

A photograph of a large satellite dish antenna, likely a radio telescope, silhouetted against a vibrant sunset or sunrise. The dish is angled upwards, and its support structure is illuminated from within, casting a warm glow. In the background, dark mountain silhouettes are visible against a sky filled with orange and yellow clouds.

JOINT USERS RESOURCE ALLOCATION PLANNING (JURAP) MEETING

OCTOBER 18, 2001

Jet Propulsion Laboratory
California Institute of Technology

4800 Oak Grove Drive
Pasadena, CA 91109-8099

(818) 354-4321



November 1, 2001
Refer to: 930-01-017-ESB/JV:lc

TO: Distribution

FROM: Eugene S. Burke

SUBJECT: Minutes for the Joint Users Resource Allocation Planning Committee Meeting held October 18, 2001.

NEXT JURAP MEETING:
Thursday, November 15, 2001
JPL Bldg. 303, Room 411 B 1:00 p.m.

Attendees:

R. Bartoo	J. Hall	G.Martinez	S. Waldherr
E. Burke	D.Hill	K.Moyd	
D.Doody	K.Kim	M. Slade	
B. Compton	N. Lacey	J. Valencia	

The Joint Users Resource Allocation Planning Committee meets monthly to review the status of Flight Projects, the requirements of other resource users, and to identify future requirements and outstanding conflicts. The last regular meeting was held on October 18, 2001 at the Jet Propulsion Laboratory.

Introductory Remarks - E. Burke

Gene welcomed everyone to the JURAP meeting. JPL budgets are being worked. Work on conflict resolution continues and DSS-63 returned to Operations a few days earlier than planned.

RARB Action Items - D. Morris

Dave Morris summarized the 10 Actions Items assigned by the August RARB. Action Item #5 is closed and Action Item #4 is being worked by Resource Allocation Planning. The feasibility of using DSS-24 to resolve contention #47, Action Item #9 will be investigated.

Resource Analysis Team - K. Kim

On-going activities include MADB/TIGRAS testing and training. The special load studies in progress include Galileo extended mission, IMAGE extended mission, and Genesis backup return study. Week 01 2002 was released to the DSN October 15, 2001. Week 02 will be released on October 22, 2001. Week 16 through week 18 2002, will begin negotiations in November 2001.

DSS Downtime Forecast – J. Valencia

DSS-63 returned to Operations December 10, 2001, on schedule. DSS-16 is scheduled for downtime from November 19 to December 16, 2001, for servo drive replacement. Major antenna downtimes scheduled in 2002 include six NSP implementation tasks.

Goldstone Solar System Radar - M. Slade

Mercury Relativity supports are planned for October 23 and October 27, 2001. Goldstone Solar System Radar (GSSR) will reformat Midrange View Periods per specifications as posted on the Project Data Management System web page. In addition, preliminary acceptance testing of the Block V Receiver software for GSSR was successful.

Radio Astronomy / Special Activities - G. Martinez

The DSN supported one Time and Earth Motion Precision Observation (TEMPO) activity in September with 99% of data time utilized. The DSN did not support Cat M & E in September. In support of the Space Geodesy Program, DSS-65 provided support with 98% of time utilized.

George Martinez underscored the importance of TEMPO and Catalog M&E supports and stressed that the DSN is not meeting TEMPO and Catalog M&E data collection requirements.

FLIGHT PROJECTS REPORTS***MAP, ACE, IMAGE, HESSI - S Waldherr***

HESSI mid-December launch date is very tentative and is likely to slip into early 2002.

MAP spacecraft operations are nominal. The Project declared spacecraft arrival at L-2 point on October 1, 2001. MAP is now in the science mission phase. In addition, testing of the new UPL command system is planned at Goldstone for October.

ACE spacecraft operations are nominal. The 26m-automation demonstration tracks are on going. Demonstration tracks using the new UPL D2 command system are planned in October 2001 at Goldstone.

IMAGE spacecraft operations are nominal. 26m-automation demonstration tracks are on going. Demonstration tracks using the new UPL D2 command system are planned in October 2001, at Goldstone.

Galileo – B. Compton

Galileo marked its 12th anniversary on October 18, 2001. Galileo routine activities include attitude maintenance turn, propulsion maintenance activities, and gyro performance tests. A flight software

patch for the State Imaging subsystem was uploaded. Orbit Trim Maneuver (OTM-12) was successfully executed. Io encounter (I-32) was successfully supported on October 15, 2001, with an altitude of 181km - the closest Io encounter to date.

Deep Space 1 (DS1) – K. Moyd

DS1 successfully encountered Comet Borrelly on September 22, 2001, with a flyby distance of approximately 2240km. All encounter data has since been returned. The Project commanded the Ka-band downlink to provide requested engineering support at DSS-25 and DSS-13. Near-term plans include the calibration of the Infrared Spectrograph instrument, and performing Ion engine testing.

Voyager – J. Hall

Voyager 1 and Voyager 2 operational status is nominal and overall DSN support is good. Voyager 1 heliocentric distance is 82.6 astronomical units (AU) with a round trip light time (RTLT) of approximately 23h 2m. Voyager 2 heliocentric distance is 65 AU with a RTLT of approximately 8h 7m.

Cassini - D. Doody

Excellent support provided by the DSN this reporting period. Operations are essentially nominal and minor S/C instrument anomalies and recoveries are worked near real time. Cassini is in Quiet Cruise Subphase through July 8, 2002. Cassini celebrated four years of in-flight operations. Cassini successfully demonstrated the new X-band uplink capability at DSS-63. The Resource Allocation and Planning inputs are up to date. In addition, Probe Relay S-band U/L tests are scheduled at DSS-24 in November 2001.

No oral presentation was given, but back-up material is included in the Minutes web document for:

DSN Operations – J. Hodder***Stardust - R. Ryan******Mars Mission Management Office (MMO) - E. Brower***

No report was given for the following Projects:

Chandra - G. Wright***ISTP, WIND, POLAR, SOHO, GEOTAIL, Cluster II – A. Chang******Genesis – S. Lopez******Ulysses - I. J. Webb******U. S. Space VLBI - V. Altunin******The next JURAP meeting will be held:***

***Thursday, November 15, 2001 at JPL
in Bldg. 303, Room 411, at 1:00 p.m.***

PLEASE NOTE: THERE WILL BE NO JURAP MEETING IN DECEMBER!

Note: If you would like to participate in the meeting by teleconferencing, call (818) 354-2626 any time during meeting to be connected.

ACE

Afkhami, F.	GSFC m/s 428.2
Machado, M. J.	GSFC m/s 428.2
Myers, D. A.	GSFC m/s 428.2
Sodano, R. J.	GSFC m/s 581.0

Canberra Deep Space Communications Complex

Churchill, P.	CDSCC
Jacobsen, R.	CDSCC
O'Brien, J. J.	CDSCC
Ricardo, L.	CDSCC
Robinson, A.	CDSCC
Wiley, B.	CDSCC

Cassini

Arroyo, B.	264-235
Chin, G. E.	230-310
Doody, D. F.	230-310
Frautnick, J. C.	230-301
Gustavson, R. P.	230-301
Maize, E. H.	230-104
Mitchell, R. T. (PM)	230-205
Webster, J. L.	230-104

Chandra

Gage, K. R.	SAO
Lavoie, A. R. (PM)	MSFC Org. FD03
Marsh, K.	SAO
Weisskopf, M. C. (PS)	MSFC Org. SD50
Wicker, D.	SAO
Wright, G. M.	MSFC Org. FD03

Deep Space 1

Hunt, J. C.	230-207
Moyd, K. I.	230-207
Rayman, M. D. (PM)	230-207
Tay, P.	264-235
Yetter, K. E.	264-235

