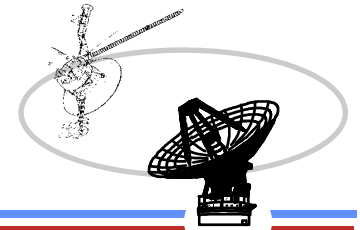


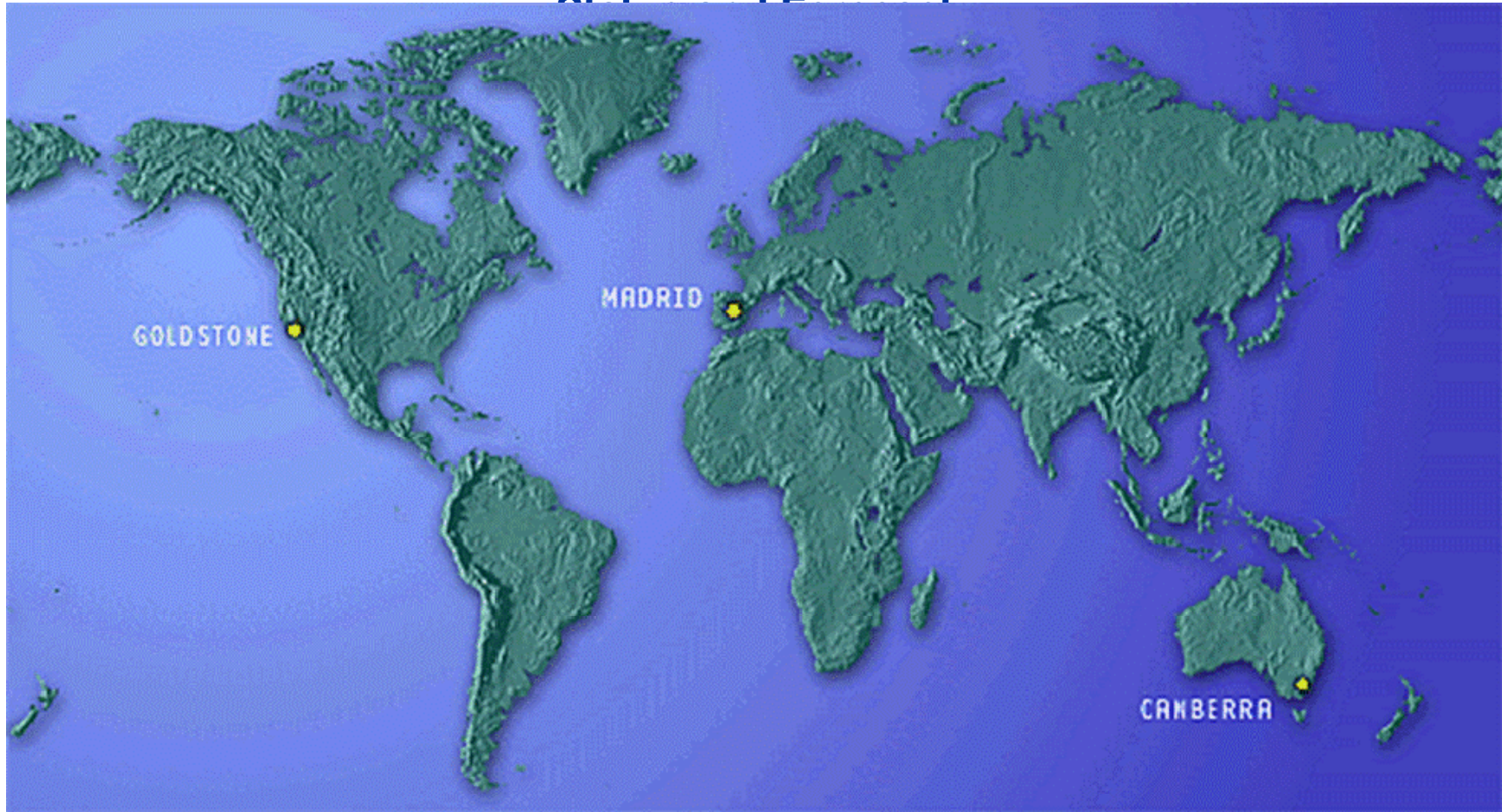


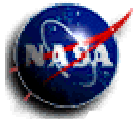
Interplanetary Network Directorate (IND)
Deep Space Network (DSN)
Resource Allocation Planning Service



