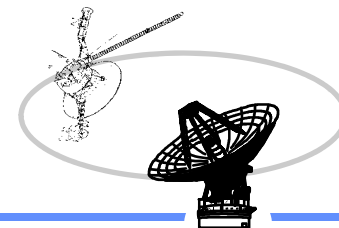


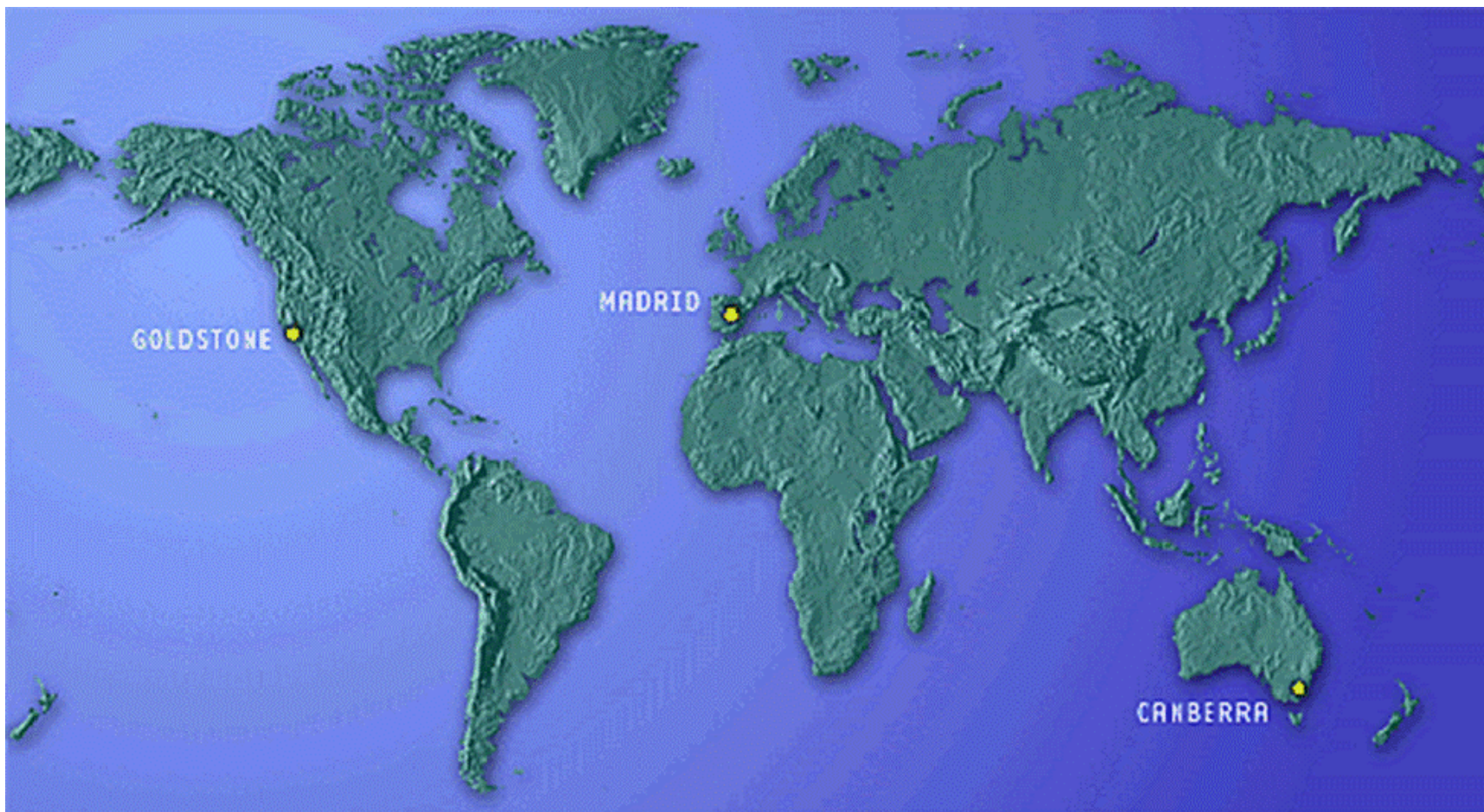


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DSN Antenna Downtime Status and Forecast

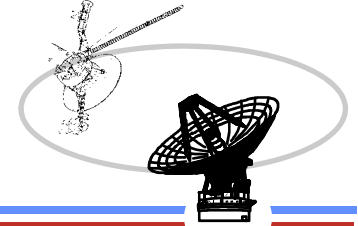




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Antenna Downtime Status and Forecast

Downtimes continued from 2012 into 2013

- BWG Antenna Controller Replacement
 - DSS-54 ACR and AZ Track Replacement is scheduled for September 10 – April 12, 2013, weeks 37 – 15 due to serious issues discovered with the concrete core in the pedestal.

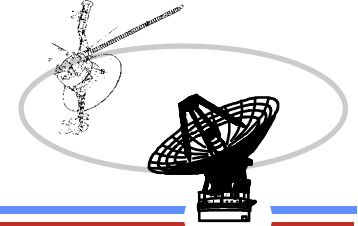
- DSS-43 request downtime for HBA Upgrade and Life Extension
 - DSS-43 HBA Upgrade downtime is scheduled as one continuous downtime for week 46 of 2012 to week 23 of 2013
 - S-Band Maser Replacement is NIB
 - Power ECO is NIB



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Antenna Downtime Status and Forecast

The following are requested downtimes

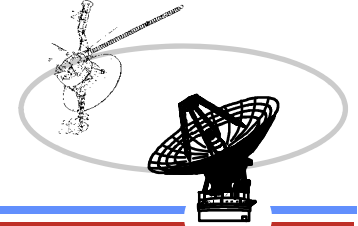
- ❑ SPC-60 requests six 10 hour blocks of complex wide downtime for Power Cutover from January – June of 2013
 - ❑ Scheduled for weeks 22, 26, 31, 34, 39, 44 – prime shift hours are requested but not necessary.
- ❑ SPC-10 requests **16-hour** blocks of complex wide downtime for G86 Power Cutover
 - ❑ G86 Power cutover downtimes are scheduled during maintenance blocks
 - ❑ Weeks 08, 12, 17, 22, 25, **29, 32** & 37 – Day shift requested
 - ❑ Week 8 downtime has been changed to ARC-FLASH TESTING **and scheduled for 13 hours 10 minutes**
 - ❑ **Week 12 downtime has been scheduled for 14 hours,**
 - ❑ **Week 17 downtime has been scheduled for 15.5 hours.**
- ❑ 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
 - ❑ **This task can be combined with G86 Power Cutover task when needed**
- ❑ SPC-10 requests two 12-hour block of downtime for Power Robustness in **2013**
 - ❑ Power Robustness is scheduled for the following week
 - ❑ Week 23 – daylight hours only
- ❑ DSS- 27 request 2 days of downtime for Diplexer Replacement for **2013**
 - ❑ Scheduled for beginning March **20**, week 12 **during maintenance and G86 Power Cutover**
 - ❑ **Demos should be requested**



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Downtimes (cont.)

