-Nov
15B-293	2.00	15B-293	0.00	2.00	9-Nov
15B-295	2.01	15B-295	0.00	2.01	28-Nov
15B-296	0.70	15B-296	0.01	0.69	8-Nov
15B-305	73.90	15B-305	1.53	72.37	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,20,21,24,25,28,29,30-Nov
15B-307	5.10	15B-307	0.04	5.05	15,16,17,18,27,29,30-Nov
15B-309	2.00	15B-309	0.00	2.00	17-Nov
15B-316	2.49	15B-316	0.00	2.49	25-Nov
15B-320	4.06	15B-320	0.02	4.05	3,8,9,13-Nov
15B-326	3.07	15B-326	0.08	2.99	17-Nov
15B-329	8.23	15B-329	0.11	8.12	6,8,12,13,30-Nov
15B-343	2.30	15B-343	0.00	2.30	20-Nov
15B-370	3.09	15B-370	0.16	2.93	6-Nov
15B-378	1.05	15B-378	0.00	1.05	25-Nov
BB365	8.72	BB365	0.45	8.27	7,22-Nov
BD188	6.05	BD188	0.19	5.86	30-Nov
S61420	2.58	S61420	0.00	2.58	7-Nov
SB4161	2.00	SB4161	0.00	2.00	1,3-Nov
SB4220	1.16	SB4220	0.00	1.16	12-Nov
<b>TOTAL:</b>	<b>553.76</b>	<b>TOTAL:</b>	<b>13.97</b>	<b>539.79</b>	
			<b>2.52%</b>		

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	553.76	76.91%	539.79	76.45%
UNCHEDULED	12.58	1.75%	12.58	1.78%
MAINTENANCE	37.10	5.15%	37.10	5.25%
TEST/CALC	92.56	12.86%	92.56	13.11%
HOLIDAY SHUTDOWN	24.00	3.33%	24.00	3.40%
<b>TOTAL:</b>	<b>720.00</b>	<b>100.00%</b>	<b>706.03</b>	<b>100.00%</b>



DYNAMIC ASTRONOMY	Available Hours	566.34	Actual Hours	553.76	Percentage	97.78%
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Average downtime measured in antenna hours was 2.52% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
CORRELATOR	2.13	15.21%
CRYOGENICS	1.69	12.12%
FIBER OPTICS	0.55	3.97%
FOCUS/ROTATION	2.57	18.41%
FRONT END	0.35	2.53%
HVAC	0.01	0.09%
LO-IF	2.14	15.34%
MECHANICAL	0.02	0.16%
MONITOR/CONTROL	0.08	0.56%
OTHER	0.08	0.54%
SERVO	2.49	17.81%
SOFTWARE	1.79	12.84%
WEATHER	0.06	0.42%
<b>TOTAL:</b>	<b>13.97</b>	<b>100.00%</b>



October 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed
14A-214	7.99	14A-214	0.00	7.99
14B-157	15.96	14B-157	0.15	15.81
14B-205	2.99	14B-205	0.15	2.84
14B-359	18.76	14B-359	0.09	18.67
14B-396	22.07	14B-396	0.39	21.68
14B-489	2.49	14B-489	0.06	2.44
15A-069	2.95	15A-069	0.33	2.62
15A-089	2.99	15A-089	0.03	2.96
15A-234	1.00	15A-234	0.07	0.92
15A-235	11.24	15A-235	0.07	11.16
15A-314	1.00	15A-314	0.04	0.96
15A-339	2.50	15A-339	0.03	2.47
15A-369	14.07	15A-369	1.16	12.91
15A-417	3.55	15A-417	0.07	3.48
15B-005	6.55	15B-005	0.01	6.54
15B-013	4.01	15B-013	0.00	4.01
15B-014	12.68	15B-014	0.06	12.62
15B-016	1.50	15B-016	0.17	1.33
15B-035	1.00	15B-035	0.00	1.00
15B-036	2.39	15B-036	0.04	2.36
15B-059	6.53	15B-059	0.06	6.46
15B-065	9.09	15B-065	0.00	9.09
15B-085	2.00	15B-085	0.08	1.92
15B-089	52.36	15B-089	1.02	51.34
15B-096	3.99	15B-096	0.07	3.92
15B-102	1.06	15B-102	0.02	1.04
15B-105	1.63	15B-105	0.00	1.63
15B-118	15.09	15B-118	0.43	14.66
15B-122	3.99	15B-122	0.00	3.99
15B-123	0.50	15B-123	0.01	0.49

15B-140	2.71
15B-145	1.00
15B-167	1.00
15B-169	19.95
15B-170	4.00
15B-171	1.75
15B-178	20.95
15B-182	15.96
15B-196	17.52
15B-214	5.87
15B-219	2.00
15B-221	2.00
15B-229	1.62
15B-237	10.97
15B-243	3.40
15B-254	1.75
15B-258	4.00
15B-261	4.49
15B-274	5.98
15B-283	7.98
15B-291	16.07
15B-292	9.19
15B-295	0.53
15B-296	0.60
15B-305	23.80
15B-316	4.99
15B-329	3.49
15B-352	2.21
15B-362	2.00
15B-364	0.96
15B-366	1.00
BS247	8.00

15B-140	0.00	2.71
15B-145	0.00	1.00
15B-167	0.00	1.00
15B-169	0.62	19.33
15B-170	0.04	3.97
15B-171	0.11	1.64
15B-178	0.08	20.87
15B-182	1.20	14.77
15B-196	0.35	17.17
15B-214	0.12	5.75
15B-219	0.04	1.96
15B-221	0.00	2.00
15B-229	0.00	1.62
15B-237	0.17	10.80
15B-243	0.03	3.36
15B-254	0.06	1.69
15B-258	0.15	3.86
15B-261	0.00	4.49
15B-274	0.63	5.35
15B-283	0.36	7.62
15B-291	0.47	15.60
15B-292	0.05	9.15
15B-295	0.00	0.53
15B-296	0.00	0.60
15B-305	2.31	21.50
15B-316	0.00	4.99
15B-329	0.07	3.42
15B-352	0.25	1.96
15B-362	0.04	1.96
15B-364	0.06	0.90
15B-366	0.09	0.91
BS247	2.00	6.00

SB4161	1.00	SB4161	0.04	0.96
SG0365	2.02	SG0365	0.07	1.95
<b>TOTAL:</b>	<b>444.65</b>		<b>14.01</b>	<b>430.65</b>
			<b>3.15%</b>	

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	444.65	59.76%	430.65	58.99%
UNSCHEDULED	22.22	2.99%	22.22	3.04%
MAINTENANCE	93.55	12.57%	93.55	12.82%
TEST/CALC	183.58	24.67%	183.58	25.15%
<b>TOTAL:</b>	<b>744.00</b>	<b>100.00%</b>	<b>730.00</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	466.87	Actual Hours	444.65	Percentage	95.24%
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Average downtime measured in antenna hours was 3.15% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
ANTENNA PADS	0.90	6.44%
CORRELATOR	0.27	1.91%
CRYOGENICS	0.45	3.20%
FIBER OPTICS	3.13	22.38%
FOCUS/ROTATION	0.30	2.18%
FRONT END	0.71	5.10%
HVAC	1.03	7.36%
LO-IF	0.36	2.58%
MECHANICAL	0.30	2.17%
OTHER	1.74	12.45%

RECOMMISSIONING			
SERVO	0.30	2.11%	
SITE POWER	1.29	9.19%	
SOFTWARE	0.06	0.40%	
WEATHER	3.12	22.29%	
	0.03	0.22%	
<b>TOTAL:</b>	<b>14.01</b>	<b>100.00%</b>	

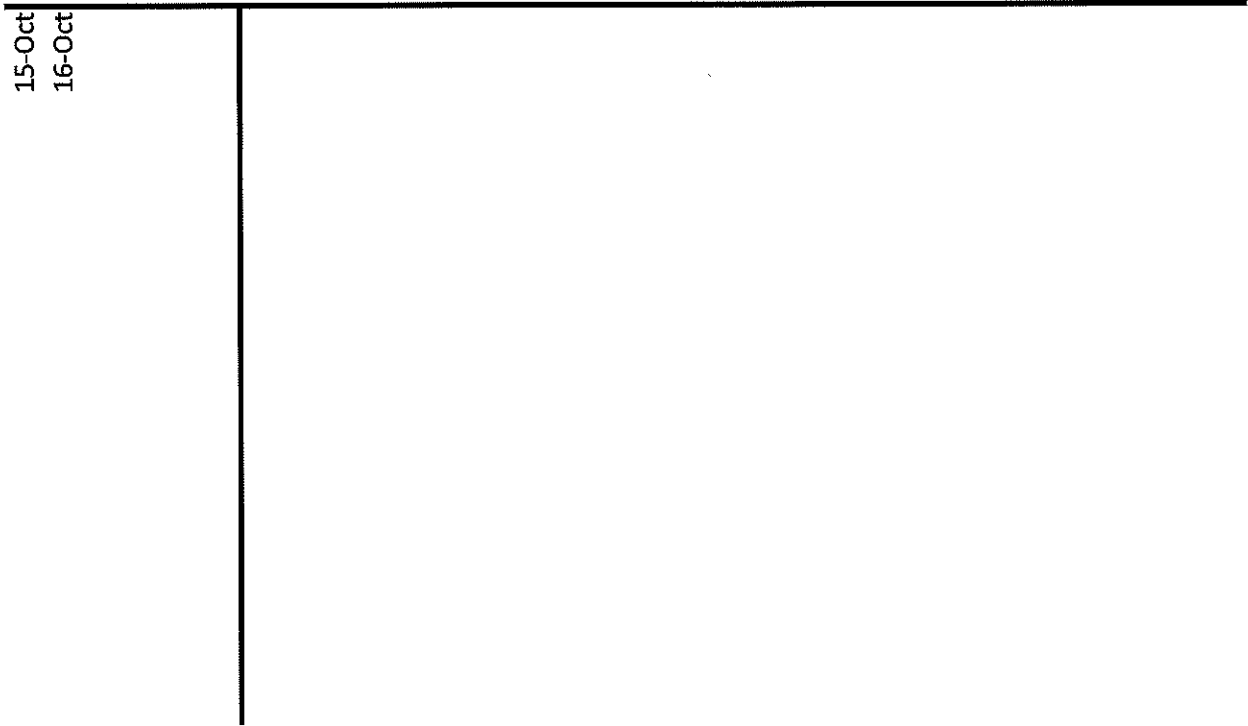
Date Observed
18,24,31-Oct
9,10,18,19-Oct
9-Oct
21,24,27,28,29,31-Oct
10,11,16,17,23,25-Oct
8-Oct
4-Oct
10-Oct
5-Oct
26,27,28,30,31-Oct
16-Oct
15,29-Oct
4,6,7,8-Oct
10-Oct
23,24,25-Oct
16,23,25,31-Oct
10,11,16,17,18,19,21,29,30,31-Oct
14-Oct
19-Oct
23,29,30-Oct
10,20,22-Oct
22,24,25-Oct
14,28-Oct
9,11,13,14,15,17,18,20,24,25,26,27,28,29,30,31-Oct
12-Oct
11,12-Oct
20,27-Oct
11,16,24,25-Oct
30-Oct
11-Oct