Jet Propulsion Laboratory
California Institute of Technology

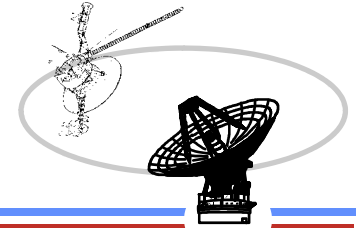
DSN Antenna Downtime





Jet Propulsion Laboratory
California Institute of Technology

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		JUNO TCM		GRAIL Launch/TCM		DAWN Vesta Arrival		GRAIL-A/B TCM		GRAIL-A/B LOI	
	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		CHDR LE		KEPLMS		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		WIND TCM		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 Con					
CAS RHEA		CAS TITAN		CAS TITAN		CAS TITAN		CAS TITAN		CAS ENCELADUS		NHPC Hibernation Re-Entry		CAS DIONE Grav Exp						
CLUUI Post Eclipse		CAS TITAN		CLUUI Pre/Post Eclipse		STF CoRoT-9b		CAS TITAN		GSSR Europa										

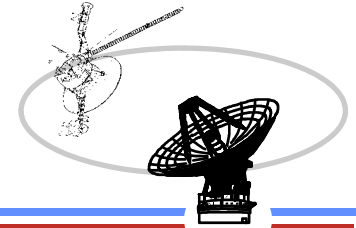
Key Project Events Legend: Level 1 Level 2 Level 3 All Others

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	DPS Power Upgrade	D27 Antenna Controller Replacement	250 Watt S-Band Install -NIB	Cable Wrap Protection -NIB
CDSCC	D45 Uplink/Transmitter Calibration	D45 Heat Exchanger Level Switch Replacement	NMC Install	NMC Install	DPS Maintenance	D43 AZ Box Replacement	DPS Maintenance
	D34 Sub Reflector Position Transducer Replacement	D34 Antenna Controller Replacement	D34 Heat Exchanger Level Switch Replacement - NIB	Cable Wrap Protection -NIB	DPS Maintenance	DPS Maintenance	DPS Maintenance
MDSCC	NMC Install	NMC Install	D63 DLM	D63 GROUING -NIB	D54 Sub Reflector Position Transducer Replacement	D54 BWG PLC Test	D63 Heat Exchanger
					D55 Sub Reflector Position Transducer Replacement	D65 Chiller Replacement	D65 Heat Exchanger Level Switch Replacement - 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: August 31, 2011



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



Jet Propulsion Laboratory
 California Institute of Technology

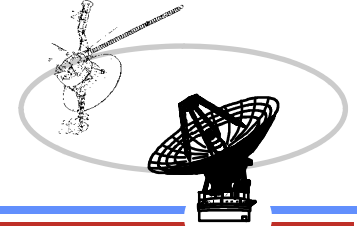
DSN Downtime 2011

2011							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
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 63	Heat Exchanger	10/18/2011 16:30	10/23/2011 16:20	5	42 - 42	291	296
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 15:35	10/25/2011 03:30	0	43 - 43	297	298
SPC 40	DPS Maintenance	11/10/2011 17:45	11/11/2011 04:30	0	45 - 45	314	315



Jet Propulsion Laboratory
California Institute of Technology

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



Antenna Downtime Status and Forecast

The following are downtimes for 2011

- ❑ 34HEF Uplink and Transmitter Calibration downtime is requested on DSS-65 (**completed**) and DSS-15 for 36 hours in 2011
 - ❑ DSS-15 is scheduled for week 42 October 20 – 21, DOY 293/1000 – 294/2200

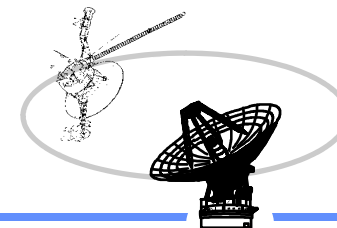
- ❑ Canberra requested six 8 – 12 hour blocks of Complex Wide DSCC Power Substation (DPS) Maintenance Downtime for April – November
 - ❑ Scheduled/completed for weeks listed
 - ❑ August 25, week 34, DOY 237/0100 – 1300 **completed**
 - ❑ October 13, week 41, DOY 286/1650 – 287/0605
 - ❑ October 24, week 43, DOY 299/1535 – 0330/0330
 - ❑ November 10, week 45, DOY 314/1745 – 315/0430
 - ❑ There is a possibility that downtimes may be affected by GRAIL if the launch slips into week 40