DSMS / Mission Management Office

Rosell, S. N.	264-235
Varghese, P.	264-235

Europa

McNamee, J.B. (PM)	301-335
Simpson, K.A.	301-335

Galileo

Compton, B.	230-102
Huynh, J. C.	230-102
McClure, Jr., J. R.	230-102
Medina-Gussie, M.	301-371
Paczkowski, B. G.	230-260
Pojman, J. L.	238-538
Theilig, E. E. (PM)	264-525

Genesis

Arroyo, B.	264-235
Burnett, D. S.	CIT 170-25
Hirst, E. A.	301-180
Sasaki, C. N. (PM)	264-370
Sweetnam, D. N.	264-370
Tay, P.	264-235
Yetter, K. E.	264-235

Goldstone Deep Space Communications Complex

DePriest, M.	DSCC-37
Holmgren, E.	DSCC-25
Massey, K.	DSCC-61
McConahy, R.	DSCC-33
McCoy, J.	DSCC-57
Sturgis, L.	DSCC-33

Goldstone Orbital Debris Radar (GODR)

Goldstein, R. M. (PM)	300-227
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Goldstone Solar System Radar (GSSR)

Haldemann, A. F.	238-420
Hills, D. L.	238-420
Ostro, S. J. (PS)	300-233
Slade, III, M. A. (PM)	238-420
Wolken, P. R.	507-105

Gravity Probe-B

Keiser, M. (PS)	Stanford Univ.
Shapiro, Prof. I. I.	Harvard Univ.

IMAGE

Abramo, C. A.	507-120
Burley, R. J.	GSFC m/s 632.0
Green, J. L.	GSFC m/s 630

IPN-ISD / General

Doms, P. E.	303-400
Polansky, R. G.	303-400
Stelzried, C. T.	303-407
Webber, III, W.J.	303-400

IPN-ISD / DSMS Engineering

Freiley, A. J.	303-404
Kimball, K. R.	303-404
Klose, J. C.	303-404
Kurtik, S. C.	303-210
Osmann, J. W.	303-210
Sible, Jr., R. W.	303-404
Statman, J. I.	303-404

IPN-ISD / DSMS Operations

Almassy, W. T.	502-420
Berman, A. L.	303-403
Covate, J. T.	507-120
Dillard, D. E.	507-120
Frazier, R.	507-120

Gillam, I. T.	502-400
Green, J. C.	507-120
Hodder, J. A.	303-403
Knight, A. G.	507-120
Landon, A. J.	507-105
Martinez, G.	507-120
Nevarez, R. E.	502-400
Recce, D. J.	303-403
Roberts, J. P.	502-400
Salazar, A. J.	303-403
Schroeder, H. B.	507-120
Short, A. B.	507-120
Wackley, J. A.	303-403
Waldherr, S.	507-120
Watzig, G. A.	502-420
Wert, M.	502-420

IPN-ISD DSMS Plans & Commitments

Abraham, D. S.	303-402
Altunin, V. I.	303-402
Bathker, D. A.	303-402
Benson, R. D.	303-402
Beyer, P. E.	303-402
Black, C. A.	303-402
Cesarone, R. J.	303-402
Chang, A. F.	303-402
Gillette, R. L.	303-402
Griffith, D. G.	303-402
Holmes, D. P.	303-402
Kazz, G. J.	303-402
Luers, E. B.	303-402
Miller, R. B.	303-402
Peng, T. K.	303-402
Poon, P. T.	303-402
Slusser, R. A.	303-402
Wessen, R. R.	303-402
Yetter, B. G.	303-402

IPN-ISD / DSMS RAPSO

Bartoo, R. H.	303-403
Borden, C. S.	301-165
Burke, E. S.	303-403
Caputo, R.	514-200
Hampton, E.	600-174
Hincy, W.	600-174
Hungerford, R. M.	303-402
Kehrbaum, J. M.	301-180
Kim, K.	600-174
Lacey, N.	600-174
Leppla, F. B.	600-174
Lineaweafer, S.	600-174
Martinez, K. A.	600-174
Morris, D. G.	303-403
Valencia, J.	600-174
Wang, Y-F.	301-165
Zendejas, S. C.	301-165

ISTP (Cluster II)

Abramo, C. A.	507-120
Christensen, J. L.	GSFC m/s 404.0
Dutilly, R. N.	GSFC m/s 581.1
Gurnett, D.	U. of Iowa
Mahmot, R. E. (Acting PM)	GSFC m/s 444.0
Pickett, J.	U. of Iowa

ISTP (GEOTAIL/POLAR/SOHO/WIND)

Abramo, C. A.	507-120
Alexander, H.	502-320
Bush, R. I.	Stanford Univ.
Carder, M. E.	GSFC 450.C
Dutilly, R. N.	GSFC m/s 581.1
Hearn, S. P.	GSFC m/s 450.C
Mahmot, R. E.	GSFC m/s 444.0
Milasuk-Ross, J.	GSFC m/s 428.5
Miller, K. A.	GSFC m/s 450.C
Mish, W. H.	GSFC m/s 690.0
Nace, E. M.	GSFC m/s 450.8
Pukansky, S. M.	GSFC m/s 450.C

JPL/General

Burgess, L. N.	230-107
Burton, M. E.	169-506
Finley, S. G.	11-116
Gershman, R.	264-440
Holladay, J. A.	303-404
Jurgens, R. F.	238-420
Kahn, P. B.	301-486
Kliore, A. J.	161-260
Kobrick, M.	300-233
Moore, W. V.	161-260
Morabito, D. D.	161-260
Naudet, C. J.	238-600
Resch, G. M.	238-600
Robbins, P. E.	161-260
Silva, A.	149-200
Smith, J. L.	301-180
Taylor, A. H.	264-538
Toyoshima, B.	301-276
Winterhalter, D.	169-506
Woo, H. W.	126-110
Yung, C. S.	238-808

Madrid Deep Space Communications Complex

Chamarro, A.	MDSCC
Rosich, A.	MDSCC

MAP

Abramo, C. A.	507-120
Citrin, E. A. (PM)	GSFC m/s 410.2
Coyle, S. E.	GSFC m/s 581.0
Dew, H. C.	GSFC m/s 423.0

Mars Exploration Rover (MER A & B)

Adler, M.	T-1723
Arroyo, B.	264-235
Chadbourne, P.	230-207
Crisp, J. A. (PS)	241-105
Erickson, J. K.	T-1723
Ludwinski, J.B.	T-1722
Roncoli, R. B.	301-140L
Theisinger, P. C. (PM)	301-455

Mars Express Orbiter

Horttor, R. L. (PM)	238-540
Thompson, T. W.	300-227

Mars Global Surveyor

Albee, A. (PS)	264-282
Arroyo, B.	264-235
Brower, E. E.	264-235
Thorpe, T. E. (PM)	264-214
Yetter, K. E.	264-235

Mars Program Office

Cutts, J. A.	264-426
Jordan, Jr., J. F.	264-472
McCleese, D. J.	264-426
Naderi, F. M.	264-438

Mars Reconnaissance Orbiter Project

Arroyo, B.	264-235
Graf, J. E. (PM)	264-440
Johnston, M. D.	301-140L
Lock, R. E.	301-140L

Mars 2001 Odyssey Mission

Arroyo, B.	264-235
Gibbs, R.G. (PM)	264-255
Harris, J. A.	301-455
Mase, R. A.	264-380
Nakata, A. Y.	264-235
Spencer, D. A.	264-255

NASA Headquarters

Costrell, J. A.	Code MT
Geldzahler, B.	Code SR
Hertz, P.	Code SR
Holmes, C. P.	Code SR
Spearing, R. E.	Code M-3

NASA/ARC/General

Campo, R. A.	ARC 244-14
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NASA/GSFC/General

