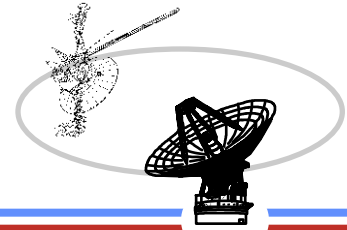


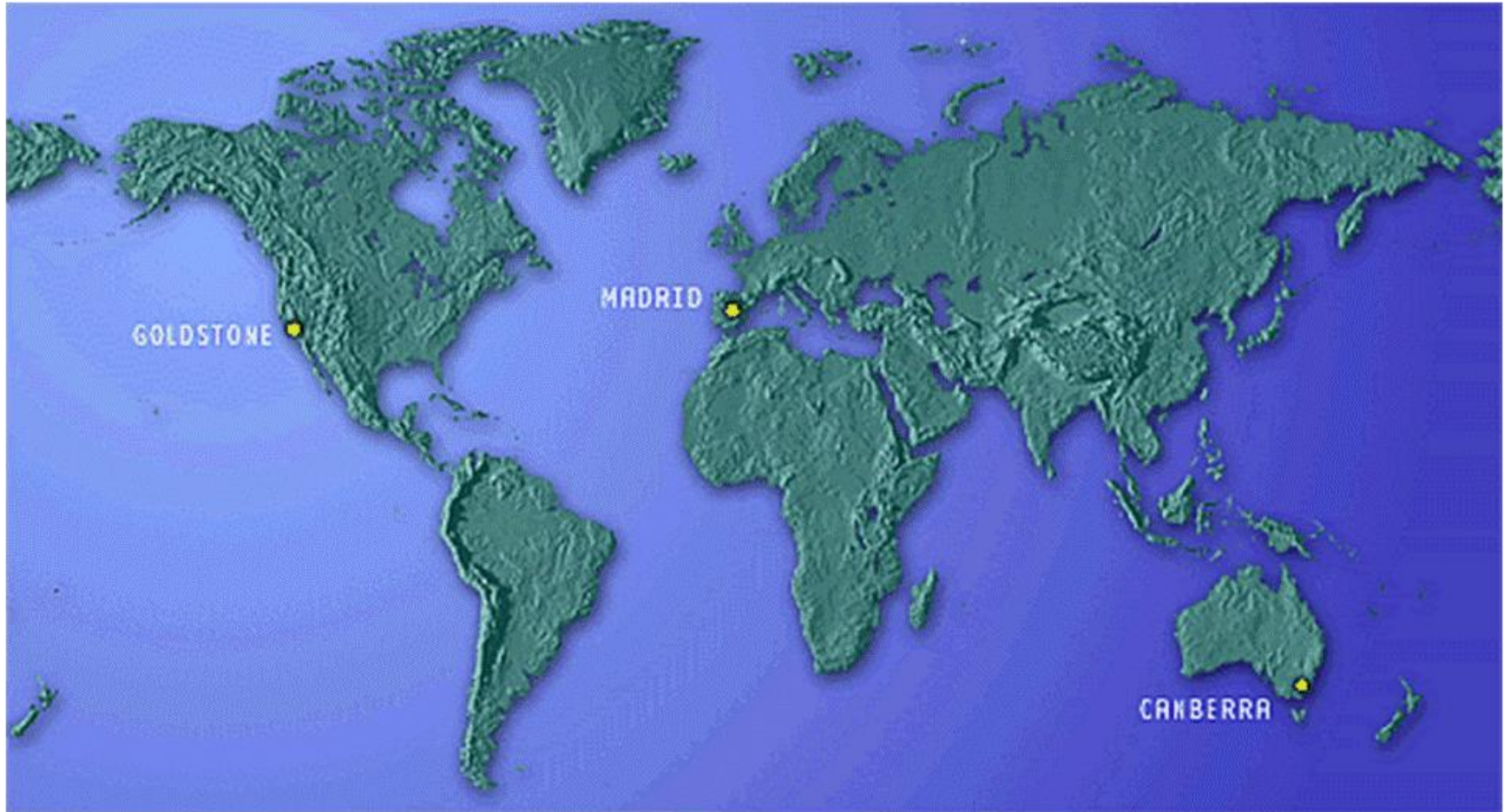


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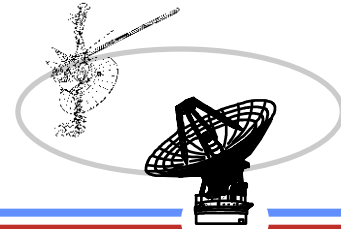
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## DSN Antenna Downtime Status and Forecast





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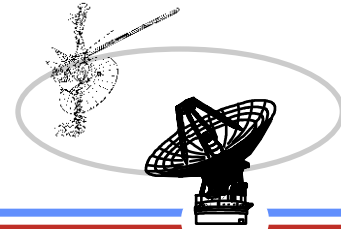