- SPC-40 requests 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
 - Five blocks, 3 hours each in May, split between weeks 21 and 22
 - Two blocks, 3 hours each in June, week 25
 - Added additional blocks in weeks 03, 04, 05, 09 and 13.

- SPC-40 Antenna Inspections
 - Scheduled for May **2013**, weeks 19 & 20
 - Proposed for January **2016**, weeks 1 & 2

- BWG Antenna Controller Replacement for **2013**
 - DSS-55 is scheduled for June 10 – July **19**, weeks 24 – 29

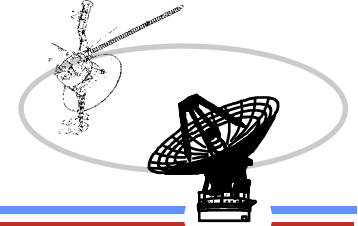
- HEF Maser Replacement is requested
 - DSS-15 is scheduled for August 5 – October 26, **2013**, weeks 32 – 43
 - 250 S-Band will be NIB
 - Changed to better optimize the downtime prior to MAVEN launch
 - DSS-65 is proposed for August – November, **2015** weeks 34 – 43
 - DSS-45 is proposed for November, **2015** – January, **2016** weeks 45 – 2



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Downtimes (cont'd)

- ❑ SPC-10, -40 and -60 requests 6 – 8 hour complex wide downtime for NMC Automated Link Build (ALB) SOAK activities
 - ❑ SPC-10 is scheduled for October **2013**, week 42
 - ❑ SPC-40 is scheduled for January **2014**, week 03
 - ❑ SPC-60 is scheduled for January **2014**, week 05

- ❑ DSS-63 downtime for Grouting **2013 - 2016**
 - ❑ Scheduled for July 15 – August **9**, weeks 29 – **32**, **2013**
 - ❑ **An additional 5 days was requested**
 - ❑ Requesting 2 additional groutings in 2014 - 2016 to replace HBA Upgrade and Life Extension
 - ❑ Proposed for 4 weeks in March **2014**, weeks 10 – 13
 - ❑ Proposed for 4 weeks in November **2014**, weeks 45 – 48.
 - ❑ S-Band Maser Replacement will be NIB
 - ❑ Proposed for 2 weeks in May **2015**, weeks 19 & 20
 - ❑ 70m tune-up and calibration will be NIB
 - ❑ Proposed for 2 weeks in August **2015**, weeks 32 & 33
 - ❑ Proposed for 4 weeks in May **2016**, weeks 18 – 21
 - ❑ Proposed for 4 weeks in November **2016** weeks 44 – 47

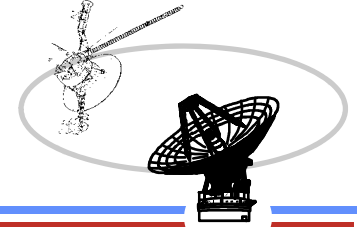
- ❑ AZ Track Replacement downtime is requested for DSS-24 and DSS-25
 - ❑ DSS-24 is scheduled for April 29 – July 12, **2013**, weeks 18 – 28
 - ❑ ZDD is required during this time
 - ❑ DSS-25 is proposed for January 29 – April 8, **2018**, weeks 05 – 14
 - ❑ XX/Ka Installation will be NIB



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Downtimes (cont'd)

- RF Reconfiguration Preparation downtime is requested for DSS-26 and DSS-55
 - DSS-26 is proposed for March 10 – June 30, **2014** weeks 11 – 26
 - AZ Track Replacement and 80 kW Facility Preparation will be NIB
 - DSS-55 is proposed for **March 9 – June 26, 2015, weeks 11 – 26**
 - AZ Track Replacement and 80 kW Facility Preparation will be NIB

- SPC-60 Antenna Inspections
 - Proposed for March, **2014** weeks 12 & 13
 - Proposed for August, **2017** weeks 35 & 36

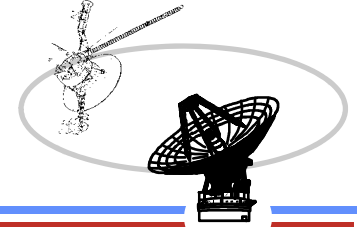
- DCD 4.1 downtime requested for software installation and SOAK for **2014**
 - GDSCC and DSOC are proposed for January 8, week 02
 - CDSCC is proposed for February week 08
 - MDSCC is proposed for March week 10

- DSS-14 70M Tune-up request
 - Proposed for December, **2014**, weeks 49 & 50



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Antenna Downtime Status and Forecast

Downtimes (cont'd)

- ❑ DSS-43 70M Tune-up
 - ❑ Proposed for March **2015**, weeks 11&12

- ❑ SPC-10 Antenna Inspections
 - ❑ Proposed for May, **2015**, weeks 22 & 23
 - ❑ Proposed for April, **2018**, weeks 15 & 16

- ❑ HEF Transmitter Replacement
 - ❑ DSS-15 Proposed for October **2016** – , January **2017** weeks, 40 – 02
 - ❑ DSS-45 Proposed for January – April, **2017**, weeks, 03 - 14
 - ❑ DSS-65 Proposed for September 11 – December 1, 2017, weeks 37 – 48

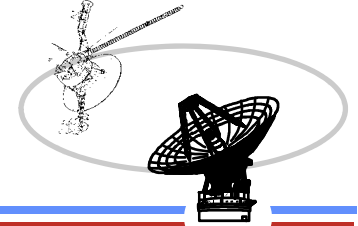
- ❑ SPC-40 request three twelve-hour downtimes for UPS Installation
 - ❑ Rescheduled for November – December **2016**, weeks 44, 46 & 48

- ❑ DSS-63 HBA Upgrade and Life Extension downtime is requested
 - ❑ Proposed for February – September, **2017**, weeks 05 - 36

- ❑ DSS-54 Pedestal Rehab
 - ❑ Proposed for February – October, **2018**, weeks 02 – 39
 - ❑ Ka2 Tune-up will be NIB weeks 36 & 37



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Downtimes (cont'd)

- ❑ DSS-24 XX/Ka Installation requested
 - ❑ Proposed for April 30 – July 9, **2018**, weeks 18 – 27
 - ❑ Ka2 Tune-up will be NIB weeks 18 & 19

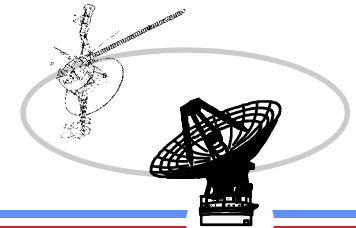
- ❑ DSS-34 Ka2 Tune-up is requested
 - ❑ Proposed for June, **2018**, weeks 22 & 23