- ❑ DSS-26 RF Pattern Testing is requested for July and September
 - ❑ One block is scheduled in October, week 40, DOY 276/0000 – 279/0220

- ❑ **DSS-63 Heat Exchanger is scheduled for October, 2011**
 - ❑ **DSS-63 needs downtime due to a heat exchanger leak. This downtime is scheduled for October 18 – 23, DOY 291/1630 – 296/1620, week 42**

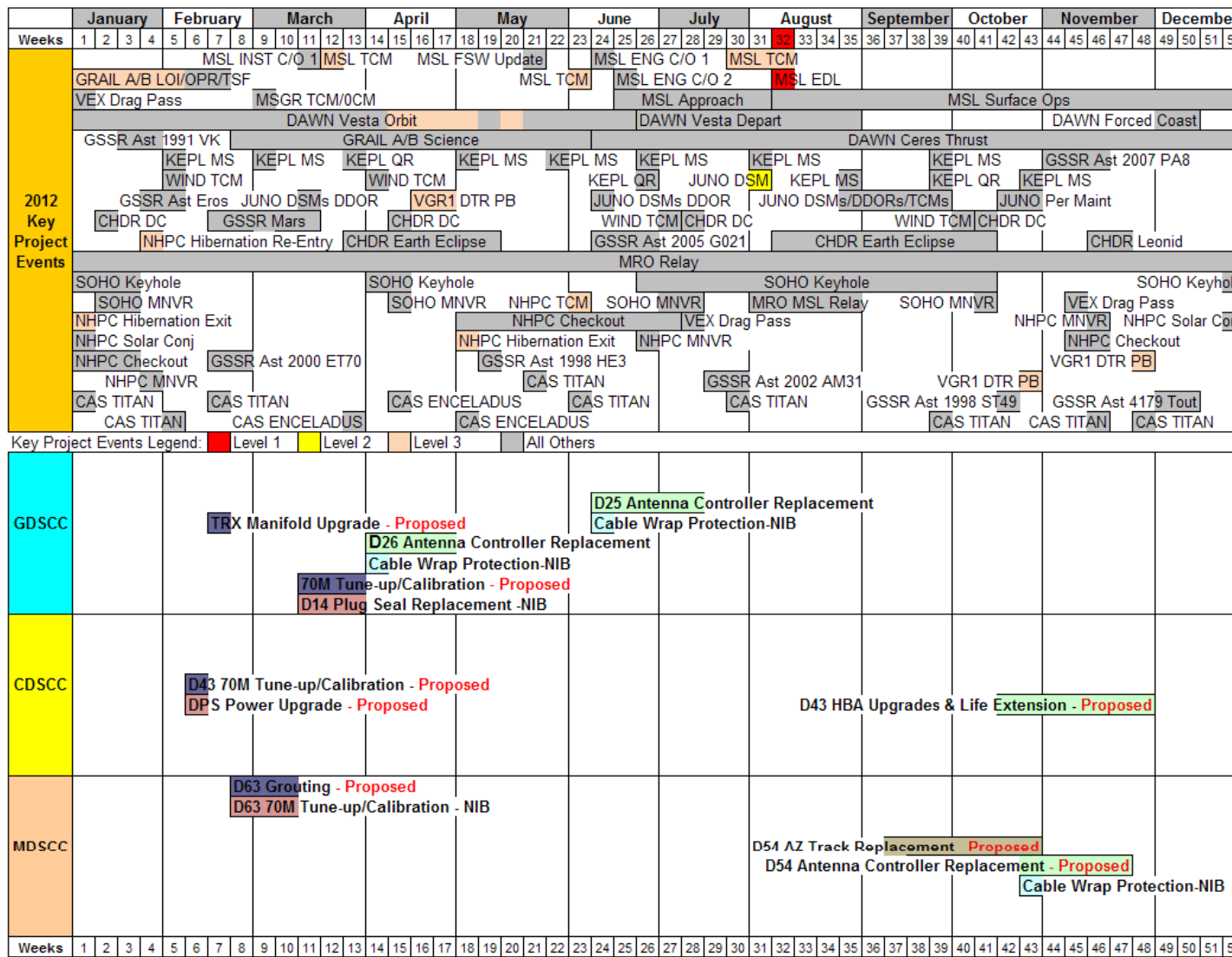


Interplanetary Network Directorate (IND) Deep Space Network (DSN) Resource Allocation Planning Service