## Antenna Downtime Status and Forecast

Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex wide Electrical Maint.	SPC-10	May 2014	Aug 2014	22 & 41	David Lloyd,	<b>Week 22 has been completed.</b> Week 34 12-hour downtime has moved to week 41 due to MOM activities
RF Test Pattern	DSS-24,25,26	June 2014	June 2014	23	Karen Frazier	This request is being released to GDSCC planning. All Apollo site antennas will be performing this task during the 2 days of downtime <b>RF Test Pattern for DSS-26 is complete</b>
<b>Apollo Tie Line Transformer Test</b>	<b>DSS-13, 24, 25,26, 28</b>	<b>Jul 1, 2014</b>	<b>Jul 1, 2014</b>	<b>27</b>	<b>David Lloyd</b>	<b>Time requested based on a previous Apollo downtime to check the Transformer for contamination.</b>
Complex downtime for SPC-60 Power Cutover	MDSCC	Apr 2014	Aug 2014	15, 19, 23, 27, 32, 34	Anna Fan, Craig Phillips, Javier Lopez-Perea	<b>Weeks 15,19 &amp; 23 have been completed.</b> Week 34 is the last downtime for this task. They may have to compress time between specific dates and hours for each downtime.
Depot Level Maintenance	DSS-45	May 2014	May 2014	19 – 21	John Phillips for David Munoz Mochon	<b>Weeks 19 – 21 have been completed</b> DSS-45 required additional blocks to work on the 250W transmitter problems prior to DLM downtime. 2 blocks scheduled in week 12 <b>DSS-65 in completed</b>
	DSS-65	May 2014	June 2014	22 – 24		
	DSS-34	<b>Nov 2015</b>	<b>Dec 2015</b>	<b>49 &amp; 50</b>		



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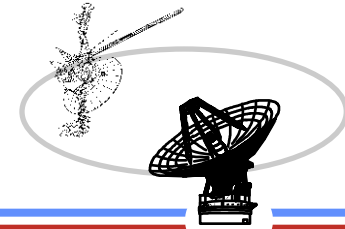


## Antenna Downtime Status and Forecast

Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Quad Leg Work	DSS-14	May 2014	Dec 2014	19, 29, 50	David Allen, Erik Holmgren	Week 19 task was completed. Quad Leg Work downtime requires a total of 12 prime shift days with tracking available off shift. In weeks 19 and 29 there will be five downtimes M – F and week 50 two downtimes Tues and Thurs.
NMC ALB A/T and SOAK	MDSCC	June 2014	Oct 2014	24, 42	Jim Buckley, Shirley Cizmar, Dave Taylor	Weeks 05, 07, 10, 14 & 24 have been completed.  Week 25 is completed Requested additional time at MDSCC & GDSCC for A/T early June to end of August and SOAK at GDSCC prior to mid September and CDSCC & MDSCC prior to mid November 2014
	GDSCC			25, 35		
	CDSCC			30, 41		
Elevation Cable Wrap	DSS-15	June 2014	July 2014	25 – 27	Marwah Buck	Moved from weeks 29-31. Erik Holmgren will follow up to confirm activities with staff. Planning in progress, parts have been ordered.
Metrology	DSS-63	June 14, 2014	June 15, 2014	29	Tim Sink	Requesting 2 additional night time tests in preparation for the HBA re grouting in October



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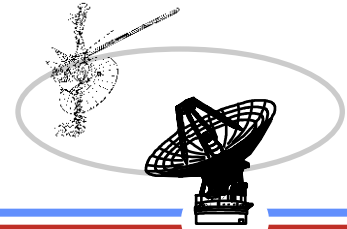
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## Antenna Downtime Status and Forecast

Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Replace Sub Reflector Cable	DSS-14	Jul 2014	Jul 2014	28	Jeff Mason	Request 5 days. Tracking available during night hours after the first 2 nights.
80kW Prep	DSS-26	July 2014	July 2014	28 – 31	Erik Holmgren	Moved from weeks 23-26. Swap with Elevation Cable Wrap.
		Oct 2014	June 2015	44 – 24	Pam Rothman, Daniel Olson	Downtime will start in week 44 and end week 24. Downtime will end in preparation the NHPC Pluto encounter in mid July. AZ Track will be NIB to the 80Kw facility prep
AZ Track Level C/O	DSS-54	Aug 2014	Aug 2014	32	Renee Miller	34M antenna requires 10 hour blocks each year 1 each week. These are scheduled to overlap with maintenance activities in each week. Will check for CDSCC/GDSCC
	DSS-55			33		
	DSS-65			34		
TXR RF Characterization	MDSCC	Oct 2014	Oct 2014	42 & 43	Harout Matossian	Requires 12-hour downtimes for each antenna in weeks 42 and 43. Task will occur on antenna maintenance days.



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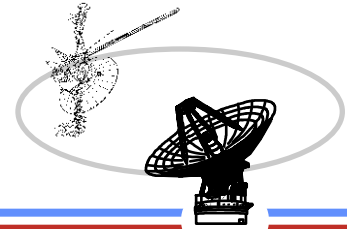


## Antenna Downtime Status and Forecast

Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Grouting	DSS-63	Oct 2014	Nov 2014	43 – 48	Dave Taylor, David Munoz Mochon, Bernardo Lopez, Asim Sehic	An additional week was added to first grouting in 2014 in preparation for the DSN 50 <sup>th</sup> anniversary. Nov 2014, S-Band Maser Replacement NIB Requesting an additional week preferably week 43, which has been added. May 2015, 70m Tune-up and calibration NIB 2015 groutings are only 2 weeks to allow support of NHPC Per mission requirements in 2017 have reduced time to 10 weeks and will place APCA downtime as stand alone in 2018.
		May 2015	May 2015	20 & 21		
		Aug 2015	Aug 2015	32 & 33		
		Feb 2016	Mar 2016	05 – 09		
		Jul 2016	Aug 2016	30 – 34		
		Feb 2017	Apr 2017	08 – 17		
		70M Tune-up and calibration	DSS-14	Dec 1, 2014		
DSS-43	Feb 16, 2015		Feb 27, 2015	08 & 09		
DSS-43	Mar 16, 2015		April 3, 2015	12 – 14		
DSS-63	May 2015		May 2015	20 & 21		
Ka U/L Engineering Test	DSS-25	Jan 2015	Jan 2015	4	Andre Jongeling	The Engineers are requesting 4 daylight days T-F 8 hours each to complete this task. Monday is a holiday.