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	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	MSL TCM		MSL TCM		MSL FSW Update		MSL ENG C/O 1		MSL TCM/EDL/SOL				
	GRAIL A/B PRM		MSL INST C/O 1		MSL TCM/EDL		MSL ENG C/O 2		MSL EDL		LRO Station Keeping MNVR		
	VEX Drag Pass		GRAIL A/B Science				MSL Approach				MSL Surface Ops		
	DAWN Vesta Orbit				DAWN Vesta Depart				DAWN Forced Coast				
	GSSR Ast 1991 VK		GSSR Venus/Mercury GBT				GRAIL A/B OCM		GSSR Ast 2004 EW9		Dawn Ceres Thrust		
	KEPL MS		KEPL MS		KEPL QR/MS		KEPL MS		KEPL QR/MS		KEPL MS		KEPL MS
	JUNO TCM		JUNO DSMs DDOR				WIND TCM		GSSR Merc GBT		M010 OTM-7		JUNO DSM
	GSSR Ast Eros		GSSR Ast 2011 CP4		MSGR OCM		GSSR Ast 2007 LE		WIND TCM		JUNO TCM		JUNO Per Maint
	CHDR DC		MSGR TCM/OCM		CHDR DC		GSSR Ast 2001		CQ36		CHDR DC		GRAIL A/B ECM
	SOHO MNVR		GSSR Ast 2000 ET70		CHDR Earth Eclipse		GSSR Ast 2005		G021		CHDR Earth Eclipse		VEX Drag Pass
	MRO and M010 Relay												
	SOHO KH		WIND TCM		SOHO KH		GSSR Ast 1998 HE3		SOHO KH		CHDR ACA DC		MESR
	NHPC Enter Hibernation		SOHO MNVR		CAS Saturn Rings Occ		SOHO MNVR		GSSR Ast 1998 ST49		SOHO KH		VGR2 MAGROL
	NHPC Exit Hibernation		VGR1 DTR PB		NHPC Checkout		NHPC Saturn Rings Occ		SOHO MNVR		GSSR Ast 2002 AM31		NHPC Solar Conj
	NHPC Solar Conj		NHPC Exit Hibernation		NHPC MNVR		NHPC Enter Hibernation		CAS Atmospheric Occ		GSSR Ast 1994 XD		NHPC Solar Conj
NHPC C/O		GSSR Ast 2006 CJ		NHPC S/W Load		NHPC 2TWT		CAS USO Recovery Attempt		DIF TCM		VGR1 DTR PB	
NHPC Radio Occultation		CAS TITAN		CAS ENCELADUS		CAS Saturn Rings Occ		CAS Saturn Rings Occ		VGR1 DTR PB		CAS Saturn Rings Occ	
NHPC MNVR		CAS TITAN		CAS ENCELADUS		CAS Saturn Rings Occ		CAS Saturn Rings Occ		GSSR Ast 1998 ST49		GSSR Ast 4179 Tout	
CAS TITAN		CAS TITAN		CAS ENCELADUS		CAS ENCELADUS Gravity Experiment		CAS TITAN		CAS TITAN		CAS TITAN Atmos	

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

- 2012 -

	January	February	March	April	May	June	July	August	September	October	November	December
GDSCC			D15 TXR Manifold Upgrade		D14,15,24,25,26,27 Antenna Inspection							
			D15 Chiller Replacement		Complex NMC Acceptance Test		D25 Antenna Controller Replacement					
			D26 Antenna Controller Replacement		DCD - NIB		D25 Lightning Survey - NIB					
CDSCC			D26 APCA OP-C - NIB		Complex NMC Soak Test							
			Complex NMC Test		D24 S-Band Tuner Replacement							
			70M Tune-up/Cal		D24 APCA OP-C - NIB		D15 Baldor Amplifier Expansion Board Installation					
MDSCC			D14 Plug Seal Replacement - NIB									
			D43 70M Tune-up/Cal		Complex NMC Soak Test							
			DPS Power Upgrade		DCD - NIB		D45 TXR Manifold/Waterload Replacement					
				D45 AMP/CW Installation - NIB		D34 Baldor Amplifier Expansion Board Installation						
				D34 X/Ka Cooldown - NIB		D34 HBA Upgrade						
		D63 Grouting		D65 TXR Manifold/Waterload Replacement								
		D63 70M Tune-up/Cal - NIB		D65 AMP/CW Installation - NIB								
				D65 Critical Power Reconfiguration		D63 Emergency Grouting		D54 AZ Track Replacement/ACR				
		D55 Chiller Flush				D63 Lightning Survey - NIB						
						Complex NMC Soak Test						
						DCD - NIB						

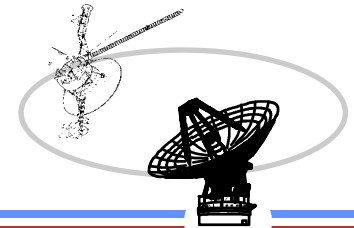
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- 2013 -

	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	WIND TCM					GSSR Ast 2002 AY1/APOPHIS					GSSR Ast 1993 UC					GSSR Ast 2002 OD20					LADEE PRM-1,2,3					LADEE LOA					WIND TCM					MAVEN Launch					MAVEN TCM																			
	MSGR MET Rollover					DAWN Forced Coast					GSSR Ast 2005 NZ6					GSSR Ast 2001 PJ9					GSSR Ast 2007 CN26					DAWN Forced Coast																																		
	DAWN Ceres Thrst PB/TV															DAWN Ceres Coasting																																												
	KEPL QR/MS					KEPL MS					KEPL QR/MS					KEPL MS					KEPL QR/MS					WIND TCM																																		
	CHDR DC					KEPL MS					WIND TCM					GSSR Ast 1998 QE2					GSSR Ast 2005 WK4					KEPL MS					KEPL QR/MS					KEPL MS																								
	SOHO KH					GSSR Ast Camillo					SOHO KH					CHDR DC					KEPL MS					SOHO KH					CHDR DC					CHDR Leonid					KEPL MS																			
	SOHO MNVR					CHDR Earth Eclipse					SOHO MNVR					SOHO MNVR					CHDR Earth Eclipse					SOHO MNVR					SOHO KH					SOHO KH																								
	NHPC REX and Hibernation Re-Entry					VGR2 MAGROL					JUNO TCM					SOHO MNVR																																												
	NHPC C&DH S/W Load					NHPC Hibernation Exit					JUNO ME Flush					JUNO EFB DDOR					JUNO EFB					NHPC Hibernation Re-Entry																																		
	MRO MSL Relay															MSL Surface Ops																																												
	NHPC Solar Conj					VGR1 L3 PB					NHPC Checkout					GSSR Ast 1998 FW4					NHPC Checkout																																							
	NHPC Hibernation Exit					VGR2 ASCAL/MAGROL					NHPC Autonomy Load					NHPC 2TWTA					NHPC Hibernation Re-Entry					NHPC Hibernation Exit																																		
	NHPC Checkout					CAS Saturn Atm Occ					VGR1 L3 PB					CAS Saturn Occ					CAS Saturn					NHPC Maneuver					GSSR Ast 2002 NV16					NHPC MNVR																								
	NHPC MNVR					CAS TITAN Gravity Obs					VGR2 MAGROL NHPC Enc Rehearsal					CAS Saturn Rings Egress Occ					VGR1 L3 PB																																							
	CAS Saturn Rings Occ					CAS Saturn Atm Occ					CAS Saturn					GSSR Ast 1999 CF9					GSSR Ast 2002 QA22					GSSR Ast 2001 AV43																																		
CAS Saturn Rings/Atm Occ					CAS RHEA Gravity Obs					CAS Saturn Atm Occ					CAS TITAN Flyby					GSSR Ast 1998 ML14					CAS TITAN Flyby																																			
CAS Saturn Atm Occ					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby					CAS TITAN Flyby																																			
Key Project Events Legend:															Level 1					Level 2					Level 3					All Others																														
GDSCC	D24 AZ Track Replacement															D15 Maser Replacement																																												
	Complex NMC Automated Link Build															D15 250 W S-Band - NIB																																												
	Complex Wide ARC-Flash Testing															Complex Wide Power Cutover																																												
	D27 Diplexer Replacement - NIB															Complex Wide Power Cutover																																												
	Complex Wide Power Cutover															Complex NMC Automated Link Build																																												
CDSCC	Complex Wide Powerhouse Commission															Complex Wide Powerhouse Commission																																												
	Complex Wide Powerhouse Commission															Complex Wide Powerhouse Commission																																												
	D43 HBA Upgrade															D35 Modkit Inventory/Installation/Checkout																																												
	D43 Maser Replacement - NIB															D34, 43, 45 Antenna Inspection																																												
	Complex Wide Powerhouse Commission															D35 Subsystem Acceptance Testing																																												
MDSCC	D54 AZ Track Replacement/ACR															D55 Antenna Controller Replacement																																												
	Complex Wide Power Cutover															D63 Grouting																																												
	Complex Wide Power Cutover															Complex Wide Power Cutover																																												
	Complex Wide Power Cutover															Complex Wide Power Cutover																																												
	Complex Wide Power Cutover															Complex Wide Power Cutover																																												

