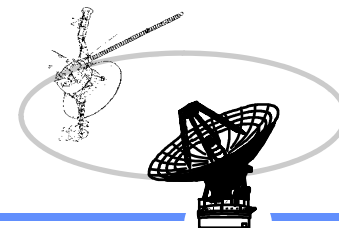


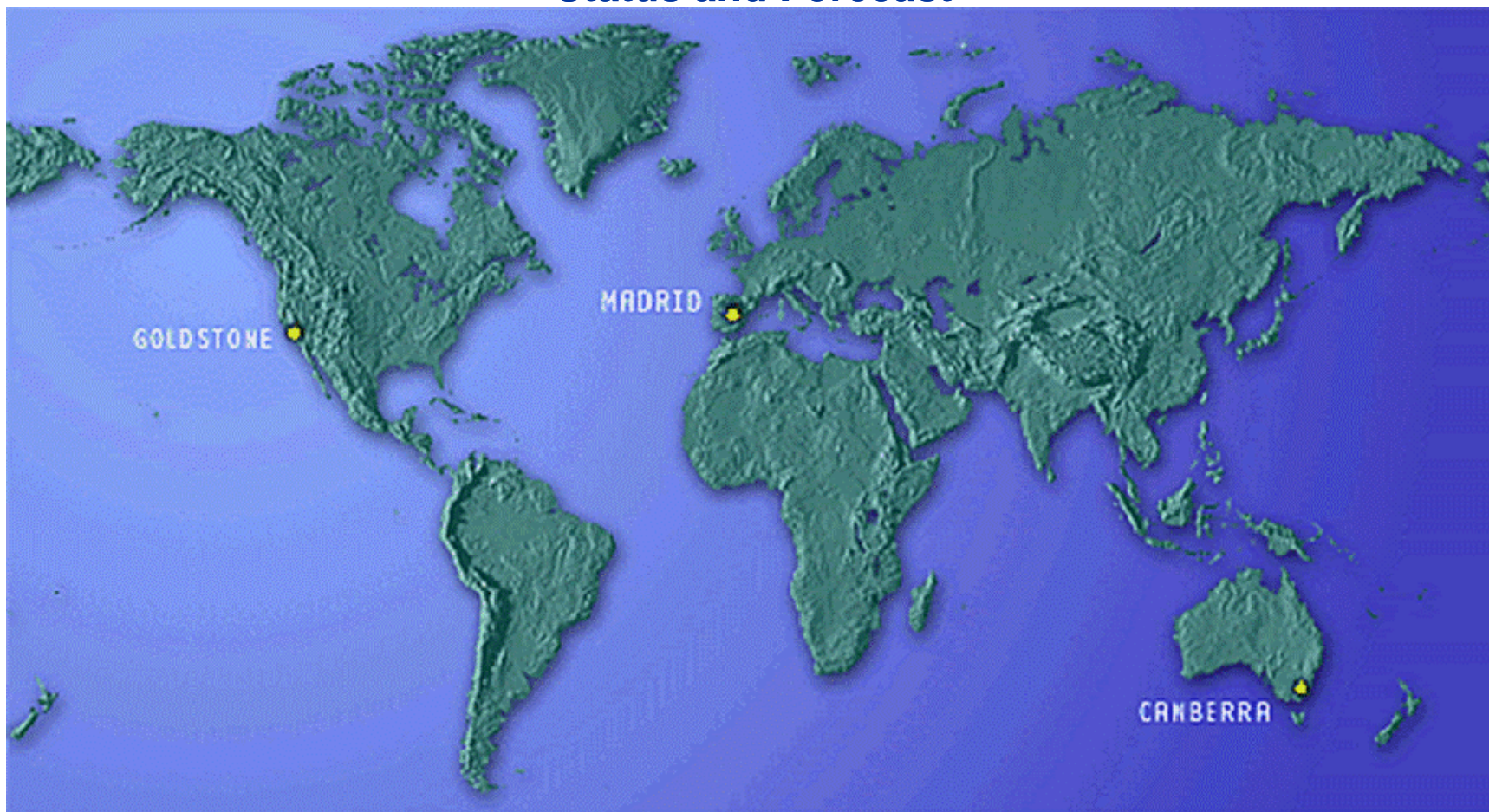


Interplanetary Network Directorate (IND)
Deep Space Network (DSN)
Resource Allocation Planning Service