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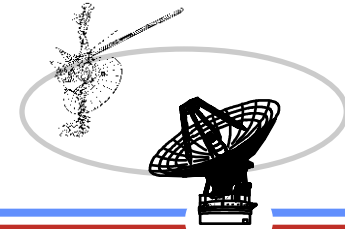


## Antenna Downtime Status and Forecast

Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex downtime for Power House Commission	CDSCC	Apr 2015	Apr 2015	15	John Phillips, Craig Phillips, Dave Taylor	Moved from Mar to April 2015 (Apr 9 & 10). Begins after Cassini pass
		Dec 2015	Dec 2015	49 & 52		Moved from August to December. This is a placeholder until the complex confirms.
Antenna Inspections	GDSCC	Apr 2015	Apr 2015	17 & 18	Dave Taylor Andrew Brooks	2015 Antenna Inspections moved from weeks 13 & 14
		Apr 2018	Apr 2018	15 & 16		
DCD v.5.1 software installation	GDSCC/ DSOC	2015	2015	32	Anna Fan, Sheila Garrett	All complexes require installation of DCD 5.1. A minimum of 6 hours is required. Goldstone installation is first, 30 day separation from the next install which will be CDSCC or MDSCC, a minimum of 2 week separation from the 2 <sup>nd</sup> and 3 <sup>rd</sup> install
	MDSCC	2015	2015	37		
	CDSCC	2015	2015	39		
AZ Track Replacement	DSS-55	Aug 2015	Oct 2015	34 – 44	Pam Rothman, Asim Sehic	Downtime will begin one day late on DOY 230 vice 229 due to Cassini activities
Antenna Inspections	CDSCC	Jan 2016	Jan 2016	03 & 04	Dave Taylor Andrew Brooks	Moved from week 1 & 2 due to CDSCC Holiday schedule



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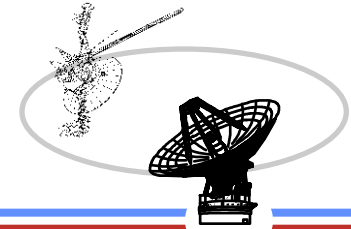


## Antenna Downtime Status and Forecast

Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
APCA	DSS-14	March 2016	June 2016	10 – 23	Anna Fan, Barzia Tehrani	DSS-14 <b>extended an additional 2 weeks</b> <b>Antenna Painting added for 4 weeks during downtime</b>
	DSS-43	Nov 2017	Jan 2018	44 – 03		DSS-43 extended to 12 weeks
	DSS-63	Feb 2018	April 2018	18 – 29		DSS-63 APCA is now stand alone and moved to 2018 at this time.
SWUPS Installation	CDSCC	Apr 5 2016	Apr 5 2016	14	Anna Fan, Dave Taylor	These blocks are proposed at this time 12 hour blocks for each downtime Must be done in daylight. There is a connection to the power house. This will be scheduled in the April 2016 timeframe. Two blocks in a 3 week period. Need to avoid InSight activities.
		Apr 20 2016	Apr 20 2016	16		
		May 4 2016	May 4 2016	18		
Antenna Inspections	MDSCC	Apr 2017	Apr 2017	16 & 17	Dave Taylor Andrew Brooks	
XX/Ka Installation	DSS-25	Jan 2018	April 2018	01 – 14	Wendy Hodgkin	XX/Ka requires 14 weeks - AZ Track will be NIB in weeks 05-14
	DSS-24	Apr 30, 2018	Jul 9, 2018	18 – 27		Ka2 Tune-up is NIB weeks 18 & 19 and scheduled prior to JWST launch in 2018 Needs to happen as soon after JNO end of mission as possible



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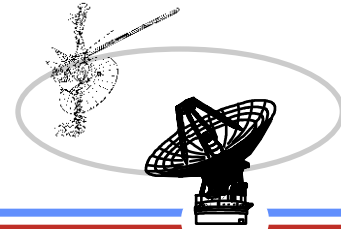
## Antenna Downtime Status and Forecast

Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Ka2 Tune-up	DSS-24	Apr 30, 2018	May 13, 2018	18 & 19	Wendy Hodgkin	This is NIB to XX/Ka Installation
	DSS-34	May 28, 2018	Jun 4, 2018	22 & 23		
	DSS-54	Sep 3, 2018	Sep 16, 2018	36 & 37		
Pedestal Rehab	DSS-54	Feb 2019	Oct 2019	06 – 43	Bernardo Lopez	This downtime has moved tentatively to 2019. More information will follow.