Barbehenn, G. M.	GSFC m/s 440.8
Levine, A. J.	GSFC m/s 452.0
Martin, J. B.	GSFC m/s 451.0

NASA/SOMO

Dalton, J. T.	GSFC m/s 720.0
Dowen, A. Z.	303-400
Hall, V. F.	JSC Code TG
Morse, G. A.	JSC Code TA
Thompson, E. W.	JSC Code GA

NOZOMI (Planet B)

Tay, P.	264-235
Yetter, K. E.	264-235

Radio Astronomy

Klein, M. J. (PM)	303-402
Kuiper, T. B. (PS)	169-506
Martinez, G.	507-120
Wolken, P. R.	507-105

Space Infrared Telescope Facility (SIRTF)

Arroyo, B.	264-235
Ebersole, M. M.	264-767
Gallagher, D. B. (PM)	264-767
Kwok, J. H.	264-767

StarLight Mission

Deutsch, M. C.	301-250D
Livesay, L. L. (PM)	301-451
Spradlin, G. L.	303-402

Stardust

Duxbury, T. C. (PM)	264-379
Ryan, R. E.	301-285
Tay, P.	264-235
Yetter, K. E.	264-235

Ulysses / Voyager

Bray, T. L.	264-114
Brymer, B. F.	264-114
Cummings, A. C.	CIT 220-47
Hall, Jr., J. C.	264-801
Massey, E. B. (PM)	264-801
Nash, J. C.	264-114
Smith, E. J. (PS - ULS)	169-506
Stone, E.C. (PS - VGR)	CIT 220-47
Webb, I. J.	264-114

U.S. Space VLBI

Altunin, V. I.	303-402
Miller, K. J.	264-828
Preston, R.A. (PS)	238-332
Smith, J. G. (PM)	264-828

Other Organizations

Crimi, G. F.	SAIC
Laemmel, G.	DLR-GSOC
Wanke, H.	DLR-GSOC

Please mark any additions, deletions, or corrections to this distribution list and return to:

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TELECOMMUNICATIONS AND MISSION OPERATIONS DIRECTORATE

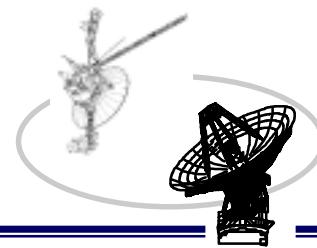
Resource Allocation Planning & Scheduling Office (RAPSO)

JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE

Action Item Status From 21 August 2001 RARB

David G. Morris

October 18, 2001

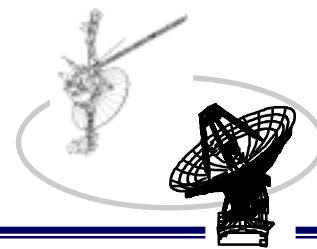


Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
01 All	2003	pre-Nov. '03	All	All	DSS	A. Salazar	10/21/2001	Open

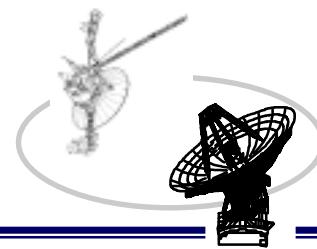
ACTION: DSMS Operations Office shall assess the overall impact of the recommendations to reduce Preventative Maintenance on the all Subnets and to provide the Resource Allocations Planning Team with a risk and budgeting assessment of whether additional maintenance hours are needed. The board noted that many of the Contentions identified in 2003 use DSS Maintenance to relieve the over-subscription and requested that they evaluate the readiness needed to prepare for the expected sustained high use in late 2003 through early 2004. This action should reference the opportunity to perform maintenance activities during extended downtime for all antennas in the nine-month period in late 2002 through early 2003.



Action Item Summary

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
02	N/A	N/A		70M	SVLB	V. Altunin	10/21/2001	Open

ACTION: Request change of name from Space VLBI to something without the word Space. The name causes confusion between two separate but required activities. One is to provide support to an orbiting spacecraft (HALCA, a.k.a. VSOP); the DSN uses 11 meter and 26 meter antennas to track the spacecraft. The second is to co-observe the same radio source as the spacecraft with ground-based radio telescopes; the DSN currently supports using 70-meter antennas at certain frequencies.



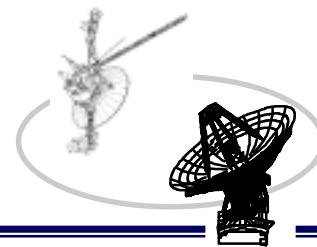
Action Item Summary

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
03 14	2003	June – July	26-29	34H	MER	BJ. Erickson	9/21/2001	Open

ACTION:MER B shall specify the launch period for the spacecraft. This will clarify the contention and may alter the recommendation for this period.

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
04 16	2003	Oct. – Nov.	43-46	34H	RAT	N. Lacey	10/21/2001	Open

ACTION: Resource Analysis Team shall redistribute the support load so that MER A receives no greater than 20 percent of its support using DSS-55. In addition, MER B noted that they could be scheduled on DSS-55 to support subnet overloads as necessary.



Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

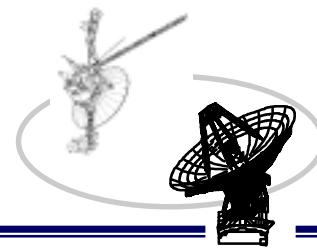
<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
05 27,31	2003	Sept. – Dec.	39-51	26M	RAT SOHO	N. Lacey R. Bush	9/14/2001	Closed

ACTION: Due to RARB recommended and project acceptance of deletion for the last four weeks of Helio-Seismology Observation (HSO) in 2003, the SOHO project requested another 30-day period earlier in 2003 to replace this lost observation.

RESPONSE: SOHO accepted the alternate recommendation of continuous coverage during weeks 4-7 (Jan. - Feb.) in 2003.

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
06 41	2004	January	1	34H	CAS DEEP MER A/B	R. Mitchell J. McKinney J. Erickson	9/21/2001	Open

ACTION: MER A & B in their Approach phase shall resolve contention support from Canberra and Spain in the first 6 days of week 1 in 2004 with Cassini Gravitational Wave Experiment and Deep Impact's use of two 34 meter antennas for initial acquisition (Canberra).



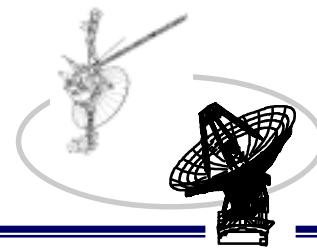
Action Item Summary

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
07 41-44	2004	January	1-4	34H	MER A/B CAS	J. Erickson R. Mitchell	7/1/2002	Open

ACTION:Provide MER A & B Landing Site coordinates. This will allow better planning of antenna usage in January 2004 during surface operations.

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
08 46	2004	January	1	34B1	MER A NOZO	J. Erickson A. Chang	10/21/2001	Open

ACTION:MER A to study impact of either removing DSS-24 from EDL array in order to provide post MOI support to Nozomi TCM or to investigate the option of maintaining the array while providing MSPA and uplink support to Nozomi from DSS-24.



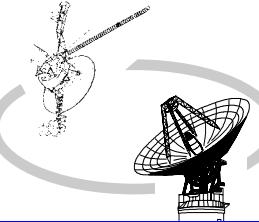
Action Item Summary

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
09 47	2004	January	2	34B1	DEEP MEX	J. McKinney R. Horttor	2/1/2002	Open

ACTION:Deep Impact shall evaluate the impact of taking regular gaps in post-launch coverage due to Mars Express Orbiter's post MOI support needs over DSS-54.