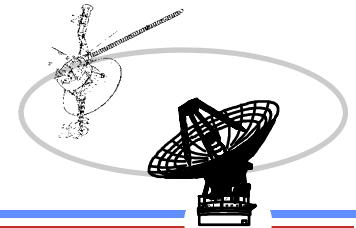
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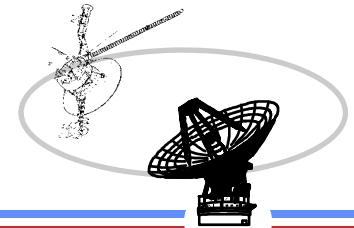
- 2014 -

	January	February	March	April	May	June	July	August	September	October	November	December	
Weeks	1-5	6-10	11-15	16-20	21-25	26-30	31	32-36	37-41	42-46	47-51	52	
2014 Key Project Events	WIND TCM	KEPL QR/MS	MAVEN TCM	WIND TCM	MAVEN TCM	WIND TCM	MAVEN Approach	MAVEN TCM	MAVEN MOI	MMS Launch & Commission			
	CHDR DC	KEPL MS	KEPL MS	KEPL QR/MS	KEPL MS	SOHO KH	CHDR DC	KEPL MS	KEPL MS	CHDR DC	KEPL MS	MAVEN Deep Dip #1	
	MOM EBN #6	CHDR Earth Eclipse		CHDR DC	KEPL MS	SOHO MNVR	CHDR Earth Eclipse	DAWN Forced Coast	DAWN Forced Coast	KEPL QR/MS	KEPL MS		
	DAWN Ceres Coasting	DAWN Forced Coast				KEPL QR/MS		DAWN Ceres Coasting		DAWN Ceres Approach			
						DAWN Ceres Thrst PB/TV							
			ROSE Hibernation Wake-up						ROSE Comet/RSI BiStatic Radar				
	SOHO MNVR	ROSE Reactivation			ROSE Comet Rendezvous MNVR			ROSE Global Mapping		ROSE Lander			
			MRO MSL Relay						ROSE Close Observation				
		MSL Surface Ops				JUNO ME Flush			GSSR Ast 2002 CE26				
	NHPC Checkout	SOHO KH							NHPC Checkout				
	NHPC Solar Conjunction	SOHO MNVR	JUNO TCM				JUNO Conjunction	SOHO KH	WIND TCM		SOHO KH		
	NHPC MNVR	GSSR Ast 2006 DP14	JUNO Per Maint			NHPC S/W Load	SOHO MNVR						
	NHPC Hibernation Exit	GSSR Ast 2000	GSSR Ast 2006 SX217			NHPC Hibernation Exit	GSSR Ast 2001 RZ11						
	NHPC Hibernation Re-Entry	GSSR Ast 2007 SJ	GSSR Ast 2000 RS11			GSSR Ast 2002 SR41	GSSR Ast 2010 LE15						
	VGR1 PB	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
Key Project Events Legend: ■ Level 1 ■ Level 2 ■ Level 3 ■ All Others													
GDSCC	Complex DCD 4.1 - Proposed												
	NOCC DCD 4.1 - Proposed												
CDSCC	D26 RF Reconfiguration Prep - Proposed												
	D26 AZ Track Replacement - NIB												
	D26 80kW Facility Prep - NIB												
MDSCC	D14 70m Tune-up/Calibration - Proposed												
	D26 80kW arrives at DLF												
	D26 80 kW Onsite												
	D35 Operational												
MDSCC	Complex NMC ALB SOAK												
	Complex DCD 4.1 - Proposed												
	D35 Modkit Inventory/Installation/Checkout												
MDSCC	D35 Subsystem Acceptance Testing												
	D35 Systems Integration Testing												
MDSCC	D35 System Performance Testing												
	D63 Grouting - Proposed												
MDSCC	D55, 63, 65, 54 Antenna Inspection - Proposed												
	D63 S-Band Maser Replacement - NIB												
Weeks	1-5	6-10	11-15	16-20	21-25	26-30	31	32-36	37-41	42-46	47-51	52	