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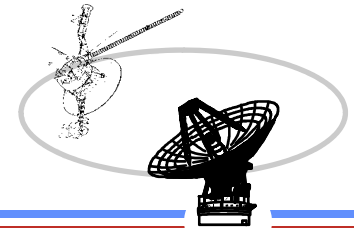
DSN Antenna Downtime Status and Forecast





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



- 2011 -

	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															
2011 Key Project Events	SDU Tempel Enc		MSGR MOI		DAWN FSW		July 1 ACP Begins		THC LOI		GRAIL Launch/TCM		MSL Launch		MSL TCM	
	SDU Approach		SDU Post Enc Imaging		DAWN Vesta Approach		Vesta Orbit Survey		HAMO		DAWN Vesta Orbit LAMO					
	CHDR DC		DAWN Forced Coast		CHDR Earth Eclipse		CHDR DC		JUNO TCM		CHDR DC		CHDR Draconid Pass			
	KEPLMS DAWN Inst CO		CHDR DC		KEPLMS		CHDR LE		KEPLMS		CHDR Earth Eclipse		CHDR Leonid		KEPL QR	
	KEPLMS		KEPL QR		VEX Drag Pass		SOHO Keyhole MNVR VEX Drag Pass		JUNO TCM		JUNO HV C/O					
	SOHO Keyhole		STF HD149026 OBSV		STF GJ1214 OBSV		SOHO Keyhole		SOHO Keyhole		WIND TCM		GSSR Ast 2000 YA			
	SOHO MNVR		SOHO Keyhole MNVR		CLUUI Post Eclipse		LRO LE		WIND TCM		SOHO Keyhole MNVR		GSSR Ast 2005 YU55			
	MSGR TCM/OCM		MSGR TCM/OCM		GSSR Ast 2009 BD		MSGR TCM/OCM		GSSR Ast 2003		QC10		GSSR Ast 1996 FG3		NHPC MNVR	
	NHPC MNVR		NHPC MNVR		WIND TCM		NHPC MNVR		CAS Saturn OCC		NHPC Hibernation Exit		MSGR TCM/OCM			
	ROSE Rendezvous Maneuver		NHPC CO		VGR1 DTR PB		NHPC Checkout		STF HD147506		CAS ENCELADUS		NHPC C/O		NHPC Solar Conj	
CAS RHEA		CAS TITAN		CAS TITAN		ROSE DSHM Entry		CAS TITAN		CAS ENCELADUS		NHPC Hibernation Re-Entry		VGR1 DTR PB		
CLUUI Post Eclipse		CAS TITAN		CLUUI Pre/Post Eclipse		VGR1 DTR PB		CAS ENCELADUS		CAS DIONE		Grav Exp				
CLUUI Pre/Post Eclipse		CLUUI Pre/Post Eclipse		STF CoRoT-9b		CAS TITAN		GSSR Europa								

Key Project Events Legend:

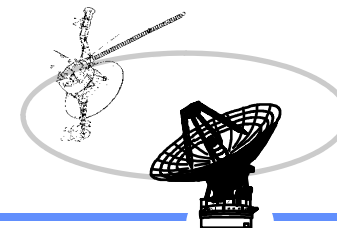
- Level 1
- Level 2
- Level 3
- All Others

GDSCC	D15 Pintle Bearing	D15 Gear Box Replace -NIB	D24 Antenna Controller Replacement	D25 Preliminary Design Review Test - for D35	D15 Uplink/Transmitter Calibration	D26 RF Pattern Testing	D26 RF Pattern Testing
	DPS Power Upgrade	DPS Power Upgrade	DPS Power Upgrade	NMC Install	NMC Install	D27 Antenna Controller Replacement	250 Watt S-Band Install -NIB
CDSCC	D45 Uplink/Transmitter Calibration	D45 Heat Exchanger Level Switch Replacement	D34 Sub Reflector Position Transducer Replacement	NMC Install	DPS Maintenance	D43 AZ Box Replacement	DPS Maintenance
	D34 Antenna Controller Replacement	D34 Heat Exchanger Level Switch Replacement - NIB	Cable Wrap Protection -NIB	DPS Maintenance	DPS Maintenance	DPS Maintenance	DPS Maintenance
MDSCC	NMC Install	NMC Install	D55 Sub Reflector Position Transducer Replacement	D54 Sub Reflector Position Transducer Replacement	D63 DLM	D63 GROUTING -NIB	D65 Chiller Replacement
	D65 Heat Exchanger Level Switch Replacement - NIB	D65 Uplink/Transmitter Calibration	D65 Uplink/Transmitter Calibration	D65 Uplink/Transmitter Calibration			