<i>AI#CP#</i>	<i>Year</i>	<i>Month(s)</i>	<i>Week(s)</i>	<i>Subnet</i>	<i>System</i>	<i>Responsible</i>	<i>Due Date</i>	<i>Status</i>
10 49	2004	January	4	34B1	ULYS	I.J. Webb	10/21/2001	Open

ACTION:Ulysses shall investigate the possibility of using a non-DSN antenna for support or taking a regular two hour gap at Madrid (DSS-54).



JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE

Resource
Analysis Team

October 18, 2001

Kevin Kim



DSN User / Mission Planning Set

2001 - 2011

ONGOING/PLANNED PROJECTS					
Project	Acronym	Launch or Start	EOPM	EOEM	
DSN VLBI Clock Sync and Catalog M&E	DSN	--	--	--	
DSS Maintenance	DSS	--	--	--	
European VLBI Network	EVN	--	--	--	
Ground Based Radio Astronomy	GBRA	--	--	--	
Space Geodesy	SGP	--	--	--	
Voyager 2	VGR2	08/20/77	10/15/89	12/31/19	
Voyager 1	VGR1	09/05/77	12/31/80	12/31/19	
Goldstone Solar System Radar	GSSR	04/01/85	--	--	
Galileo	GLLO	10/18/89	12/07/97	09/21/03	
Ulysses	ULYS	10/06/90	09/11/95	12/31/04	
ISTP - Geotail	GTL	07/24/92	07/24/95	09/30/05	
ISTP - Wind	WIND	11/01/94	11/01/97	09/30/05	
Space VLBI	SVLB	02/01/95	12/31/03	---	
ISTP - SOHO	SOHO	12/02/95	05/02/98	12/30/05	
ISTP - Polar	POLR	02/22/96	08/23/97	09/30/05	
Gravity Probe B	GPB	06/01/96	10/31/03	TBD	
Mars Global Surveyor	MGS	11/07/96	02/01/01	06/01/04	
Highly Advanced Laboratory for Communications and Astronomy	VSOP	02/12/97	09/30/01	02/28/02	
Advance Composition Explorer	ACE	08/25/97	02/01/01	01/31/05	
Cassini	CAS	10/15/97	06/30/08	06/30/10	
Nozomi (Planet-B)	NOZO	07/03/98	12/31/05	TBD	
Deep Space 1	DS1	10/24/98	09/19/99	12/06/01	
Stardust	SDU	02/07/99	01/14/06	---	
Chandra X-ray Observatory	CHDR	07/23/99	07/23/04	07/23/09	
Imager for Magnetopause-to-Aurora Global Exploration	IMAG	03/25/00	05/30/02	05/30/04	
Cluster 2 - S/C #2 (Samba)	CLU2	07/16/00	02/15/03	09/19/05	
Cluster 2 - S/C #3 (Rumba)	CLU3	07/16/00	02/15/03	09/19/05	
Cluster 2 - S/C #1 (Salsa)	CLU1	08/09/00	02/15/03	09/19/05	
Cluster 2 - S/C #4 (Tango)	CLU4	08/09/00	02/15/03	09/19/05	
2001 Mars Odyssey	M01O	04/07/01	08/01/04	09/19/07	
Microwave Anisotropy Probe	MAP	06/30/01	10/01/03	10/01/06	
Genesis	GNS	08/08/01	09/08/04	---	
Comet Nucleus Tour (CONTOUR)	CNTR	07/01/02	09/05/08	TBD	
Space Infrared Telescope Facility	SRTF	07/15/02	09/14/07	---	
RadioAstron*	RADA	10/01/02	10/01/07	TBD	
International Gamma Ray Astrophysics Lab	INTG	10/17/02	12/18/04	12/18/07	
MUSES - C	MUSC	12/14/02	06/05/07	---	
Rosetta	ROSE	01/13/03	07/10/13	---	
Mars Express Orbiter	MEX	05/23/03	02/11/06	08/03/08	
Mars Exploration Rover - A	MERA	05/30/03	04/06/04	---	
Mars Exploration Rover - B	MERB	06/27/03	05/10/04	---	
Deep Impact	DEEP	01/02/04	08/05/05	---	

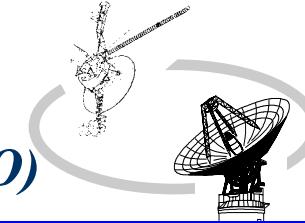
* Planning dates

DSN User / Mission Planning Set

2001 - 2011

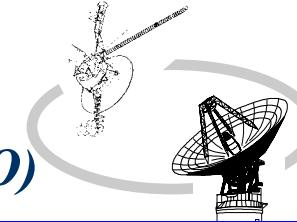
ADVANCED PLANNING PROJECTS					
Project	Acronym	Launch or Start	EOPM	EOEM	
Lunar - A	LUNA	08/09/03	03/03/04	---	
Messenger	MSGR	03/10/04	04/06/10	---	
Mars Reconnaissance Orbiter	MRO	08/08/05	12/31/10		
Stereo Ahead	STA	11/12/05	02/18/08	02/18/11	
Stereo Behind	STB	11/12/05	02/18/08	02/18/11	
StarLight	SL	06/06/06	11/30/06	---	
Mars Smart Lander 2007	M07L	09/04/07	08/19/10	TBD	
Mars Competed Scout 2007	M07S	09/04/07	11/19/08	TBD	
Mars CNES Orbiter 2007	M07O	09/09/07	08/11/08	08/12/10	
Mars ASI/NASA Telecommunications Orbiter 2007	M07T	09/09/07	08/09/18	TBD	
ARISE	ARSE	01/01/08	01/01/13	---	
Highly Advanced Laboratory for Communications and Astronomy	VSP2	01/01/08	01/01/13	---	
Europa Orbiter	EURO	03/15/08	03/10/12	TBD	
Mars ASI/NASA Science Orbiter 2009	M09O	10/04/09	08/29/12	TBD	
Mars CNES MSR Lander 2011	M11L	10/30/11	09/10/14	TBD	
Mars CNES MSR Orbiter 2011	M11O	10/30/11	07/22/14	TBD	

TMOD Resource Implementation Planning Matrix										
Station	Subnet	First Delivery Date	S-Band Down	S-Band Up	X-Band Down	X-Band Up	Ka-Band Down	Ka-Band Up	Ku-Band Up and Down	Close
DSS-14	70M	XXXX	XXXX	XXXX	XXXX	XXXX	TBD	N/A	N/A	N/A
DSS-15	34HEF	XXXX	XXXX	N/A	XXXX	XXXX	TBD	N/A	N/A	N/A
DSS-16	26M	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A
DSS-24	34B1	XXXX	XXXX	XXXX	XXXX	5/1/2003	10/1/2005	N/A	N/A	N/A
DSS-25	34B2	XXXX	N/A	N/A	XXXX	XXXX	XXXX	XXXX	N/A	N/A
DSS-26	34B2	4/2/2003	N/A	N/A	4/2/2003	4/2/2003	4/2/2003	N/A	N/A	N/A
DSS-27	34HSB	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A
DSS-28	34B2	TBD	N/A	N/A	TBD	TBD	N/A	N/A	N/A	N/A
<hr/>										
DSS-33	11M	XXXX	N/A	N/A	XXXX	XXXX	N/A	N/A	XXXX	2/1/2002
DSS-34	34B1	XXXX	XXXX	XXXX	XXXX	XXXX	1/1/2005	N/A	N/A	N/A
DSS-43	70M	XXXX	XXXX	XXXX	XXXX	XXXX	TBD	N/A	N/A	N/A
DSS-45	34HEF	XXXX	XXXX	N/A	XXXX	XXXX	TBD	N/A	N/A	N/A
DSS-46	26M	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A
<hr/>										
DSS-53	11M	XXXX	N/A	N/A	XXXX	XXXX	N/A	N/A	XXXX	2/1/2002
DSS-54	34B1	XXXX	XXXX	XXXX	XXXX	XXXX	8/1/2006	N/A	N/A	N/A
DSS-55	34B2	11/1/2003	N/A	N/A	11/1/2003	11/1/2003	11/1/2003	N/A	N/A	N/A
DSS-63	70M	XXXX	XXXX	XXXX	XXXX	10/11/2001	TBD	N/A	N/A	N/A
DSS-65	34HEF	XXXX	XXXX	N/A	XXXX	XXXX	TBD	N/A	N/A	N/A
DSS-66	26M	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A
<hr/>										
XXXX = Capability Currently Exists N/A = Capability Not Planned										
10/18/2001										