Revised: February 4, 2013

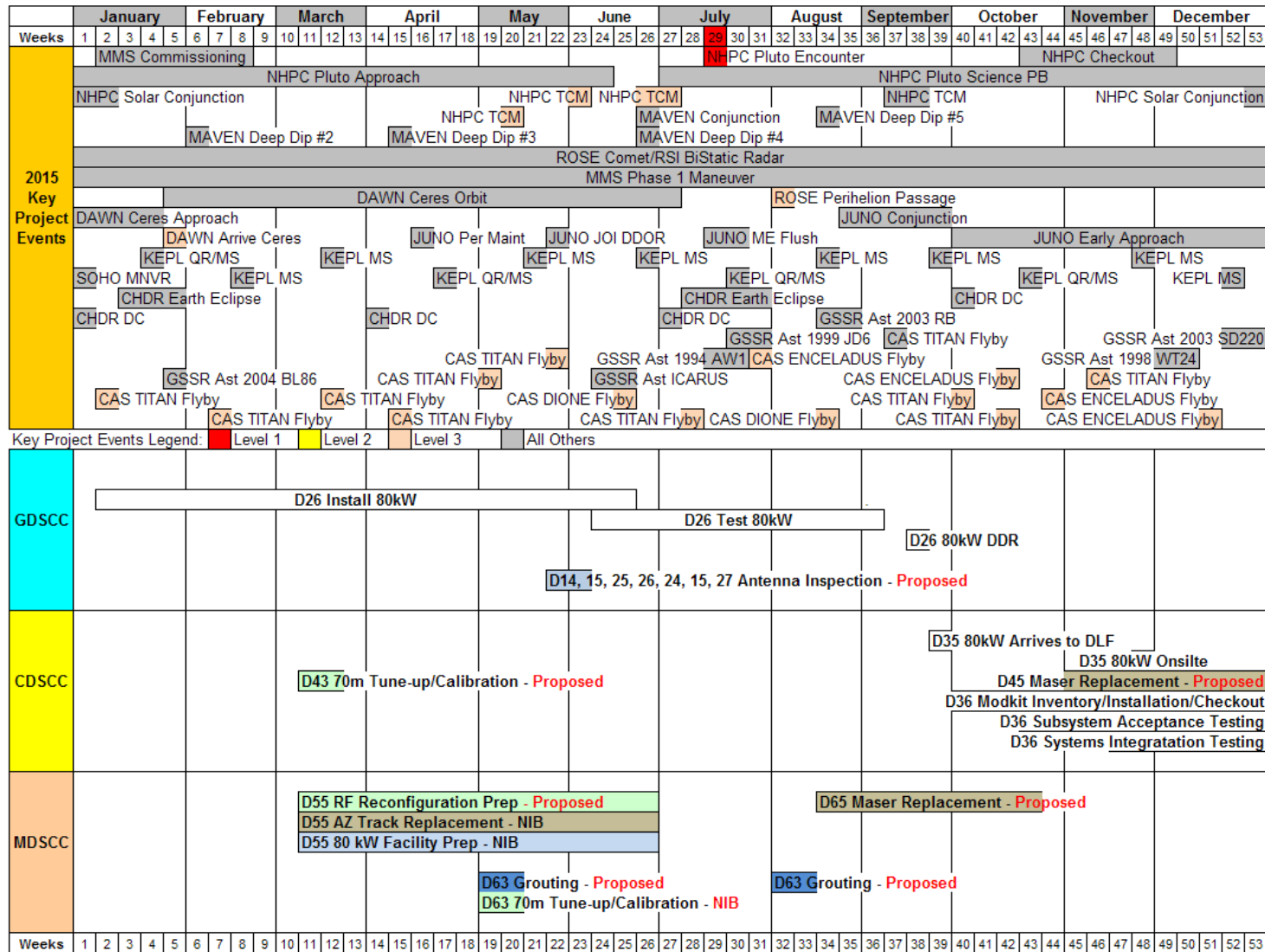


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- 2015 -

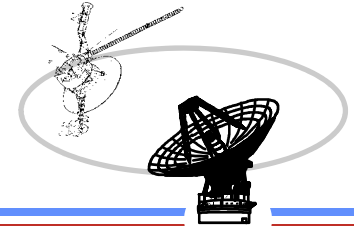


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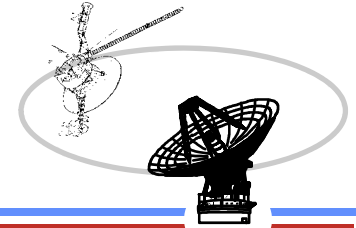
- 2016 -

	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	ExoMars Launch								InSight Launch								ExoMars Approach								ExoMars Aerobreaking								ORX Launch								InSight MOI											
	NHPC Solar Conjunction								NHPC Pluto Science PB								NHPC Kuiper Belt Approach								NHPC Kuiper Belt Encounter								ORX TCM-1								ORX DSM-1											
	MMS Phase 1 Maneuver																ROSE Comet/RSI BiStatic Radar																MMS Phase 2b Maneuver																			
	JUNO TCM				JUNO TCM				JUNO TCM				JUNO TCM				JUNO TCM				JUNO TCM				JUNO Capture Orbit				JUNO Orbit Ops																							
	JUNO Approach				JUNO Approach				JUNO Approach				JUNO Approach				JUNO Approach				JUNO Approach				JUNO Conjunction				JUNO PRM				JUNO Gravity Sci																			
	KEPL QR/MS				KEPL MS				KEPL MS				KEPL QR/MS				KEPL MS				KEPL MS				KEPL QR/MS				KEPL QR/MS																							
	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				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				CAS TITAN Flyby				CAS TITAN Flyby																							
Key Project Events Legend: ■ Level 1 ■ Level 2 ■ Level 3 ■ All Others																																																				
GDSCC																																								D15 Transmitter Replacement - Proposed												
CDSCC	D35 Install 80kW																																																			
	D45 Maser Replacement - Proposed																D35 80kW Test																UPS Installation - Proposed																			
	D34, 35,43,45 Antenna Inspection - Proposed																UPS Installation - Proposed																				UPS Installation - Proposed															
	D36 Modkit Inventory/Installation/Checkout																D36 System Performance Testing																D35 DDR																			
	D36 Subsystem Acceptance Testing																D36 System Performance Testing																D36 Operational																			
MDSCC	D36 Systems Integration Testing																																																			
	D63 Grouting - Proposed																D55 80kW to DLF																				D55 80kW on site															
D63 Grouting - Proposed																D63 Grouting - Proposed																																				

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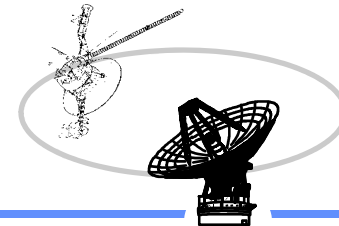
- 2017 -

	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	ORX DSM-1				MMS Disposal				MMS Phase 2b Maneuver				JUNO Orbit Ops/Gravity Sci				ORX DSM-1				ORX EGA				JUNO Deorbit																																																							
													CAS TITAN Flyby																																																																			
	Key Project Events Legend: ■ Level 1 ■ Level 2 ■ Level 3 ■ All Others																																																																															
	GDSCC	D15 Transmitter Replacement - Proposed																																																																														
	CDSCC	D45 Transmitter Replacement - Proposed																																																																														
MDSCC	D65 Transmitter Replacement - Proposed																																																																															
	D55 Install 80kW																D55 Test 80kW																D55 DDR																D63 HBA Upgrades & Life Extension - 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																												