Revised: July 26, 2011



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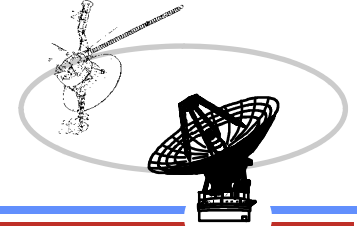
DSN Downtime 2011

2011							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 40	DPS Maintenance	08/25/2011 01:00	08/25/2011 13:00	0	34 - 34	237	237
DSS 26	RF Pattern Testing	10/03/2011 00:00	10/06/2011 02:20	3	40 - 40	276	279
SPC 40	DPS Maintenance	10/13/2011 16:50	10/14/2011 06:05	1	41 - 41	286	287
DSS 15	Uplink/Transmitter Cal	10/20/2011 10:00	10/21/2011 22:00	2	42 - 42	293	294
SPC 40	DPS Maintenance	10/24/2011 17:00	10/25/2011 03:00	0	43 - 43	297	298
SPC 40	DPS Maintenance	11/10/2011 20:00	11/11/2011 08:00	0	45 - 45	314	315



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Antenna Downtime Status and Forecast

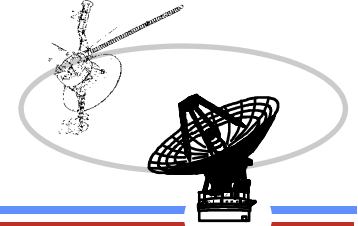
The following are downtimes for 2011

- ❑ NMC 2 – 4 hour Complex Wide downtime
 - ❑ Goldstone NMC Task
 - ❑ Additional time was scheduled for Automation Assembly in week 27 **This was cancelled by the Engineers**
- ❑ 34HEF Uplink and Transmitter Calibration downtime is requested on DSS-65 and DSS-15 for 36 hours in 2011
 - ❑ DSS-65 was scheduled for week 29 - **Completed**
 - ❑ DSS-15 is scheduled for week 42 October 20 – 21, DOY 293/1000 – 294/2200
- ❑ Canberra requested six 8 – 12 hour blocks of Complex Wide DSCC Power Substation (DPS) Maintenance Downtime for April – November
 - ❑ Scheduled/completed for weeks listed
 - ❑ July 24, week 29 – **This was cancelled due to delay in obtaining specific equipment required for the allotted task.**
 - ❑ August 25, week 34, DOY 237/0100 – 1300
 - ❑ October 13, week 41, DOY 286/2000 – 287/0605
 - ❑ October 24, week 43, DOY 297/2000 – 298/0800
 - ❑ November 10, week 45, DOY 314/2000 – 315/0800
 - ❑ There is a possibility that downtimes may be affected by GRAIL if the launch slips into week 40



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Antenna Downtime Status and Forecast

Downtimes for 2011 (continued)

- ❑ BWG Antenna Controller Replacement is requested starting in April
 - ❑ DSS-27 was scheduled for weeks 26 – 30 – **Completed**
 - ❑ 250 Watt S-Band Installation was scheduled NIB
 - ❑ Downtime began after THB LOI support on DOY 178.

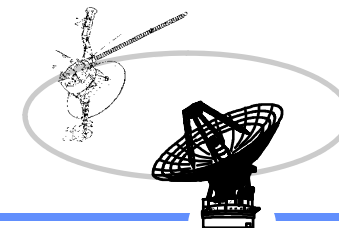
Additional Antenna Controller Replacements are proposed for 2012 and 2013

- ❑ DSS-65 Chiller replacement was scheduled for July, week 27
 - ❑ **Four blocks for July 4, 5, 6, and 7** were scheduled
 - ❑ **Parts arrived on July 6. Time was re-scheduled with regular maintenance and is now completed**
 - ❑ Heat Exchanger Replacement was scheduled NIB
- ❑ DSS-43 Elevation Databox Replacement for 72 hours was scheduled for July
 - ❑ This was scheduled for week 30 – **Completed**
- ❑ DSS-26 RF Pattern Testing is requested for July and September
 - ❑ Two blocks were scheduled for week 30 – **Completed**
 - ❑ One block is scheduled in October, week 40, DOY 276/0000 – 279/0220



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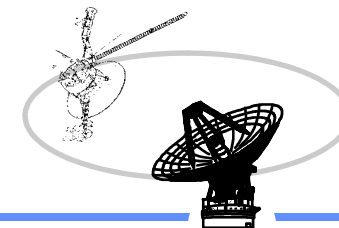
- 2012 -

