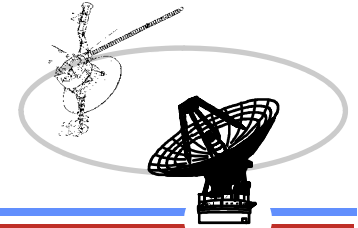


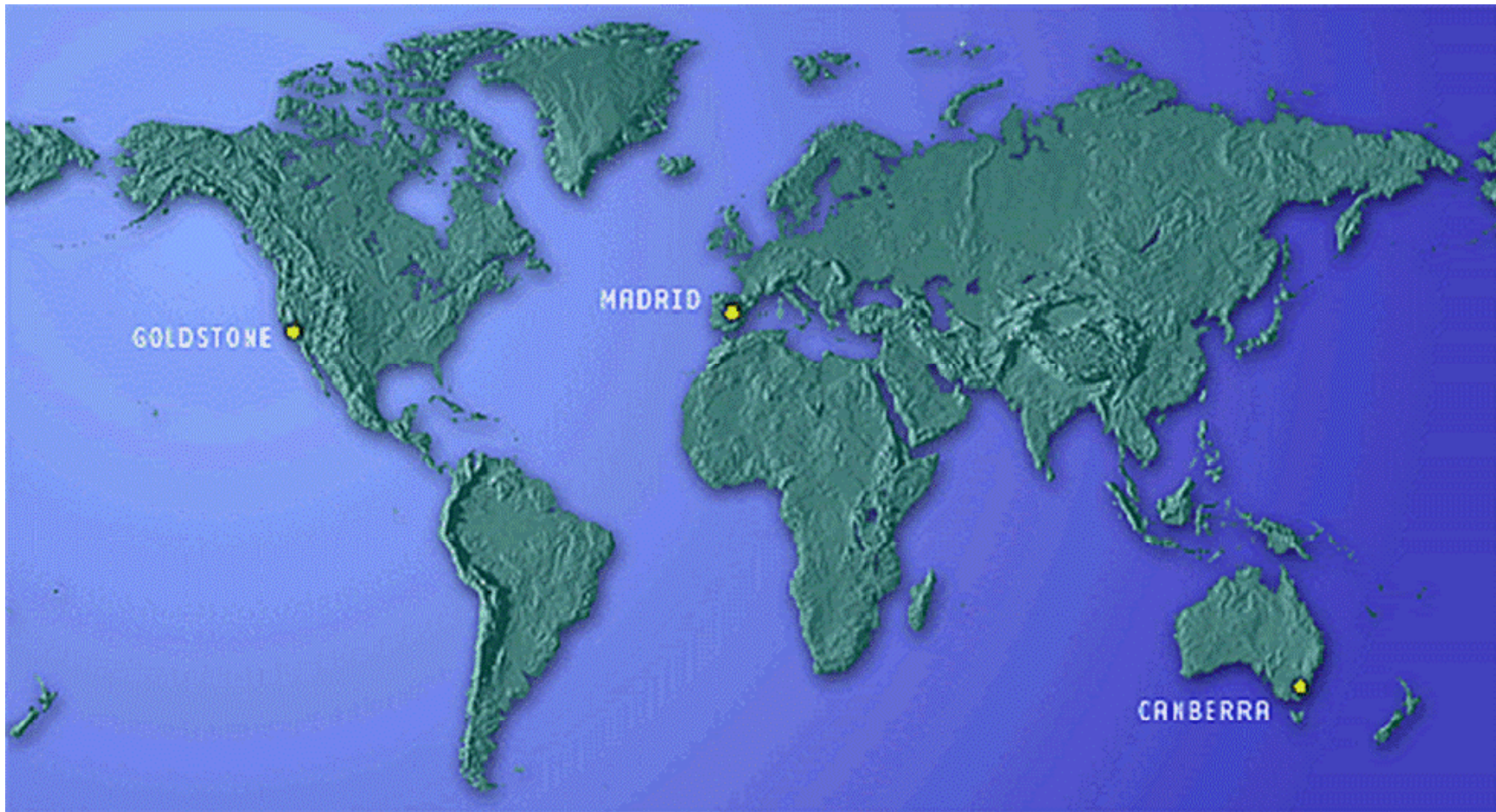


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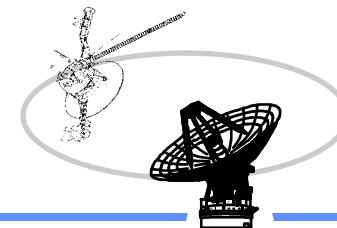
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DSN Antenna Downtime Status and Forecast





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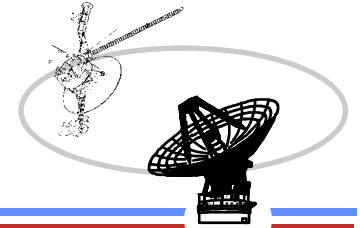
DSN Downtime 2012

2012							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	AZ TRK/ACR Replacement	09/10/2012 05:00	12/09/2012 00:00	90	37 - 49	254	344
DSS 54	Lightning Survey - NIB	09/10/2012 05:00	12/09/2012 00:00	90	37 - 49	254	344
DSS 43	HBA Upgrade and Life Extension	11/12/2012 19:00	06/10/2013 07:00	210	46 - 24	317	161



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Antenna Downtime Status and Forecast

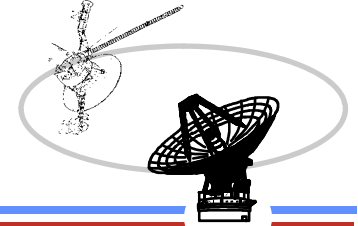
The following are downtimes for 2012

- ❑ BWG Antenna Controller Replacement
 - ❑ DSS-54 ACR and AZ Track Replacement is scheduled for September 10 – November 28, 2012, weeks 37 – 48, **Currently under way, this downtime has been extended an additional week and a half. Based on new information, an additional extension may be required**
 - ❑ Lightning Survey will be NIB
 - ❑ ECR 11.0070 (Baldor amplifier expansion board installation) was NIB, but completed prior to downtime
- ❑ SPC-40 requests 4 blocks of 3 hours each, complex wide downtime for Power House Commission
 - ❑ **Was scheduled in week 49 is scheduled, Four days for 3 hours each – Moved to weeks 03 and 4 of 2013**
- ❑ DSS-43 HBA Upgrade and Life Extension downtime is scheduled
 - ❑ DSS-43 HBA Upgrade downtime is scheduled as one continuous downtime for week 46 of 2012 to week 23 of 2013
 - ❑ S-Band Maser Replacement will be NIB
 - ❑ Power ECO will be scheduled NIB



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Antenna Downtime Status and Forecast

The following are downtimes for 2013 – 2014

- ❑ SPC-60 requests six 10 hour blocks of complex wide downtime for Power Cutover from January – June of 2013
 - ❑ Downtimes are scheduled for the following weeks
 - ❑ Weeks 13, 17, 22, 26, 31, 34 – prime shift hours are requested **but not necessary**.