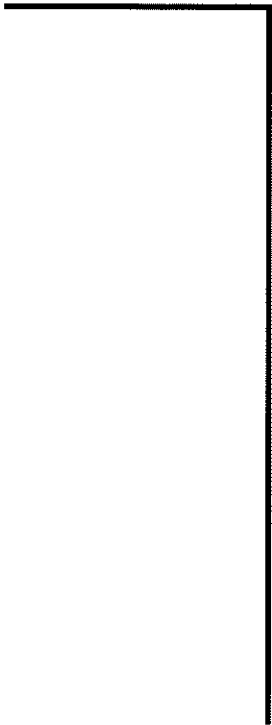
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31-Oct  
20-Oct  
30-Oct  
12,16,19,21,28-Oct  
19,20,23-Oct  
13-Oct  
19,26,27,29,30,31-Oct  
10,12,18,23,26-Oct  
9,10,11,13,19,21,26-Oct  
8,12,14,17,20,24,27,28,30-Oct  
9-Oct  
22,25-Oct  
17-Oct  
9,10,11,12,17,18,19-Oct  
16,20,22,31-Oct  
15,25-Oct  
9,11-Oct  
18,19,20-Oct  
8-Oct  
22,23-Oct  
14,15,16,17-Oct  
10,11,18,25-Oct  
29-Oct  
18-Oct  
17,21,22,23,24,30,31-Oct  
18,26-Oct  
27,28,29-Oct  
3,5-Oct  
8-Oct  
15-Oct  
14-Oct  
5-Oct



15-Oct  
16-Oct





**Quarterly Project Totals for Jul - Sep 2015**

Project Code	Total Time Observed	Total Actual Time Observed
13B-057	7.38	7.24
13B-318	53.89	51.96
14A-102	1.03	1.03
14A-360	66.91	65.19
14A-375	2.06	2.01
14A-531	1.47	1.47
14B-336	29.90	28.54
14B-340	10.03	9.86
14B-413	4.99	4.98
14B-487	26.74	24.72
15A-011	10.44	10.31
15A-016	13.58	13.49
15A-019	5.99	5.84
15A-020	1.83	1.00
15A-023	2.32	2.24
15A-033	16.47	16.45
15A-035	2.49	2.49
15A-039	1.00	0.94
15A-040	8.06	7.97
15A-044	7.01	6.98
15A-045	6.97	6.92
15A-046	8.98	8.88
15A-048	25.89	25.13
15A-049	5.98	5.81
15A-053	25.24	23.18
15A-061	7.98	7.83
15A-065	7.98	7.75
15A-068	1.50	1.47

**NOTE:** the project actually ran for the *Total Time* downtime, the *Total Actual Time Observed* is less

15A-070	9.77	9.60
15A-071	4.99	4.89
15A-072	1.00	0.98
15A-073	9.93	9.90
15A-074	31.92	31.25
15A-076	3.99	3.92
15A-077	17.97	17.22
15A-078	5.34	5.24
15A-092	1.50	1.50
15A-100	120.39	118.72
15A-101	5.99	5.93
15A-105	13.23	12.92
15A-113	7.98	7.98
15A-115	3.99	3.90
15A-118	14.51	14.24
15A-119	15.46	15.15
15A-127	0.50	0.46
15A-131	1.98	1.82
15A-133	2.00	1.98
15A-134	7.76	7.60
15A-137	0.93	0.93
15A-138	51.02	49.86
15A-140	1.50	1.50
15A-141	1.25	1.25
15A-142	4.49	4.47
15A-144	4.18	3.88
15A-145	20.04	19.62
15A-148	16.31	16.15
15A-149	11.98	11.57
15A-152	1.96	1.92

15A-155	4.99	4.84
15A-165	0.51	0.51
15A-170	8.98	8.98
15A-171	3.99	3.89
15A-174	4.04	3.85
15A-189	3.28	3.19
15A-191	1.70	1.68
15A-195	6.08	6.03
15A-197	16.24	14.28
15A-199	2.00	2.00
15A-203	3.17	3.03
15A-205	33.77	33.07
15A-211	4.23	3.95
15A-214	42.73	37.36
15A-215	56.98	56.28
15A-218	10.85	10.71
15A-221	8.98	8.81
15A-223	23.99	23.34
15A-224	5.24	5.14
15A-234	13.26	12.71
15A-235	36.03	35.57
15A-237	1.66	1.63
15A-238	2.40	2.40
15A-240	19.45	19.21
15A-241	7.09	6.84
15A-243	5.99	5.93
15A-249	28.06	27.45
15A-251	1.99	1.95
15A-254	3.99	3.91
15A-257	2.99	2.94

15A-260	1.00	0.99
15A-262	1.13	1.13
15A-263	13.15	12.78
15A-264	16.74	16.20
15A-267	1.42	1.39
15A-273	5.75	5.29
15A-282	61.35	59.24
15A-283	20.66	20.33
15A-286	6.98	6.83
15A-293	6.98	6.74
15A-297	10.39	8.79
15A-301	12.87	12.71
15A-305	5.94	5.90
15A-310	13.02	13.01
15A-316	8.00	7.97
15A-329	10.01	9.99
15A-337	9.24	8.80
15A-344	8.98	8.81
15A-345	3.49	3.37
15A-349	4.76	4.63
15A-353	17.95	17.66
15A-363	1.60	1.59
15A-365	9.49	9.33
15A-369	2.80	2.74
15A-370	5.02	4.74
15A-381	14.80	14.31
15A-397	14.21	13.77
15A-398	4.34	4.24
15A-399	1.00	1.00
15A-400	22.81	22.63

15A-404	7.42	7.33
15A-408	3.65	3.48
15A-409	22.26	22.03
15A-416	28.84	28.59
15A-420	3.99	3.84
15A-422	4.99	4.95
15A-426	5.93	5.84
15A-473	1.01	1.01
15A-476	3.49	3.48
15A-490	3.11	3.07
15A-491	1.00	1.00
15A-504	4.20	4.09
15A-507	0.68	0.68
15A-509	3.41	2.94
15B-339	2.99	2.92
15B-342	1.50	1.50
15B-343	1.34	1.31
15B-344	1.85	1.83
15B-345	8.06	7.97
15B-352	3.99	3.94
15B-362	1.00	0.99
BH210	8.05	7.21
BK193	5.50	5.30
S61420	1.41	1.39
SB4161	18.69	18.46
SB4220	2.00	1.98
SF0664	3.99	3.86
SG0196	8.09	7.89
SG0577	6.00	5.85
SG0848	3.00	3.00

SG0905	5.99	5.99
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<b>TOTALS:</b>	<b>1615.89</b>	<b>1570.12</b>
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*Observed, but when one factors in equipment*



September 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed
13B-057	2.15	13B-057	0.10	2.05
13B-318	12.92	13B-318	0.69	12.23
14A-360	29.93	14A-360	0.48	29.45
14A-375	1.06	14A-375	0.01	1.05
14B-487	21.76	14B-487	1.96	19.80
15A-016	6.48	15A-016	0.02	6.46
15A-019	2.00	15A-019	0.01	1.98
15A-020	0.83	15A-020	0.83	0.00
15A-023	1.16	15A-023	0.06	1.10
15A-039	1.00	15A-039	0.06	0.94
15A-044	1.36	15A-044	0.00	1.36
15A-048	6.57	15A-048	0.04	6.54
15A-053	3.43	15A-053	0.13	3.30
15A-065	6.98	15A-065	0.22	6.76
15A-071	3.00	15A-071	0.08	2.91
15A-077	1.99	15A-077	0.09	1.90
15A-100	22.97	15A-100	0.21	22.77
15A-105	5.03	15A-105	0.15	4.88
15A-118	14.51	15A-118	0.27	14.24
15A-134	2.99	15A-134	0.07	2.92
15A-138	36.88	15A-138	0.55	36.33
15A-142	4.49	15A-142	0.02	4.47
15A-144	1.86	15A-144	0.01	1.85
15A-145	7.48	15A-145	0.17	7.32
15A-152	0.77	15A-152	0.01	0.76
15A-155	1.50	15A-155	0.05	1.45
15A-171	3.99	15A-171	0.10	3.89
15A-195	1.50	15A-195	0.01	1.49
15A-197	14.75	15A-197	1.88	12.86
15A-203	1.17	15A-203	0.05	1.12

15A-205	25.82
15A-214	8.95
15A-215	20.04
15A-224	0.75
15A-234	2.00
15A-235	18.57
15A-243	5.99
15A-249	7.99
15A-251	1.99
15A-257	2.99
15A-262	1.13
15A-263	2.01
15A-264	0.75
15A-282	38.90
15A-283	4.99
15A-293	6.98
15A-297	9.06
15A-344	8.98
15A-353	17.95
15A-365	2.50
15A-369	1.00
15A-370	2.45
15A-381	13.15
15A-397	3.58
15A-399	1.00
15A-404	7.42
15A-409	2.53
15A-416	8.05
15A-422	1.00
15A-426	2.14
15A-476	2.50
15A-490	1.55

15A-205  
15A-214  
15A-215  
15A-224  
15A-234  
15A-235  
15A-243  
15A-249  
15A-251  
15A-257  
15A-262  
15A-263  
15A-264  
15A-282  
15A-283  
15A-293  
15A-297  
15A-344  
15A-353  
15A-365  
15A-369  
15A-370  
15A-381  
15A-397  
15A-399  
15A-404  
15A-409  
15A-416  
15A-422  
15A-426  
15A-476  
15A-490

0.52  
0.92  
0.28  
0.04  
0.04  
0.27  
0.06  
0.14  
0.04  
0.06  
0.00  
0.04  
0.01  
0.64  
0.03  
0.24  
0.27  
0.17  
0.30  
0.06  
0.02  
0.19  
0.42  
0.19  
0.00  
0.09  
0.00  
0.00  
0.02  
0.01  
0.01  
0.01  
0.04

25.30  
8.04  
19.76  
0.71  
1.96  
18.30  
5.93  
7.85  
1.95  
2.94  
1.13  
1.97  
0.74  
38.25  
4.95  
6.74  
8.79  
8.81  
17.66  
2.44  
0.98  
2.27  
12.72  
3.39  
1.00  
7.33  
2.53  
8.05  
0.97  
2.13  
2.48  
1.52

15B-342	0.50	15B-342	0.00	0.50
15B-343	1.34	15B-343	0.02	1.31
15B-345	1.99	15B-345	0.03	1.96
15B-352	3.99	15B-352	0.05	3.94
15B-362	1.00	15B-362	0.01	0.99
BK193	5.50	BK193	0.20	5.30
S61420	1.41	S61420	0.02	1.39
SB4161	6.04	SB4161	0.07	5.96
SB4220	1.00	SB4220	0.01	0.98
<b>TOTAL:</b>	<b>479.99</b>		<b>13.86</b>	<b>466.12</b>
			<b>2.89%</b>	

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	479.99	66.67%	466.12	66.01%
UNSCHEДУLED	13.35	1.85%	13.35	1.89%
MAINTENANCE	102.14	14.19%	102.14	14.46%
TEST/CALC	124.52	17.29%	124.52	17.63%
<b>TOTAL:</b>	<b>720.00</b>	<b>100.00%</b>	<b>706.13</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	493.34	Actual Hours	479.99	Percentage	97.29%
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Average downtime measured in antenna hours was **2.89%** of scheduled antenna hours, distributed as:

