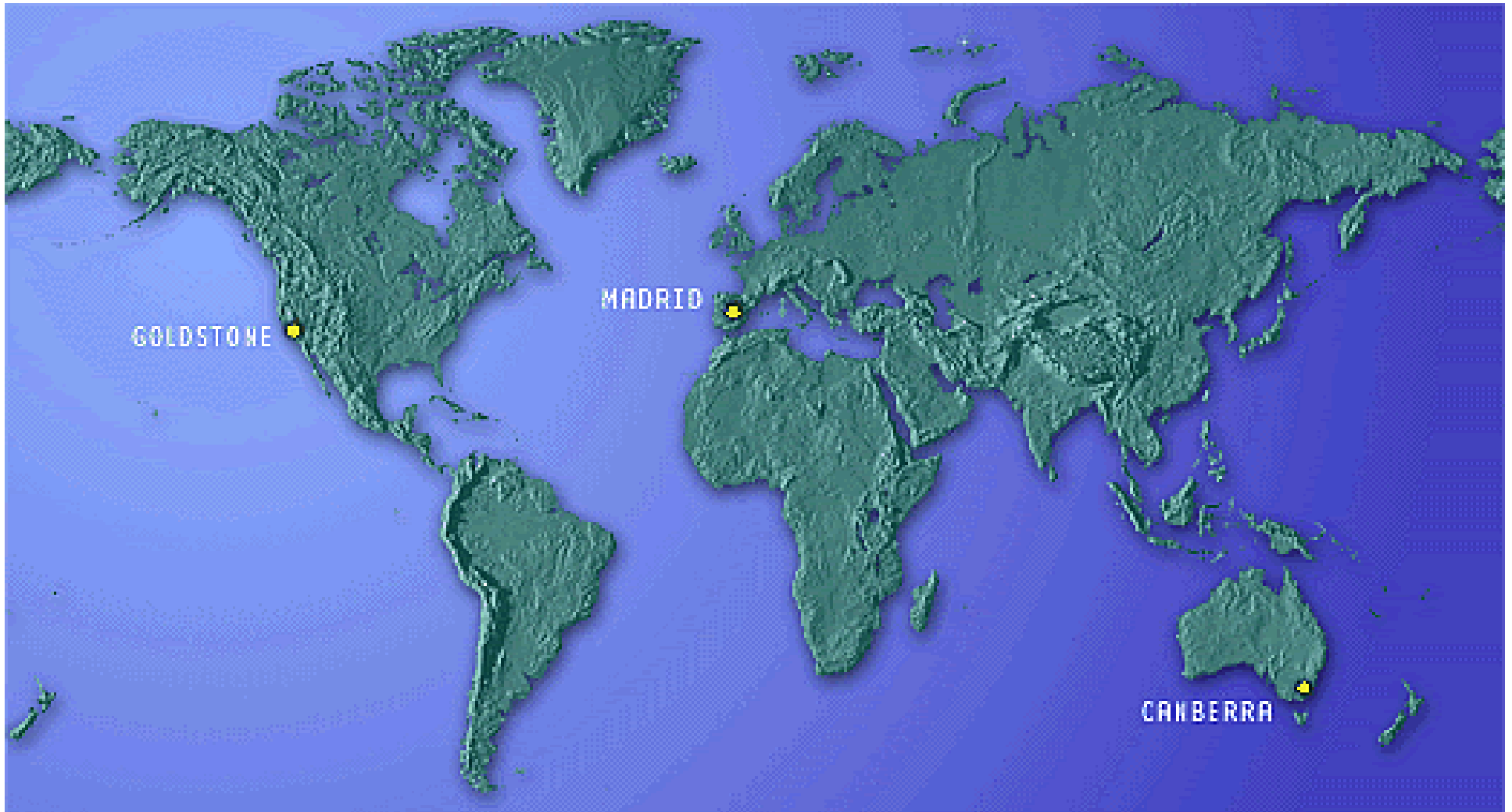


DSN Antenna Downtime Status and Forecast



<http://rapweb.jpl.nasa.gov/planning>

Antenna Downtime Status and Forecast

Changes to 2007 Downtime Schedule

- ❑ Two hour complex-wide downtime per complex every six months (day shift) for Network Infrastructure, this will be used to scan complex servers for vulnerabilities (Start date to be determined)
- ❑ Per DSS-46 request, painting time has changed from DOY 094 – 097 to 092 – 094 (22:00 – 08:00) and has been successfully negotiated and approved in the schedule
- ❑ QPOD APEX MOUNT (DSS-24) has been rescheduled in the mid-range schedule from DOY 81 – 82 to DOY 163, 168
- ❑ Goldstone – Pwr Dist Grp Maintenance complex wide downtimes:

DOY	Date	PDST*	UTC	Time Period
132	May 12, 2007	10:00 – 16:00	17:00 – 23:00	06 Hours
133	May 13, 2007	05:00 – 17:00	12:00 – 00:00	12 Hours
137	May 17, 2007	06:00 – 22:00	13:00 – 05:00	16 Hours
141	May 21, 2007	08:15 – 20:15	15:15 – 03:15	12 Hours
146	May 26, 2007	07:00 – 19:00	14:00 – 02:00	12 Hours
153	June 02, 2007	08:15 – 24:15	15:15 – 07:15	12 Hours
164	June 13, 2007	08:00 – 20:00	15:00 – 03:00	12 Hours

Changes to 2008 Downtime Schedule

- ❑ MDSCC Complex-wide downtime for Commercial Power Installation on March 23 – 24, 30 – 31, and April 6 – 7 as 12 hour back-to-back blocks

Changes to 2010 Downtime Schedule

- ❑ DSS-25 Ka U/L proposed downtime weeks 13 – 15

All previous downtime proposals have been agreed to by all DSN Missions/Users through the INCF/RAR, JURAP or Mid-Range Scheduling Process