- ❑ BWG Antenna Controller Replacement for 2013
 - ❑ DSS-55 is scheduled for February 18 – April 4, weeks 08 – 14
 - ❑ ECR 11.0070 (Baldor amplifier expansion board installation) will be NIB

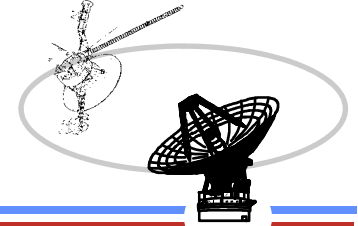
- ❑ SPC-10 requests **seven** 12-hour blocks of complex wide downtime for G86 Power Cutover and two 12-hour block of downtime for Power Robustness in 2013
 - ❑ G86 Power cutover downtimes are scheduled for the following weeks
 - ❑ Weeks 13, 16, 19, 24 and 30, 33, 38 – **Day shift requested**
 - ❑ Power Robustness is scheduled for the following week
 - ❑ Week 23 – **2 12-hour days**, daylight hours only

- ❑ SPC-10 requests **seven** 6 – 8 hour complex wide downtime for NMC Automated Link Build (ALB) activities in 2013
 - ❑ Requested for March - October
 - ❑ Scheduled for weeks 10, 12, 15, 24, 32, 38, 42



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2013 – 2014 Downtimes (continued)

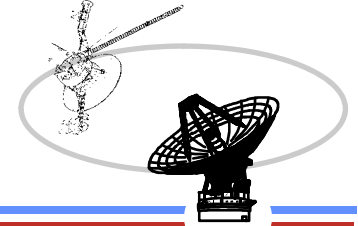
- ❑ SPC-40 request a total of 12 blocks of 3 hours each, complex downtime for Power House Commission in 2013. The following weeks are scheduled
 - ❑ Four blocks, 3 hours each, 2 consecutive blocks each in weeks 3 and 4 (moved from 2012 Week 49)
 - ❑ Five blocks, 3 hours each in May, weeks 21 and 22
 - ❑ Three blocks, 3 hours each in June, week 25

- ❑ AZ Track Replacement downtime is requested for DSS-24 and DSS-26
 - ❑ DSS-24 is scheduled for April 8, – June 17, 2013, weeks 15 – 24
 - ❑ DSS-26 is proposed for March 31 – June 8, 2014, weeks 14 – 23
 - ❑ Reconfiguration Prep is proposed for March 10 – June 30, weeks 11 – 26
 - ❑ 80 kW Facility Preparation will be scheduled NIB March 31 – May 18, weeks 14 – 20

- ❑ SPC-40 request a total of 24 hours of downtime on each antenna for inspection in 2013
 - ❑ Antennas include DSS-34, 43 and 45
 - ❑ Week 19 inspection times are scheduled for 8 hours NIB to maintenance plus 8 hours swing shift – Except DSS-43 which will be done during HBA downtime
 - ❑ Week 20 inspection times are scheduled for 8 hours NIB to maintenance



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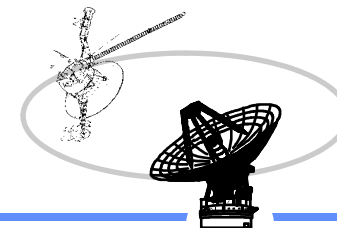


2013 – 2014 Downtimes (continued)

- DSS-63 downtime for Grouting 2013
 - Scheduled for July 15 – August 19, weeks 29 – 31
 - Note: Stand alone Grouting typically requires 15 days
 - AZ Runner Measurement is scheduled for 7 days, night shift only following grouting in weeks 31 and 32 – this may move to January/February time frame requesting only 4 nights
- DSS-15 Maser Replacement is requested for 2013
 - Seventy seven days are scheduled for August 12, – November 4, weeks 33 – 44
- DCD 4.1 downtime requested for software installation for 2014
 - GDSCC and NOCC proposed for January 8, week 02
 - CDSCC is proposed for February 20, week 08
 - MDSCC is proposed for March 6, week 10 – potentially could be done with DSS-63 HBA downtime
- DSS-63 HBA Upgrade and Life Extension downtime is proposed for 2014
 - Proposed for March 10 – October 5, weeks 11 – 40
 - Maser replacement will be NIB
- SPC-60 request a total of 24 hours of downtime on each antenna for inspection in 2014
 - Antennas include DSS-54, 55, 63 and 65
 - Week 30 inspection times are proposed for 8 hours NIB to maintenance plus 8 hours swing shift – Except DSS-63 which will be done during HBA downtime
 - Week 31 inspection times are proposed for 8 hours NIB to maintenance