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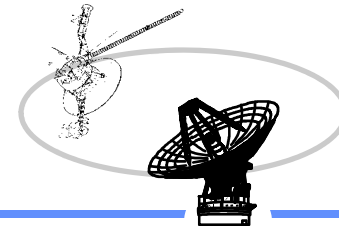
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	January				February				March				April				May				June				July				August				September				October				November				December																									
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																		
2018 Key Project Events	Mars 2018 Launch and LEOP														ORX DSM-2														SPP Launch and LEOP														JW/ST Launch and Commissioning																											
	PLC Venus Approach and VOI														HAY 2 TCM														SPP ICO, Venus Flyby														SPP Solar Encounter 1																											
																													ORX Astroid Approach														ORX Survey Phase																											
																													Mars 2018 Approach and MOI																																									
Key Project Events Legend: ■ Level 1 ■ Level 2 ■ Level 3 ■ All Others																																																																						
GDSCC															D25 AZ Track Replacement - Proposed														D25 XX/Ka Installation - NIB														D24 XX/Ka Installation - Proposed														D24 Ka2 Tune-up NIB													
															D14, 15, 25, 26, 24, 15, 27 Antenna Inspection - Proposed																																																							
CDSCC															D36 Install 80kW														D34 Ka2 Tune-up														D36 80kW Test														D36 DDR													
MDSCC															D55 Install 80kW														D54 Pedestal Rehab - Proposed														D55 Test 80kW														D55 DDR													
																																																									D54 Ka2 Tune-up 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																		

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DSN Downtime 2012

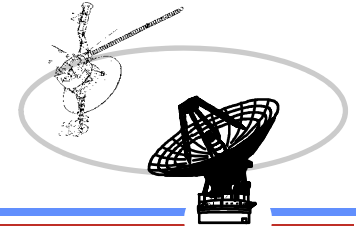
2012							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	AZ TRK/ACR Replacement	09/10/2012 05:00	04/12/2013 17:00	214	37 - 15	254	102
DSS 43	HBA Upgrade and Life Extension	11/12/2012 19:00	06/10/2013 07:00	210	46 - 24	317	161



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DSN Downtime 2013

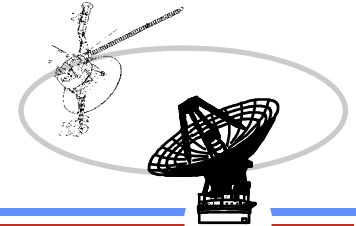
2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 40	Powerhouse Commission	02/01/2013 09:30	02/01/2013 17:35	0	05 - 05	32	32
SPC 40	Powerhouse Commission	02/02/2013 10:10	02/02/2013 17:35	0	05 - 05	33	33
SPC 10	ARC-Flash Testing	02/21/2013 17:05	02/22/2013 06:15	1	08 - 08	52	53
SPC 40	Powerhouse Commission	02/25/2013 09:10	02/25/2013 13:00	0	09 - 09	56	56
SPC 40	Powerhouse Commission	02/27/2013 08:35	02/27/2013 12:45	0	09 - 09	58	58
SPC 40	Powerhouse Commission	03/01/2013 09:05	03/01/2013 14:35	0	09 - 09	60	60
SPC 10	NMC Automated Link Build	03/04/2013 03:00	03/04/2013 10:00	0	10 - 10	63	63
SPC 10	NMC Automated Link Build	03/18/2013 03:10	03/18/2013 10:10	0	12 - 1 2	77	77
SPC 10	G86 Complex Power Cutover	03/20/2013 17:00	03/21/2013 07:00	1	12 - 1 2	79	80
DSS 27	Diplexer Replacement	03/20/2013 17:00	03/21/2013 23:00	1	12 - 12	79	80
SPC 40	Powerhouse Commission	03/25/2013 08:40	03/25/2013 15:00	0	13 - 13	84	84
SPC 40	Powerhouse Commission	03/26/2013 11:05	03/26/2013 14:15	0	13 - 13	85	85
SPC 40	Powerhouse Commission	03/27/2013 11:00	03/27/2013 14:10	0	13 - 13	86	86
SPC 40	Powerhouse Commission	03/30/2013 07:45	03/30/2013 14:00	0	13 - 13	89	89
SPC 10	NMC Automated Link Build	04/10/2013 00:00	04/10/2013 08:00	0	15 - 15	100	100
SPC 10	G86 Complex Power Cutover	04/24/2013 13:00	04/25/2013 05:00	1	17 - 17	114	115
DSS 24	AZ Track Replacement	04/29/2013 15:00	07/12/2013 00:00	73	18 - 28	119	193
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
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



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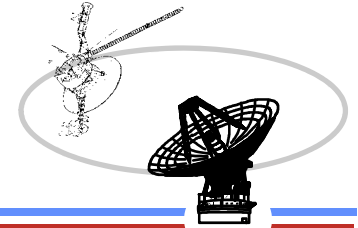
DSN Downtime 2013

2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10	G86 Complex Power Cutover	05/28/2013 13:00	05/29/2013 05:00	1	22 - 22	148	149
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
DSS 55	Antenna Controller Replacement - Proposed	06/10/2013 05:00	07/19/2013 17:00	40	24 - 29	161	200
SPC 10	NMC Automated Link Build	06/11/2013 00:00	06/11/2013 08:00	0	24 - 24	162	162
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 10	G86 Complex Power Cutover	06/19/2013 13:00	06/20/2013 05:00	1	25 - 25	170	171
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	07/15/2013 06:00	08/09/2013 17:00	25	29 - 32	196	221
SPC 10	G86 Complex Power Cutover	07/16/2013 13:00	07/17/2013 05:00	1	29 - 29	197	198
SPC 60	Complex Power Cutover	07/31/2013 05:00	07/31/2013 17:00	0	31 - 31	212	212
SPC 10	NMC Automated Link Build	08/05/2013 00:00	08/05/2013 08:00	0	32 - 32	217	217
DSS 15	250W S-Band - NIB	08/05/2013 15:00	10/26/2013 00:00	81	32 - 43	217	299
DSS 15	Maser Replacement	08/05/2013 15:00	10/26/2013 00:00	81	32 - 43	217	299



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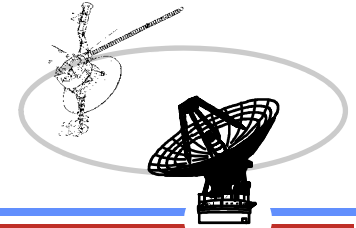
DSN Downtime 2013