ANTENNA PADS	Category	Outage Hours	0.39	Percentage	2.81%
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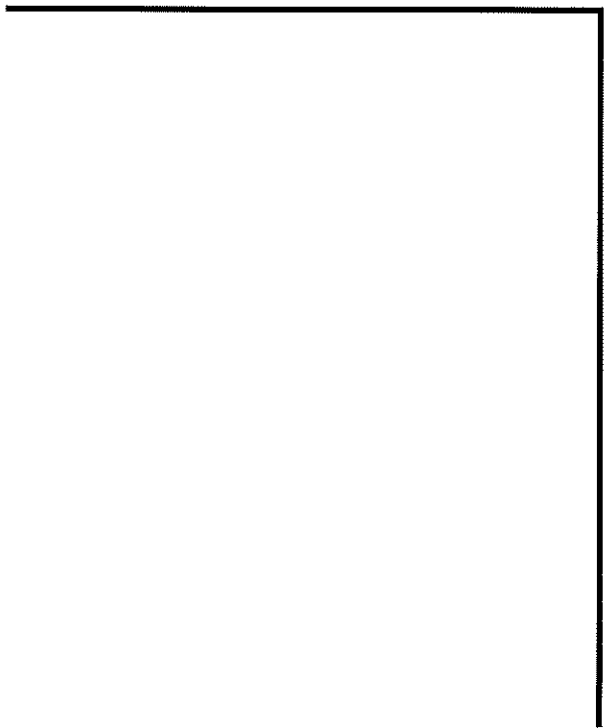
CORRELATOR	2.29	16.50%
CRYOGENICS	0.64	4.60%
ELECTRICAL	0.08	0.59%
FIBER OPTICS	1.24	8.93%
FOCUS/ROTATION	0.44	3.20%
FRONT END	2.78	20.04%
HVAC	0.01	0.07%
LO-IF	0.18	1.28%
MECHANICAL	0.05	0.34%
OTHER	0.16	1.17%
RECOMMISSIONING	0.53	3.80%
RFI	0.46	3.31%
SERVO	2.20	15.87%
SOFTWARE	0.41	2.98%
WEATHER	2.01	14.52%
<b>TOTAL:</b>	<b>13.86</b>	<b>100.00%</b>

Date Observed	
	27-Sep
	5,6,8,9,11-Sep
	1,7,8,9,10,12,13-Sep
	11-Sep
	16,19,20,21-Sep
	2,10,11,13,14-Sep
	6-Sep
	12-Sep
	20-Sep
	20-Sep
	3-Sep
	3,5,6,11-Sep
	1-Sep
	4,11,18,19,20-Sep
	19,21-Sep
	4-Sep
	2,4,22,23,24,25,26,27,28-Sep
	3,19,20,21,25-Sep
	1,2-Sep
	1,7,16,20-Sep
	2,4,7,12,13,14,15,17,18,19,22,27,28-Sep
	5,7,18-Sep
	5,7-Sep
	4,5,7,11,13,16,19,20,21-Sep
	12-Sep
	14,15,21-Sep
	12,18,19-Sep
	6,11,17-Sep
	1,8,19,24,25,26,27-Sep
	1-Sep

4,5,6,7,11,12,13,14,17,18,19,20-Sep  
7,13-Sep  
1,3,4,5,7,9,10,24,25,28-Sep  
20-Sep  
23,27-Sep  
2,10,11,12,14,15,19,27-Sep  
10,14,17-Sep  
3,5,7,20-Sep  
10,28-Sep  
9-Sep  
14-Sep  
12,13-Sep  
25-Sep  
4,5,11,14,15,16,17,18,26,27-Sep  
1,3,4,5,6-Sep  
11,16-Sep  
6,15,26-Sep  
25-Sep  
3,4,5,6,7,8,10-Sep  
6,19,21-Sep  
11-Sep  
21-Sep  
4,8,23,25-Sep  
18,19,20,21-Sep  
15-Sep  
8,10,20-Sep  
1-Sep  
5,6-Sep  
13-Sep  
11,12,18-Sep  
8,9,11-Sep  
18-Sep



22-Sep  
6-Sep  
26-Sep  
10,11,26,28-Sep  
24-Sep  
12-Sep  
11-Sep  
8,11,15,18,22-Sep  
6-Sep



3rd Quarter 2015	Jul-15	Aug-15	Sep-15	Totals
Scheduled Observing:	561.09	574.81	479.99	1615.89
Unscheduled	7.88	9.80	13.35	31.03
Maintenance:	47.98	40.49	102.14	190.61
Test/Calc:	127.05	118.90	124.52	370.47
Holiday Shutdown:	0.00	0.00	0.00	0.00
Time Lost:	17.56	14.34	13.86	45.76
Actual Observing:	543.53	560.47	466.12	1570.12
Scheduled Dynamic Observing:	568.97	584.61	493.34	1646.92

	Scheduled Hours	Percentage	Actual Hours	Percentage
Scheduled Astronomy	1615.89	73.18%	1570.12	72.62%
Unscheduled	31.03	1.41%	31.03	1.44%
Maintenance	190.61	8.63%	190.61	8.82%
Test/Calc	370.47	16.78%	370.47	17.13%
Holiday Shutdown	0.00	0.00%	0.00	0.00%
<b>Total:</b>	<b>2208.00</b>	<b>100.00%</b>	<b>2162.23</b>	<b>100.00%</b>

Scheduled Hours	Actual Hours	Percentage

Dynamic Astronomy	1646.92	1615.89	98.12%
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Average downtime in antenna hours was **2.83%** of scheduled antenna hours.

August 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed
13B-057	2.82	13B-057	0.01	2.81
13B-318	35.07	13B-318	1.04	34.03
14A-360	32.99	14A-360	1.16	31.83
14A-375	0.89	14A-375	0.03	0.85
14B-336	14.92	14B-336	0.55	14.37
14B-340	4.60	14B-340	0.12	4.49
14B-413	1.99	14B-413	0.00	1.99
14B-487	4.99	14B-487	0.06	4.92
15A-011	10.44	15A-011	0.13	10.31
15A-016	1.01	15A-016	0.02	1.00
15A-019	1.99	15A-019	0.07	1.92
15A-020	1.00	15A-020	0.00	1.00
15A-033	5.34	15A-033	0.00	5.34
15A-035	2.49	15A-035	0.00	2.49
15A-048	11.79	15A-048	0.67	11.13
15A-053	20.78	15A-053	0.91	19.88
15A-065	1.00	15A-065	0.01	0.98
15A-070	1.96	15A-070	0.01	1.95
15A-071	2.00	15A-071	0.02	1.98
15A-072	0.66	15A-072	0.00	0.66
15A-074	31.92	15A-074	0.67	31.25
15A-076	3.99	15A-076	0.07	3.92
15A-077	9.99	15A-077	0.43	9.56
15A-092	1.50	15A-092	0.00	1.50
15A-100	11.97	15A-100	0.39	11.58
15A-101	3.99	15A-101	0.00	3.99
15A-105	3.07	15A-105	0.08	2.99
15A-119	15.46	15A-119	0.31	15.15
15A-134	2.25	15A-134	0.03	2.22
15A-137	0.93	15A-137	0.00	0.93

15A-138	10.97	15A-138	0.15	10.82
15A-140	1.50	15A-140	0.00	1.50
15A-141	0.50	15A-141	0.00	0.50
15A-144	0.66	15A-144	0.02	0.64
15A-145	8.56	15A-145	0.18	8.38
15A-148	1.98	15A-148	0.07	1.90
15A-155	1.00	15A-155	0.04	0.96
15A-165	0.51	15A-165	0.00	0.51
15A-170	8.98	15A-170	0.00	8.98
15A-174	1.03	15A-174	0.01	1.02
15A-195	3.57	15A-195	0.02	3.55
15A-197	1.50	15A-197	0.08	1.42
15A-203	1.99	15A-203	0.08	1.91
15A-205	6.84	15A-205	0.19	6.65
15A-214	15.67	15A-214	0.76	14.91
15A-215	36.94	15A-215	0.41	36.53
15A-218	10.85	15A-218	0.14	10.71
15A-221	8.98	15A-221	0.17	8.81
15A-223	13.95	15A-223	0.37	13.58
15A-224	0.75	15A-224	0.00	0.75
15A-234	2.99	15A-234	0.11	2.88
15A-235	16.46	15A-235	0.19	16.27
15A-249	7.97	15A-249	0.30	7.67
15A-263	3.02	15A-263	0.13	2.89
15A-264	15.99	15A-264	0.53	15.46
15A-267	1.42	15A-267	0.03	1.39
15A-282	16.70	15A-282	0.21	16.49
15A-283	7.99	15A-283	0.09	7.89
15A-286	6.98	15A-286	0.15	6.83
15A-297	1.33	15A-297	1.33	0.00
15A-301	9.86	15A-301	0.10	9.76
15A-310	13.02	15A-310	0.01	13.01

15A-316	8.00	15A-316	0.03	7.97
15A-337	7.27	15A-337	0.40	6.87
15A-349	4.08	15A-349	0.13	3.95
15A-365	3.99	15A-365	0.03	3.97
15A-369	1.81	15A-369	0.05	1.76
15A-381	1.66	15A-381	0.07	1.59
15A-397	4.00	15A-397	0.07	3.93
15A-408	1.00	15A-408	0.04	0.96
15A-409	12.00	15A-409	0.16	11.84
15A-416	4.04	15A-416	0.08	3.96
15A-420	3.99	15A-420	0.15	3.84
15A-422	3.99	15A-422	0.02	3.97
15A-426	3.79	15A-426	0.08	3.71
15A-473	1.01	15A-473	0.00	1.01
15A-476	1.00	15A-476	0.00	1.00
15A-507	0.68	15A-507	0.00	0.68
15B-339	2.99	15B-339	0.07	2.92
15B-342	1.00	15B-342	0.00	1.00
15B-344	1.85	15B-344	0.01	1.83
15B-345	6.07	15B-345	0.06	6.01
SB4161	6.03	SB4161	0.08	5.95
SB4220	1.00	SB4220	0.00	1.00
SG0196	4.35	SG0196	0.08	4.26
SG0577	2.00	SG0577	0.07	1.92
SG0848	3.00	SG0848	0.00	3.00
<b>TOTAL:</b>			<b>14.34</b>	<b>560.47</b>
			<b>2.49%</b>	

SCHEDULED ASTRONOMY	Scheduled Hours	Percentage	Actual Hours	Percentage
	574.81	77.26%	560.47	76.81%

UNSCCHEDULED	9.80	1.32%	9.80	1.34%
MAINTENANCE	40.49	5.44%	40.49	5.55%
TEST/CALC	118.90	15.98%	118.90	16.30%
<b>TOTAL:</b>	<b>744.00</b>	<b>100.00%</b>	<b>729.66</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	584.61	Actual Hours	574.81	Percentage	98.32%
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Average downtime measured in antenna hours was 2.49% of scheduled antenna hours, distributed as:

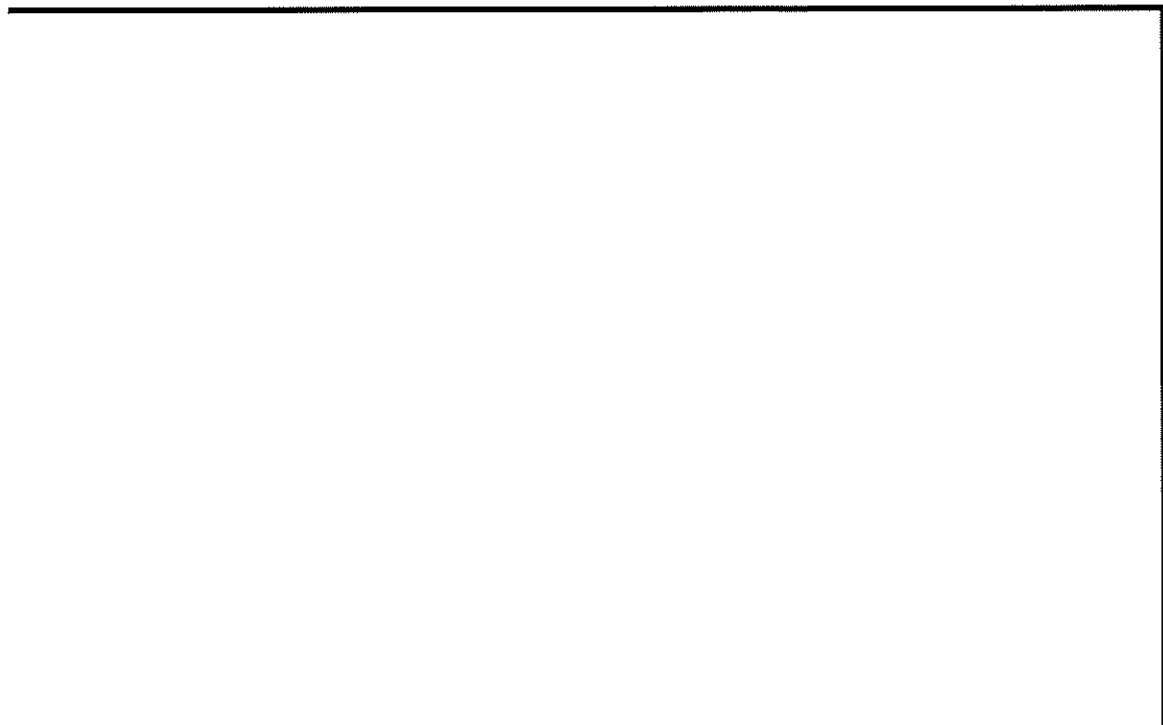
Category	Outage Hours	Percentage
ANTENNA PADS	0.06	0.40%
CORRELATOR	0.18	1.29%
CRYOGENICS	1.67	11.65%
FIBER OPTICS	0.17	1.22%
FOCUS/ROTATION	0.31	2.15%
FRONT END	2.81	19.56%
HVAC	2.08	14.48%
LO-IF	0.15	1.05%
MONITOR/CONTROL	0.04	0.29%
OTHER	0.18	1.25%
RECOMMISSIONING	0.60	4.15%
SERVO	4.14	28.85%
SITE POWER	0.01	0.07%
SOFTWARE	0.55	3.84%
WEATHER	1.40	9.76%
<b>TOTAL:</b>	<b>14.34</b>	<b>100.00%</b>