◆ RESOURCE NEGOTIATION STATUS

- 2002 WEEK 1 (THRU 01/06/2002) WAS RELEASED TO DSN ON 10/15/2001
- 2002 WEEK 2 (THRU 01/13/2002) IS DUE TO BE RELEASED ON 10/22/2001
- 2002 WEEKS 16 - 18 (THRU 05/05/2002) WILL GO INTO NEGOTIATIONS STARTING 11/02/2001



◆ **SPECIAL STUDIES/ACTIVITIES**

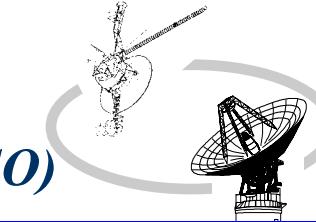
- ULYSSES JUPITER ENCOUNTER

◆ **ON-GOING ACTIVITIES**

- MADB/TIGRAS TESTING AND TRAINING
- DEEP IMPACT LOAD STUDY
- GALILEO EXTENDED MISSION STUDY
- GENESIS BACKUP RETURN STUDY
- IMAGE EXTENDED MISSION
- INTEGRAL LAUNCH CHANGE
- LUNAR-A LOAD STUDY
- MEX LOAD STUDY
- MESSENGER LOAD STUDY
- MRO LOAD STUDY
- MUSES-C PSLA REVIEW
- SGP LOAD STUDY



JPL



Resource Allocation Planning & Scheduling Office (RAPSO)

◆ **RARB – FEBRUARY 12, 2002**

- CONTENTIONS WILL COVER 2003 TO 2005
- TIMELINE WILL BE POSTED ON 11/01/2001

[HTTP://RAPWEB.JPL.NASA.GOV](http://RAPWEB.JPL.NASA.GOV)

JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE

DSN ANTENNA DOWNTIME STATUS

Jose Valencia

October 18, 2001

NASA Jet Propulsion Laboratory

DSN Downtime & Test Schedule is located on the RAP WWW Homepage at: <http://rapweb.jpl.nasa.gov>

Although every effort is made to ensure the accuracy of this Downtime Planning report, changes can and do occur.
J.V. The DSN 7-Day Schedule takes precedence over this document.

DSN ANTENNA DOWNTIME STATUS

MAJOR DSN DOWNTIMES by DATE								
Year	Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
2001	DSS 16	Servo Drive Replacement	11/19/01	12/16/01	28	47-50	323	350
2002	DSS 66	Servo Drive Replacement	06/24/02	07/21/02	28	26-29	175	202
2002	DSS 14	70M Servo Drive Replacement	07/15/02	09/27/02	75	29-39	196	270
2002	DSS 14	NIB - NSP Implementation	07/15/02	09/27/02	75	29-39	196	270
2002	DSS 24	NSP Implementation	10/01/02	11/22/02	53	40-47	274	326
2002	DSS 45	NSP Implementation	10/01/02	11/22/02	53	40-47	274	326
2002	DSS 54	NSP Implementation	10/01/02	11/22/02	53	40-47	274	326
2002	DSS 24	NIB - 20 KW X-Band TXR Installation	10/01/02	11/22/02	53	40-47	274	326
2002	DSS 24	NIB - KA-Band Encoder Mech Mod-Kit Installation	10/01/02	10/20/02	20	40-42	274	293
2002	DSS 54	NIB - KA Band Encoder Mech Mod Kit Installation	10/01/02	10/20/02	20	40-42	274	293
2002	DSS 43	70M Servo Drive Replacement	11/25/02	02/09/03	77	48-06	329	040
2002	DSS 43	NIB - Ball-Joint Pad Refurbishment	11/25/02	02/09/03	77	48-06	329	040
2002	DSS 43	NIB - NSP Implementation	12/02/02	02/09/03	70	49-06	336	040
2002	DSS 65	NSP Implementation	12/02/02	02/09/03	70	49-06	336	040
2003	DSS 63	70M Servo Drive Replacement	02/10/03	04/20/03	70	07-16	041	110
2003	DSS 63	NIB - Ball-Joint Pad Refurbishment	02/10/03	04/20/03	70	07-16	041	110
2003	DSS 63	NIB - NSP Implementation	02/10/03	04/06/03	56	07-14	041	096
2003	DSS 25	NSP Implementation	02/10/03	04/06/03	56	07-14	041	096
2003	DSS 34	NSP Implementation	02/10/03	04/06/03	56	07-14	041	096
2003	DSS 25	NIB - 20 KW X-Band TXR Installation	02/10/03	04/06/03	56	07-14	041	096
2003	DSS 34	NIB - 20 KW X-Band TXR Installation	02/10/03	04/06/03	56	07-14	041	096
2003	DSS 34	NIB - KA-Band Encoder Mech Mod-Kit Installation	02/10/03	03/02/03	21	07-09	041	061
2003	DSS 15	Antenna Controller Replacement	03/03/03	05/04/03	63	10-18	062	124
2003	DSS 15	NIB - NSP Implementation	03/05/03	05/01/03	58	10-18	064	121
2003	DSS 46	Servo Drive Replacement	05/05/03	06/01/03	28	19-22	125	152
2003	DSS 54	20 KW X-Band TXR Installation	07/21/03	08/31/03	42	30-35	202	243
2003	DSS 45	Antenna Controller Replacement	09/08/03	10/25/03	48	37-43	251	298
2004	DSS 65	Antenna Controller Replacement	05/10/04	06/27/04	49	20-26	131	179
2004	DSS 14	Antenna Controller Replacement	07/05/04	10/03/04	91	28-40	187	277

<http://rapweb.jpl.nasa.gov>

DSN ANTENNA DOWNTIME STATUS

- ◆ CHANGES SINCE LAST JURAP
 - ◆ DSS-63 returned to operations October 10 2001 on scheduled

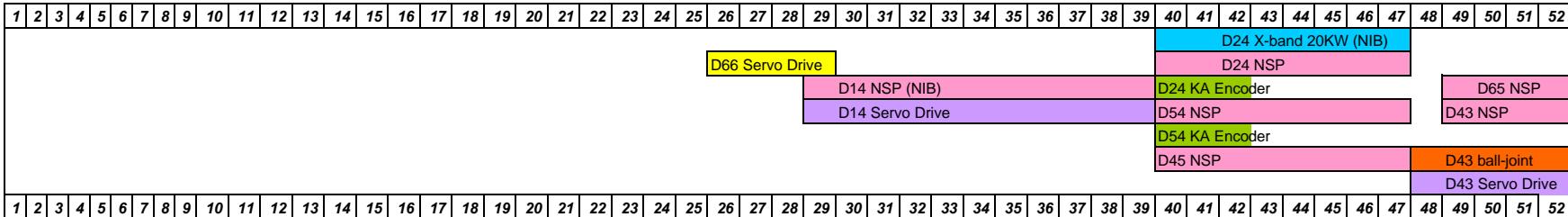
DSN ANTENNA DOWNTIME STATUS

- ◆ TASKS IN PROGRESS OR TASKS REMAINING IN 2001
 - ◆ DSS-16 downtime status ?
 - ◆ DSS-16 scheduled for downtime 11/19/01 to 12/16/01
 - ◆ Servo Drive Replacement.