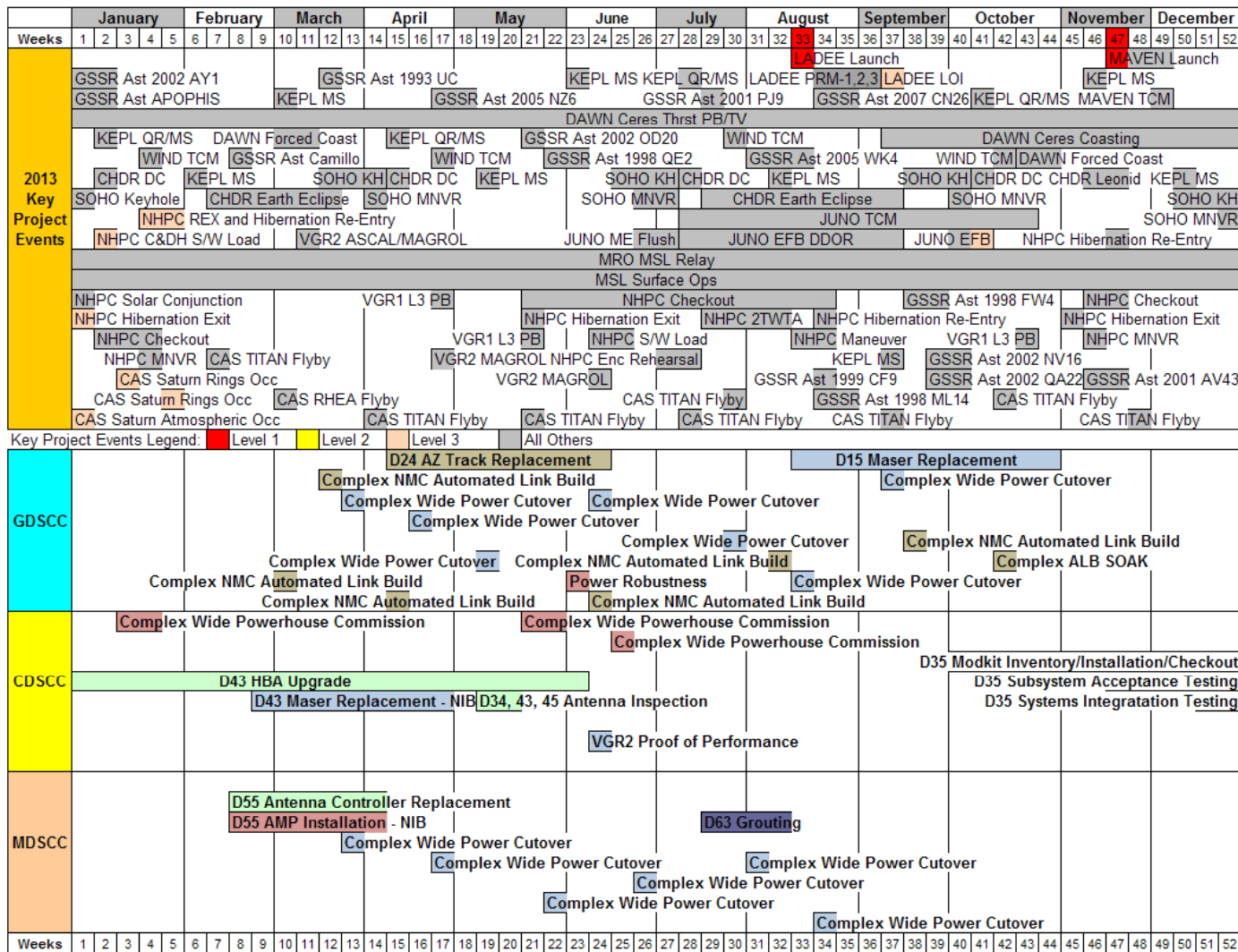


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- 2013 -

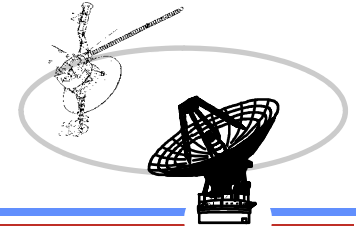


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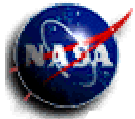
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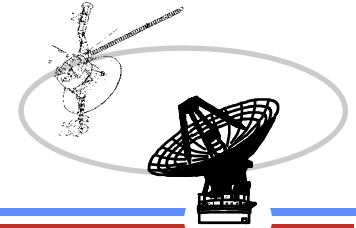
DSN Downtime 2013

2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 40	Powerhouse Commission	01/14/2013 21:00	01/15/2013 00:00	0	03 - 03	14	15
SPC 40	Powerhouse Commission	01/15/2013 21:00	01/16/2013 00:00	0	03 - 03	15	16
SPC 40	Powerhouse Commission	01/21/2013 20:00	01/21/2013 23:00	0	04 - 04	21	21
SPC 40	Powerhouse Commission	01/22/2013 20:00	01/22/2013 23:00	0	04 - 04	22	22
DSS 55	Antenna Controller Replacement	02/18/2013 00:00	04/04/2013 00:00	45	08 - 14	49	94
DSS 55	AMP Installation	02/18/2013 00:00	04/04/2013 00:00	45	08 - 14	49	94
DSS 43	Maser Replacement - NIB	02/25/2013 00:00	04/29/2013 00:00	63	09 - 18	56	119
SPC 10	NMC Automated Link Build	03/07/2013 00:00	03/07/2013 08:00	0	10 - 10	66	66
SPC 10	NMC Automated Link Build	03/21/2013 00:00	03/21/2013 08:00	0	12 - 12	80	80
DSS 54	Complex Power Cutover	03/27/2013 05:00	03/27/2013 17:00	0	13 - 13	86	86
DSS 55	Complex Power Cutover	03/27/2013 05:00	03/27/2013 17:00	0	13 - 13	86	86
DSS 63	Complex Power Cutover	03/27/2013 05:00	03/27/2013 17:00	0	13 - 13	86	86
DSS 65	Complex Power Cutover	03/27/2013 05:00	03/27/2013 17:00	0	13 - 13	86	86
SPC 10	Complex Power Cutover	03/28/2013 15:00	03/29/2013 03:00	0	13 - 13	87	88
DSS 24	AZ Track Replacement	04/08/2013 00:00	06/17/2013 00:00	70	15 - 25	98	168
SPC 10	NMC Automated Link Build	04/10/2013 00:00	04/10/2013 08:00	0	15 - 15	100	100
SPC 10	Complex Power Cutover	04/17/2013 15:00	04/18/2013 03:00	0	16 - 16	107	108
DSS 54	Complex Power Cutover	04/24/2013 05:00	04/24/2013 17:00	0	17 - 17	114	114
DSS 55	Complex Power Cutover	04/24/2013 05:00	04/24/2013 17:00	0	17 - 17	114	114
DSS 63	Complex Power Cutover	04/24/2013 05:00	04/24/2013 17:00	0	17 - 17	114	114
DSS 65	Complex Power Cutover	04/24/2013 05:00	04/24/2013 17:00	0	17 - 17	114	114
DSS 43	Antenna Inspection	05/06/2013 22:00	05/07/2013 14:00	1	19 - 19	126	127
DSS 34	Antenna Inspection	05/07/2013 22:00	05/08/2013 14:00	1	19 - 19	127	128
DSS 45	Antenna Inspection	05/08/2013 22:00	05/09/2013 14:00	1	19 - 19	128	129



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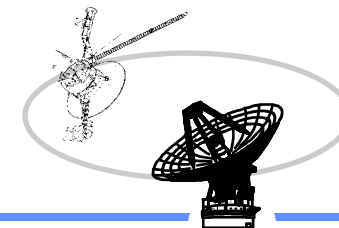
DSN Downtime 2013

2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10	Complex Power Cutover	05/09/2013 15:00	05/10/2013 03:00	0	19 - 19	129	130
DSS 34	Antenna Inspection	05/14/2013 22:00	05/15/2013 06:00	0	20 - 20	134	135
DSS 45	Antenna Inspection	05/15/2013 22:00	05/16/2013 06:00	0	20 - 20	135	136
SPC 40	Powerhouse Commission	05/20/2013 21:00	05/21/2013 00:00	0	21 - 21	140	141
SPC 40	Powerhouse Commission	05/21/2013 21:00	05/22/2013 00:00	0	21 - 21	141	142
SPC 40	Powerhouse Commission	05/22/2013 21:00	05/23/2013 00:00	0	21 - 21	142	143
SPC 40	Powerhouse Commission	05/27/2013 21:00	05/28/2013 00:00	0	22 - 22	147	148
SPC 40	Powerhouse Commission	05/28/2013 21:00	05/29/2013 00:00	0	22 - 22	148	149
DSS 54	Complex Power Cutover	05/29/2013 05:00	05/29/2013 17:00	0	22 - 22	149	149
DSS 55	Complex Power Cutover	05/29/2013 05:00	05/29/2013 17:00	0	22 - 22	149	149
DSS 63	Complex Power Cutover	05/29/2013 05:00	05/29/2013 17:00	0	22 - 22	149	149
DSS 65	Complex Power Cutover	05/29/2013 05:00	05/29/2013 17:00	0	22 - 22	149	149
SPC 10	Power Robustness	06/03/2013 15:00	06/04/2013 03:00	0	23 - 23	154	155
SPC 10	Power Robustness	06/04/2013 15:00	06/05/2013 03:00	0	23 - 23	155	156
SPC 10	NMC Automated Link Build	06/11/2013 00:00	06/11/2013 08:00	0	24 - 24	162	162
SPC 10	Complex Power Cutover	06/13/2013 15:00	06/14/2013 03:00	0	24 - 24	164	165
SPC 40	Powerhouse Commission	06/17/2013 21:00	06/18/2013 00:00	0	25 - 25	168	169
SPC 40	Powerhouse Commission	06/18/2013 21:00	06/19/2013 00:00	0	25 - 25	169	170
SPC 40	Powerhouse Commission	06/19/2013 21:00	06/20/2013 00:00	0	25 - 25	170	171
DSS 54	Complex Power Cutover	06/27/2013 05:00	06/27/2013 17:00	0	26 - 26	178	178
DSS 55	Complex Power Cutover	06/27/2013 05:00	06/27/2013 17:00	0	26 - 26	178	178
DSS 63	Complex Power Cutover	06/27/2013 05:00	06/27/2013 17:00	0	26 - 26	178	178
DSS 65	Complex Power Cutover	06/27/2013 05:00	06/27/2013 17:00	0	26 - 26	178	178
DSS 63	Grouting - Proposed	07/15/2013 00:00	08/12/2013 00:00	19	29 - 31	196	215