Date Observed
15-Aug
6,9,14,15,16,21,22,25,28,29,30,31-Aug
11,17,18,20,23,24,26,27,31-Aug
1-Aug
2,11-Aug
2,6-Aug
28-Aug
13,25-Aug
4,6,9-Aug
30-Aug
18-Aug
22-Aug
10-Aug
9-Aug
1,2,10,14,15,20,23,26-Aug
1,14,16,17,29,31-Aug
21-Aug
28-Aug
6-Aug
22-Aug
16,17,20,21,23,24,25,26-Aug
16,31-Aug
2,21-Aug
22-Aug
1,3,4,16,28,30-Aug
10,13-Aug
2,15,24-Aug
29,30-Aug
1,11,13-Aug
12-Aug

10,12,16,17-Aug  
14-Aug  
15-Aug  
17-Aug  
2,4,6,7,8,12,13,18,22,23,24,25,28-Aug  
1-Aug  
3,27-Aug  
14-Aug  
8-Aug  
5-Aug  
5,12,15,17,22,29-Aug  
31-Aug  
24,31-Aug  
1,5,16,18,19,30-Aug  
7,23-Aug  
20,21,22,25,26,27,28,30,31-Aug  
8,19,22-Aug  
3,15,21,22-Aug  
1,3,4,7,9,11-Aug  
5-Aug  
3,6,21-Aug  
12,13,15,19,28,31-Aug  
2,7,18-Aug  
1,3-Aug  
14,22,23,24-Aug  
27-Aug  
3,8,14,15,21-Aug  
1,14,15,24,29,30-Aug  
7,20-Aug  
29-Aug  
5,7,9,18-Aug  
20,27,29,30-Aug

5,13,14-Aug  
9,13,14,16,28-Aug  
7,8,9,10-Aug  
7,8,10,18,20,31-Aug  
2,6-Aug  
16-Aug  
1,2,8,9,14-Aug  
3-Aug  
9,11,16,24,30-Aug  
15-Aug  
1-Aug  
8,31-Aug  
4,19,22,29,30-Aug  
10-Aug  
28-Aug  
13-Aug  
11,15,18-Aug  
12,15,22-Aug  
23,31-Aug  
19,22,31-Aug  
2,4,6,8,10,13-Aug  
22-Aug  
1,5-Aug  
17-Aug  
13-Aug



July 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed	Date Observed
138-057	2.42	138-057	0.03	2.39	26-Jul
138-318	5.91	138-318	0.20	5.71	13,16,26-Jul
14A-102	1.03	14A-102	0.00	1.03	24-Jul
14A-360	3.99	14A-360	0.08	3.91	24-Jul
14A-375	0.11	14A-375	0.00	0.11	31-Jul
14A-531	1.47	14A-531	0.00	1.47	24-Jul
14B-336	14.98	14B-336	0.81	14.17	14,15-Jul
14B-340	5.43	14B-340	0.05	5.38	23,24,25,31-Jul
14B-413	2.99	14B-413	0.00	2.99	6,9-Jul
15A-016	6.09	15A-016	0.06	6.03	19,21,23-Jul
15A-019	2.00	15A-019	0.06	1.94	5-Jul
15A-023	1.16	15A-023	0.01	1.15	24-Jul
15A-033	11.14	15A-033	0.02	11.11	23,24,26-Jul
15A-040	8.06	15A-040	0.09	7.97	2,3,4,7,11,13,18,25-Jul
15A-044	5.66	15A-044	0.03	5.63	19,21,22-Jul
15A-045	6.97	15A-045	0.05	6.92	16,18,21-Jul
15A-046	8.98	15A-046	0.10	8.88	1,3,4,24,25,26,31-Jul
15A-048	7.52	15A-048	0.06	7.47	22,24,27,29,30-Jul
15A-049	5.98	15A-049	0.17	5.81	20-Jul
15A-053	1.03	15A-053	0.03	0.00	26-Jul
15A-061	7.98	15A-061	0.15	7.83	11,13-Jul
15A-068	1.50	15A-068	0.03	1.47	19-Jul
15A-070	7.81	15A-070	0.17	7.65	6,12,16,18-Jul
15A-072	0.33	15A-072	0.01	0.32	12-Jul
15A-073	9.93	15A-073	0.02	9.90	11,23,24,25,26,27-Jul
15A-077	5.98	15A-077	0.23	5.76	31-Jul
15A-078	5.34	15A-078	0.10	5.24	2,5,18-Jul
15A-100	85.45	15A-100	1.07	84.37	1,2,3,4,5,6,7,8,9,10,11,12,13,16,20,23,26,29-Jul
15A-101	2.00	15A-101	0.06	1.94	27-Jul
15A-105	5.13	15A-105	0.09	5.05	5,13,18,25-Jul
15A-113	7.98	15A-113	0.00	7.98	5,9-Jul
15A-115	3.99	15A-115	0.09	3.90	21-Jul
15A-127	0.50	15A-127	0.04	0.46	12-Jul
15A-131	1.98	15A-131	0.16	1.82	12-Jul
15A-133	2.00	15A-133	0.02	1.98	10,18-Jul
15A-134	2.52	15A-134	0.07	2.45	11,14,21-Jul
15A-138	3.16	15A-138	0.46	2.70	13-Jul
15A-141	0.75	15A-141	0.00	0.75	17-Jul
15A-144	1.65	15A-144	0.27	1.38	19,24-Jul
15A-145	3.99	15A-145	0.07	3.92	2,3,6,8,13,14,16,26-Jul
15A-148	14.33	15A-148	0.08	14.24	18,20,25,27,28,30-Jul

15A-149	11.98	15A-149	0.41	11.57	8,12,17-Jul
15A-152	1.20	15A-152	0.04	1.16	10,12-Jul
15A-155	2.50	15A-155	0.07	2.43	20,21,24,30,31-Jul
15A-174	3.01	15A-174	0.18	2.83	10,27,28-Jul
15A-189	3.28	15A-189	0.09	3.19	14,16,24-Jul
15A-191	1.70	15A-191	0.02	1.68	2-Jul
15A-195	1.00	15A-195	0.02	0.98	27,30-Jul
15A-199	2.00	15A-199	0.00	2.00	25-Jul
15A-205	1.11	15A-205	0.00	1.11	29-Jul
15A-211	4.23	15A-211	0.27	3.95	5,6-Jul
15A-214	18.10	15A-214	3.68	14.42	4,10,12,18-Jul
15A-223	10.04	15A-223	0.27	9.76	19,29,31-Jul
15A-224	3.74	15A-224	0.06	3.69	18,21,28-Jul
15A-234	8.28	15A-234	0.41	7.86	2,3,11,21,25,26,28-Jul
15A-235	1.00	15A-235	0.00	1.00	30-Jul
15A-237	1.66	15A-237	0.03	1.63	13,18-Jul
15A-238	2.40	15A-238	0.00	2.40	27-Jul
15A-240	19.45	15A-240	0.24	19.21	3,4,10,17,19,30-Jul
15A-241	7.09	15A-241	0.25	6.84	19,21,30,31-Jul
15A-249	12.09	15A-249	0.17	11.93	9,11,17,22,28,31-Jul
15A-254	3.99	15A-254	0.08	3.91	26,28-Jul
15A-260	1.00	15A-260	0.01	0.99	7-Jul
15A-263	8.12	15A-263	0.20	7.92	23,24,29,30,31-Jul
15A-273	5.75	15A-273	0.46	5.29	6-Jul
15A-282	5.75	15A-282	1.26	4.50	10,26-Jul
15A-283	7.68	15A-283	0.20	7.49	2,5,10,11,14,22,23,28-Jul
15A-301	3.01	15A-301	0.06	2.95	29,31-Jul
15A-305	5.94	15A-305	0.05	5.90	1,2,3,5,11-Jul
15A-329	10.01	15A-329	0.01	9.99	17,22-Jul
15A-337	1.97	15A-337	0.04	1.94	14,16-Jul
15A-345	3.49	15A-345	0.12	3.37	3,11-Jul
15A-349	0.68	15A-349	0.00	0.68	5-Jul
15A-363	1.60	15A-363	0.01	1.59	15,17-Jul
15A-365	3.01	15A-365	0.07	2.93	5,7,15,19,20,31-Jul
15A-370	2.57	15A-370	0.10	2.48	1-Jul
15A-397	6.62	15A-397	0.18	6.45	4,5,11,12,24,25,31-Jul
15A-398	4.34	15A-398	0.10	4.24	2,18-Jul
15A-400	22.81	15A-400	0.19	22.63	6,7,9,11,13,14,22,28-Jul
15A-408	2.65	15A-408	0.13	2.52	12,16-Jul
15A-409	7.73	15A-409	0.07	7.66	20,25,31-Jul
15A-416	16.76	15A-416	0.17	16.59	4,5,18,19-Jul
15A-490	1.55	15A-490	0.00	1.55	17-Jul
15A-491	1.00	15A-491	0.00	1.00	15-Jul

15A-504	4.20	15A-504	0.11	4.09	2-Jul
15A-509	3.41	15A-509	0.46	2.94	10,11,12-Jul
BH210	8.05	BH210	0.84	7.21	17-Jul
SB4161	6.62	SB4161	0.88	6.55	7,9,11,14,15,19,23,26,31-Jul
SF0664	3.99	SF0664	0.13	3.86	30-Jul
SG0196	3.74	SG0196	0.12	3.62	15,23,28,30-Jul
SG0577	4.00	SG0577	0.07	3.93	3,27-Jul
SG0905	5.99	SG0905	0.00	5.99	25-Jul

**TOTAL:** 561.09      17.56      543.53      3.13%

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	561.09	75.42%	543.53	74.82%
UNSCHEMULED	7.88	1.06%	7.88	1.08%
MAINTENANCE	47.98	6.45%	47.98	6.60%
TEST/CALC	127.05	17.08%	127.05	17.49%
<b>TOTAL:</b>	<b>744.00</b>	<b>100.00%</b>	<b>726.44</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	568.97	Actual Hours	561.09	Percentage	98.62%
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Average downtime measured in antenna hours was 3.13% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
CORRELATOR	2.63	14.99%
CRYOGENICS	2.04	11.59%
FIBER OPTICS	0.26	1.51%
FOCUS/ROTATION	2.60	14.79%
FRONT END	0.59	3.35%
HVAC	0.45	2.54%
LO-IF	1.93	11.01%
MECHANICAL	0.10	0.57%
OTHER	0.20	1.13%
SERVO	1.52	8.63%
SITE POWER	0.30	1.72%
SOFTWARE	4.38	24.95%
WEATHER	0.57	3.23%