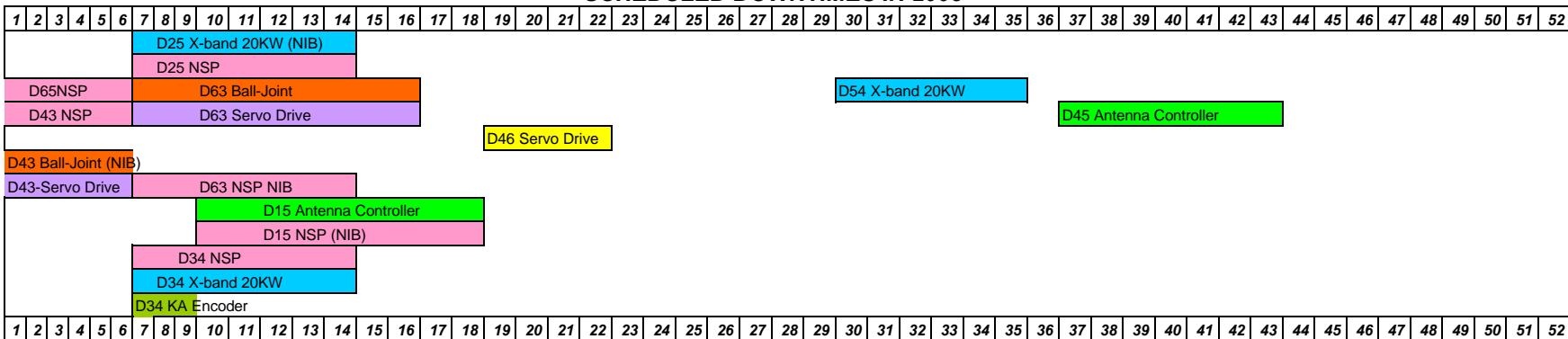
DSN ANTENNA DOWNTIME STATUS

- ◆ SCHEDULED NSP TASKS IN 2002
 - ◆ DSS-14 NSP
 - ◆ DSS-24 NSP
 - ◆ DSS-54 NSP
 - ◆ DSS-45 NSP
 - ◆ DSS-65 NSP
 - ◆ DSS-43 NSP

SCHEDULED DOWNTIMES IN 2002



SCHEDULED DOWNTIMES IN 2003



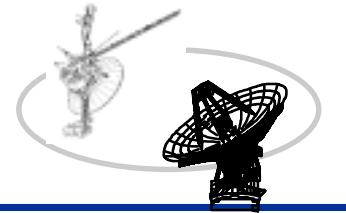
SCHEDULED DOWNTIMES IN 2004



LEGEND	
34M X-Band 20KW	
26M Servo Drive	
NSP	
34M KA Encoder	
70M Ball-Joint	
70M Servo Drive	
34M Ant Controller	

InterPlanetary Network and Information Systems Directorate (IPN-ISD)

Deep Space Mission System Operations Program Office



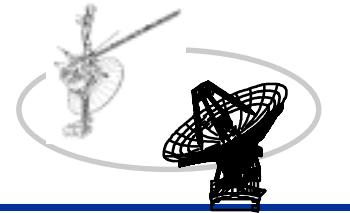
DSN Operations

Jim Hodder

October 18, 2001

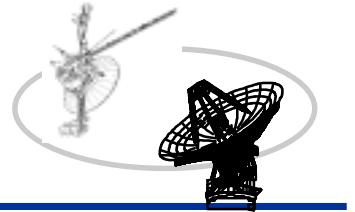
NASA Jet Propulsion Laboratory

JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE



DSN System Availability

<u>Data Type</u>	<u>August 2001</u>	<u>September 2001</u>
Telemetry	98.9%	98.8%
Tracking	99.5%	97.5%
Command	98.0%	98.4%
Monitor	98.7%	99.1%
Radio Science	100%	100%
VLBI	95.2%	96.1%



- Work at DSS 63 for the X-Band uplink task and other work was completed as planned. We appreciate the Projects who cooperated and accommodated early demonstration passes.

Goldstone Solar System Radar

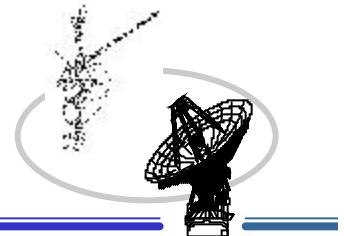


Martin A. Slade

Oct. 18, 2001

NASA Jet Propulsion Laboratory

Joint Users Resource Allocation Planning Committee Meeting



- Preliminary Acceptance Testing of Block V Receiver software modifications for GSSR has been successful. Thanks for much work by the Block V Group, the GSSR CDE and our industry partners at UTA! After an Acceptance Readiness Review, next is SOAK at Goldstone!
- Mercury Relativity tracks are scheduled for Oct. 23 and Oct. 27.
- We have downloaded and will be reformatting our midrange viewperiods according to the specifications on:

<https://www-pdms.jpl.nasa.gov>

Honeywell

Honeywell Technology Solutions Inc.
Pasadena Operations
Program Services



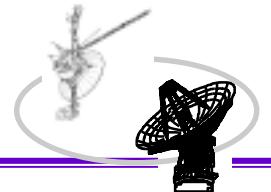
Joint Users Resource Allocation Planning Committee

Radio Astronomy and Special Activities



*George Martinez
October 18, 2001*

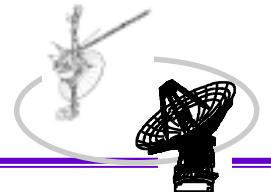
GM-1
10/18/01



TEMPO

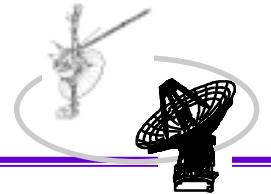
(Time and Earth Motion Precision Observations)

- **Clock Sync**
 - DOY 259
 - No problems were reported by DSS-15.
 - DSS-65 reported a runaway antenna.
 - 99% of time utilized.
 - Tapes sent to JPL correlator for processing.
- **Project Requirements For September Not Met**
 - Only 1 Clock Sync in September.
 - Project requirements are for 1 Clock Sync every other week (2 per month).



Cat M & E

- **Project Requirements Not Met.**
 - Last Catalog pass was DOY 209/210 – 1 Baseline.
 - Project requirements are: both baselines (15/45, 15/65) every 6 weeks.
 - Catalog passes are now overdue.
- **Concern**
 - Next Cat M&E experiment is DOY 314/315 (November 10/11) – 1 baseline.
 - 115 days is too long to go without a Catalog pass.
 - Project requirements are not being met.

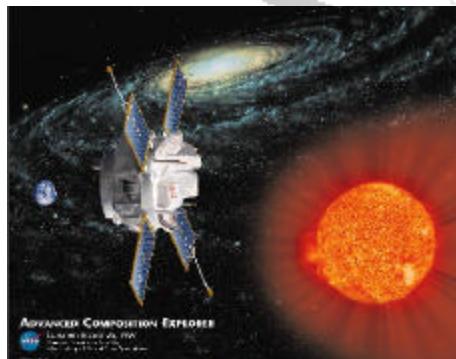


Space Geodesy Program

- Europe-61
 - Europe experiments are designed to determine station coordinates and their evolution in the European geodetic VLBI network with the highest precision possible.
 - DSS-65 reported the antenna reaching Az prelimits.
 - 98% of time utilized.
 - Tape sent to the Bonn Correlator for processing.