Antenna Downtime Status and Forecast

DSN Antenna Downtime Report

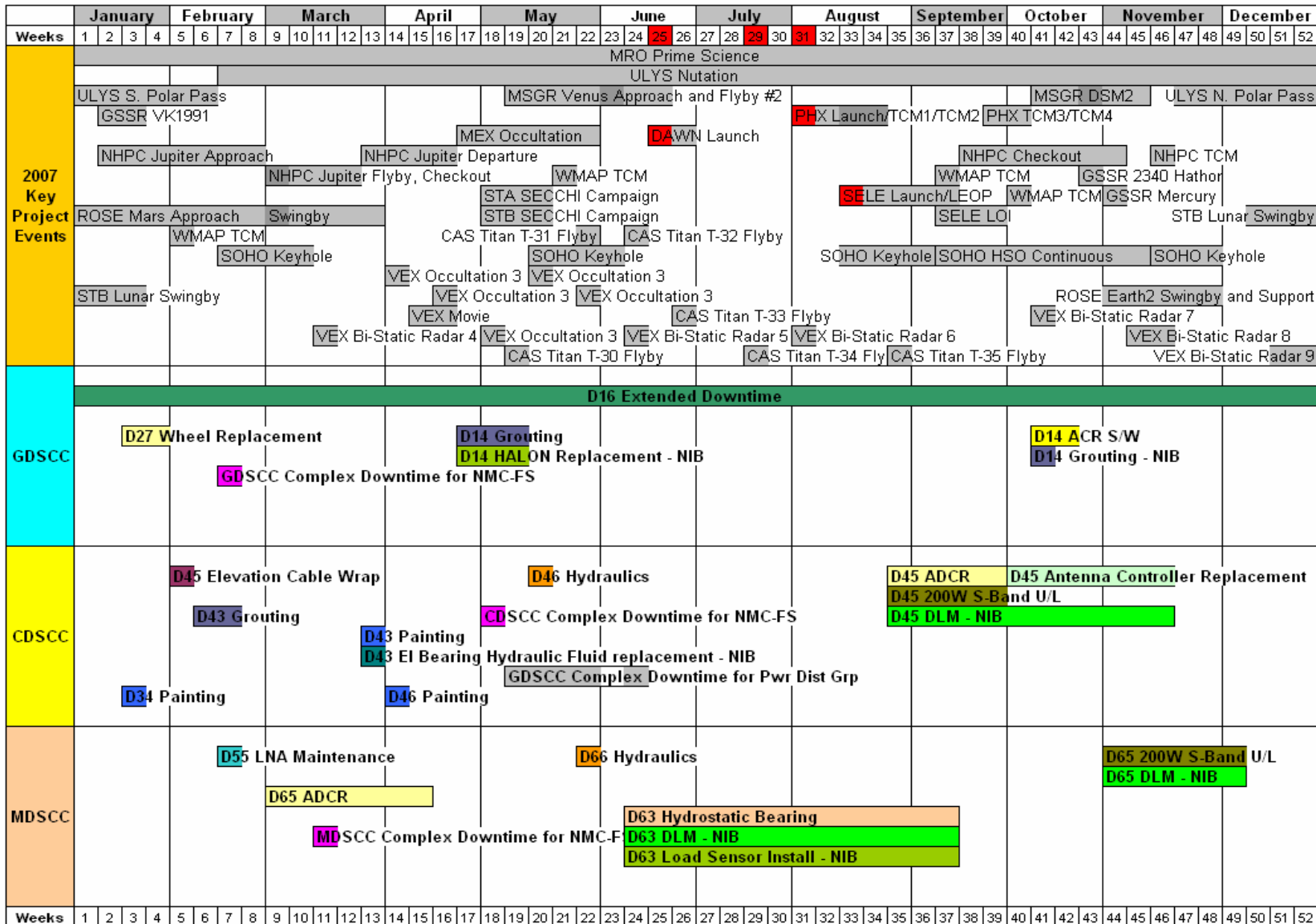
2007							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 65	Antenna Drive Cabinet Refurbishment	02/26/2007 00:00	04/16/2007 23:59	50	09 - 16	057	106
DSS 14	Grouting	04/27/2007 00:00	05/08/2007 23:59	11	17 - 19	117	127
DSS 14	HALON Replacement- NIB	04/27/2007 00:00	05/08/2007 23:59	11	17 - 19	117	127
SPC 10	Pwr Dist Grp	05/12/2007 17:00	05/12/2007 23:00	0	19 - 19	132	131
SPC 10	Pwr Dist Grp	05/13/2007 12:00	05/13/2007 23:59	1	19 - 19	133	133
DSS 46	Hydraulics	05/14/2007 00:00	05/19/2007 23:59	5	20 - 20	134	138
SPC 10	Pwr Dist Grp	05/17/2007 13:00	05/18/2007 05:00	1	20 - 20	137	137
SPC 10	Pwr Dist Grp	05/21/2007 15:15	05/22/2007 03:15	1	21 - 21	141	141
SPC 10	Pwr Dist Grp	05/26/2007 14:00	05/27/2007 02:00	1	21 - 21	146	146
DSS 66	Hydraulics Task	05/29/2007 00:00	06/01/2007 23:59	5	22 - 22	148	152
SPC 10	Pwr Dist Grp	06/02/2007 15:15	06/03/2007 07:15	1	22 - 22	153	153
SPC 10	Pwr Dist Grp	06/02/2007 15:15	06/03/2007 07:15	1	22 - 22	153	153
DSS 63	Hydrostatic Bearing Replacement	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Depot Level Maintenance - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Load Sensors Install - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
SPC 10	Pwr Dist Grp	06/13/2007 15:00	06/14/2007 03:00	1	24 - 24	164	164
DSS 45	Antenna Drive Cabinet Refurbishment	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	S-Band 200w U/L Install - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Depot Level Maintenance - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Antenna Controller Replacement	10/01/2007 00:00	11/19/2007 23:59	49	40 - 46	274	322
DSS 14	ACR S/W Install	10/08/2007 00:00	10/21/2007 23:59	13	41 - 42	281	293
DSS 14	Grouting - NIB	10/08/2007 00:00	10/14/2007 23:59	7	41 - 41	281	287
DSS 65	200w S-Band U/L	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343
DSS 65	Depot Level Maintenance - NIB	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343