	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
2012 Key Project Events	GRAIL A/B LOI/OPRTSF												
	VEX Drag Pass												
	DAWN Vesta Orbit												
	DAWN Vesta Depart												
	DAWN Ceres Thrust												
	GSSR Ast 1991 VK												
	KEPL MS KEPL MS KEPL QR KEPL MS KEPL MS KEPL MS KEPL MS KEPL MS KEPL MS GSSR Ast 2007 PA8												
	WIND TCM WIND TCM WIND TCM KEPL QR JUNO DSM KEPL MS KEPL QR KEPL MS												
	GSSR Ast Eros JUNO DSMs DDOR VGR1 DTR PB JUNO DSMs DDOR JUNO DSMs/DDORs/TCMs JUNO Per Maint												
	CHDR DC GSSR Mars CHDR DC WIND TCM CHDR DC WIND TCM CHDR DC												
NHPC Hibernation Re-Entry CHDR Earth Eclipse GSSR Ast 2005 G021 CHDR Earth Eclipse CHDR Leonid													
MRO Relay													
SOHO Keyhole SOHO Keyhole SOHO Keyhole SOHO Keyhole SOHO Keyhole													
SOHO MNVR NHPC TCM SOHO MNVR MRO MSL Relay SOHO MNVR VEX Drag Pass NHPC MNVR NHPC Solar Conj													
NHPC Hibernation Exit NHPC Checkout VEX Drag Pass NHPC MNVR NHPC Solar Conj NHPC Checkout GSSR Ast 2000 ET70 GSSR Ast 1998 HE3 NHPC Checkout VGR1 DTR PB													
NHPC MNVR CAS TITAN CAS TITAN CAS TITAN CAS TITAN CAS TITAN GSSR Ast 2002 AM31 VGR1 DTR PB													
CAS TITAN CAS TITAN CAS ENCELADUS CAS TITAN CAS TITAN CAS TITAN GSSR Ast 1998 ST49 GSSR Ast 4179 Tout													
CAS TITAN CAS ENCELADUS CAS ENCELADUS CAS TITAN CAS TITAN CAS TITAN													
Key Project Events Legend: Level 1 Level 2 Level 3 All Others													
GDSCC	D25 Antenna Controller Replacement Cable Wrap Protection-NIB D26 Antenna Controller Replacement Cable Wrap Protection-NIB D14 70M Tune-up/Calibration - Proposed D14 70M Plug Seal Replacement - Proposed												
CDSCC	D43 70M Tune-up/Calibration - Proposed DPS Power Upgrade - Proposed												
MDSCC	D63 GROUTING - Proposed D63 70M Tune-up/Calibration - NIB D54 AZ Track Replacement - Proposed D54 Antenna Controller Replacement - Proposed Cable Wrap Protection-NIB												
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: July 27, 2011



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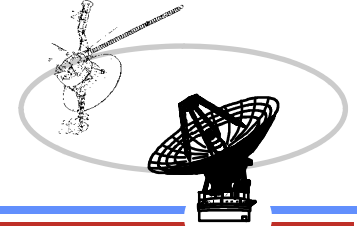
DSN Downtime 2012

2012							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	70m Tune-up/Calibration - Proposed	02/06/2012 19:00	02/10/2012 07:00	4	06 - 06	37	41
SPC 40	DPS Maintenance - Proposed	02/08/2012 22:00	02/09/2012 20:00	1	06 - 06	39	40
DSS 63	70m Tune-up/Calibration - NIB	02/20/2012 06:00	03/11/2012 17:00	20	08 - 10	51	71
DSS 63	Grouting - Proposed	02/20/2012 06:00	03/11/2012 17:00	20	08 - 10	51	71
DSS 14	70m Tune-up/Calibration - Proposed	03/19/2012 14:00	03/25/2012 00:00	5	12 - 12	79	85
DSS 14	Plug Seal Replacement - Proposed	03/26/2012 00:00	04/01/2012 01:00	6	13 - 13	86	92
DSS 26	Cable Wrap Protection - NIB	04/02/2012 13:00	04/05/2012 05:00	3	14 - 14	93	96
DSS 26	Antenna Controller Replacement	04/02/2012 13:00	04/29/2012 01:00	26	14 - 17	93	120
DSS 25	Cable Wrap Protection - NIB	06/11/2012 00:00	06/14/2012 00:00	3	24 - 24	163	166
DSS 25	Antenna Controller Replacement	06/11/2012 00:00	07/15/2012 00:00	34	24 - 28	163	197
DSS 54	AZ Track Replacement - Proposed	09/10/2012 00:00	10/28/2012 00:00	48	37 - 43	254	302
DSS 54	Cable Wrap Protection - NIB	10/22/2012 00:00	10/25/2012 00:00	3	43 - 43	296	299
DSS 54	Antenna Controller Replacement - Proposed	10/22/2012 00:00	11/25/2012 00:00	34	43 - 47	296	330