Jet Propulsion Laboratory
California Institute of Technology

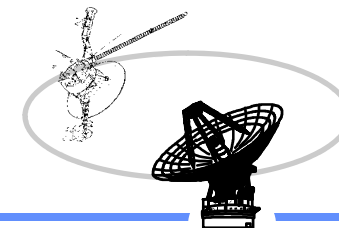
- 2012 -



Revised: August 31, 2011



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



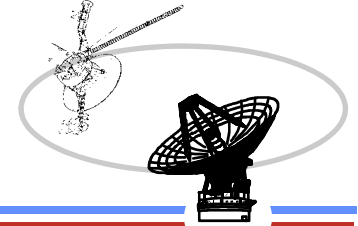
DSN Downtime 2012

2012							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	70m Tune-up/Calibration - Proposed	02/06/2012 19:00	02/12/2012 07:00	6	06 - 06	37	43
SPC 40	DPS Maintenance - Proposed	02/08/2012 20:00	02/09/2012 10:00	1	06 - 06	39	40
DSS 63	70m Tune-up/Calibration - NIB	02/20/2012 06:00	03/11/2012 17:00	20	10 - 10	51	71
DSS 63	Grouting - Proposed	02/20/2012 06:00	03/11/2012 17:00	20	08 - 10	51	71
DSS 15	TXR Manifold Upgrade-Proposed	03/05/2012 14:00	03/10/2012 00:00	4	10 - 10	65	70
DSS 14	70m Tune-up/Calibration - Proposed	03/12/2012 14:00	04/01/2012 01:00	19	12 - 12	72	92
DSS 14	Plug Seal Replacement - NIB	03/12/2012 14:00	04/01/2012 01:00	19	12 - 12	72	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 43	HBA Upgrades and Life Extension Phase 1 - Proposed	10/15/2012 00:00	12/02/2012 00:00	48	42 - 48	289	337
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



Jet Propulsion Laboratory
California Institute of Technology

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



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,
 - ❑ Proposed for March 5 – 9, week 10, 1400 – 0000, DOY 65 – 69
- ❑ 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

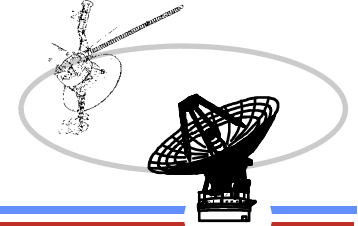
Note: Cable Wrap Protection for each BWG ACR requires 3 days and will be NIB
- ❑ DSS-63 downtime for Grouting is requested once per year
 - ❑ Proposed for February 20 – March 11, 2012, weeks 08 – 10, DOY 051/0600 – 071/1700
 - ❑ Tune-up/Calibration is requested NIB to grouting
 - ❑ Proposed for September 2 – 17, 2013, weeks 36 – 38, DOY 245/0600 – 260/1700

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 – 12, week 06, DOY 037/1900 – 043/0700
 - ❑ 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



Jet Propulsion Laboratory
California Institute of Technology

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



Antenna Downtime Status and Forecast

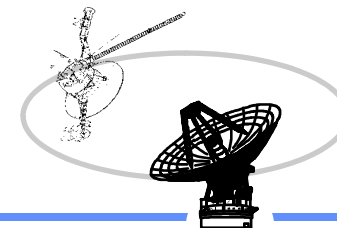
The following are downtimes for 2012 – 2014 (continued)

- ❑ 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 12 – April 1 weeks 11 – 13, DOY 072/1400 – 092/0000
 - ❑ 20 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 2012 – 2013
 - ❑ Details being worked internally
 - ❑ Phase one for downtime phase one is proposed for late 2012, possibly week 42 – 48
 - ❑ Phase two for extended downtime is proposed for 27 weeks in 2013
 - ❑ 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