TOTAL:

17.56

100.00%



Quarterly Project Totals for Apr-Jun 2015

Project Code	Total Time Observed	Total Actual Time Observed
13B-057	22.46	21.71
13B-266	86.79	85.52
13B-318	4.98	4.54
13B-454	1.28	0.96
14A-000	2.00	1.93
14A-360	25.14	24.09
14A-375	1.00	1.00
14A-420	102.20	99.78
14A-485	2.99	2.99
14A-556	1.00	1.00
14B-037	27.97	27.63
14B-044	28.92	28.07
14B-153	5.64	5.50
14B-184	0.50	0.49
14B-205	34.20	33.70
14B-216	0.75	0.72
14B-272	10.97	10.95
14B-285	1.00	1.00
14B-336	22.43	21.61
14B-340	8.01	7.63
14B-357	6.98	6.66
14B-359	3.99	3.96
14B-401	8.12	8.10
14B-408	92.81	91.66
14B-475	15.01	14.83
14B-498	0.63	0.60
14B-514	1.99	1.99
15A-013	5.98	5.77
15A-016	2.00	1.96
15A-019	3.99	3.70
15A-032	24.44	23.80
15A-033	8.02	7.83
15A-034	4.82	4.75
15A-035	3.34	3.06
15A-036	3.11	3.06
15A-040	7.04	6.99
15A-041	8.16	7.88
15A-043	20.19	19.67
15A-045	3.99	3.84
15A-049	1.92	0.00

15A-054	6.03	5.86
15A-056	5.99	5.76
15A-057	1.00	0.95
15A-061	8.48	8.48
15A-063	2.31	2.31
15A-068	0.50	0.50
15A-069	2.99	2.93
15A-070	7.87	7.54
15A-074	12.71	12.40
15A-078	2.43	2.43
15A-084	1.35	1.33
15A-089	2.99	2.99
15A-098	2.29	2.13
15A-100	55.42	54.22
15A-101	4.03	4.03
15A-105	4.99	4.84
15A-110	2.49	1.90
15A-113	2.00	1.88
15A-114	1.08	1.03
15A-115	3.99	3.99
15A-120	6.74	6.74
15A-127	1.50	1.48
15A-129	2.50	2.45
15A-133	1.99	1.94
15A-139	7.98	7.98
15A-141	1.00	0.97
15A-144	0.74	0.74
15A-145	1.55	1.52
15A-152	1.33	1.29
15A-154	3.50	3.49
15A-157	7.48	7.46
15A-165	0.50	0.48
15A-175	5.00	4.82
15A-176	5.99	5.91
15A-195	4.54	4.45
15A-199	4.24	3.99
15A-203	3.18	1.94
15A-207	1.18	1.18
15A-211	2.76	2.66
15A-225	2.75	2.70
15A-226	10.97	10.38
15A-227	6.80	6.66

15A-230	0.75	0.72
15A-232	1.10	1.09
15A-234	39.95	38.72
15A-235	5.99	5.99
15A-239	39.89	39.19
15A-240	5.99	5.87
15A-243	37.96	37.40
15A-251	2.00	2.00
15A-254	1.00	0.96
15A-257	20.27	19.22
15A-260	3.49	3.42
15A-264	4.02	0.00
15A-265	9.42	9.13
15A-267	6.50	6.48
15A-270	35.21	34.75
15A-271	12.53	12.11
15A-273	6.22	5.91
15A-274	2.00	1.89
15A-297	6.98	6.72
15A-305	17.15	16.78
15A-312	4.24	4.23
15A-316	2.00	1.99
15A-336	1.25	1.25
15A-338	1.50	1.45
15A-345	5.45	5.20
15A-357	8.38	8.17
15A-361	6.01	5.89
15A-363	0.75	0.72
15A-365	2.07	2.03
15A-370	5.16	4.80
15A-372	17.95	17.15
15A-374	42.97	42.42
15A-375	3.00	2.94
15A-386	10.09	9.76
15A-389	5.99	5.99
15A-395	9.58	9.42
15A-397	2.00	1.97
15A-398	4.44	4.44
15A-403	28.63	28.21
15A-416	20.24	19.87
15A-418	18.58	17.75
15A-420	2.49	2.40

15A-421	61.26	59.71
15A-426	34.52	33.44
15A-429	36.89	36.06
15A-431	1.00	0.96
15A-455	5.00	4.77
15A-457	2.00	1.92
15A-460	0.50	0.46
15A-461	3.74	3.65
15A-466	1.00	1.00
15A-468	0.50	0.50
15A-471	1.36	1.25
15A-472	5.99	5.92
15A-473	20.96	20.58
15A-476	4.99	4.93
15A-477	1.50	1.50
15A-478	7.96	7.94
15A-480	1.20	1.19
15A-481	2.00	1.99
15A-482	3.99	3.95
15A-484	4.03	4.03
15A-487	2.00	1.96
15A-490	1.56	1.53
15A-491	3.27	3.21
15A-494	3.03	2.95
15A-497	2.53	2.39
15A-500	1.99	1.92
15A-501	2.74	2.74
15A-504	4.02	4.02
BB344	8.56	8.17
GL039	8.96	8.57
GP053	18.12	14.47
S61420	2.49	2.43
S71302	2.00	1.96
SB4161	2.02	1.99
SG0232	20.94	20.30
SG0515	4.99	4.85
SG0577	2.04	2.00
SG0869	2.08	2.02
<b>TOTALS:</b>	<b>1586.78</b>	<b>1539.33</b>

**NOTE:** the project actually ran for the *Total Time Observed* , but when one factors in equipment downtime, the *Total Actual Time Observed* is less.



2nd Quarter 2015	Apr-15	May-15	Jun-15
Scheduled Observing:	558.87	559.24	468.67
Unscheduled	11.95	19.45	13.59
Maintenance:	48.08	42.71	39.44
Test/Calc:	101.10	122.60	198.30
Holiday Shutdown:	0.00	0.00	0.00
Time Lost:	13.00	12.60	21.85
Actual Observing:	545.87	546.64	446.82
Scheduled Dynamic Observing:	570.82	578.69	482.26

	Scheduled Hours	Percentage	Actual Hours
Scheduled Astronomy	1586.78	72.65%	1539.33
Unscheduled	44.99	2.06%	44.99
Maintenance	130.23	5.96%	130.23
Test/Calc	422.00	19.32%	422.00
Holiday Shutdown	0.00	0.00%	0.00
<b>Total:</b>	<b>2184.00</b>	<b>100.00%</b>	<b>2136.55</b>

	Scheduled Hours	Actual Hours	Percentage
Dynamic Astronomy	1631.77	1586.78	97.24%

Average downtime in antenna hours was **2.99%** of scheduled antenna hours.

Totals
1586.78
44.99
130.23
422.00
0.00
47.45
1539.33
1631.77

Percentage
72.05%
2.11%
6.10%
19.75%
0.00%
100.00%

|



June 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed	Date Observed
13B-057	2.79	13B-057	0.15	2.64	14-Jun
13B-318	4.98	13B-318	0.44	4.54	19,29-Jun
14A-000	2.00	14A-000	0.07	1.93	20,28-Jun
14A-360	7.98	14A-360	0.60	7.38	26,27-Jun
14A-556	1.00	14A-556	0.33	1.00	2-Jun
14B-037	27.97	14B-037	0.44	27.63	19,21,22,23,24,26,27-Jun
14B-205	6.02	14B-205	0.46	5.59	2-Jun
14B-336	7.55	14B-336	0.00	7.09	29-Jun
14B-340	0.74	14B-340	0.32	0.74	23-Jun
14B-357	6.98	14B-357	0.00	6.66	15-Jun
14B-514	1.99	14B-514	0.02	1.99	12-Jun
15A-016	1.00	15A-016	0.29	0.98	20-Jun
15A-019	3.99	15A-019	0.27	3.70	23,26-Jun
15A-035	3.34	15A-035	0.04	3.06	19,28-Jun
15A-040	2.01	15A-040	0.17	1.98	26,30-Jun
15A-041	4.08	15A-041	1.92	3.91	1-Jun
15A-049	1.92	15A-049	0.10	0.00	16-Jun
15A-054	3.51	15A-054	0.04	3.41	18,21-Jun
15A-057	1.00	15A-057	0.00	0.95	30-Jun
15A-061	8.48	15A-061	0.00	8.48	25,27-Jun
15A-068	0.50	15A-068	0.06	0.50	25-Jun
15A-069	2.99	15A-069	0.00	2.93	13-Jun
15A-078	2.43	15A-078	0.01	2.43	20,21-Jun
15A-084	1.35	15A-084	0.17	1.33	23-Jun
15A-089	2.99	15A-089	1.20	2.99	24-Jun
15A-098	2.29	15A-098	0.00	2.13	19-Jun
15A-100	51.43	15A-100	0.00	50.22	1,2,4,5,6,7,9,10,12,17,18,19,23,24,25,26,27,28,30-Jun
15A-101	4.03	15A-101	0.15	4.03	21,23-Jun
15A-105	1.98	15A-105	0.59	1.83	8,28-Jun
15A-110	2.49	15A-110	0.11	1.90	30-Jun
15A-113	2.00	15A-113	0.05	1.88	18-Jun
15A-114	1.08	15A-114	0.00	1.03	28-Jun
15A-115	3.99	15A-115	0.05	3.99	21-Jun
15A-129	2.50	15A-129	0.03	2.45	19,20,23-Jun
15A-133	1.99	15A-133	0.00	1.94	20,30-Jun
15A-141	1.00	15A-141	0.03	0.97	23,28-Jun
15A-144	0.74	15A-144	0.00	0.74	21-Jun
15A-145	1.55	15A-145	0.03	1.52	20,23,28-Jun
15A-152	1.33	15A-152	0.04	1.29	17,25,28-Jun
15A-165	0.50	15A-165	0.02	0.48	19-Jun
15A-176	5.99	15A-176	0.08	5.91	20,21,26-Jun

