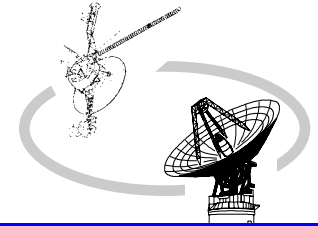




Interplanetary Network Directorate
DEEP SPACE MISSION SYSTEMS (DSMS)

Resource Allocation Planning Service (RAPS)



Thursday, **September 17, 2009, 1 pm. PDT**

JPL - **Building 126, Room 200**

Telecon Line – **(818) 354-2626**

AGENDA

Introductory Remarks D. Morris

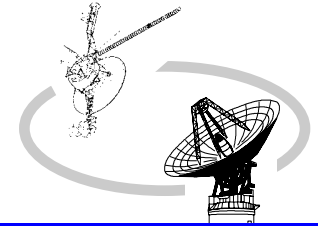
Resource Analysis Team S. Chhan

- Mid-Range Status

Proposed DSS Downtime Changes L. Fairley

- DSS-15 Pintle Bearing Replacement – changed to January 2011

Special Report: Messenger Mercury Flyby K. Williams



Resource Allocation Planning Service (RAPS)

This is to inform you that Julia Bell has accepted a temporary additional duty role as the DSN Scheduling Process Owner (PO). Her additional duty assignment will take effect immediately and is summarized below. Julia will be on staff to the DSN Development & Operations Office (920) and report to 920 management (Bhanji/Sible). Julia will be responsible for DSN scheduling. Dave Morris will remain in the DSN System Engineering and Commitments Office (912) and will be primarily responsible for forecasting activities for missions in Pre-Phase A, Phase A, and Phase B.

It is anticipated that the Process Owner position will be advertised during the last quarter of 2009. Please provide Julia with your support in her additional duty assignment.

Approved: on-file _____ on-file _____

A. Bhanji (920), 9/1/09 **J. Statman (910), 9/1/09**

Concurred: on-file _____ on-file _____

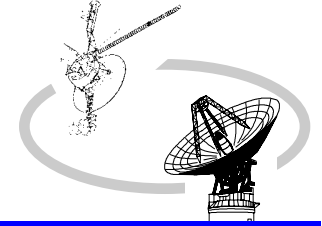
John McNamee, 9/1/09 **William Rafferty, 9/1/09**
Director for IND **Deputy Director for IND**

DSN Process Owner Role and Responsibilities

- Catch-up Plan
 1. Review exit strategies and process improvements
 2. Develop Way Forward Plan
- Planning and scheduling process definition across the mission/DSN lifecycle including SSS deployment
- Planning and scheduling execution for phase C-E missions
- Conflict resolution where management-level coordination is necessary
- Lead October DSN Mission Schedule Process Retreat, SSS Transition/Demonstrations



Interplanetary Network Directorate
DEEP SPACE MISSION SYSTEMS (DSMS)



JPL

Resource Allocation Planning Service (RAPS)

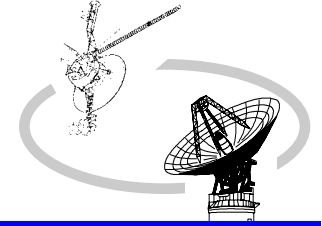
JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE



Resource Analysis Team

August 20, 2009

Steven Chhan



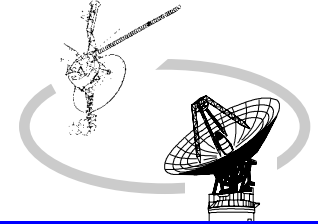
Resource Allocation Planning Service (RAPS)



MID-RANGE SCHEDULING STATUS

u **RESOURCE NEGOTIATION STATUS**

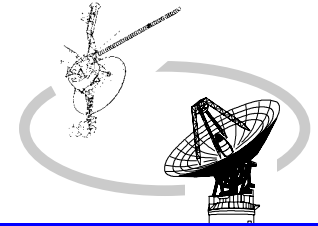
- 2009 WEEK 52 (THRU 12/27/2009) IS SCHEDULED FOR RELEASE TO DSN SCHEDULING ON 09/17/2009.
 - 2009 WEEK 53 IS DUE TO BE RELEASED ON 09/22/2009, and WEEK 01 IS DUE TO BE RELEASED ON 09/24/2009.
 - 2009 WEEKS 53 - 01 (THRU 01/10/2010) HAVE REMAINING FACILITY AND EQUIPMENT CONFLICTS.
- u The Mid-Range Scheduling process has schedule 13 weeks ahead of real-time, 12 negotiated.