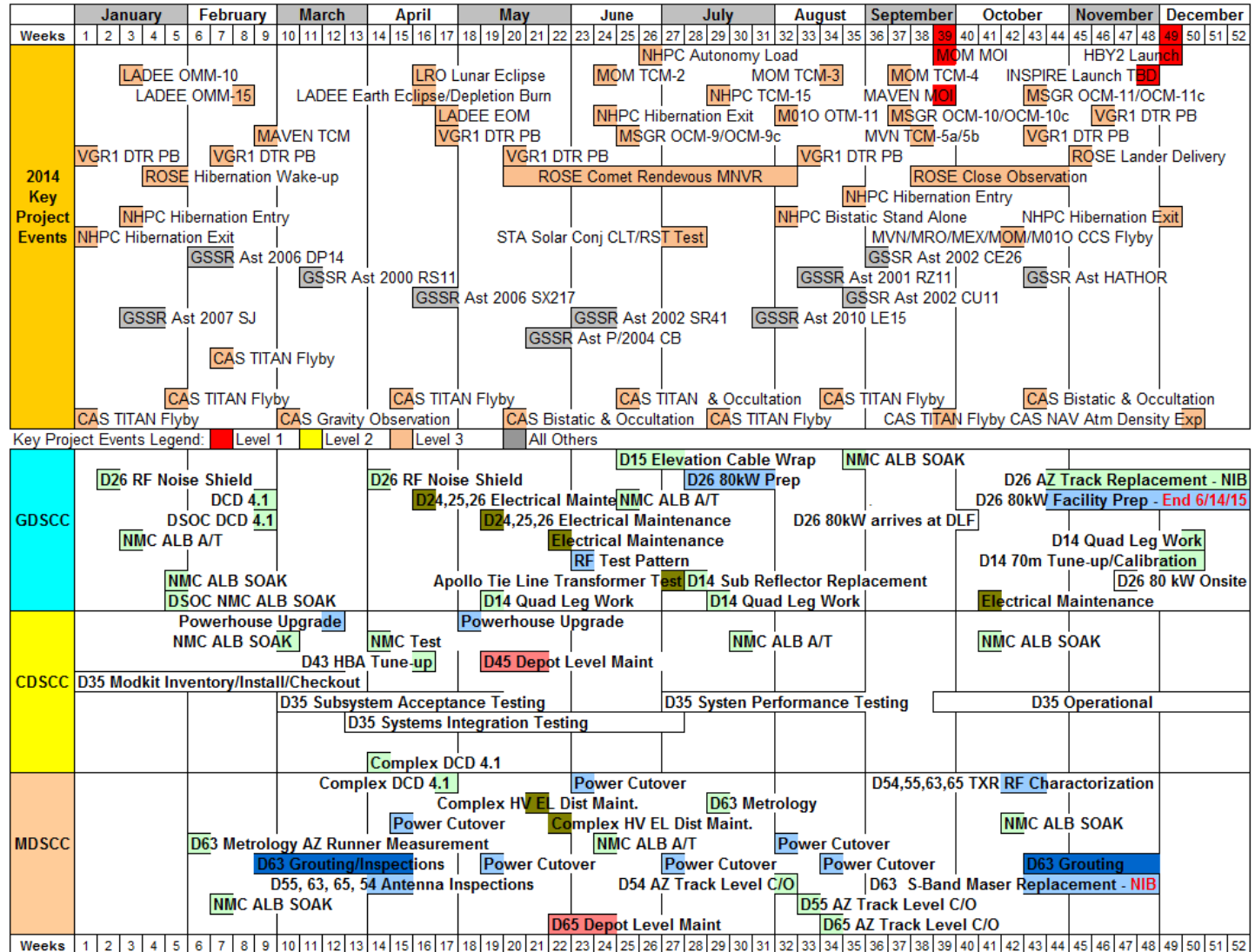




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- 2014 -

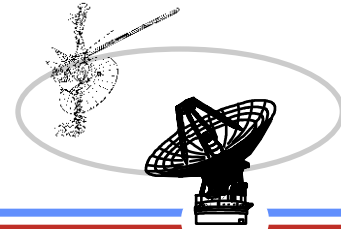


Revised: June 30, 2014

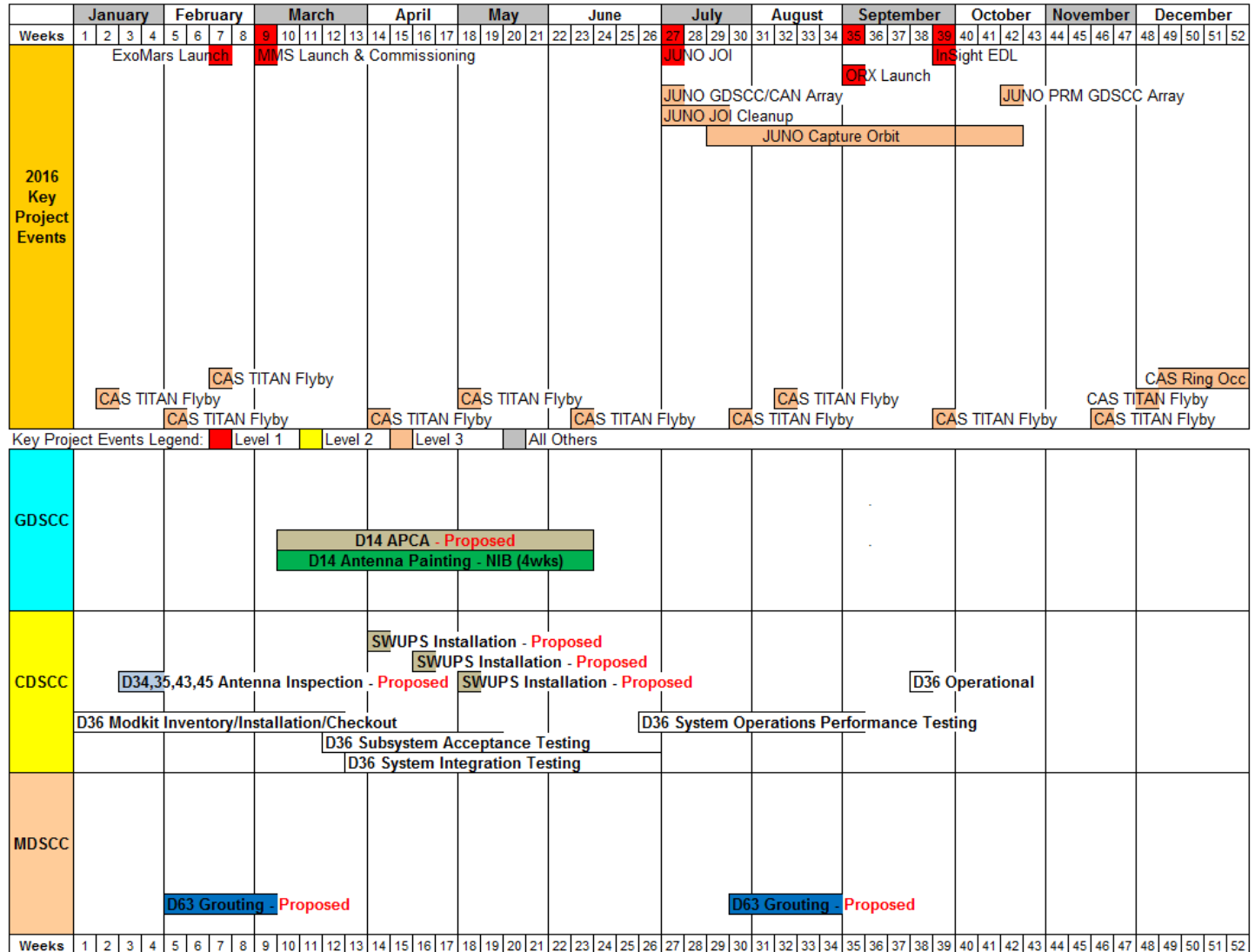




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- 2016 -

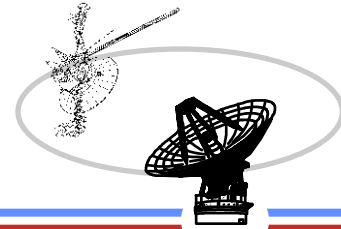




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- 2017 -

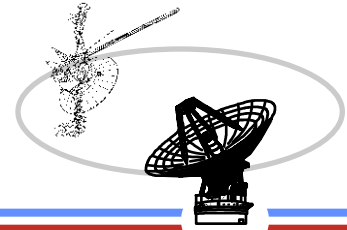
	January				February				March				April				May				June				July				August				September				October				November				December																					
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52														
2017 Key Project Events																																TESS Launch																																		
																																CAS Ring Occ																																		
																																CAS TITAN Flyby																																		
Key Project Events Legend: <span style="color:red">■</span> Level 1 <span style="color:yellow">■</span> Level 2 <span style="color:orange">■</span> Level 3 <span style="color:grey">■</span> All Others																																																																		
GDSCC																																																																		
CDSCC																																												D43 APCA																						
MDSCC								D63 Grouting - Proposed																D54,55,63, 65 Antenna Inspection - Proposed																																										
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														

Revised: June 30, 2014





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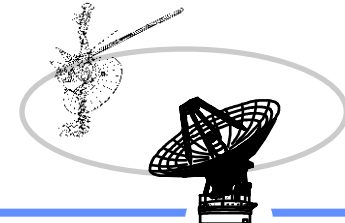
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- 2019 -



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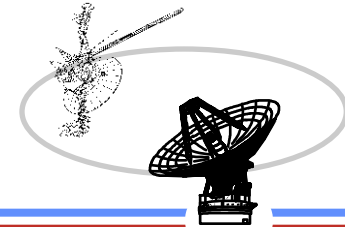
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## DSN Downtime 2014