15A-199	0.75	15A-199	0.01	0.73	22-Jun
15A-203	3.18	15A-203	1.24	1.94	20,22,30-Jun
15A-207	1.18	15A-207	0.00	1.18	21-Jun
15A-211	2.76	15A-211	0.10	2.66	30-Jun
15A-225	0.67	15A-225	0.03	0.64	1-Jun
15A-232	1.10	15A-232	0.00	1.09	25-Jun
15A-234	10.03	15A-234	0.44	9.58	1,3,12,14,15,28-Jun
15A-239	2.49	15A-239	0.00	2.49	13-Jun
15A-240	5.99	15A-240	0.11	5.87	26,30-Jun
15A-243	10.03	15A-243	0.39	9.64	1,4,6,7,8-Jun
15A-260	3.49	15A-260	0.07	3.42	20,27,28-Jun
15A-265	7.74	15A-265	0.25	7.49	1,5,6,7,12,13,14-Jun
15A-267	1.63	15A-267	0.00	1.63	24-Jun
15A-270	5.82	15A-270	0.23	5.59	5-Jun
15A-271	9.37	15A-271	0.42	8.95	2,5-Jun
15A-273	6.22	15A-273	0.31	5.91	28-Jun
15A-297	6.98	15A-297	0.26	6.72	19,21-Jun
15A-305	17.15	15A-305	0.37	16.78	18,19,20,21,23,24,27,28,30-Jun
15A-312	4.24	15A-312	0.01	4.23	24-Jun
15A-345	3.49	15A-345	0.18	3.32	26,28-Jun
15A-357	8.38	15A-357	0.21	8.17	19,22-Jun
15A-361	6.01	15A-361	0.12	5.89	13,14-Jun
15A-363	0.75	15A-363	0.03	0.72	28-Jun
15A-370	5.16	15A-370	0.36	4.80	26,30-Jun
15A-375	3.00	15A-375	0.06	2.94	20-Jun
15A-386	2.10	15A-386	0.09	2.02	7-Jun
15A-397	2.00	15A-397	0.02	1.97	20,21-Jun
15A-398	4.44	15A-398	0.00	4.44	21,23-Jun
15A-418	8.11	15A-418	0.69	7.42	2,4,6-Jun
15A-420	2.49	15A-420	0.09	2.40	18-Jun
15A-421	6.98	15A-421	0.44	6.54	10,11,12-Jun
15A-426	9.16	15A-426	0.54	8.62	1,2,4,7,11,12-Jun
15A-429	3.58	15A-429	0.24	3.33	1-Jun
15A-455	4.00	15A-455	0.19	3.81	2,4,6,11-Jun
15A-457	2.00	15A-457	0.07	1.92	10-Jun
15A-468	0.50	15A-468	0.00	0.50	4-Jun
15A-473	12.99	15A-473	0.27	12.72	1,11,13,14,16,17-Jun
15A-476	2.50	15A-476	0.00	2.50	16,21-Jun
15A-484	1.00	15A-484	0.00	1.00	5-Jun
15A-490	1.56	15A-490	0.03	1.53	3-Jun
15A-491	3.27	15A-491	0.06	3.21	15,16,17-Jun
15A-494	3.03	15A-494	0.08	2.95	16-Jun
15A-497	2.53	15A-497	0.14	2.39	12,14-Jun

15A-500	1.99	15A-500	0.07	1.92	10-Jun
15A-501	2.74	15A-501	0.00	2.74	13,14-Jun
15A-504	4.02	15A-504	0.00	4.02	22-Jun
BB344	8.56	BB344	0.39	8.17	7-Jun
GL039	8.96	GL039	0.39	8.57	3-Jun
GP053	18.12	GP053	3.65	14.47	3,5,12-Jun
SB4161	2.02	SB4161	0.03	1.99	10,16,21,26-Jun
SG0232	20.94	SG0232	0.64	20.30	6,7,13-Jun
SG0515	4.99	SG0515	0.14	4.85	18-Jun
SG0577	2.04	SG0577	0.04	2.00	13-Jun
<b>TOTAL:</b>	<b>468.67</b>		<b>21.85</b>	<b>446.82</b>	
			<b>4.66%</b>		

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	468.67	65.09%	446.82	64.00%
UNSCCHEDULED	13.59	1.89%	13.59	1.95%
MAINTENANCE	39.44	5.48%	39.44	5.65%
TEST/CALC	198.30	27.54%	198.30	28.40%
<b>TOTAL:</b>	<b>720.00</b>	<b>100.00%</b>	<b>698.15</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	482.26	Actual Hours	468.67	Percentage	97.18%
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Average downtime measured in antenna hours was 4.66% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
ANTENNA PADS	1.05	4.82%
COMPUTERS	0.54	2.49%
CORRELATOR	2.75	12.60%
CRYOGENICS	0.23	1.05%
FIBER OPTICS	1.55	7.09%
FOCUS/ROTATION	0.37	1.69%
FRONT END	0.64	2.92%
HVAC	2.03	9.28%
LO-IF	1.68	7.70%
MECHANICAL	0.18	0.83%
OTHER	0.47	2.16%
RECOMMISSIONING	0.98	4.46%
RFI	2.89	13.23%

SERVO	4.31	19.73%
SITE POWER	0.76	3.46%
SOFTWARE	1.37	6.28%
WEATHER	0.05	0.21%
<b>TOTAL:</b>	<b>21.85</b>	<b>100.00%</b>

May 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed	Date Observed
13B-057	2.23	13B-057	0.18	2.06	1-May
13B-266	8.98	13B-266	0.00	8.98	3,4-May
13B-454	1.28	13B-454	0.32	0.96	28-May
14A-360	2.69	14A-360	0.00	2.69	3-May
14A-375	1.00	14A-375	0.00	1.00	5-May
14A-420	42.72	14A-420	1.15	41.58	2,3,6,7,8,9,10,14-May
14B-044	10.47	14B-044	0.35	10.12	1,2-May
14B-153	2.04	14B-153	0.01	2.04	5,7,10-May
14B-205	24.19	14B-205	0.07	24.13	22,23,24,25-May
14B-272	6.98	14B-272	0.02	6.97	26,29-May
14B-285	1.00	14B-285	0.00	1.00	9-May
14B-340	0.74	14B-340	0.03	0.71	14-May
14B-401	8.12	14B-401	0.02	8.10	28,29-May
14B-408	33.51	14B-408	0.43	33.09	1,4,5,6,7,8,9-May
14B-475	15.01	14B-475	0.19	14.83	14,15,17-May
15A-016	1.00	15A-016	0.01	0.99	26-May
15A-032	3.00	15A-032	0.04	2.96	3,8-May
15A-033	5.54	15A-033	0.01	5.53	10,11-May
15A-034	3.50	15A-034	0.07	3.42	4,12-May
15A-040	5.03	15A-040	0.02	5.01	21,24,25,28-May
15A-043	10.11	15A-043	0.14	9.96	3,4,5,11-May
15A-045	3.99	15A-045	0.15	3.84	29,31-May
15A-054	2.52	15A-054	0.07	2.45	19,21,22-May
15A-063	2.31	15A-063	0.00	2.31	19-May
15A-070	5.25	15A-070	0.10	5.15	19,20,22,23,24-May
15A-100	4.00	15A-100	0.00	4.00	20,22,25-May
15A-105	2.02	15A-105	0.00	2.02	11,22-May
15A-120	2.66	15A-120	0.00	2.66	3,9-May
15A-127	1.50	15A-127	0.01	1.48	28-May
15A-139	7.98	15A-139	0.00	7.98	23-May



15A-473	7.97	15A-473	0.12	7.85	12,13,14,15,16,17-May
15A-478	7.96	15A-478	0.02	7.94	22-May
15A-480	1.20	15A-480	0.01	1.19	4-May
15A-481	2.00	15A-481	0.01	1.99	13-May
15A-482	3.99	15A-482	0.04	3.95	9-May
15A-484	3.03	15A-484	0.00	3.03	12,15,30-May
15A-487	2.00	15A-487	0.04	1.96	15-May
S61420	2.49	S61420	0.06	2.43	16-May
<b>TOTAL:</b>	<b>559.24</b>		<b>12.60</b>	<b>546.64</b>	
			<b>2.25%</b>		

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	559.24	75.17%	546.64	74.74%
UNSCHEDULED	19.45	2.61%	19.45	2.66%
MAINTENANCE	42.71	5.74%	42.71	5.84%
TEST/CALC	122.60	16.48%	122.60	16.76%
<b>TOTAL:</b>	<b>744.00</b>	<b>100.00%</b>	<b>731.40</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	578.69	Actual Hours	559.24	Percentage	96.64%
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Average downtime measured in antenna hours was 2.25% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
ANTENNA PADS	0.44	3.51%
COMPUTERS	0.45	3.59%
CORRELATOR	4.16	33.02%

CRYOGENICS	1.01	7.99%
FIBER OPTICS	0.06	0.44%
FOCUS/ROTATION	1.69	13.41%
FRONT END	0.57	4.52%
LO-IF	0.72	5.69%
MECHANICAL	0.05	0.42%
OTHER	0.29	2.33%
RECOMMISSIONING	0.17	1.32%
SERVO	1.73	13.77%
SOFTWARE	0.28	2.24%
WEATHER	0.97	7.74%
<b>TOTAL:</b>	<b>12.60</b>	<b>100.00%</b>



April 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed
13B-057	17.44	13B-057	0.42	17.02
13B-266	77.81	13B-266	1.27	76.54
14A-360	14.47	14A-360	0.46	14.02
14A-420	59.48	14A-420	1.28	58.20
14A-485	2.99	14A-485	0.00	2.99
14B-044	18.45	14B-044	0.50	17.95
14B-153	3.60	14B-153	0.13	3.47
14B-184	0.50	14B-184	0.01	0.49
14B-205	3.99	14B-205	0.00	3.99
14B-216	0.75	14B-216	0.03	0.72
14B-272	3.99	14B-272	0.00	3.99
14B-336	14.88	14B-336	0.36	14.52
14B-340	6.53	14B-340	0.35	6.18
14B-359	3.99	14B-359	0.03	3.96
14B-408	59.29	14B-408	0.72	58.58
14B-498	0.63	14B-498	0.02	0.60
15A-013	5.98	15A-013	0.20	5.77
15A-032	21.44	15A-032	0.60	20.84
15A-033	2.48	15A-033	0.18	2.30
15A-034	1.33	15A-034	0.00	1.33
15A-036	3.11	15A-036	0.05	3.06
15A-041	4.08	15A-041	0.11	3.98
15A-043	10.08	15A-043	0.37	9.71
15A-056	5.99	15A-056	0.23	5.76
15A-070	2.62	15A-070	0.22	2.40
15A-074	12.71	15A-074	0.30	12.40
15A-105	1.00	15A-105	0.00	1.00
15A-120	4.08	15A-120	0.00	4.08
15A-154	1.50	15A-154	0.00	1.50
15A-157	2.99	15A-157	0.02	2.97



2.33%

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	558.87	77.62%	545.87	77.21%
UNSCHEDULED	11.95	1.66%	11.95	1.69%
MAINTENANCE	48.08	6.68%	48.08	6.80%
TEST/CALC	101.10	14.04%	101.10	14.30%
<b>TOTAL:</b>	<b>720.00</b>	<b>100.00%</b>	<b>707.00</b>	<b>100.00%</b>

	Available Hours	Actual Hours	Percentage
DYNAMIC ASTRONOMY	570.82	558.87	97.91%

Average downtime measured in antenna hours was 2.33% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
COMPUTERS	0.07	0.53%
CORRELATOR	0.11	0.82%
CRYOGENICS	1.48	11.37%
FIBER OPTICS	0.28	2.19%
FOCUS/ROTATION	3.18	24.44%
FRONT END	0.22	1.70%
HVAC	1.30	10.00%
LO-IF	1.47	11.31%
MECHANICAL	0.03	0.23%
OTHER	0.98	7.53%
RFI	0.02	0.12%
SERVO	2.33	17.95%
SOFTWARE	0.74	5.67%
WEATHER	0.80	6.15%

TOTAL:

13.00

100.00%

Date Observed
7,8,17,18,19,21,24,28-Apr
1,2,3,4,11,17,18,19,20,25,26,27-Apr
6,10,11,17-Apr
4,14,16,17,18,19,20,24,25,26-Apr
4-Apr
16,20,21,24,25,26-Apr
2,8,18,19,22,27-Apr
17-Apr
7-Apr
12-Apr
5-Apr
5,12-Apr
4,22,30-Apr
10,11-Apr
10,11,12,13,14,15,16,19,23,24,25,29,30-Apr
18-Apr
3,10,12-Apr
7,8,9,18,20,23,26,30-Apr
2-Apr
24,27-Apr
1,19-Apr
10-Apr
4,9,13,24-Apr
2,5-Apr
13-Apr
8,15,16,17-Apr
24-Apr
11,14,26-Apr
16-Apr
24,25,28-Apr