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Antenna Downtime Status and Forecast

The following are downtimes for 2012 – 2014

- ❑ **DSS-15 Downtime for TXR Manifold Upgrade requested**
 - ❑ One week of downtime is requested for January – May time frame

- ❑ **BWG Antenna Controller Replacement for 2012 – 2013**
 - ❑ DSS-26 is Scheduled for April 2 – 29, 2012, weeks 14 – 17, DOY 093/1300 – 120/0100
 - ❑ DSS-25 is Scheduled for June 11 – July 15, 2012, weeks 24 – 28, DOY 163/0000 – 197/0000
 - ❑ DSS-54 is proposed for October 22 – November 25, 2012, weeks 43 – 47, DOY 296/0000 – 330/0000
 - ❑ DSS-55 is proposed for January 14 – February 17, 2013, weeks 03 – 07, DOY 014/0000 – 048/0000

Note: Cable Wrap Protection for each BWG ACR requires 3 days and will be NIB

- ❑ **DSS-63 downtime for Grouting is requested once per year**
 - ❑ Proposed for **February 20 – March 11, 2012, weeks 08 – 10, DOY 051/0600 – 071/1700**
 - ❑ Tune-up/Calibration is requested NIB to grouting

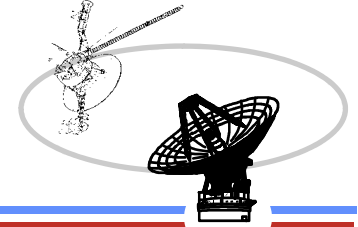
Note: Stand alone Grouting requires 15 days

- ❑ **DSS-43 downtime for Tune-up/Calibration is requested for 2012**
 - ❑ Tune-up/Calibration is proposed for **February 6 – 10, week 06, DOY 037/1900 – 041/0700**
 - ❑ **An additional SPC-40 DPS 8-12 hour power task is proposed for week 06, DOY 039/2000 – 040/1000**
 - ❑ Initially requested for December 2011, but due to contention/high level activities, it is proposed for February 2012



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Antenna Downtime Status and Forecast

The following are downtimes for 2012 – 2014 (continued)

- DSS-14 downtime for Tune-up/Calibration and **Plug Seal Replacement** is requested for 2012
 - Tune-up/Calibration and **Plug Seal Replacement** is proposed for March 19 – April 1 weeks 12 and 13, DOY 079/1400 – 085/0000
 - 14 days of downtime is requested to complete the task**

- AZ Track Replacement is requested for DSS-54, 24 and 26 beginning in the fall of 2012. The following sequence is proposed
 - DSS-54 is proposed for September 10 – October 28, 2012, weeks 37 – 43
 - DSS-24 is proposed for April 22 – June 30, 2013, weeks 17 – 26
 - DSS-26 is proposed for March 31 – June 8, 2014, weeks 14 – 23
 - 80 kW Facility Preparation will be scheduled NIB March 31 – May 18, weeks 14 – 20

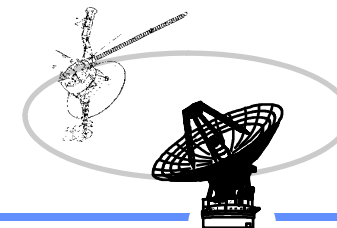
- DSS-43 HBA Upgrade downtime is proposed for 2013
 - Proposed for January 7 – August 11, weeks 02 – 32
 - ZDD will be scheduled prior to return to service

NOTE: This downtime is currently under review

- DSS-63 HBA Upgrade downtime is proposed for 2014
 - Proposed for March 10 – October 5, weeks 11– 40
 - ZDD will be scheduled prior to return to service



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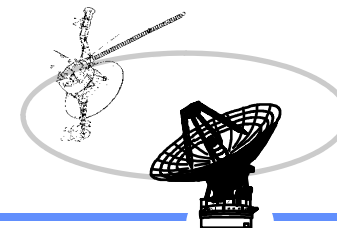
- 2013 -