2014							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 15	Elevation Cable Wrap	06/16/2014 15:00	07/05/2014 00:00	18	25 - 27	167	186
DSS 24	Apollo Tie Line Transformer Test	06/30/2014 15:00	06/30/2014 21:00	0	27 - 27	181	181
DSS 25	Apollo Tie Line Transformer Test	06/30/2014 15:00	06/30/2014 21:00	0	27 - 27	181	181
DSS 26	Apollo Tie Line Transformer Test	06/30/2014 15:00	06/30/2014 21:00	0	27 - 27	181	181
SPC 60	Complex Power Cutover	07/03/2014 05:00	07/03/2014 17:00	0	27 - 27	184	184
SPC 60	HV DIST MAINT - NIB	07/03/2014 05:00	07/03/2014 17:00	0	27 - 27	184	184
DSS 26	80KW Prep	07/07/2014 14:00	08/02/2014 00:00	25	28 - 31	188	214
DSS 14	Sub Reflector Replacement	07/07/2014 16:00	07/10/2014 00:00	2	28 - 28	188	191
DSS 14	Sub Reflector Replacement	07/10/2014 16:00	07/11/2014 00:00	0	28 - 28	191	192
DSS 14	Sub Reflector Replacement	07/11/2014 16:00	07/12/2014 00:00	0	28 - 28	192	193
DSS 14	Quad Leg Work	07/14/2014 14:00	07/14/2014 23:00	0	29 - 29	195	195
DSS 63	Metrology	07/14/2014 22:00	07/15/2014 05:00	0	29 - 29	195	196
DSS 14	Quad Leg Work	07/15/2014 14:35	07/15/2014 23:35	0	29 - 29	196	196
DSS 63	Metrology	07/15/2014 22:00	07/16/2014 05:00	0	29 - 29	196	197
DSS 14	Quad Leg Work	07/16/2014 14:00	07/16/2014 23:00	0	29 - 29	197	197
DSS 14	Quad Leg Work	07/17/2014 14:00	07/17/2014 23:00	0	29 - 29	198	198
DSS 14	Quad Leg Work	07/18/2014 14:00	07/18/2014 23:00	0	29 - 29	199	199
SPC 40	NMC ALB A/T	07/24/2014 21:00	07/25/2014 03:00	0	30 - 30	205	206
SPC 60	Complex Power Cutover	08/07/2014 03:00	08/07/2014 16:00	1	32 - 32	219	219
DSS 54	AZ Track Level C/O	08/07/2014 21:00	08/08/2014 07:00	0	32 - 32	219	220
DSS 55	AZ Track Level C/O	08/11/2014 21:00	08/12/2014 07:00	0	33 - 33	223	224
DSS 65	AZ Track Level C/O	08/18/2014 21:05	08/19/2014 07:00	0	34 - 34	230	231
SPC 60	Complex Power Cutover	08/20/2014 03:00	08/20/2014 16:00	1	34 - 34	232	232