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



Jet Propulsion Laboratory
California Institute of Technology

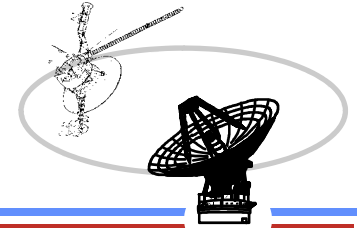
- 2013 -

	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					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																																	
	MRO MSL Relay MSL Surface Ops																		JUNO EFB DDOR																																								
	NHPC Solar Conjunction																		JUNO EFB																																								
	NHPC Checkout					NHPC Checkout					NHPC Checkout					NHPC Beacon					NHPC Checkout																																						
	NHPC MNVR															NHPC Maneuver					NHPC MNVR																																						
	GSSR Ast 2002 AY1															GSSR Ast 2002 OD20					GSSR Ast 2005 WK4					GSSR Ast 1998 FW4					NHPC Solar Conjunction																												
GSSR Ast APOSIS															GSSR Ast 1998 QE2					GSSR Ast 1999 CF9					GSSR Ast 2002 QA22					GSSR Ast 2001 AV43																													
					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																							D63 GROUTING - Proposed																																			
	D55 Cable Wrap Protection - NIB																																																										

Revised: August 31, 2011



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



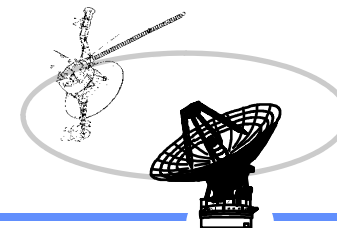
Jet Propulsion Laboratory
California Institute of Technology

DSN Downtime 2013

2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	HBA Upgrades and Life Extension Phase 2 - 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	06 - 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



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



Jet Propulsion Laboratory
California Institute of Technology

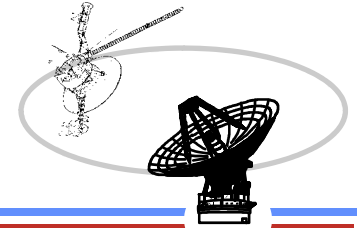
- 2014 -

	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																																						
2014 Key Project Events	MAVEN TCM										ROSE Hibernation Wake-up										MAVEN Approach										MMS Launch & Commissioning																																																											
	CHDR Dark Current										CHDR Earth Eclipse										CHDR Dark Current										CHDR Earth Eclipse										DAWN Forced Coast										DAWN Ceres Thrst PB/TV																																							
	DAWN Ceres Coasting										MRO MSL Relay										MSL Surface Ops										NHPC Checkout										NHPC Solar Conjunction										NHPC MNVR										JUNO TCM										JUNO ME Flush										JUNO Per Maint									
	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									
	GSSR Ast 2000 RS11										GSSR Ast P/2004 CB										GSSR Ast 2002SR41										GSSR Ast 2002 CU11										GSSR Ast HATHOR																																																	
	D26 AZ Track Replacement - Proposed										D26 80kW Facility Prep - NIB										D26 80kW arrives at DLF										D26 80 kW Onsite																																																											
	D35 Modkit Inventory/Installation/Checkout										D35 Subsystem Acceptance Testing										D35 Systems Integration Testing										D35 System Performance Testing										D35 Operational																																																	
	D63 HBA Upgrades & Life Extension - Proposed																																																																																									

Revised: August 31, 2011



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



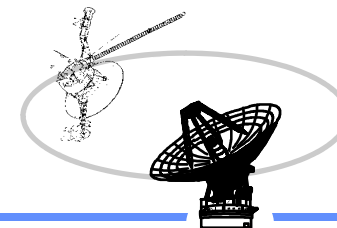
Jet Propulsion Laboratory
California Institute of Technology