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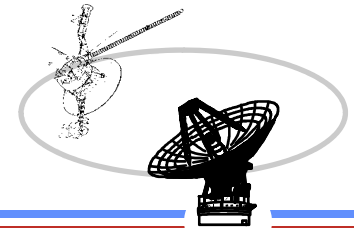


DSN Downtime 2013

2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10	Complex Power Cutover	07/25/2013 15:00	07/26/2013 03:00	0	30 - 30	206	207
SPC 60	Complex Power Cutover	07/31/2013 05:00	07/31/2013 17:00	0	31 - 31	212	212
DSS 63	AZ Runner Measurement	08/02/2013 17:00	08/03/2013 05:00	0	31 - 31	214	215
DSS 63	AZ Runner Measurement	08/03/2013 17:00	08/04/2013 05:00	0	31 - 31	215	216
DSS 63	AZ Runner Measurement	08/04/2013 17:00	08/05/2013 05:00	0	31 - 32	216	217
DSS 63	AZ Runner Measurement	08/05/2013 17:00	08/06/2013 05:00	0	32 - 32	217	218
DSS 63	AZ Runner Measurement	08/06/2013 17:00	08/07/2013 05:00	0	32 - 32	218	219
DSS 63	AZ Runner Measurement	08/07/2013 17:00	08/08/2013 05:00	0	32 - 32	219	220
DSS 63	AZ Runner Measurement	08/08/2013 17:00	08/09/2013 05:00	0	32 - 32	219	220
SPC 10	NMC Automated Link Build	08/08/2013 00:00	08/08/2013 08:00	0	32 - 32	220	220
DSS 15	Maser Replacement	08/12/2013 14:00	11/04/2013 01:00	83	33 - 45	224	308
SPC 10	Complex Power Cutover	08/15/2013 15:00	08/16/2013 03:00	0	33 - 33	227	228
SPC 60	Complex Power Cutover	08/22/2013 05:00	08/22/2013 17:00	0	34 - 34	234	234
SPC 10	Complex Power Cutover	09/11/2013 15:00	09/12/2013 03:00	0	37 - 37	254	255
SPC 10	NMC Automated Link Build	09/19/2013 00:00	09/19/2013 08:00	0	38 - 38	262	262
SPC 10	NMC Automated Link Build - SOAK	10/17/2013 00:00	10/17/2013 08:00	0	42 - 42	290	290