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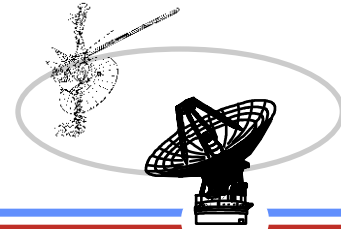
## DSN Downtime 2014

2014							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10	NMC ALB SOAK	08/29/2014 06:35	08/29/2014 12:35	0	35 - 35	241	241
SPC 10	Complex Electrical Maintenance	10/08/2014 12:25	10/09/2014 00:25	0	41 - 41	281	282
SPC 40	NMC ALB SOAK	10/09/2014 00:00	10/09/2014 06:00	0	41 - 41	282	282
DSS 55	TXR RF Characterization	10/13/2014 06:00	10/13/2014 15:00	0	42 - 42	286	286
DSS 65	TXR RF Characterization	10/14/2014 06:00	10/14/2014 15:00	0	42 - 42	287	287
SPC 60	NMC ALB SOAK	10/16/2014 00:00	10/16/2014 06:00	0	42 - 42	289	289
DSS 63	TXR RF Characterization	10/16/2014 06:00	10/16/2014 15:00	0	42 - 42	289	289
DSS 54	TXR RF Characterization	10/17/2014 06:00	10/17/2014 15:00	0	42 - 42	290	290
DSS 63	Grouting	10/20/2014 06:00	11/28/2014 17:00	39	43 - 48	293	332
DSS 63	S-Band Maser Replacement - NIB	10/20/2014 06:00	11/28/2014 17:00	39	43 - 48	293	332
DSS 55	TXR RF Characterization	10/20/2014 06:00	10/20/2014 15:00	0	43 - 43	293	293
DSS 65	TXR RF Characterization	10/21/2014 06:00	10/21/2014 15:00	0	43 - 43	294	294
DSS 63	TXR RF Characterization	10/23/2014 06:00	10/23/2014 15:00	0	43 - 43	296	296
DSS 54	TXR RF Characterization	10/24/2014 06:00	10/24/2014 15:00	0	43 - 43	297	297
DSS 26	80kW Prep	10/27/2014 15:00	06/14/2015 00:00	229	44 - 24	300	165
DSS 26	AZ Track Replacement - NIB	10/27/2014 15:00	06/14/2015 00:00	229	44 - 24	300	165
DSS 14	70M Tune-up/Calibration	12/01/2014 15:00	12/13/2014 00:00	11	49 - 50	335	347
DSS 14	Quad Leg Work	12/09/2014 14:00	12/09/2014 23:00	0	50 - 50	343	343
DSS 14	Quad Leg Work	12/11/2014 14:00	12/11/2014 23:00	0	50 - 50	345	345





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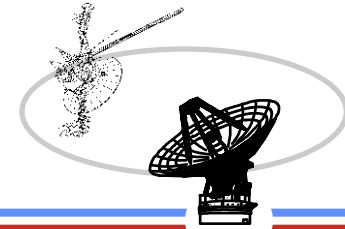


## DSN Downtime 2015

2015							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 25	Ka U/L	01/20/2015 15:00	01/20/2015 23:00	0	04 - 04	20	20
DSS 25	Ka U/L	01/21/2015 15:00	01/21/2015 23:00	0	04 - 04	21	21
DSS 25	Ka U/L	01/22/2015 15:00	01/22/2015 23:00	0	04 - 04	22	22
DSS 25	Ka U/L	01/23/2015 15:00	01/23/2015 23:00	0	04 - 04	23	23
DSS 43	70m Tune-up/Callibration	02/16/2015 21:00	02/27/2015 06:00	10	08 - 09	47	58
DSS 43	70m Tune-up/Callibration	03/16/2015 21:00	04/03/2015 06:00	17	12 - 14	75	93
SPC 40	Complex Powerhouse Upgrade	04/09/2015 21:00	04/10/2015 03:00	0	15 - 15	99	100
SPC 40	Complex Powerhouse Upgrade	04/10/2015 21:00	04/11/2015 03:00	0	15 - 15	100	101
DSS 14	Antenna Inspection	04/20/2015 15:00	04/21/2015 03:00	0	17 - 17	110	111
DSS 26	Antenna Inspection	04/21/2015 15:00	04/22/2015 03:00	0	17 - 17	111	112
DSS 24	Antenna Inspection	04/22/2015 15:00	04/23/2015 03:00	0	17 - 17	112	113
DSS 25	Antenna Inspection	04/22/2015 15:00	04/23/2015 03:00	0	17 - 17	112	113
DSS 15	Antenna Inspection	04/23/2015 15:00	04/24/2015 03:00	0	17 - 17	113	114
DSS 14	Antenna Inspection	04/27/2015 15:00	04/28/2015 03:00	0	18 - 18	117	118
DSS 26	Antenna Inspection	04/28/2015 15:00	04/29/2015 03:00	0	18 - 18	118	119
DSS 25	Antenna Inspection	04/29/2015 15:00	04/30/2015 03:00	0	18 - 18	119	120
DSS 24	Antenna Inspection	04/29/2015 15:00	04/30/2015 03:00	0	18 - 18	119	120
DSS 15	Antenna Inspection	04/30/2015 15:00	05/01/2015 03:00	0	18 - 18	120	121
DSS 63	70m Tune-up/Calibration - NIB	05/11/2015 06:00	05/24/2015 17:00	13	20 - 21	131	144
DSS 63	Grouting	05/11/2015 06:00	05/24/2015 17:00	13	20 - 21	131	144
DSS 63	Grouting	08/03/2015 05:00	08/16/2015 17:00	14	32 - 33	215	228
SPC 10	DCD V5.1	08/05/2015 17:00	08/05/2015 23:00	0	32 - 32	217	217
GCF 20	DSOC DCD V5.1	08/05/2015 17:00	08/05/2015 23:00	0	32 - 32	217	217