	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						
2013 Key Project Events	LADEE Launch																		MAVEN Launch LIPF Launch MAVEN TCM																																							
	DAWN Ceres Thrst PB/TV																											DAWN Ceres Coasting																														
	WIND TCM					DAWN Forced Coast					WIND TCM					WIND TCM					WIND TCM					WIND TCM					DAWN Forced Coast																											
	CHDR Dark Current					CHDR Earth Eclipse					CHDR Dark Current					CHDR Dark Current					CHDR Earth Eclipse					CHDR Leonid																																
	SOHO Keyhole															JUNO ME Flush					JUNO TCM					JUNO TCM					JUNO EFB																											
	MRO MSL Relay MSL Surface Ops																																																									
	NHPC Solar Conjunction															NHPC Checkout										NHPC Beacon					NHPC Checkout																											
	NHPC Checkout																				NHPC Maneuver					NHPC MNVR																																
	NHPC MNVR																				GSSR Ast 2002 OD20					GSSR Ast 2005 WK4					GSSR Ast 1998 FW4					NHPC Solar Conjunction																						
	GSSR Ast 2002 AY1																				GSSR Ast 1998 QE2					GSSR Ast 1999 CF9					GSSR Ast 2002 QA22					GSSR Ast 2001 AV43																						
GSSR Ast APOIS										CAS RHEA Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby																							
					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby																												
GDSCC	D24 AZ Track Replacement - Proposed																																																									
CDSCC	D43 HBA Upgrades & Life Extension - Proposed																																																									
	D35 Modkit Inventory/Installation/Checkout D35 Subsystem Acceptance Testing D35 Systems Integration Testing																																																									
MDSCC	D55 Antenna Controller Replacement - Proposed D55 Cable Wrap Protection - NIB																																																									
	D63 GROUTING - Proposed																																																									

Revised: August 1, 2011



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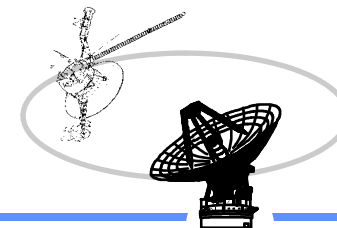
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DSN Downtime 2013

2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	HBA Upgrades and Life Extension - Proposed	01/07/2013 00:00	08/11/2013 00:00	216	02 - 32	7	223
DSS 55	Cable Wrap Protection - NIB	01/14/2013 00:00	01/17/2013 00:00	3	03 - 03	14	17
DSS 55	Antenna Controller Replacement - Proposed	01/14/2013 00:00	02/17/2013 00:00	34	03 - 07	14	48
DSS 24	AZ Track Replacement - Proposed	04/22/2013 00:00	06/30/2013 00:00	69	17 - 26	112	181
DSS 63	Grouting - Proposed	09/02/2013 00:00	09/17/2013 00:00	15	36 - 38	245	260