2013							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10	G86 Complex Power Cutover	08/06/2013 13:00	08/07/2013 05:00	1	32 - 32	218	219
SPC 60	Complex Power Cutover	08/22/2013 05:00	08/22/2013 17:00	0	34 - 34	234	234
SPC 10	G86 Complex Power Cutover	09/10/2013 13:00	09/11/2013 05:00	1	37 - 37	253	254
SPC 10	NMC Automated Link Build	09/19/2013 00:00	09/19/2013 08:00	0	38 - 38	262	262
DSS 54	Complex Power Cutover	09/26/2013 05:00	09/26/2013 17:00	0	39 - 39	269	269
DSS 55	Complex Power Cutover	09/26/2013 05:00	09/26/2013 17:00	0	39 - 39	269	269
DSS 63	Complex Power Cutover	09/26/2013 05:00	09/26/2013 17:00	0	39 - 39	269	269
DSS 65	Complex Power Cutover	09/26/2013 05:00	09/26/2013 17:00	0	39 - 39	269	269
SPC 10	NMC Automated Link Build - SOAK	10/17/2013 00:00	10/17/2013 08:00	0	42 - 42	290	290
DSS 54	Complex Power Cutover	10/31/2013 05:00	10/31/2013 17:00	0	44 - 44	304	304
DSS 55	Complex Power Cutover	10/31/2013 05:00	10/31/2013 17:00	0	44 - 44	304	304
DSS 63	Complex Power Cutover	10/31/2013 05:00	10/31/2013 17:00	0	44 - 44	304	304
DSS 65	Complex Power Cutover	10/31/2013 05:00	10/31/2013 17:00	0	44 - 44	304	304



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DSN Downtime 2014

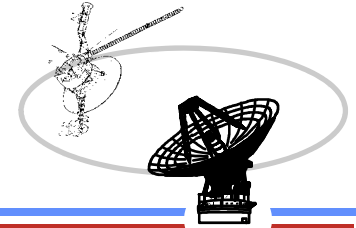
2014							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
GCF 20	DCD 4.1 - Proposed	01/08/2014 23:10	01/09/2014 05:10	0	02 - 02	8	9
SPC 10	DCD 4.1 - Proposed	01/08/2014 23:10	01/09/2014 05:10	0	02 - 02	8	9
SPC 40	NMC Automated Link Build - SOAK Proposed	01/15/2014 21:00	01/16/2014 05:00	0	03 - 03	15	16
SPC 60	NMC Automated Link Build - SOAK Proposed	01/29/2014 06:00	01/29/2014 14:00	0	05 - 05	29	29
SPC 40	DCD 4.1 - Proposed	02/20/2014 23:00	02/21/2014 05:00	0	08 - 08	51	52
DSS 63	Grouting - Proposed	03/03/2014 06:00	03/28/2014 17:00	25	10 - 13	62	87
SPC 60	DCD 4.1 - Proposed	03/06/2014 07:00	03/06/2014 13:00	0	10 - 10	65	65
DSS 26	80 kW Facility Prep - NIB	03/10/2014 15:00	06/27/2014 00:00	108	11 - 26	69	178
DSS 26	AZ Track Replacement - NIB	03/10/2014 15:00	06/27/2014 00:00	108	11 - 26	69	178
DSS 26	RF Reconfiguration Prep - Proposed	03/10/2014 15:00	06/27/2014 00:00	108	11 - 26	69	178
DSS 55	Antenna Inspection - Proposed	03/17/2014 07:00	03/17/2014 23:00	1	12 - 12	76	76
DSS 65	Antenna Inspection - Proposed	03/18/2014 07:00	03/18/2014 23:00	1	12 - 12	77	77
DSS 63	Antenna Inspection - Proposed	03/19/2014 07:00	03/19/2014 23:00	1	12 - 12	78	78
DSS 54	Antenna Inspection - Proposed	03/20/2014 07:00	03/20/2014 23:00	1	12 - 12	79	79
DSS 55	Antenna Inspection - Proposed	03/24/2014 07:00	03/24/2014 15:00	0	13 - 13	83	83
DSS 65	Antenna Inspection - Proposed	03/25/2014 07:00	03/25/2014 15:00	0	13 - 13	84	84
DSS 54	Antenna Inspection - Proposed	03/26/2014 07:00	03/26/2014 15:00	0	13 - 13	85	85
DSS 63	Grouting - Proposed	11/03/2014 06:00	11/28/2014 17:00	25	45 - 48	307	332
DSS 63	S-Band Maser Replacement - NIB	11/03/2014 06:00	11/28/2014 17:00	25	45 - 48	307	332
DSS 14	70M Tune-up/Calibration - Proposed	12/01/2014 15:00	12/15/2014 00:00	13	49 - 51	335	349



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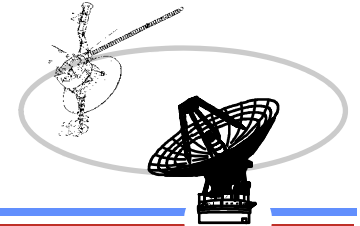
DSN Downtime 2015

2015							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 55	80 kW Facility Prep - NIB	03/09/2015 06:00	06/26/2015 17:00	109	11 - 26	68	177
DSS 55	AZ Track Replacement - NIB	03/09/2015 06:00	06/26/2015 17:00	109	11 - 26	68	177
DSS 55	RF Reconfiguration Prep - Proposed	03/09/2015 06:00	06/26/2015 17:00	109	11 - 26	68	177
DSS 43	70m Tune-up/Callibration - Proposed	03/09/2015 21:00	03/21/2015 06:00	11	11 - 12	68	80
DSS 63	70m Tune-up/Calibration - NIB	05/04/2015 06:00	05/17/2015 17:00	13	19 - 20	124	137
DSS 63	Grouting - Proposed	05/04/2015 06:00	05/17/2015 17:00	13	19 - 20	124	137
DSS 14	Antenna Inspection - Proposed	05/25/2015 15:00	05/26/2015 06:00	1	22 - 22	145	146
DSS 26	Antenna Inspection - Proposed	05/26/2015 15:00	05/27/2015 06:00	1	22 - 22	146	147
DSS 25	Antenna Inspection - Proposed	05/27/2015 15:00	05/28/2015 06:00	1	22 - 22	147	148
DSS 15	Antenna Inspection - Proposed	05/28/2015 15:00	05/29/2015 06:00	1	22 - 22	148	149
DSS 27	Antenna Inspection - Proposed	05/29/2015 15:00	05/30/2015 06:00	1	22 - 22	149	150
DSS 14	Antenna Inspection - Proposed	06/01/2015 15:00	06/02/2015 00:00	0	23 - 23	152	153
DSS 26	Antenna Inspection - Proposed	06/02/2015 15:00	06/03/2015 00:00	0	23 - 23	153	154
DSS 24	Antenna Inspection - Proposed	06/03/2015 15:00	06/04/2015 06:00	1	23 - 23	154	155
DSS 15	Antenna Inspection - Proposed	06/04/2015 15:00	06/05/2015 00:00	0	23 - 23	155	156
DSS 27	Antenna Inspection - Proposed	06/05/2015 15:00	06/05/2015 23:00	0	23 - 23	156	156
DSS 63	Grouting - Proposed	08/03/2015 05:00	08/16/2015 17:00	14	32 - 33	215	228
DSS 65	Maser Replacement - Proposed	08/17/2015 06:00	10/23/2015 17:00	67	34 - 43	229	296
DSS 45	Maser Replacement - Proposed	11/02/2015 21:00	01/16/2016 06:00	74	45 - 02	306	16