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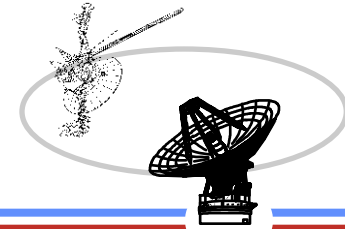
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## DSN Downtime 2015

2015							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 55	AZ Track Replacement	08/18/2015 06:00	10/30/2015 17:00	74	34 - 44	230	304
SPC 60	DCD V5.1	09/09/2015 07:00	09/09/2015 13:00	0	37 - 37	252	252
SPC 40	DCD V5.1	09/24/2015 22:00	09/25/2015 04:00	0	39 - 39	267	268
DSS 34	Depot Level Maintenance	11/30/2015 21:00	12/11/2015 05:00	10	49 - 50	334	345
SPC 40	Complex Powerhouse Upgrade	12/04/2015 21:00	12/05/2015 09:00	0	49 - 49	338	339
SPC 40	Complex Powerhouse Upgrade	12/21/2015 21:00	12/22/2015 03:00	0	52 - 52	355	356



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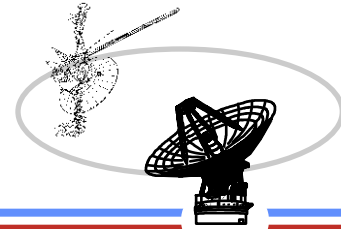
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## DSN Downtime 2016

2016							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	Antenna Inspection - Proposed	01/19/2016 22:00	01/20/2016 14:00	1	03 - 03	19	20
DSS 34	Antenna Inspection - Proposed	01/20/2016 22:00	01/21/2016 14:00	1	03 - 03	20	21
DSS 45	Antenna Inspection - Proposed	01/21/2016 22:00	01/22/2016 14:00	1	03 - 03	21	22
DSS 35	Antenna Inspection - Proposed	01/21/2016 22:00	01/22/2016 14:00	1	03 - 03	21	22
DSS 43	Antenna Inspection - Proposed	01/26/2016 22:00	01/27/2016 06:00	0	04 - 04	26	27
DSS 34	Antenna Inspection - Proposed	01/27/2016 22:00	01/28/2016 06:00	0	04 - 04	27	28
DSS 45	Antenna Inspection - Proposed	01/28/2016 22:00	01/29/2016 06:00	0	04 - 04	28	29
DSS 63	Grouting - Proposed	02/01/2016 06:00	03/04/2016 17:00	32	05 - 09	32	64
DSS 14	APCA - Proposed	03/07/2016 15:00	06/10/2016 00:00	80	10 - 23	67	164
DSS-14	Antenna Painting - NIB	03/07/2016 15:00	06/10/2016 00:00	80	10 - 23	67	164
SPC 40	SWUPS Installation - Proposed	04/05/2016 21:00	04/06/2016 09:00	0	14 - 14	96	97
SPC 40	SWUPS Installation - Proposed	04/20/2016 21:00	04/21/2016 09:00	0	16 - 16	111	112
SPC 40	SWUPS Installation - Proposed	05/04/2016 21:00	05/05/2016 09:00	0	18 - 18	125	126
DSS 63	Grouting - Proposed	07/25/2016 06:00	08/26/2016 17:00	32	30 - 34	207	239



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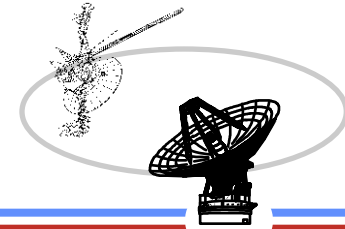


## DSN Downtime 2017

2017							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	Grouting	02/20/2017 06:00	04/28/2017 17:00	67	08 - 17	51	118
DSS 55	Antenna Inspection - Proposed	04/17/2017 07:00	04/17/2017 23:00	1	16 - 16	107	107
DSS 65	Antenna Inspection - Proposed	04/18/2017 07:00	04/18/2017 23:00	1	16 - 16	108	108
DSS 63	Antenna Inspection - Proposed	04/19/2017 07:00	04/19/2017 23:00	1	16 - 16	109	109
DSS 54	Antenna Inspection - Proposed	04/20/2017 07:00	04/20/2017 23:00	1	16 - 16	110	110
DSS 55	Antenna Inspection - Proposed	04/24/2017 07:00	04/24/2017 15:00	0	17 - 17	114	114
DSS 65	Antenna Inspection - Proposed	04/25/2017 07:00	04/25/2017 15:00	0	17 - 17	115	115
DSS 54	Antenna Inspection - Proposed	04/28/2017 07:00	04/28/2017 15:00	0	17 - 17	118	118
DSS 43	APCA - Proposed	10/30/2017 21:00	01/19/2018 06:00	80	44 - 03	303	19