Antenna Downtime Status and Forecast

DSN Antenna Downtime Report

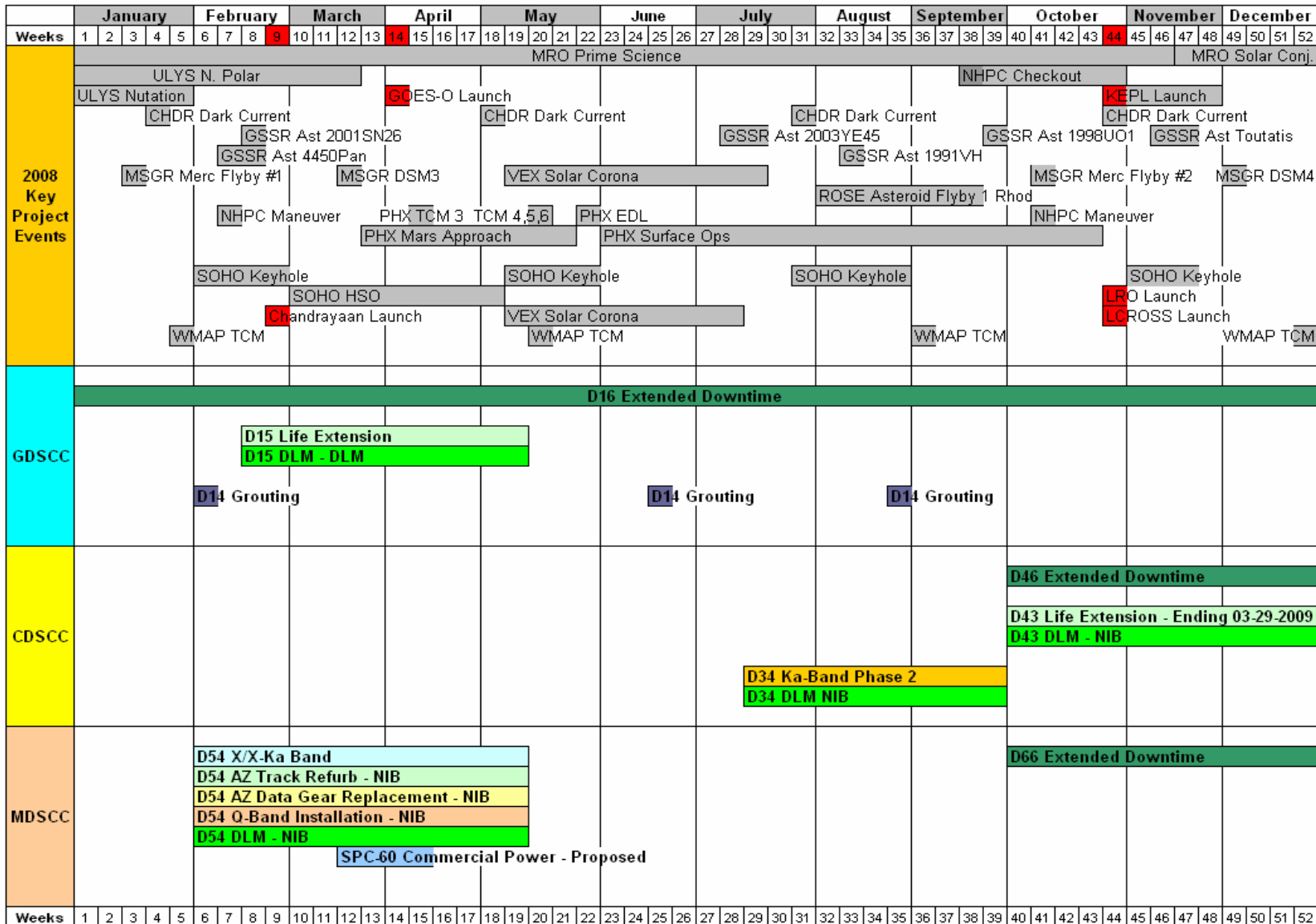
2008							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	X/Ka-Band Install	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Track Refurbishment - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Data Gear Replacement - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Q-Band Installation - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Depot Level Maintenance - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 15	Life Extension	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
DSS 15	Depot Level Maintenance - NIB	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
SPC 60	Commercial Power Installation	03/23/2008 07:00	03/23/2008 19:00	1	12 - 12	083	082
SPC 60	Commercial Power Installation	03/24/2008 07:00	03/24/2008 19:00	1	13 - 13	084	083
SPC 60	Commercial Power Installation	03/30/2008 06:00	03/30/2008 18:00	1	13 - 13	090	089
SPC 60	Commercial Power Installation	03/31/2008 06:00	03/31/2008 18:00	1	14 - 14	091	090
SPC 60	Commercial Power Installation	04/06/2008 06:00	04/06/2008 18:00	1	14 - 14	097	096
SPC 60	Commercial Power Installation	04/07/2008 06:00	04/07/2008 18:00	1	15 - 15	098	097
DSS 34	Ka-Band Phase 2 Install	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 34	Depot Level Maintenance - NIB	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 43	Life Extension	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088
DSS 43	Depot Level Maintenance - NIB	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088
2009							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	Life Extension	03/30/2009 00:00	09/27/2009 23:59	182	14 - 39	089	270
DSS 24	Ka-Band Phase 2 Install	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 24	Depot Level Maintenance - NIB	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 14	Life Extension	09/28/2009 00:00	03/28/2010 23:59	182	40 - 12	271	087
2010							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	Depot Level Maintenance - NIB	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269
DSS 54	Ka-Band Phase 2 Install	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269