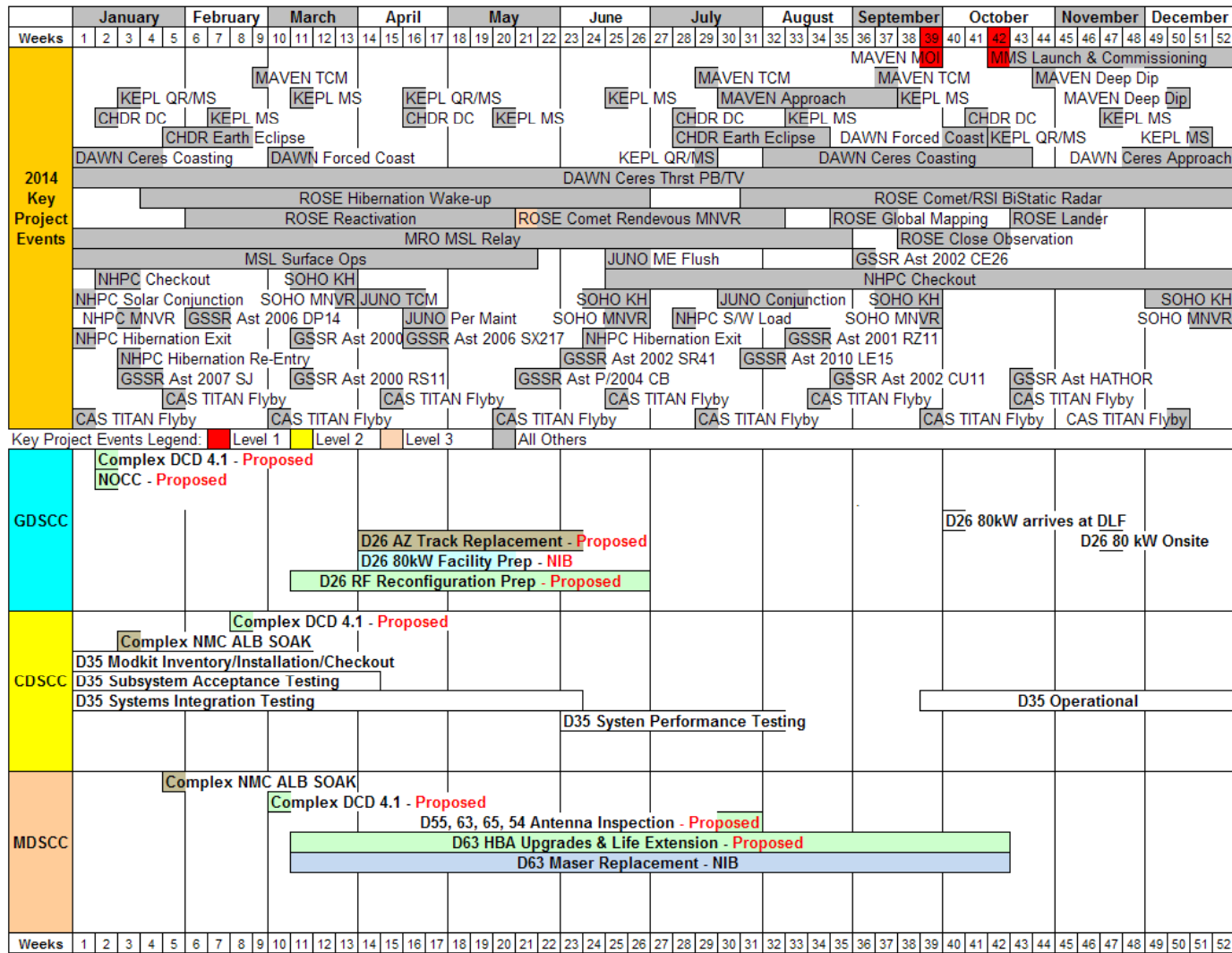


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- 2014 -

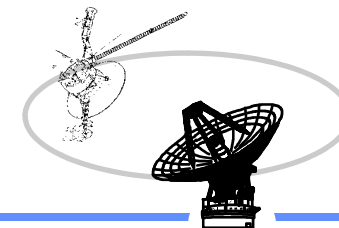


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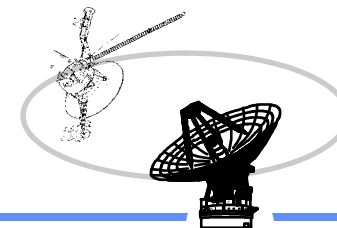


DSN Downtime 2014

2014							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
GCF 20	DCD 4.1 - Proposed	01/08/2014 23:10	01/09/2014 05:10	0	02 - 02	8	9
SPC 10	DCD 4.1 - Proposed	01/08/2014 23:10	01/09/2014 05:10	0	02 - 02	8	9
SPC 40	DCD 4.1 - Proposed	02/20/2014 23:00	02/21/2014 05:00	0	08 - 08	51	52
SPC 60	DCD 4.1 - Proposed	03/06/2014 07:00	03/06/2014 13:00	0	10 - 10	65	65
DSS 26	RF Reconfiguration Prep - Proposed	03/10/2014 00:00	06/29/2014 00:00	111	11 - 26	69	180
DSS 63	HBA Upgrades and Life Extension - Proposed	03/10/2014 00:00	10/19/2014 00:00	223	11 - 26	69	292
DSS 63	S-Band Maser Replacement - NIB	03/10/2014 00:00	10/19/2014 00:00	223	11 - 26	69	292
DSS 26	80 kW Facility Prep - NIB	03/31/2014 00:00	05/18/2014 00:00	48	14 - 20	90	138
DSS 26	AZ Track Replacement - Proposed	03/31/2014 00:00	06/08/2014 00:00	69	14 - 23	90	159
DSS 55	Antenna Inspection - Proposed	07/21/2014 07:00	07/21/2014 23:00	1	30 - 30	202	202
DSS 65	Antenna Inspection - Proposed	07/22/2014 07:00	07/22/2014 23:00	1	30 - 30	203	203
DSS 63	Antenna Inspection - Proposed	07/23/2014 07:00	07/23/2014 23:00	1	30 - 30	204	204
DSS 54	Antenna Inspection - Proposed	07/25/2014 07:00	07/25/2014 23:00	1	30 - 30	206	206
DSS 55	Antenna Inspection - Proposed	07/28/2014 07:00	07/28/2014 16:30	0	31 - 31	209	209
DSS 65	Antenna Inspection - Proposed	07/29/2014 07:00	07/29/2014 16:30	0	31 - 31	210	210
DSS 54	Antenna Inspection - Proposed	08/01/2014 07:00	08/01/2014 16:30	0	31 - 31	213	213

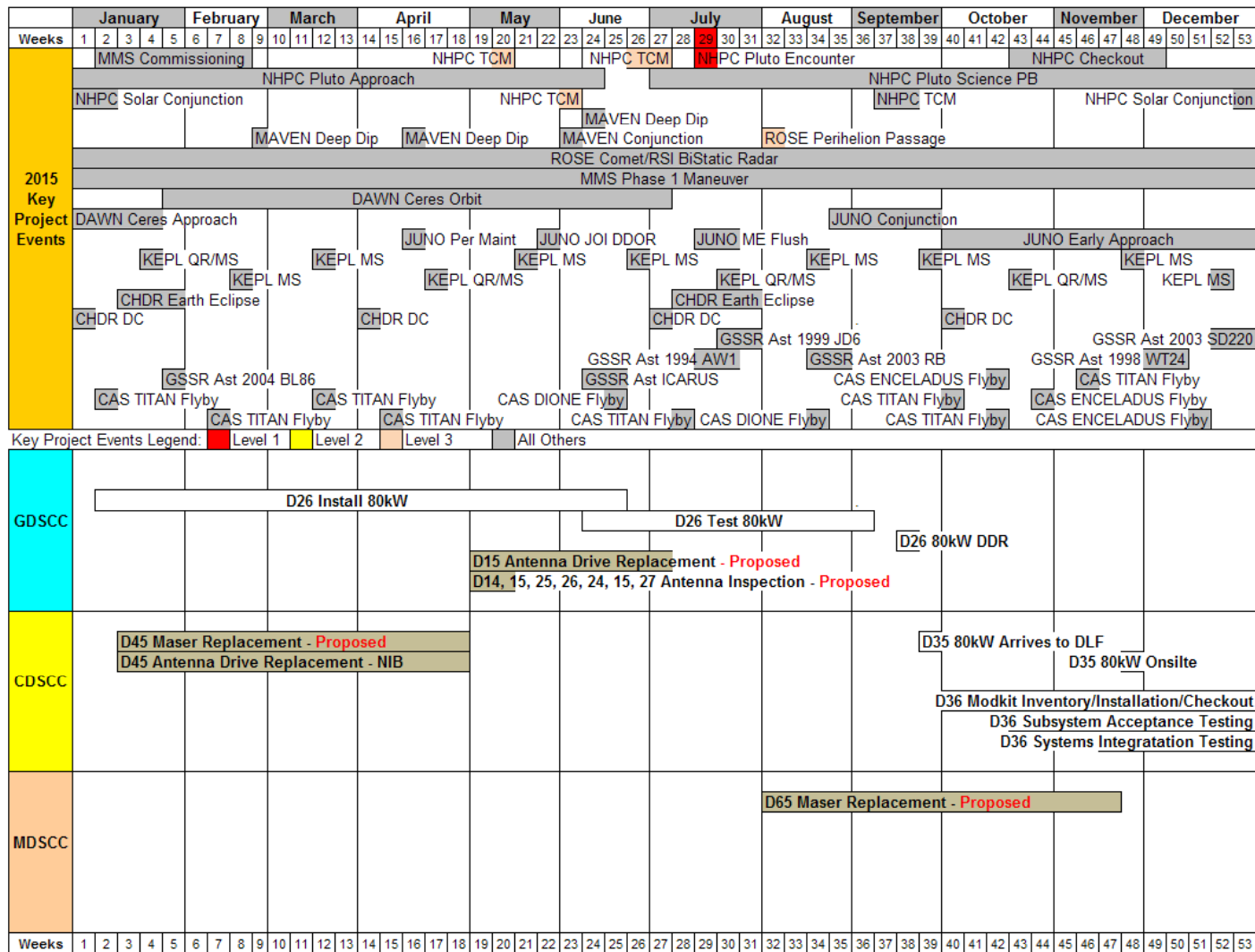


Interplanetary Network Directorate (IND) Deep Space Network (DSN) Resource Allocation Planning Service