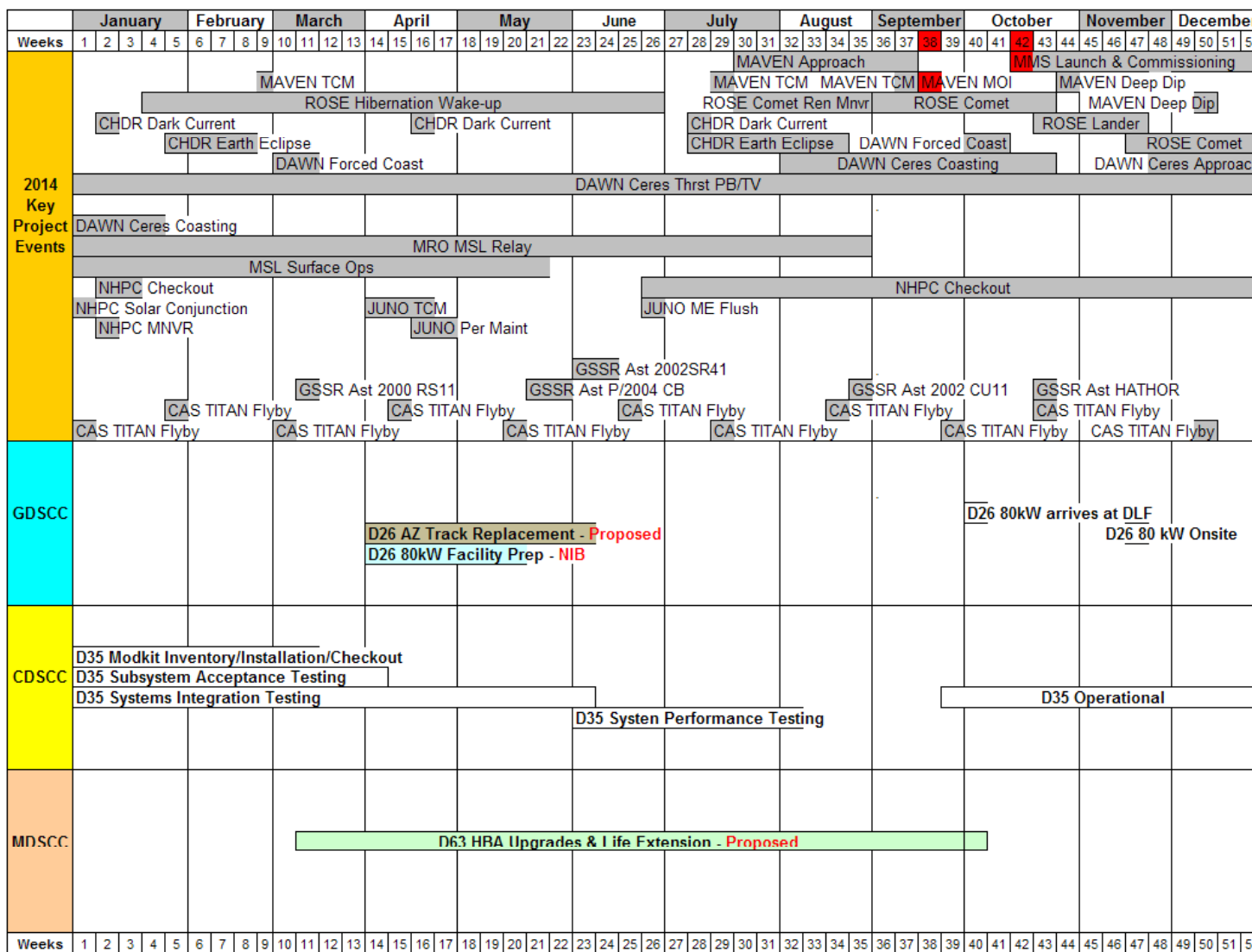


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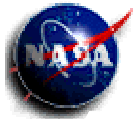


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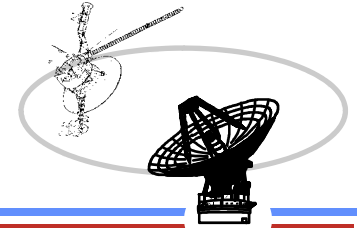
- 2014 -



Revised: July 26, 2011



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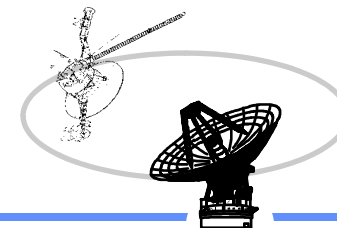
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DSN Downtime 2014

2014							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	HBA Upgrades and Life Extension - Proposed	03/10/2014 00:00	10/05/2014 00:00	209	11 - 40	69	278
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



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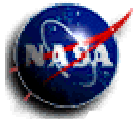


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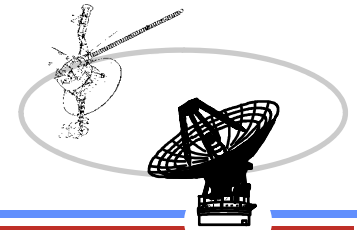
- 2015 -

	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	53
2015 Key Project Events	MMS Commissioning				NHPC Pluto Approach				NHPC MNVR				NHPC Pluto Encounter				NHPC Pluto Science PB				NHPC Checkout																																
	NHPC Solar Conjunction								NHPC MNVR				NHPC MNVR								NHPC Solar Conjunction																																
					MAVEN Deep Dip				MAVEN Deep Dip				MAVEN Conjunction																																								
									ROSE Comet																																												
					DAWN Ceres Orbit								MMS Prime Mission																																								
	DAWN Ceres Approach								JUNO Per Maint				JUNO JOI DDOR				JUNO ME Flush				JUNO JOI DDOR				JUNO JOI DDOR																												
																					GSSR Ast 2003 SD220																																
					GSSR Ast 2004 BL86				GSSR Ast ICARUS				GSSR Ast 1999 JD6				GSSR Ast 2003 RB				GSSR Ast 1998 WT24																																
	CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS DIONE Flyby				GSSR Ast 1994 AW1				CAS ENCELADUS Flyby				CAS TITAN Flyby				CAS ENCELADUS Flyby																								
					CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS DIONE Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS ENCELADUS Flyby																								
GDSCC					D26 Install 80kW												D26 Test 80kW																																				
									D25 AZ Track Replacement - Proposed																D26 80kW DDR																												
CDSCC																																																					
																									D35 80kW Arrives to DLF				D35 80kW Onsite																								
MDSCC																																																					
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	53