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9,18,21,27-Apr  
23-Apr  
2,4-Apr  
13-Apr  
6,9,10,12,16,17,21,24,25,28,29-Apr  
24,25,26,27,28-Apr  
23,24,25,27-Apr  
20-Apr  
10-Apr  
1,3,4,6,29-Apr  
3,5-Apr  
12-Apr  
2-Apr  
17-Apr  
1,20-Apr  
10,11,30-Apr  
3,4,6,9,10-Apr  
3,6,9,12,13,15,20,21,22-Apr  
2,3,11,18,19,20,26,27-Apr  
7,22,30-Apr  
12-Apr  
13-Apr  
9-Apr  
8,28,29-Apr  
16-Apr  
8,9-Apr  
21,22-Apr  
27-Apr  
7,9-Apr  
1,8-Apr

Quarterly Project Totals for Jan-Mar 2015

Project Code	Total Time Observed	Total Actual Time Observed
13A-143	0.33	0.29
13B-041	2.49	2.49
13B-057	35.44	32.93
13B-091	3.15	2.92
13B-266	128.76	122.01
13B-435	2.99	2.94
14A-133	20.35	18.98
14A-171	5.98	5.66
14A-209	6.08	5.82
14A-344	3.16	3.16
14A-375	2.00	2.00
14A-468	9.97	9.87
14A-476	1.00	1.00
14A-483	1.00	1.00
14A-485	8.99	8.99
14A-556	1.99	1.99
14B-008	3.09	2.95
14B-010	2.48	2.48
14B-015	6.18	5.91
14B-027	2.51	2.43
14B-033	7.98	7.92
14B-042	4.10	4.10
14B-043	0.50	0.47
14B-051	1.00	0.99
14B-053	2.00	1.92
14B-057	1.99	1.99
14B-061	2.52	2.48
14B-063	3.48	3.48
14B-106	5.98	5.98
14B-107	3.26	3.26
14B-112	1.00	1.00
14B-115	8.30	7.97
14B-117	1.08	1.02
14B-128	3.99	3.90
14B-140	0.24	0.24
14B-147	11.98	11.23
14B-153	0.50	0.47
14B-154	16.29	15.70
14B-157	1.99	1.83
14B-158	8.46	8.33

14B-160	14.96	14.41
14B-163	3.99	3.76
14B-165	27.06	26.04
14B-173	5.95	5.50
14B-177	8.33	7.95
14B-184	1.50	1.41
14B-190	3.99	3.88
14B-192	6.98	6.75
14B-196	4.99	4.83
14B-197	5.49	5.35
14B-205	11.97	11.88
14B-212	32.41	30.78
14B-216	1.50	1.46
14B-234	4.84	4.76
14B-238	9.29	8.81
14B-241	1.51	1.44
14B-242	1.55	1.55
14B-247	0.50	0.49
14B-253	2.00	1.94
14B-258	5.30	5.30
14B-272	8.48	8.28
14B-278	2.00	2.00
14B-281	3.99	3.60
14B-282	18.93	18.50
14B-292	9.31	8.91
14B-305	57.06	54.76
14B-309	2.65	2.65
14B-315	38.09	37.31
14B-318	6.32	6.16
14B-319	5.70	5.45
14B-326	8.48	8.34
14B-340	5.05	4.97
14B-343	37.31	35.87
14B-344	3.99	3.75
14B-359	14.05	13.59
14B-370	0.91	0.91
14B-394	2.25	2.08
14B-396	13.98	13.73
14B-397	9.98	9.73
14B-401	8.01	7.72
14B-408	18.28	17.80
14B-475	14.97	13.73



14B-485	4.05	3.63
14B-489	3.49	3.49
14B-493	2.26	2.17
14B-497	5.99	5.86
14B-498	2.73	2.70
14B-503	1.01	1.01
14B-506	3.00	2.79
15A-013	8.07	7.65
15A-017	5.00	4.63
15A-032	19.91	18.35
15A-033	13.62	13.48
15A-034	1.95	1.54
15A-035	8.44	8.09
15A-036	9.23	8.65
15A-041	13.12	12.28
15A-043	20.14	19.16
15A-044	10.31	9.63
15A-056	6.00	5.77
15A-059	1.99	1.78
15A-060	7.98	7.46
15A-062	3.99	3.80
15A-063	1.90	1.69
15A-069	11.30	10.67
15A-070	11.70	8.71
15A-083	3.99	3.82
15A-089	2.99	2.99
15A-091	7.03	6.51
15A-102	3.49	3.43
15A-104	14.22	12.60
15A-105	3.05	2.93
15A-127	5.57	5.27
15A-129	7.08	6.67
15A-132	9.04	7.80
15A-140	1.25	1.15
15A-143	2.00	1.85
15A-149	5.98	5.54
15A-154	1.08	1.08
15A-156	2.74	2.54
15A-164	3.37	3.07
15A-165	0.50	0.47
15A-173	7.31	6.33
15A-175	29.15	27.33

15A-195	2.56	2.41
15A-199	0.75	0.69
15A-227	9.77	9.41
15A-228	41.93	37.55
15A-230	12.89	12.10
15A-232	3.22	3.10
15A-233	4.47	4.17
15A-234	15.97	14.64
15A-235	5.24	4.92
15A-246	9.01	8.37
15A-251	2.00	1.89
15A-253	0.22	0.22
15A-254	3.01	3.01
15A-260	2.00	1.80
15A-266	8.31	8.07
15A-270	53.12	49.94
15A-274	10.47	9.86
15A-307	22.91	21.38
15A-312	2.59	2.54
15A-320	9.46	8.84
15A-338	12.45	11.98
15A-341	20.56	18.85
15A-357	0.98	0.95
15A-365	6.10	5.80
15A-372	9.00	8.41
15A-381	13.87	13.35
15A-386	2.00	1.92
15A-403	7.56	7.43
15A-404	1.50	1.33
15A-405	3.99	3.84
15A-412	7.11	6.67
15A-417	7.98	7.54
15A-419	11.97	11.78
15A-420	5.49	5.30
15A-421	31.30	30.47
15A-426	1.28	1.14
15A-427	1.00	0.94
15A-431	7.73	7.33
15A-455	1.00	0.95
15A-459	0.65	0.62
15A-460	1.50	1.37
15A-461	2.99	2.75

BR145	1.99	1.93
BS242	16.03	15.49
GA035	12.25	10.30
S61420	2.74	2.64
S7104	8.98	8.79
S71302	1.00	0.96
SE0851	6.48	6.48
SF0858	3.99	3.99
SG0365	2.99	2.88
SG0455	2.00	1.78

**TOTALS:**

**1501.86**

**1425.51**

**NOTE:** the project actually ran for the *Total Time Observed* , but when one factors in equipment downtime, the *Total Actual Time Observed* is less.

1st Quarter 2015	Jan-15	Feb-15	Mar-15	Totals
Scheduled Observing:	501.82	452.53	547.51	1501.86
Unscheduled	33.88	30.08	16.53	80.49
Maintenance:	42.53	40.82	39.70	123.05
Test/Calc:	165.77	148.57	140.26	454.60
Holiday Shutdown:	0.00	0.00	0.00	0.00
Time Lost:	17.68	30.05	28.62	76.35
Actual Observing:	484.14	422.48	518.89	1425.51
Scheduled Dynamic Observing:	535.70	482.61	564.04	1582.35

	Scheduled Hours	Percentage	Actual Hours	Percentage
Scheduled Astronomy	1501.86	69.53%	1425.51	68.41%
Unscheduled	80.49	3.73%	80.49	3.86%
Maintenance	123.05	5.70%	123.05	5.91%
Test/Calc	454.60	21.05%	454.60	21.82%
Holiday Shutdown	0.00	0.00%	0.00	0.00%
<b>Total:</b>	<b>2160.00</b>	<b>100.00%</b>	<b>2083.65</b>	<b>100.00%</b>

	Scheduled Hours	Actual Hours	Percentage
Dynamic Astronomy	1582.35	1501.86	94.91%

Average downtime in antenna hours  
was **5.08%** of scheduled antenna hours.



March 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed	Date Observed
13B-057	16.30	13B-057	1.15	15.15	1,4,7,10,14,17,25,26-Mar
13B-266	116.79	13B-266	5.80	110.99	3,4,12,13,15,16,18,19,20,21,22,23,24,25,26,27,28,29,30,31-Mar
14A-133	9.31	14A-133	0.70	8.62	6,8,9,10,19-Mar
14A-375	1.00	14A-375	0.00	1.00	31-Mar
14A-485	8.99	14A-485	0.00	8.99	22,28,29-Mar
14B-106	5.98	14B-106	0.00	5.98	24,27-Mar
14B-153	0.50	14B-153	0.03	0.47	26-Mar
14B-154	7.98	14B-154	0.00	7.98	31-Mar
14B-163	2.00	14B-163	0.09	1.91	2-Mar
14B-165	19.34	14B-165	0.40	18.94	20,28,29-Mar
14B-216	1.50	14B-216	0.04	1.46	19,24-Mar
14B-272	2.99	14B-272	0.00	2.99	30-Mar
14B-344	3.99	14B-344	0.24	3.75	14,16-Mar
14B-359	9.97	14B-359	0.19	9.78	19,21,24,26,28-Mar
14B-408	5.32	14B-408	0.20	5.12	11,17-Mar
14B-475	2.49	14B-475	0.28	2.22	2-Mar
14B-489	1.50	14B-489	0.00	1.50	30-Mar
14B-493	0.76	14B-493	0.03	0.73	13-Mar
14B-498	1.26	14B-498	0.03	1.23	20,23-Mar
14B-506	1.50	14B-506	0.10	1.40	12-Mar
15A-013	4.01	15A-013	0.24	3.77	7,8-Mar
15A-032	5.02	15A-032	0.11	4.91	15,24,30-Mar
15A-033	13.62	15A-033	0.14	13.48	13,21,23,27-Mar
15A-034	1.28	15A-034	0.38	0.90	2,21-Mar
15A-036	4.56	15A-036	0.22	4.34	25,26-Mar
15A-041	8.04	15A-041	0.61	7.43	9,16-Mar
15A-043	20.14	15A-043	0.98	19.16	1,3,7,18,27,28,29-Mar
15A-060	6.99	15A-060	0.47	6.52	2,3,6,27-Mar
15A-062	3.99	15A-062	0.20	3.80	16,20-Mar
15A-063	1.90	15A-063	0.21	1.69	6-Mar
15A-069	5.79	15A-069	0.23	5.56	8,23-Mar
15A-070	3.12	15A-070	0.06	3.06	20-Mar
15A-083	3.99	15A-083	0.18	3.82	10,15-Mar
15A-091	3.54	15A-091	0.25	3.29	3,15-Mar
15A-104	5.99	15A-104	0.37	5.62	8,15,16,23-Mar
15A-105	3.05	15A-105	0.13	2.93	1,13,27-Mar
15A-127	1.00	15A-127	0.10	0.90	8-Mar
15A-129	1.08	15A-129	0.06	1.02	1,11-Mar
15A-132	9.04	15A-132	1.24	7.80	5,7,8-Mar
15A-149	2.99	15A-149	0.33	2.66	7-Mar
15A-164	3.37	15A-164	0.30	3.07	5,6,23-Mar