Antenna Downtime Status and Forecast 2007



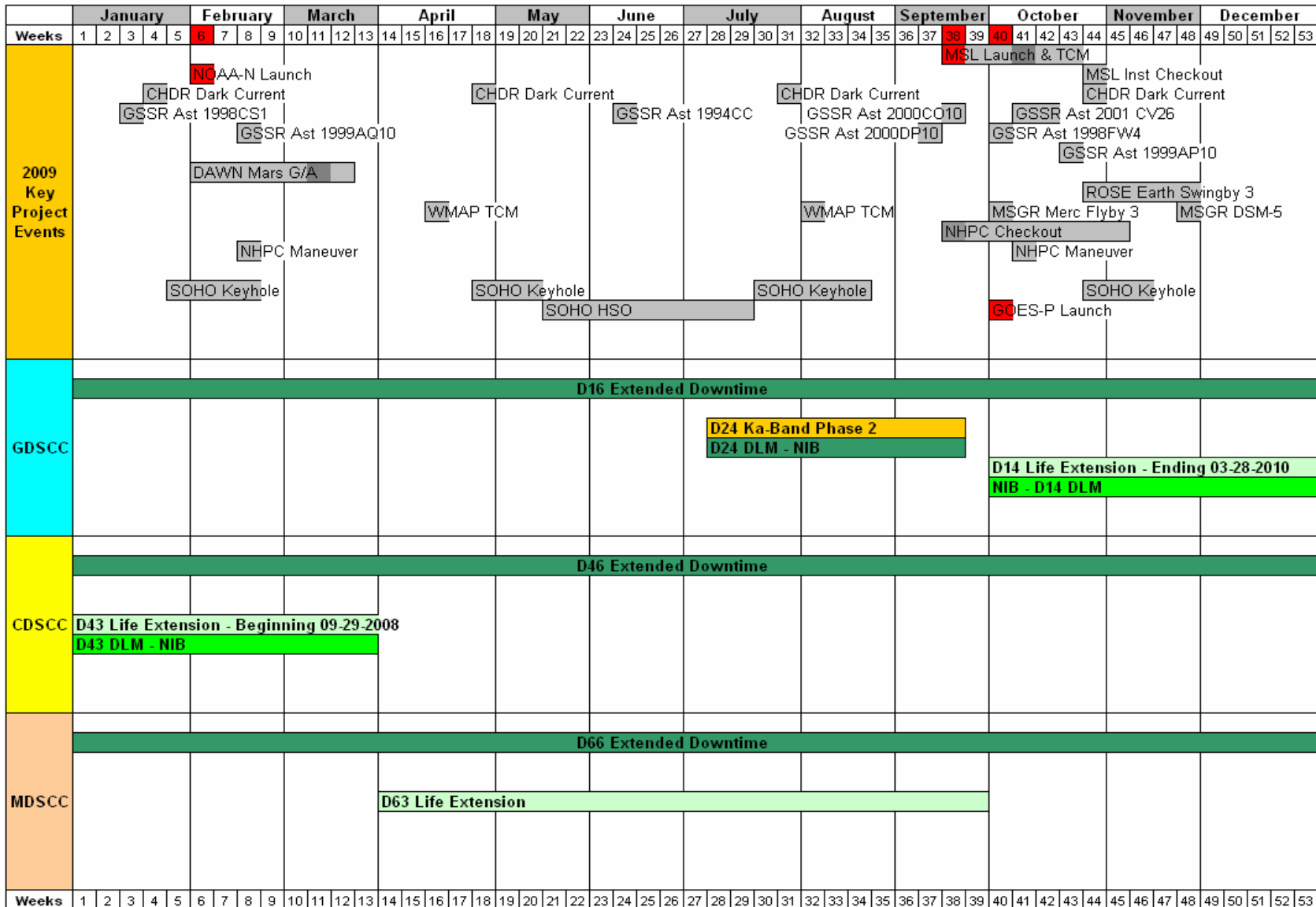
Revised: April 13, 2007

Antenna Downtime Status and Forecast 2008



Revised: March 12, 2007

Antenna Downtime Status and Forecast 2009



Revised: March 26, 2007

Antenna Downtime Status and Forecast 2010

	January				February				March				April				May				June				July				August				September				October				November				December																														
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																							
2010 Key Project Events	CAS Tour																																							GSSR Mars				CHDR Dark Current				GSSR Mercury				GSSR Ast 1999 MN				GSSR Ast 2003 UV11				GSSR Mercury				CHDR Dark Current				GSSR Ast 2002 VE68				GSSR Mercury			
	EGS Global VLBI				EGS EVN J-M5				EGS Global VLBI				EGS EVN J-M5				EGS Global VLBI				EGS EVN J-M5				EGS Global VLBI				EGS EVN J-M5				EGS Global VLBI				EGS EVN J-M5																																						
	KEPL Qtrly. Roll																	KEPL Qtrly. Roll																	KEPL Qtrly. Roll																																								
	MRO Relay																	MRO MSL Support																																																									
	M010 THEMIS																																																																										
	MRO X/Ka DDOR				MRO X/Ka DDOR				MRO X/Ka DDOR				MRO X/Ka DDOR				MSL Approach				MSL Surface Ops																																																						
	SOHO Keyhole				SOHO Keyh				MSL TCM				MSL TCM				MSL EDL				NHPC TCM				NHPC DDOR				NHPC TCM																																														
	Wind TCM				Wind TCM				Wind TCM				ROSE Asteroid Flyby				Wind TCM				NHPC TCM				NHPC DDOR				NHPC Checkout				Wind TCM				ROSE DSM-2																																						
	D14 Life Extension - Beginning 09-28-2009																																																																										
	NIB - D14 DLM																																																																										
GSSCC																																																																											
CDSCC	D25 Ka U/L - Proposed																																																																										
MDSCC	D54 Ka-Band Phase 2																																																																										
	D54 DLM																																																																										

Revised: April 2, 2007

Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix By Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
10	DSS-16	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
40	DSS-46	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-66	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	09/21/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	09/29/08
60	DSS-54	34B1	✓	✓	✓	✓	04/15/08	N/A	09/27/10
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	08/01/10	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A

N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 03/26/07
 ✓✓✓ = Capability Recently Exists ✓ = Capability Exists