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Resource Allocation Planning Service



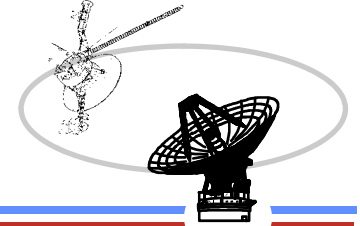
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DSN Downtime 2015

2015							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 25	AZ Track Replacement - Proposed	03/31/2015 00:00	06/07/2015 00:00	68	14 - 23	90	158



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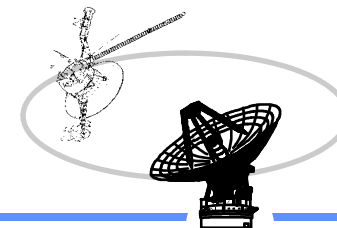
Antenna Downtime Status and Forecast

The following are downtimes for 2015 – 2016

- ❑ AZ Track Replacement is requested for DSS-25 and 55
 - ❑ DSS-25 is proposed for March 31 – June 7, 2015, weeks 14 – 23
 - ❑ 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



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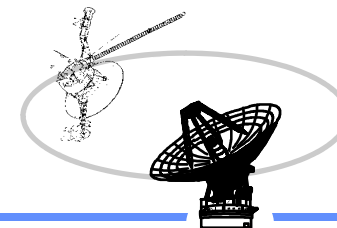
- 2016 -

	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
2016 Key Project Events	NHPC Solar Conjunction				NHPC Pluto Science PB				NHPC Pluto Approach				ExoMars			JWST Launch				NHPC Pluto Encounter																																
	JUNO TCM												JUNO TCM			JUNO TCM				JUNO Capture Orbit																																
					JUNO Approach											JUNO Pre/Post JOI								JUNO Pre/Post PRM																												
	CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby			CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby																								
					CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby			CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby																								
GDSCC																																																				
CDSCC	D35 Install 80kW																									D35 80kW Test																										
																																							D35 DDR													
MDSCC																																																				
	D55 AZ Track Replacement - Proposed																																																			
D55 80 kW Facility Prep - NIR																																																				
																																							D55 80kW to DLF													
																																												D55 80kW on site								
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

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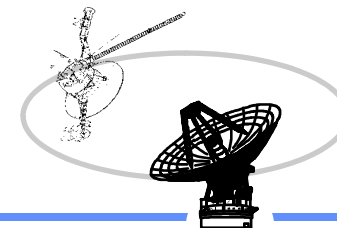
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DSN Downtime 2016

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



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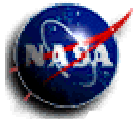


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- 2017 -

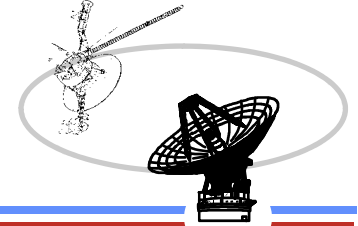
	January				February				March				April				May				June				July				August				September				October				November				December																							
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																
2017 Key Project Events																																									JUNO Deorbit																											
GDSCC																																									CAS TITAN Flyby																											
CDSCC																																																																				
MDSCC																																									D55 Install 80kW												D55 Test 80kW												D55 DDR			

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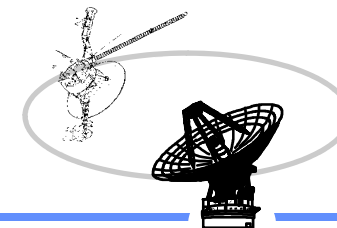


Future assets new/upgrades

- ❑ 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



Interplanetary Network Directorate (IND)
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Antenna Downtime Status and Forecast

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka 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	✓	✓	✓	12/12/10	N/A	N/A	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	10/01/15
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: 6/28/2010

✓ ✓ ✓ = Capability Recently Exists

✓ = Capability Exists

* = To Be Commissioned