15A-173	15A-173	4.58	0.32	4.26	13-Mar
15A-175	15A-175	5.09	0.31	4.78	7,14-Mar
15A-195	15A-195	2.06	0.11	1.95	1,11,17,21-Mar
15A-227	15A-227	9.77	0.36	9.41	22,27,29-Mar
15A-228	15A-228	31.43	3.46	27.97	2,5,6,7,8-Mar
15A-230	15A-230	3.75	0.17	3.58	6,13,14,27-Mar
15A-234	15A-234	15.97	1.33	14.64	5,6,7,8,9,10,15,28,31-Mar
15A-235	15A-235	3.74	0.26	3.48	4,16,17-Mar
15A-246	15A-246	3.02	0.35	2.67	2,5,6-Mar
15A-251	15A-251	1.00	0.04	0.95	11-Mar
15A-260	15A-260	1.00	0.11	0.89	7-Mar
15A-270	15A-270	20.83	0.78	20.04	12,22-Mar
15A-274	15A-274	1.99	0.22	1.77	2-Mar
15A-307	15A-307	18.92	1.23	17.70	1,11,14,17-Mar
15A-338	15A-338	10.24	0.30	9.94	2,9,17,30-Mar
15A-365	15A-365	4.52	0.22	4.31	6,14,18,20,23,31-Mar
15A-372	15A-372	9.00	0.59	8.41	15,30-Mar
15A-386	15A-386	2.00	0.07	1.92	13,15-Mar
15A-403	15A-403	7.56	0.13	7.43	18,20,26-Mar
15A-405	15A-405	3.99	0.15	3.84	9,10-Mar
15A-412	15A-412	4.27	0.22	4.05	9,10-Mar
15A-421	15A-421	30.05	0.78	29.27	10,12,14,15,21,24,28,29-Mar
15A-426	15A-426	1.28	0.14	1.14	23,26-Mar
15A-431	15A-431	1.00	0.14	0.86	4-Mar
15A-455	15A-455	1.00	0.04	0.95	17-Mar
15A-460	15A-460	1.50	0.12	1.37	5,14,26-Mar
15A-461	15A-461	2.99	0.24	2.75	1,6,9,17-Mar
S7104	S7104	8.98	0.18	8.79	16,17,21-Mar
S71302	S71302	1.00	0.04	0.96	16-Mar
SG0365	SG0365	2.99	0.11	2.88	1-Mar
<b>TOTAL:</b>		<b>547.51</b>	<b>28.62</b>	<b>518.89</b>	
			<b>5.23%</b>		

	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	547.51	73.59%	518.89	72.53%
UNSCCHEDULED	16.53	2.22%	16.53	2.31%
MAINTENANCE	39.70	5.34%	39.70	5.55%
TEST/CALC	140.26	18.85%	140.26	19.61%
<b>TOTAL:</b>	<b>744.00</b>	<b>100.00%</b>	<b>715.38</b>	<b>100.00%</b>



DYNAMIC ASTRONOMY	Available Hours	564.04	Actual Hours	547.51	Percentage	97.07%
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Average downtime measured in antenna hours was 5.23% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
ANTENNA PADS	0.04	0.15%
CORRELATOR	0.03	0.11%
CRYOGENICS	1.19	4.16%
FIBER OPTICS	0.35	1.22%
FOCUS/ROTATION	11.46	40.05%
FRONT END	0.64	2.25%
HVAC	0.03	0.09%
I.O-IF	0.80	2.79%
MECHANICAL	0.33	1.16%
OTHER	0.24	0.84%
RECOMMISSIONING	3.08	10.74%
SERVO	6.80	23.74%
SOFTWARE	3.31	11.58%
WEATHER	0.32	1.13%
<b>TOTAL:</b>	<b>28.62</b>	<b>100.00%</b>



February 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed	Date Observed
138-057	10.95	138-057	0.74	10.21	1,14,18,19,24-Feb
138-266	11.97	138-266	0.95	11.01	25,28-Feb
138-435	2.99	138-435	0.05	2.94	6-Feb
14A-133	11.04	14A-133	0.67	10.37	11,13,14,15,19,22-Feb
14A-209	6.08	14A-209	0.26	5.82	20-Feb
14B-015	4.15	14B-015	0.12	4.04	5,6-Feb
14B-043	0.50	14B-043	0.03	0.47	2-Feb
14B-115	5.54	14B-115	0.03	5.51	1,2-Feb
14B-154	8.31	14B-154	0.59	7.72	26-Feb
14B-163	2.00	14B-163	0.15	1.85	12-Feb
14B-165	7.72	14B-165	0.62	7.10	23,28-Feb
14B-177	4.34	14B-177	0.25	4.09	22,27-Feb
14B-241	1.51	14B-241	0.07	1.44	4-Feb
14B-253	1.00	14B-253	0.05	0.95	4-Feb
14B-359	4.07	14B-359	0.26	3.81	9,26-Feb
14B-408	1.99	14B-408	0.07	1.92	12-Feb
14B-475	12.47	14B-475	0.96	11.52	15,16,17,24-Feb
14B-485	4.05	14B-485	0.43	3.63	13,15-Feb
15A-013	4.06	15A-013	0.18	3.87	22,28-Feb
15A-017	5.00	15A-017	0.37	4.63	14-Feb
15A-032	14.88	15A-032	1.45	13.44	22,23,25-Feb
15A-034	0.67	15A-034	0.02	0.64	21-Feb
15A-035	8.44	15A-035	0.35	8.09	7,8,10,14-Feb
15A-036	4.66	15A-036	0.36	4.30	14,16,17-Feb
15A-041	5.08	15A-041	0.23	4.85	21,23-Feb
15A-044	10.31	15A-044	0.68	9.63	11,12,13,21-Feb
15A-056	6.00	15A-056	0.22	5.77	2,5-Feb
15A-059	1.99	15A-059	0.21	1.78	20-Feb
15A-060	1.00	15A-060	0.06	0.94	27-Feb
15A-069	5.51	15A-069	0.40	5.11	18,20-Feb
15A-070	8.58	15A-070	2.93	5.65	20,23,24,28-Feb
15A-089	2.99	15A-089	0.00	2.99	8-Feb
15A-091	3.49	15A-091	0.27	3.22	22,26-Feb
15A-102	3.49	15A-102	0.06	3.43	8-Feb
15A-104	8.24	15A-104	1.25	6.99	1,5,6,12,13,14-Feb
15A-127	4.57	15A-127	0.20	4.37	13,15,17-Feb
15A-129	5.99	15A-129	0.34	5.65	19,20,21,23,24,26-Feb
15A-140	1.25	15A-140	0.09	1.15	15-Feb
15A-143	2.00	15A-143	0.15	1.85	6-Feb
15A-149	2.99	15A-149	0.11	2.88	27-Feb
15A-154	1.08	15A-154	0.00	1.08	6-Feb



	Scheduled Hours	Percentage	Actual Hours	Percentage
SCHEDULED ASTRONOMY	452.53	67.34%	422.48	65.81%
UNSCCHEDULED	30.08	4.48%	30.08	4.69%
MAINTENANCE	40.82	6.07%	40.82	6.36%
TEST/CALC	148.57	22.11%	148.57	23.14%
<b>TOTAL:</b>	<b>672.00</b>	<b>100.00%</b>	<b>641.95</b>	<b>100.00%</b>

	Available Hours	Actual Hours	Percentage
DYNAMIC ASTRONOMY	482.61	452.53	93.77%

Average downtime measured in antenna hours was **6.64%** of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
ANTENNA PADS	0.93	3.08%
COMPUTERS	0.43	1.44%
CORRELATOR	2.70	8.97%
CRYOGENICS	0.38	1.25%
ELECTRICAL	0.20	0.67%
FIBER OPTICS	0.11	0.35%
FOCUS/ROTATION	1.46	4.85%
FRONT END	2.32	7.71%
HVAC	0.70	2.32%
LO-IF	0.56	1.85%
MECHANICAL	0.20	0.65%
OTHER	0.87	2.91%
RECOMMISSIONING	13.22	43.98%
SERVO	4.85	16.12%
SOFTWARE	0.80	2.67%
WEATHER	0.35	1.17%
<b>TOTAL:</b>	<b>30.05</b>	<b>100.00%</b>



January 2015

Project Code	Total Time (Hrs)	Project Code	Real Outage Hours	Calculated Hours Observed	Date Observed
13A-143	0.33	13A-143	0.04	0.29	27-Jan
13B-041	2.49	13B-041	0.00	2.49	1,4-Jan
13B-057	8.19	13B-057	0.62	7.57	16,17,29,30-Jan
13B-091	3.15	13B-091	0.23	2.92	9-Jan
14A-171	5.98	14A-171	0.33	5.66	6,7-Jan
14A-344	3.16	14A-344	0.00	3.16	2,7,21-Jan
14A-375	1.00	14A-375	0.00	1.00	3-Jan
14A-468	9.97	14A-468	0.10	9.87	3,7,8-Jan
14A-476	1.00	14A-476	0.00	1.00	24-Jan
14A-483	1.00	14A-483	0.00	1.00	31-Jan
14A-556	1.99	14A-556	0.00	1.99	1,2-Jan
14B-008	3.09	14B-008	0.14	2.95	14-Jan
14B-010	2.48	14B-010	0.00	2.48	2,3-Jan
14B-015	2.02	14B-015	0.15	1.87	28-Jan
14B-027	2.51	14B-027	0.08	2.43	9,10,11-Jan
14B-033	7.98	14B-033	0.06	7.92	12,19,22,26-Jan
14B-042	4.10	14B-042	0.00	4.10	2,3,8-Jan
14B-051	1.00	14B-051	0.01	0.99	10-Jan
14B-053	2.00	14B-053	0.07	1.92	18-Jan
14B-057	1.99	14B-057	0.00	1.99	3-Jan
14B-061	2.52	14B-061	0.04	2.48	10,11,16-Jan
14B-063	3.48	14B-063	0.00	3.48	9,10-Jan
14B-107	3.26	14B-107	0.00	3.26	1-Jan
14B-112	1.00	14B-112	0.00	1.00	3-Jan
14B-115	2.77	14B-115	0.30	2.46	19-Jan
14B-117	1.08	14B-117	0.06	1.02	17-Jan
14B-128	3.99	14B-128	0.09	3.90	10,18-Jan
14B-140	0.24	14B-140	0.00	0.24	1-Jan
14B-147	11.98	14B-147	0.75	11.23	1,4,5-Jan
14B-157	1.99	14B-157	0.16	1.83	14-Jan
14B-158	8.46	14B-158	0.13	8.33	13,14,15,19-Jan
14B-160	14.96	14B-160	0.55	14.41	11,12,13,15,17-Jan
14B-173	5.95	14B-173	0.45	5.50	15,16,18,19-Jan
14B-177	3.99	14B-177	0.13	3.86	5,6,7-Jan
14B-184	1.50	14B-184	0.08	1.41	8,9,16-Jan
14B-190	3.99	14B-190	0.11	3.88	12,19-Jan
14B-192	6.98	14B-192	0.23	6.75	11,12,13,14,15-Jan
14B-196	4.99	14B-196	0.16	4.83	9,12,13-Jan
14B-197	5.49	14B-197	0.14	5.35	20,23-Jan
14B-205	11.97	14B-205	0.09	11.88	10,11,13-Jan
14B-212	32.41	14B-212	1.64	30.78	16,17,18,19,23,24,26,27,30,31-Jan





MAINTENANCE	42.53	5.72%	42.53	5.86%
TEST/CALC	165.77	22.28%	165.77	22.82%
<b>TOTAL:</b>	<b>744.00</b>	<b>100.00%</b>	<b>726.32</b>	<b>100.00%</b>

DYNAMIC ASTRONOMY	Available Hours	Actual Hours	Percentage
	535.70	501.82	93.68%

Average downtime measured in antenna hours was 3.52% of scheduled antenna hours, distributed as:

Category	Outage Hours	Percentage
ANTENNA PADS	1.79	10.12%
CORRELATOR	0.44	2.47%
CRYOGENICS	2.42	13.68%
ELECTRICAL	0.15	0.87%
FIBER OPTICS	1.01	5.70%
FIRE ALARM	0.05	0.27%
FOCUS/ROTATION	0.93	5.25%
FRONT END	0.63	3.55%
LO-IF	2.42	13.70%
MECHANICAL	0.04	0.21%
OTHER	2.50	14.12%
RECOMMISSIONING	1.17	6.62%
SERVO	4.07	22.99%
SITE POWER	0.04	0.23%
SOFTWARE	0.04	0.21%
<b>TOTAL:</b>	<b>17.68</b>	<b>100.00%</b>