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



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



Jet Propulsion Laboratory
California Institute of Technology

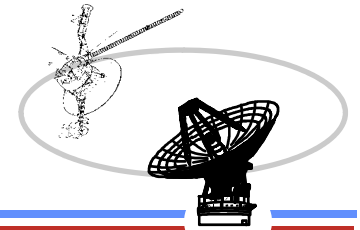
- 2015 -

	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 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																																
	MMS Prime Mission												DAWN Ceres Orbit												MMS Prime Mission																												
	DAWN Ceres Approach				DAWN Ceres Orbit												JUNO Per Maint				JUNO JOI DDOR				JUNO ME Flush				JUNO JOI DDOR				JUNO JOI DDOR				JUNO Early Approach																
	GSSR Ast 2004 BL86												GSSR Ast ICARUS												GSSR Ast 1999 JD6				GSSR Ast 2003 RB				GSSR Ast 1998 WT24				GSSR Ast 2003 SD220																
	CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS ENCELADUS Flyby				CAS ENCELADUS Flyby																				
	CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS TITAN Flyby				CAS ENCELADUS Flyby				CAS ENCELADUS Flyby																				
	D26 Install 80kW												D26 Test 80kW												D26 80kW DDR																												
	D25 AZ Track Replacement - Proposed																																																				
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

Revised: August 31, 2011



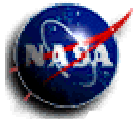
Interplanetary Network Directorate (IND)
Deep Space Network (DSN)
Resource Allocation Planning Service



Jet Propulsion Laboratory
California Institute of Technology

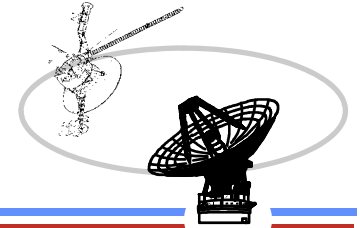
DSN Downtime 2015

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



Jet Propulsion Laboratory
California Institute of Technology

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



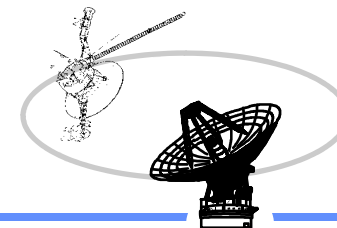
Antenna Downtime Status and Forecast

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



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



Jet Propulsion Laboratory
California Institute of Technology

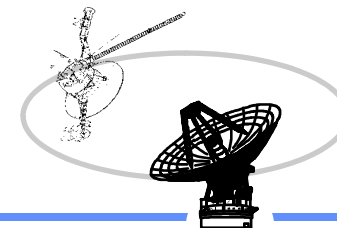
- 2016 -

	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																		JUNO TCM																		JUNO Approach																		JUNO TCM																		JUNO TCM																		JUNO TCM																		JUNO Capture Orbit																		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																																																					
	D35 Install 80kW																		D35 80kW Test																		D35 DDR																		D55 80kW to DLF																		D55 80kW on site																																																																																																																													
	D55 AZ Track Replacement - Proposed																		D55 80 kW Facility Prep - NIB																																																																																																																																																																																			

Revised: August 31, 2011



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



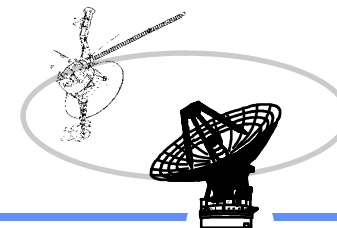
Jet Propulsion Laboratory
California Institute of Technology

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



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



Jet Propulsion Laboratory
California Institute of Technology

- 2017 -

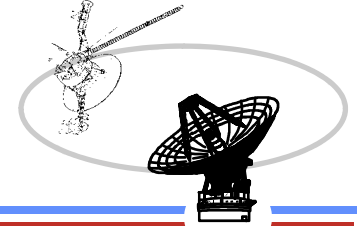
	January				February				March				April				May				June				July				August				September				October				November				December																							
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52						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

Revised: August 31, 2011



Jet Propulsion Laboratory
California Institute of Technology

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

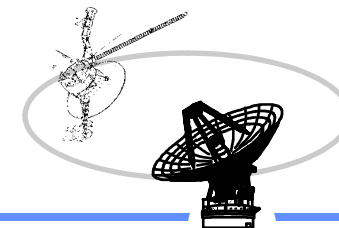


Future assets new/upgrades

- ❑ 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) Deep Space Network (DSN) Resource Allocation Planning Service



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	✓	✓	✓	05/17/11	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: 8/4/2011

✓ ✓ ✓ = Capability Recently Exists

✓ = Capability Exists

* = To Be Commissioned