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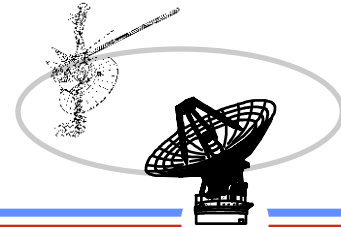
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## DSN Downtime 2018

2018							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 25	XX/Ka Installation	01/04/2018 15:00	04/07/2018 00:00	92	01 - 14	4	97
DSS 25	AZ Track Replacement - NIB	01/29/2018 15:00	04/07/2018 00:00	67	05 - 14	29	97
DSS 14	Antenna Inspection	04/09/2018 15:00	04/10/2018 06:00	1	15 - 15	99	100
DSS 26	Antenna Inspection	04/10/2018 15:00	04/11/2018 06:00	1	15 - 15	100	101
DSS 25	Antenna Inspection	04/11/2018 15:00	04/12/2018 06:00	1	15 - 15	101	102
DSS 15	Antenna Inspection	04/12/2018 15:00	04/13/2018 06:00	1	15 - 15	102	103
DSS 14	Antenna Inspection	04/16/2018 15:00	04/17/2018 00:00	0	16 - 16	106	107
DSS 26	Antenna Inspection	04/17/2018 15:00	04/18/2018 00:00	0	16 - 16	107	108
DSS 24	Antenna Inspection	04/18/2018 15:00	04/19/2018 06:00	1	16 - 16	108	109
DSS 24	Ka2 Tune-up - NIB	04/30/2018 15:00	05/13/2018 00:00	12	18 - 19	120	133
DSS 24	XX/Ka Installation	04/30/2018 15:00	07/07/2018 00:00	67	18 - 27	120	188
DSS 63	APCA	04/30/2018 21:00	07/20/2018 06:00	80	18 - 29	120	201
DSS 34	Ka2 Tune-up - Proposed	05/28/2018 21:00	06/04/2018 06:00	6	22 - 23	148	155
DSS 54	KA2 Tune-up	09/03/2018 07:00	09/14/2018 17:00	11	36 - 37	246	257



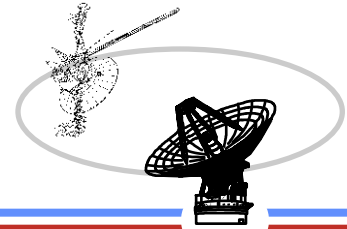
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## DSN Downtime 2019

2019							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	Pedestal Rehab	02/05/2019 06:00	10/26/2019 17:00	263	06 - 43	36	299

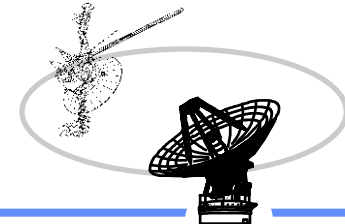


## Future assets new/upgrades

- ❑ DSS-35 Installation and Operational 2013 – 2014
  - ❑ Modkit Installation October 1, 2013 – March 21, 2014 weeks 47 – 12
  - ❑ Acceptance Testing March 5, 2014 – May 6, 2013, weeks 10 – 19
  - ❑ System Integration Testing March 14, 2014 – June 30, 2014 weeks 13 – 27
  - ❑ Operations Systems Performance Testing June 30, 2014 – August 28, 2014, weeks 27 – 35
  - ❑ Operational September 26, 2014
  
- ❑ DSS-26 80kW Installation 2014 – 2015
  - ❑ 80kW arrive at DLF October, 2014, week 40
  - ❑ DDR September, 2015, week 38
  
- ❑ DSS-36 Installation and Operational 2016
  - ❑ Modkit inventory/install/checkout November 23, 2015 – March 21, 2016 Weeks 48 – 12
  - ❑ Acceptance testing March 22, 2016 – May 13, 2016 weeks 12 – 19
  - ❑ System Integration Testing March 29, 2014 June 30, 2016 Weeks 13 – 26
  - ❑ Operations System Performance Testing June 30, 2016 – August 29, 2016 weeks 26 – 35
  - ❑ Operational date 9/23/2-16



# Resource Allocation Planning Service



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## Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix by Complex

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-24	34B1	✓	✓	✓	✓	N/A	N/A	✓	✓	N/A
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	✓	N/A	N/A	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	10/01/15
10	DSS-15	34HEF	✓	12/21/13	✓	✓	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-33*	34B2	N/A	N/A	10/01/19	10/01/19	10/01/19	N/A	N/A	N/A	N/A
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	✓	✓	N/A
40	DSS-35*	34B2	N/A	N/A	09/29/14	09/29/14	09/29/14	N/A	N/A	N/A	N/A
40	DSS-36*	34B2	N/A	N/A	09/26/16	09/26/16	09/26/16	N/A	N/A	N/A	N/A
40	DSS-45	34HEF	✓	✓	✓	✓	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-54	34B1	✓	✓	✓	✓	✓	N/A	✓	✓	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	N/A
60	DSS-56	34B2	N/A	N/A	09/28/20	09/28/20	09/28/20	N/A	N/A	N/A	N/A
60	DSS-65	34HEF	✓	✓	✓	✓	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 = Not Applicable or Capability Not Planned

xx/xx/xx = Capability Date Recently Changed

As of: 4/9/2014

✓✓✓ = Capability Recently Exists

✓ = Capability Exists

\* = To Be Commissioned