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- 2015 -

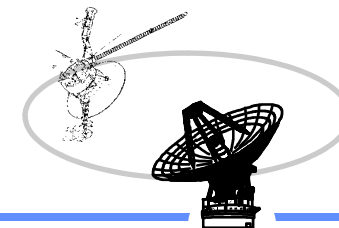


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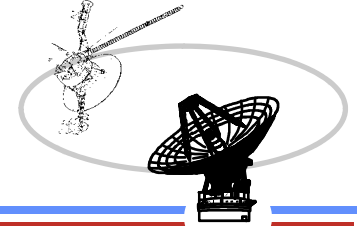
DSN Downtime 2015

2015							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 45	Antenna Drive Replacement - NIB	01/12/2015 00:00	05/04/2015 00:00	112	03 - 19	12	124
DSS 45	Maser Replacement - Proposed	01/12/2015 00:00	05/04/2015 00:00	112	03 - 19	12	124
DSS 15	Antenna Drive Replacement - Proposed	05/04/2015 00:00	07/06/2015 00:00	63	19 - 28	124	187
DSS 14	Antenna Inspection - Proposed	05/04/2015 15:00	05/05/2015 06:00	1	19 - 19	124	125
DSS 26	Antenna Inspection - Proposed	05/05/2015 15:00	05/06/2015 06:00	1	19 - 19	125	126
DSS 25	Antenna Inspection - Proposed	05/06/2015 15:00	05/07/2015 06:00	1	19 - 19	126	127
DSS 15	Antenna Inspection - Proposed	05/07/2015 15:00	05/08/2015 06:00	1	19 - 19	127	128
DSS 27	Antenna Inspection - Proposed	05/08/2015 14:00	05/08/2015 23:00	0	19 - 19	128	128
DSS 14	Antenna Inspection - Proposed	05/11/2015 14:00	05/11/2015 23:00	0	20 - 20	131	131
DSS 26	Antenna Inspection - Proposed	05/12/2015 14:00	05/12/2015 23:00	0	20 - 20	132	132
DSS 24	Antenna Inspection - Proposed	05/13/2015 15:00	05/14/2015 06:00	1	20 - 20	133	134
DSS 15	Antenna Inspection - Proposed	05/14/2015 14:00	05/14/2015 23:00	0	20 - 20	134	134
DSS 27	Antenna Inspection - Proposed	05/15/2015 14:00	05/15/2015 23:00	0	20 - 20	135	135
DSS 65	Maser Replacement - Proposed	08/03/2015 00:00	11/23/2015 00:00	112	32 - 48	215	327



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Antenna Downtime Status and Forecast

The following are downtimes for 2015 – 2018

- Maser Replacement has been requested for 2015
 - DSS-45 is proposed for weeks 03 – 18
 - Antenna Drive Replacement will be NIB
 - DSS-65 is proposed for weeks 32 – 47

- HEF Antenna Drive Replacement requested
 - DSS-15 Proposed for May 4 – July 6, 2015 weeks, 19 – 27
 - DSS-15 Antenna inspection proposed for weeks 19 and 20
 - DSS-65 Proposed for August 7 – October 2, 2017, weeks 32 – 39
 - DSS-65 Antenna inspection proposed for weeks 33 and 34

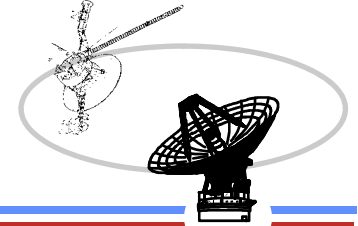
- SPC-10 request a 24 hour downtime on each antenna for inspection in 2015
 - Antennas include DSS-14, 15, 24, 25, 26 and 27
 - Week 19 inspection times are proposed for 8 hours NIB to maintenance plus 8 hours swing shift
 - Week 20 inspection times are proposed for 8 hours NIB to maintenance

- SPC- 40 request a 24 hour downtime on each antenna for inspection in 2016
 - Antennas include DSS-34, 43 and 45
 - Week 18 inspection times are proposed for 8 hours NIB to maintenance plus 8 hours swing shift
 - Week 19 inspection times are proposed for 8 hours NIB to maintenance



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Antenna Downtime Status and Forecast

2015 – 2018 Downtimes cont.

- SPC-40 request three twelve-hour downtimes for UPS Installation in 2016
 - Proposed February and March, weeks 05, 07, 09

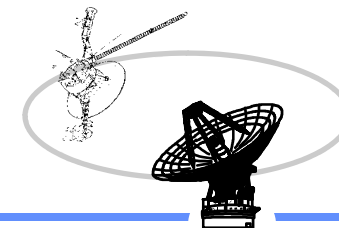
- HEF Transmitter Replacement requested
 - DSS-15 Proposed for July 11 – September 12, 2016 weeks, 28 – 39
 - DSS-45 Proposed for May 15 – August 7, 2017, weeks, 20 – 31
 - DSS-65 Proposed for July 16 – October 8, 2018, weeks 29 – 40

- AZ Track Replacement is requested for DSS-25 and DSS-55
 - DSS-55 is proposed for February 1 – April 10, 2016, weeks 05 – 14
 - 80 kW Facility Preparation is scheduled NIB for February 1 – March 20, weeks 05 – 11
 - Reconfiguration Prep is proposed for February 1 – May 23, weeks 05 – 20
 - DSS-25 is proposed for January 29 – April 08, 2018, weeks 05 – 14
 - XX/Ka Installation will be NIB

- DSS-24 XX/Ka Installation requested for 2018
 - Proposed for April 30 – July 9, weeks 18 – 27