INTERPLANETARY NETWORK AND INFORMATION SYSTEMS DIRECTORATE

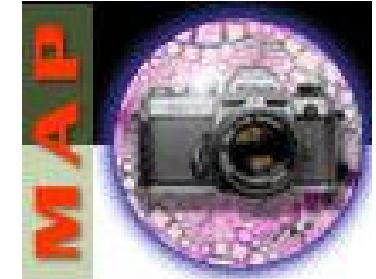
Flight Project Report MAP/ACE/IMAGE



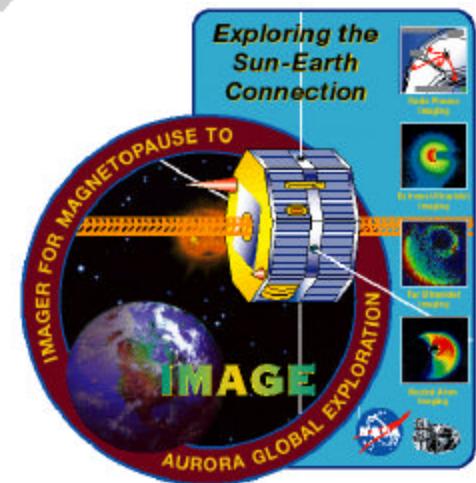
<http://www.srl.caltech.edu/ACE/>

Steve Waldherr
TMS Manager
October 18, 2001

JPL



<http://map.gsfc.nasa.gov/>



<http://pluto.space.swri.edu/IMAGE/>



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InterPlanetary Network and Information Systems Directorate
Deep Space Mission System Program



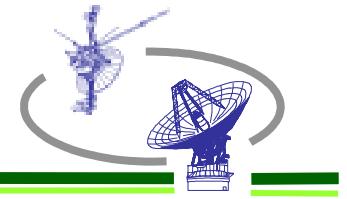
MAP

- **Spacecraft operations continue nominally**
- **MAP Project has declared arrival at the L-2 destination on 1 October 2001.**
- **MAP is currently in the science phase of the mission.**
- **UPL D2 demos are starting this week at Goldstone.**



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InterPlanetary Network and Information Systems Directorate
Deep Space Mission System Program



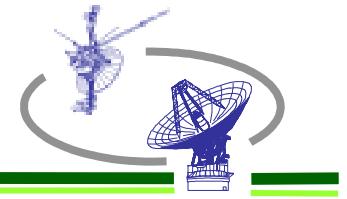
ACE

- ACE operations continue nominally
- ACE 26-meter Automation Demos are ongoing.
- UPL D2 Demos are starting this week.



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InterPlanetary Network and Information Systems Directorate
Deep Space Mission System Program



IMAGE

- **Spacecraft operations continue nominally**
- **26-meter automation demos are ongoing.**
- **UPL D2 Demos are starting this week.**



JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE



Brad Compton
October 18, 2001



NASA Jet Propulsion Laboratory

<http://galileo.jpl.nasa.gov/>



GALILEO EUROPA MISSION

ROUTINE ACTIVITIES

- Attitude maintenance turn
- Propulsion maintenance activities
- DMS conditionings
- Gyro performance test
- Science instrument MROs



GALILEO EUROPA MISSION

SIGNIFICANT EVENTS

- Developed, uplinked and tested a flight software patch to the Solid State Imaging (SSI) subsystem. The patch is designed to minimize signal amplitude in the camera circuitry thought to be the source of anomalies seen in previous encounters.
- Acquired OPNAV images to supplement NAV Doppler data.
- Performed an Orbit Trim Maneuver (OTM-102)
- Very successful Io encounter (I-32) on 15 October, at an altitude of 181 km - closest Io encounter to date.
 - **The only encounter-related problem was one Near Infrared Mapping Spectrometer (NIMS) memory upset, handled by a sequenced reload.**



GALILEO EUROPA MISSION

PROJECT PLANS

- Continue routine activities
- Collect continuous fields and particles data through October 26, at which time we will initiate I-32 playback.
- Next encounter I-33 on 17 January 2002 - planned altitude of 100 km (closer yet).

Deep Space One



<http://nmp.jpl.nasa.gov/ds1/>

Joint Users Resource Allocation Planning Meeting

JPL

Kathy Moyd

October 18, 2001



SPECTRUMASTRO

DEEP SPACE 1

DS1 Status

Previous Month's Activities and Current Status

- Two Short Observations of Borrelly used to confirm trajectory and for determining exposure durations for encounter.
- One IPS (ion engine) TCM.
- Comet Borrelly encounter occurred September 22, 2001 at ~22:30 UTC (3:30 PM PDT).
- Flyby distance ~2240 km.
- Final corrections to ephemeris uplinked ~4 hours before closest approach. The time of closest approach and exposure selection did not have to be changed from their previous values.
- Comet stayed in camera field of view through the last image used for auto-tracking - ~2 1/2 minutes before closest approach. Best resolution - 45 meters/pixel.
- PEPE instrument detected an offset to the solar wind flowing around the comet, apparently due to some very strong jets. Magnetic field measurements taken by the IDS will be analyzed with the PEPE measurements.
- All encounter data returned by Monday.
- Spacecraft Earth-pointed since the encounter. Change “tracking stars” every few weeks.
- PEPE instrument turned on again on October 3 to collect solar wind data.
- K_a band turned on to support engineering tests on October 16.

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SPECTRUMASTRO

DEEP SPACE 1

Near Term Plans

- First Ion engine test (“Plume Mode Survey”) scheduled for October 23.
- Calibration of IR Spectrograph scheduled for October 30.
- Additional Ion engine tests will be done during November.
- Higher risk tests including some solar panel tests will be done in December.
- Current plan is to turn off the spacecraft December 18.

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SPECTRUMASTRO



STARDUST

**JOINT USERS
RESOURCE ALLOCATION
PLANNING COMMITTEE**

R. E. Ryan
October 18, 2001
NASA Jet Propulsion Laboratory

<http://stardust.jpl.nasa.gov>



STARDUST

Report to JURAP



JPL

STATUS

SPACECRAFT IS HEALTHY (10/18/01)

PRESENTLY 3.08 AU from EARTH

00:51:15 RTLT

2.3 AU from SUN

Will reach 3.6 in Jan '02

- **SPACECRAFT IS IN NOMINAL CRUISE**
 - **BIT RATE IS AT 504 bps (on HGA)**
 - **NOW THE “FARTHEST FROM THE SUN” U.S. SOLAR ARRAY POWERED SPACECRAFT**

LOCKHEED MARTIN



STARDUST

Report to JURAP



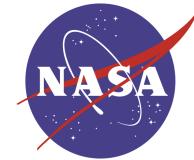
JPL

- **CURRENT ACTIVITIES**
 - **ON-GOING EFFORT ON SPACECRAFT FLIGHT SOFTWARE PATCHES**
 - **PLANNING AND TESTING FOR ENCOUNTER**
 - **REVIEWING ENCOUNTER PLAN**
 - **POSSIBLE USE OF ANNEFRANK (11/02) AS READINESS TEST FOR COMET WILD-2 OPTICAL NAVIGATION**
 - **WORKING ISSUES AND PLANS FOR THE APPROVAL PROCESS**
- **IPN-ISD SUPPORT HAS BEEN GOOD THIS PAST PERIOD**



STARDUST

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JPL

CHECK OUT THIS HOMEPAGE:

<http://stardust.jpl.nasa.gov>

UPCOMING EVENTS:

SUPERIOR CONJUNCTION ON DECEMBER 25

Earth 3.5 AU

Sun 2.6 AU

One Degree SEP

DSM-2 (TCM-7) March 13, 2002

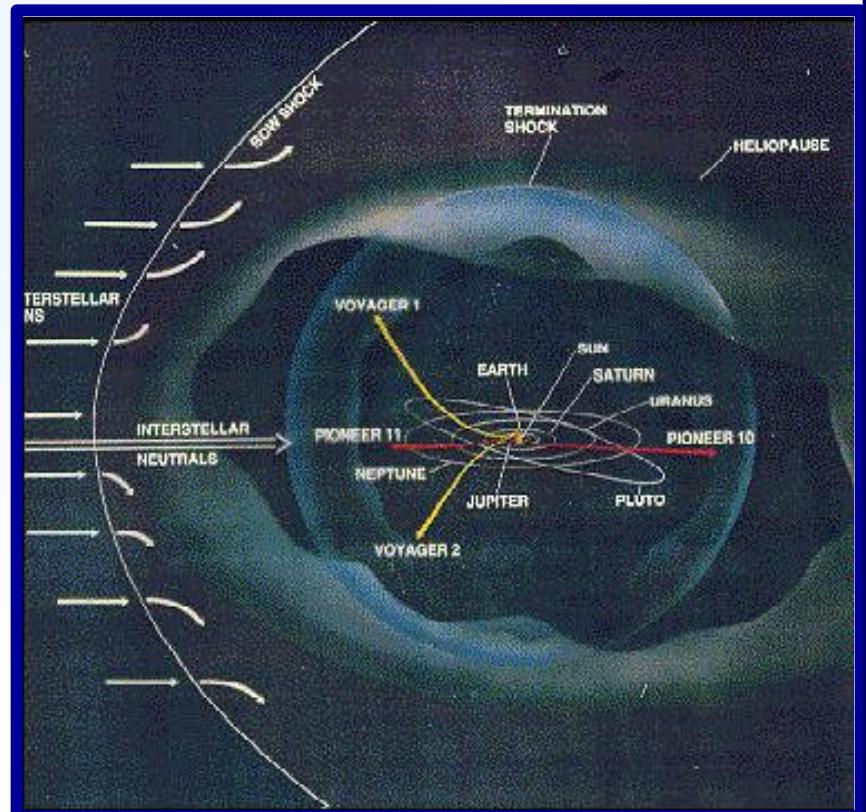
LOCKHEED MARTIN



VOYAGER

FLIGHT OPERATIONS

JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE

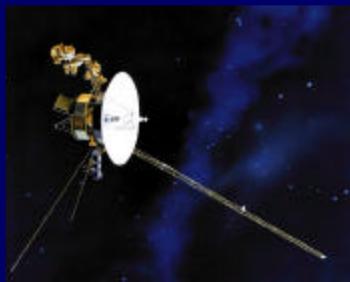


J. C. Hall, Jr.
October 18, 2001

NASA Jet Propulsion Laboratory



<http://vraptor.jpl.nasa.gov>



VOYAGER

FLIGHT OPERATIONS

JPL



FLIGHT SYSTEM STATUS

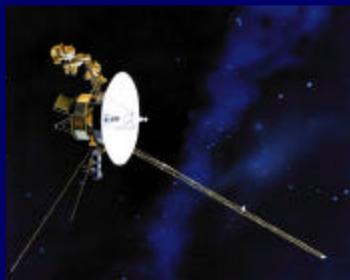
MISSION STATUS

VOYAGER 1

- Heliocentric Distance - 82.6 AU, RTLT - 23h02m46s
- Spacecraft Remains Healthy
- Major Activity: MAGROL

VOYAGER 2

- Heliocentric Distance - 65.3AU, RTLT - 18h07m20s
- Spacecraft Remains Healthy



VOYAGER

FLIGHT OPERATIONS

JPL



GROUND SYSTEM STATUS

(September 15, 2001 - October 12, 2001)

DSN - OVERALL SUPPORT – GOOD

TOTAL SUPPORT TIME, OUTAGE TIME, % of OUTAGE TIME

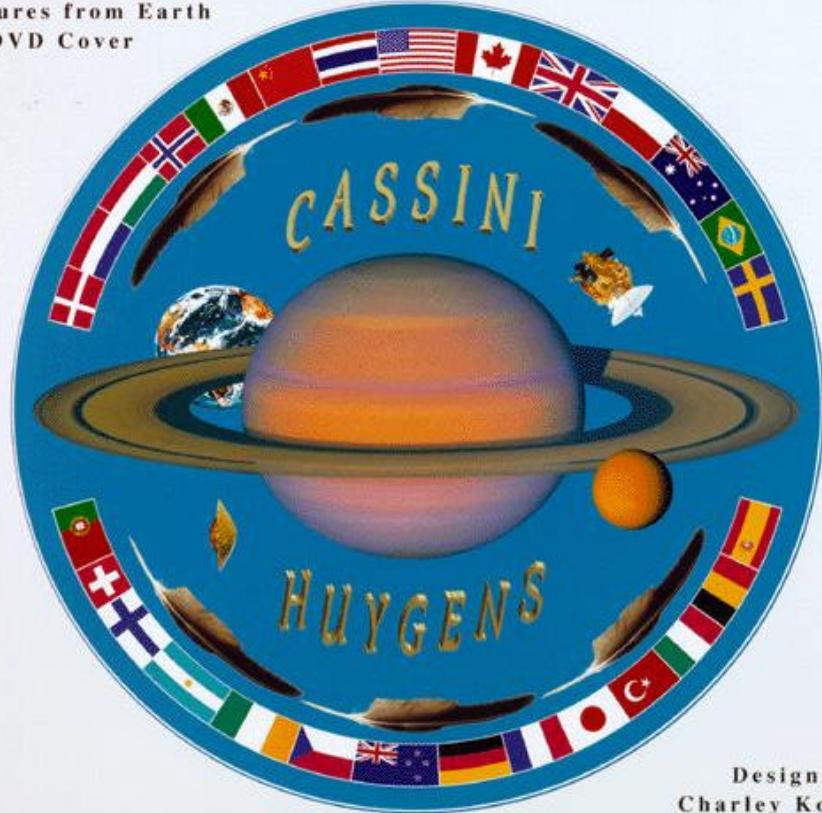
S/C	SCHED SUPPORT	ACTUAL SUPPORT	70M TIME	SIGNIFICANT OUTAGE TIME	% of OUTAGE TIME
31	230.2	226.4*	28.8	0.0 (1.5)	0.6
32	266.5	262.0**	154.0	0.0 (0.4)	0.2

* Released 3.8 hours of DSS-15 support to M01O.

** Released 4.5 hours of DSS-43 support to M01O.

VOYAGER HOMEPAGE - <http://vraptor.jpl.nasa.gov>

Signatures from Earth
DVD Cover



Design by
Charley Kohlhase

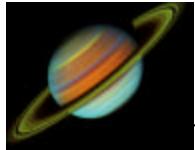
CASSINI

<http://www.jpl.nasa.gov/cassini/>

Joint Users Resource Allocation Planning (JURAP) Committee Meeting

Dave Doody
October 18, 2001

NASA / Jet Propulsion Laboratory



Cassini

- In Quiet Cruise Subphase through 8 July 2002
 - S/C remains HGA-to-Earth except for specific short activities
 - Cassini Aces have completed lending support to DS1 operations
- Operations are Basically Nominal
 - RAP inputs up to date
 - Celebrated launch plus four years this week
 - PSG and training workshops hosted at JPL
 - Found upcoming lunar occultations thanks to Peter Tay
 - Excellent DSN support
 - DSS63 X-TXR demonstrated
 - RNG problem under investigation
 - NOP still being revised
 - Minor S/C instrument anomalies being worked and recovered near real time
 - Additional Probe Relay S-band U/L tests scheduled for DSS24 next month
 - Several Huygens Probe Project members colocating at JPL
 - Implementing results of the Recovery Task Force effort
- Gravitational Wave Experiment (GWE) Begins Next Month
 - 26 November 2001 through 5 January 2002
 - 24 hours/day, 7 days/week DSN coverage for 40 days and 40 nights
 - Cassini's first prime mission science