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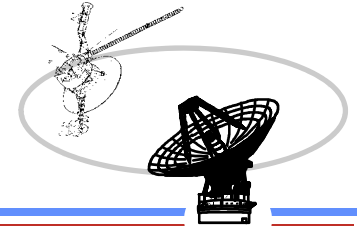
DSN Downtime 2016

2016							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	Antenna Inspection - Proposed	01/04/2016 22:00	01/05/2016 14:00	1	01 - 01	4	5
DSS 34	Antenna Inspection - Proposed	01/05/2016 22:00	01/06/2016 14:00	1	01 - 01	5	6
DSS 45	Antenna Inspection - Proposed	01/06/2016 22:00	01/07/2016 14:00	1	01 - 01	6	7
DSS 35	Antenna Inspection - Proposed	01/07/2016 22:00	01/08/2016 14:00	1	01 - 01	7	8
DSS 43	Antenna Inspection - Proposed	01/11/2016 22:00	01/12/2016 06:00	0	02 - 02	11	12
DSS 34	Antenna Inspection - Proposed	01/12/2016 22:00	01/13/2016 06:00	0	02 - 02	12	13
DSS 63	Grouting - Proposed	05/02/2016 06:00	05/29/2016 17:00	27	18 - 21	123	150
DSS 15	Transmitter Replacement - Proposed	10/03/2016 15:00	01/13/2017 00:00	101	40 - 02	277	13
DSS 63	Grouting - Proposed	10/31/2016 06:00	11/25/2016 17:00	25	44 - 47	305	330
SPC 40	UPS Installation - Proposed	11/02/2016 21:00	11/03/2016 09:00	0	44 - 44	307	308
SPC 40	UPS Installation - Proposed	11/16/2016 21:00	11/17/2016 09:00	0	46 - 46	321	322
SPC 40	UPS Installation - Proposed	11/30/2016 21:00	12/01/2016 09:00	0	48 - 48	335	336



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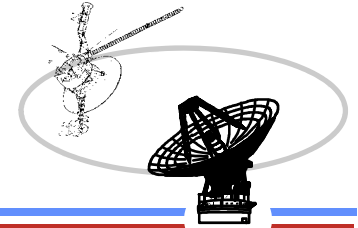
DSN Downtime 2017

2017							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 45	Transmitter Replacement - Proposed	01/16/2017 21:00	04/08/2017 06:00	81	03 - 14	16	98
DSS 63	HBA Upgrade and Life Extension - Proposed	01/30/2017 06:00	09/08/2017 17:00	221	05 - 36	30	251
DSS 63	Maser Replacement - NIB	01/30/2017 06:00	09/08/2017 17:00	221	05 - 36	30	251
DSS 55	Antenna Inspection - Proposed	08/28/2017 07:00	08/28/2017 23:00	1	35 - 35	240	240
DSS 65	Antenna Inspection - Proposed	08/29/2017 07:00	08/29/2017 23:00	1	35 - 35	241	241
DSS 63	Antenna Inspection - Proposed	08/30/2017 07:00	08/30/2017 23:00	1	35 - 35	242	242
DSS 54	Antenna Inspection - Proposed	08/31/2017 07:00	08/31/2017 23:00	1	35 - 35	243	243
DSS 55	Antenna Inspection - Proposed	09/04/2017 07:00	09/04/2017 15:00	0	36 - 36	247	247
DSS 63	Antenna Inspection - Proposed	09/05/2017 07:00	09/05/2017 15:00	0	36 - 36	248	248
DSS 54	Antenna Inspection - Proposed	09/07/2017 07:00	09/07/2017 15:00	0	36 - 36	250	250
DSS 65	Transmitter Replacement - Proposed	09/11/2017 06:00	12/01/2017 17:00	81	37 - 48	254	335



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



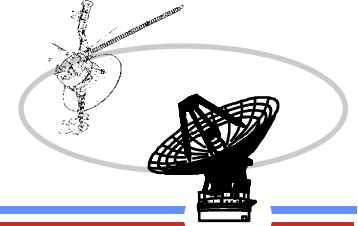
DSN Downtime 2018

2018							
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	Pedestal Rehab	01/08/2018 06:00	09/28/2018 17:00	263	02 - 39	8	271
DSS 25	AZ Track Replacement - Proposed	01/29/2018 15:00	04/07/2018 00:00	67	05 - 14	29	97
DSS 25	XX/Ka Installation - NIB	01/29/2018 15:00	04/07/2018 00:00	67	05 - 14	29	97
DSS 14	Antenna Inspection - Proposed	04/08/2018 15:00	04/09/2018 06:00	1	14 - 15	98	99
DSS 26	Antenna Inspection - Proposed	04/09/2018 15:00	04/10/2018 06:00	1	15 - 15	99	100
DSS 25	Antenna Inspection - Proposed	04/10/2018 15:00	04/11/2018 06:00	1	15 - 15	100	101
DSS 15	Antenna Inspection - Proposed	04/11/2018 15:00	04/12/2018 06:00	1	15 - 15	101	102
DSS 27	Antenna Inspection - Proposed	04/12/2018 15:00	04/13/2018 06:00	1	15 - 15	102	103
DSS 14	Antenna Inspection - Proposed	04/15/2018 15:00	04/16/2018 00:00	0	15 - 16	105	106
DSS 26	Antenna Inspection - Proposed	04/16/2018 15:00	04/17/2018 00:00	0	16 - 16	106	107
DSS 24	Antenna Inspection - Proposed	04/17/2018 15:00	04/18/2018 06:00	1	16 - 16	107	108
DSS 27	Antenna Inspection - Proposed	04/18/2018 15:00	04/19/2018 00:00	0	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 - Proposed	04/30/2018 15:00	07/07/2018 00:00	67	18 - 27	120	188
DSS 34	Ka2 Tune-up - Proposed	06/04/2018 21:00	06/16/2018 06:00	11	23 - 24	155	167
DSS 54	Ka2 Tune-up - NIB	09/03/2018 06:00	09/17/2018 17:00	14	36 - 38	246	260



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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

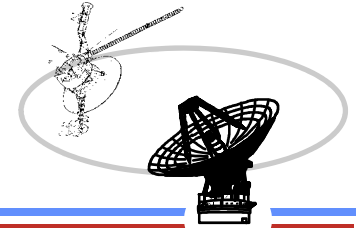
- ❑ DSS-35 80kW Installation 2016 – A placeholder has been set awaiting dates

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



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Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix by Subnet

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	TBD
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	10/01/15
40	DSS-33*	34B2	N/A	N/A	10/01/19	10/01/19	10/01/19	N/A	N/A	N/A	TBD
40	DSS-35*	34B2	N/A	N/A	09/29/14	09/29/14	09/29/14	N/A	N/A	N/A	10/01/16
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
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	10/01/17
60	DSS-56*	34B2	N/A	N/A	09/28/20	09/28/20	09/28/20	N/A	N/A	N/A	TBD
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 = Not Applicable or Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 11/28/2012
 ✓✓✓ = Capability Recently Exists ✓ = Capability Exists * = To Be Commissioned