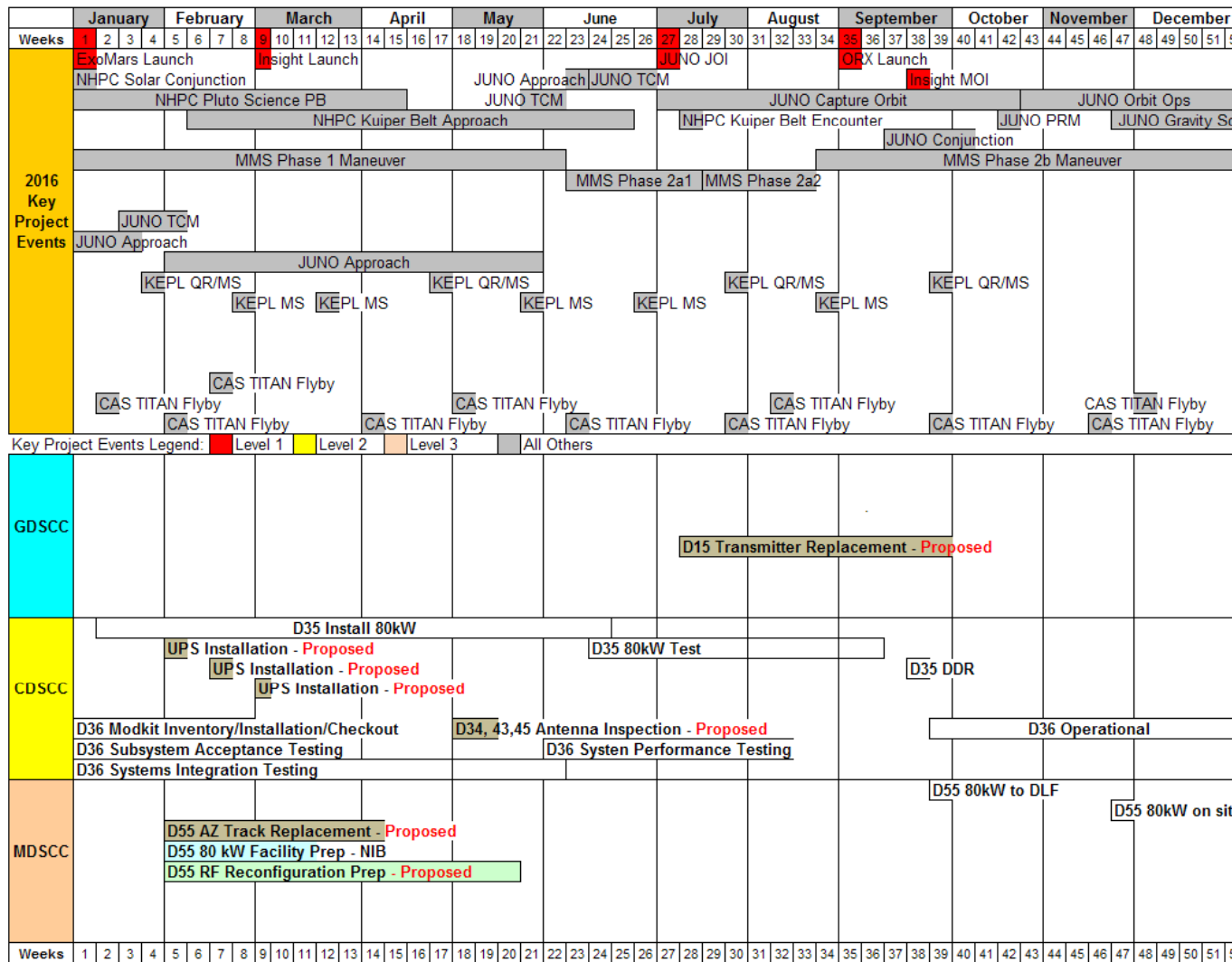


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- 2016 -

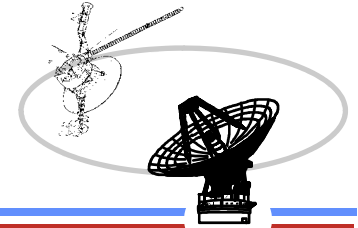


Revised: September 28, 2012



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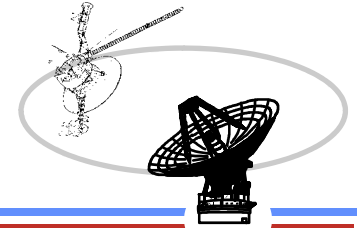


DSN Downtime 2016

2016							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 55	80 kW Facility Prep - NIB	02/01/2016 00:00	03/20/2016 00:00	48	05 - 11	32	80
DSS 55	AZ Track Replacement - Proposed	02/01/2016 00:00	04/10/2016 00:00	69	05 - 14	32	101
DSS 55	RF Reconfiguration Prep - Proposed	02/01/2016 00:00	05/23/2016 00:00	112	05 - 21	32	144
SPC 40	UPS Installation - Proposed	02/03/2016 21:00	02/04/2016 09:00	0	05 - 05	34	35
SPC 40	UPS Installation - Proposed	02/17/2016 21:00	02/18/2016 09:00	0	07 - 07	48	49
SPC 40	UPS Installation - Proposed	03/02/2016 21:00	03/03/2016 09:00	0	09 - 09	62	63
DSS 43	Antenna Inspection - Proposed	05/02/2016 22:00	05/03/2016 14:00	1	18 - 18	123	124
DSS 34	Antenna Inspection - Proposed	05/03/2016 22:00	05/04/2016 14:00	1	18 - 18	124	125
DSS 45	Antenna Inspection - Proposed	05/04/2016 22:00	05/05/2016 14:00	1	18 - 18	125	126
DSS 43	Antenna Inspection - Proposed	05/09/2016 22:00	05/10/2016 06:00	0	19 - 19	130	131
DSS 34	Antenna Inspection - Proposed	05/10/2016 22:00	05/11/2016 06:00	0	19 - 19	131	132
DSS 15	Transmitter Replacement - Proposed	07/11/2016 00:00	10/03/2016 00:00	84	28 - 40	193	277



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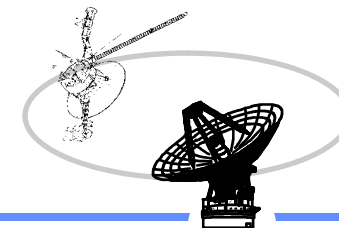
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DSN Downtime 2017

2017							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 45	Transmitter Replacement - Proposed	05/15/2017 00:00	08/07/2017 00:00	84	20 - 32	135	219
DSS 65	Antenna Drive Replacement - Proposed	08/07/2017 00:00	10/02/2017 00:00	56	32 - 40	219	275
DSS 55	Antenna Inspection - Proposed	08/14/2017 07:00	08/14/2017 23:00	1	33 - 33	226	226
DSS 65	Antenna Inspection - Proposed	08/15/2017 07:00	08/15/2017 23:00	1	33 - 33	227	227
DSS 63	Antenna Inspection - Proposed	08/16/2017 07:00	08/16/2017 23:00	1	33 - 33	228	228
DSS 54	Antenna Inspection - Proposed	08/18/2017 07:00	08/18/2017 23:00	1	33 - 33	230	230
DSS 55	Antenna Inspection - Proposed	08/21/2017 07:00	08/21/2017 16:30	0	34 - 34	233	233
DSS 63	Antenna Inspection - Proposed	08/23/2017 07:00	08/23/2017 16:30	0	34 - 34	235	235
DSS 54	Antenna Inspection - Proposed	08/25/2017 07:00	08/25/2017 16:30	0	34 - 34	237	237

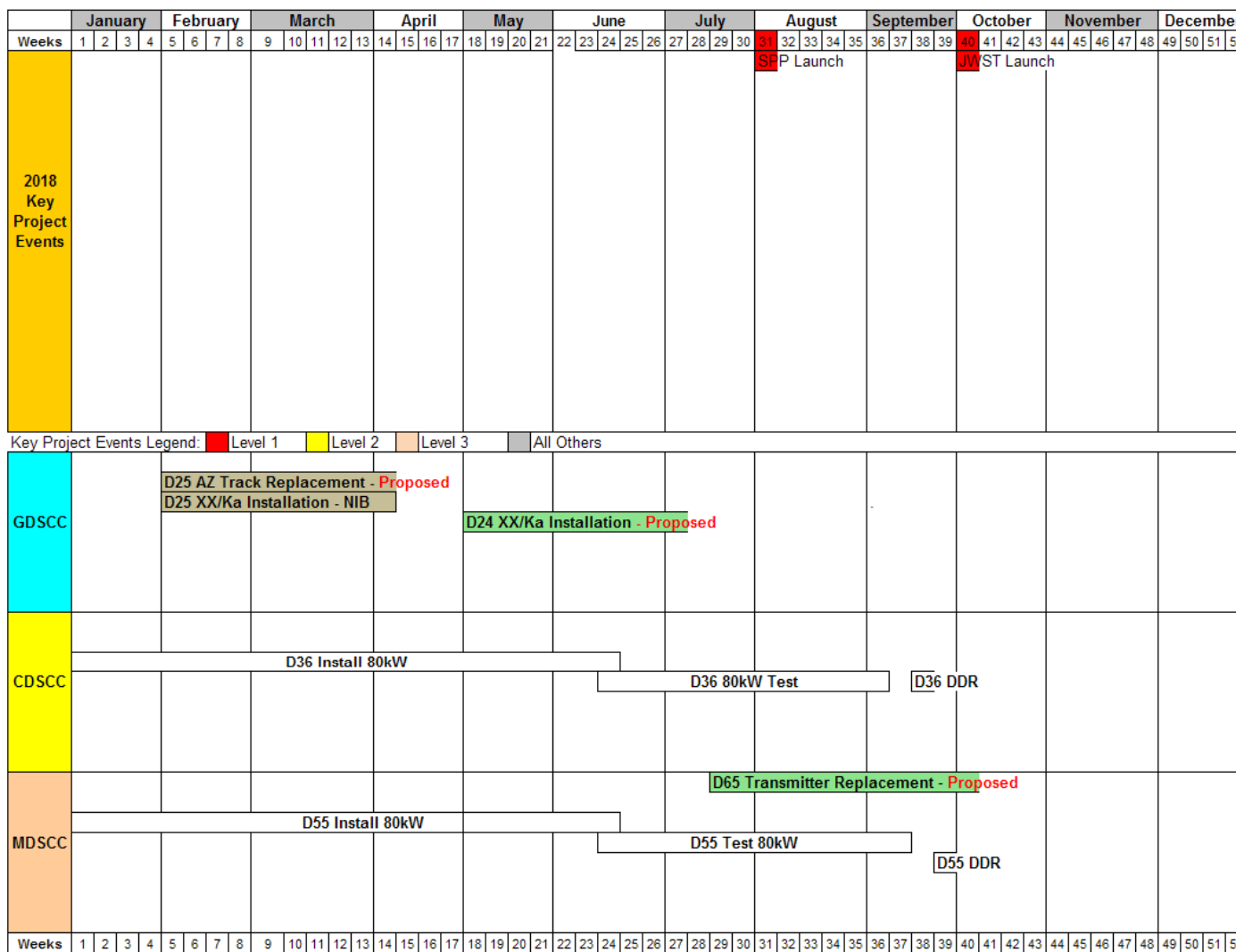


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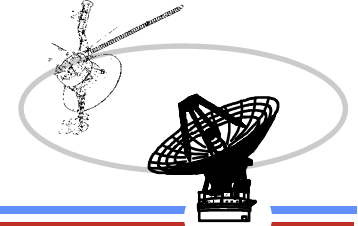
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- 2018 -





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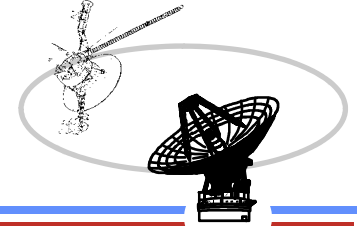
DSN Downtime 2018

2018							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 25	AZ Track Replacement - Proposed	01/29/2018 00:00	04/09/2018 00:00	70	05 - 15	29	99
DSS 25	XX/Ka Installation - NIB	01/29/2018 00:00	04/09/2018 00:00	70	05 - 15	29	99
DSS 24	XX/Ka Installation - Proposed	04/30/2018 00:00	07/09/2018 00:00	70	18 - 28	120	190
DSS 65	Transmitter Replacement - Proposed	07/16/2018 00:00	10/08/2018 00:00	84	29 - 41	197	281



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Future assets new/upgrades

- DSS-35 Installation and Operational 2013 – 2014
 - Modkit Installation October 1, 2013 – March 14, 2014 weeks 40 – 11
 - Acceptance Testing November 22, 2013 – April 4, 2014, weeks 47 – 14
 - System Integration Testing December 17, 2013 – June 2, 2014 weeks 51 – 23
 - Operations Systems Performance Testing June 2, 2014 – August 15, 2014, weeks 23 – 33
 - Operational September 26, 2014

- DSS-26 80kW Installation 2014 – 2015
 - 80kW arrive at DLF October, 2014, week 40
 - 80kW arrive on-site November, 2014, week 47
 - 80kW install January – June, 2015, weeks 02 – 25
 - 80 kW test June – September, 2015, weeks 24 – 36
 - DDR September, 2015, week 38

- DSS-35 80kW Installation 2016 – A placeholder has been set awaiting dates

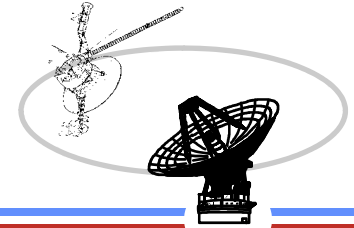
- DSS-36 Installation and Operational 2016 – A placeholder has been set awaiting dates

- DSS-55 80kW Installation 2016 – 2017
 - 80kW Facility Prep – February 2016, weeks 05 – 10
 - 80kW at DLF September, 2016, week 39
 - 80kW on-site November, 2016, week 47
 - 80kW install January – June, 2017, weeks 01 – 24
 - 80kW test June – September, 2017, weeks 24 – 37
 - DDR September, 2017, week 39



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Antenna Downtime Status and Forecast

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2	X-Band ACQ AID	80KW
			Down	Up	Down	Up	Down	Up			
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	✓	✓	N/A
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	✓	✓	N/A
60	DSS-54	34B1	✓	✓	✓	✓	✓	N/A	✓	✓	N/A
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	✓	N/A	N/A	10/01/15
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	N/A
40	DSS-35*	34B2	N/A	N/A	11/01/14	11/01/14	11/01/14	N/A	N/A	N/A	11/01/16
40	DSS-36*	34B2	N/A	N/A	11/01/16	11/01/16	11/01/16	N/A	N/A	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	10/01/17
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A
40	DSS-45	34HEF	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-65	34HEF	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A

N/A = Capability Not Planned

xx/xx/xx = Capability Date Recently Changed

As of: 1/5/2012

✓ ✓ ✓ = Capability Recently Exists

✓ = Capability Exists

* = To Be Commissioned