Resource Allocation Planning Service (RAPS)

– Ongoing / Approved Projects –

Project	Acronym	Launch or Start	EOPM	EOEM
DSN Antenna Calibration	DSN	--	--	--
DSS Maintenance	DSS	--	--	--
DSN ZDD Calibration	DSN	--	--	--
Reference Frame Calibration (Cat M&E and Clock Sync)	DSN	10/01/01	09/30/20	12/31/30
Voyager 2	VGR2	08/20/77	10/15/89	08/31/13
Voyager 1	VGR1	09/05/77	12/31/80	08/31/13
Goldstone Solar System Radar	GSSR	10/01/88	09/30/20	12/31/30
European and Global VLBI Systems	EGS	10/01/88	09/30/20	12/31/30
Geotail	GTL	07/24/92	07/24/95	09/30/10
Space Geodesy Programme	SGP	05/01/93	09/30/20	12/31/30
Wind	WIND	11/01/94	11/01/97	11/30/13
Ground Based Radio Astronomy	GBRA	10/01/95	09/30/20	12/31/30
SOHO	SOHO	12/02/95	05/02/98	12/31/13



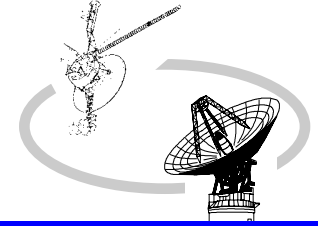
Resource Allocation Planning Service (RAPS)

– Ongoing / Approved Projects –

Advanced Composition Explorer	ACE	08/25/97	02/01/01	09/01/13
Advanced Tracking and Observational Techniques (ATOT)	ATOT	10/01/97	09/30/20	12/31/30
Cassini	CAS	10/15/97	06/30/08	09/30/10
Chandra X-Ray Observatory	CHDR	07/23/99	10/23/06	09/30/14
Cluster 2 - S/C #2 (Samba)	CLU2	07/16/00	02/15/03	07/30/10
Cluster 2 - S/C #3 (Rumba)	CLU3	07/16/00	02/15/03	07/30/10
Cluster 2 - S/C #1 (Salsa)	CLU1	08/09/00	02/15/03	07/30/10
Cluster 2 - S/C #4 (Tango)	CLU4	08/09/00	02/15/03	07/30/10
Mars Odyssey 2001	M01O	04/07/01	08/24/04	09/30/11
Wilkinson Microwave Anisotropy Probe	WMAP	06/30/01	10/01/03	09/30/10
International Gamma Ray Astrophysics Lab	INTG	10/17/02	12/18/04	12/31/12
Hayabusa (MUSES - C)	MUSC	05/09/03	06/10/10	---
Mars Express Orbiter	MEX	06/02/03	02/11/06	12/31/12
Spirit (Mars Exploration Rover - A)	MER2	06/10/03	04/06/04	09/30/10
Opportunity (Mars Exploration Rover - B)	MER1	07/07/03	04/27/04	09/30/10



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Resource Allocation Planning Service (RAPS)

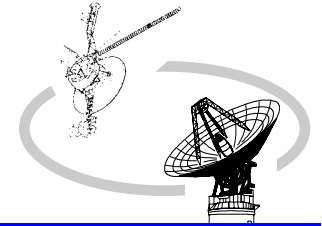
– Ongoing / Approved Projects –

Spitzer Space Telescope (SIRTF)	STF	08/25/03	05/31/09	05/31/14
Rosetta	ROSE	02/26/04	12/31/15	---
Messenger	MSGR	08/03/04	03/19/12	03/31/13
Mars Reconnaissance Orbiter	MRO	08/12/05	12/31/08	09/30/11
Venus Express	VEX	11/09/05	09/24/07	12/31/12
New Horizons	NHPC	01/19/06	04/17/16	TBD
Stereo Ahead	STA	10/26/06	01/22/09	01/22/13
Stereo Behind	STB	10/26/06	01/22/09	01/22/13
EPOXI (Deep Impact)	DIF	07/03/07	11/14/10	---
NExT (Stardust)	SDU	07/03/07	02/27/11	---
Dawn	DAWN	09/27/07	07/04/15	TBD
Kepler	KEPL	03/06/09	11/10/12	TBD
Lunar Crater Observation and Sensing Satellite (LCROSS)	LCRO	06/17/09	10/08/09	---
Lunar Reconnaissance Orbiter	LRO	06/17/09	09/01/12	TBD
Juno	JUNO	08/07/11	10/16/17	---



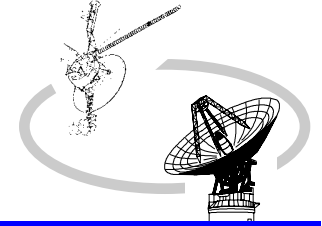
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Resource Allocation Planning Service (RAPS)



– Ongoing / Approved Projects –

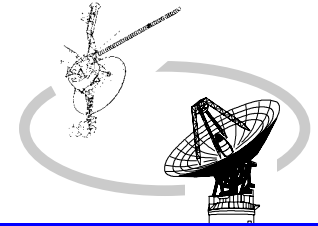
Gravity Recovery and Interior Laboratory-A (GRAIL-A)	GRLA	09/09/11	06/06/12	---
Gravity Recovery and Interior Laboratory-B (GRAIL-B)	GRLB	09/09/11	06/06/12	---
Mars Science Laboratory 2009	MSL	10/22/11	09/22/14	TBD
Mars Atmosphere and Volatile Evolution (MAVEN)	M13O	11/18/13	09/30/15	TBD
Magnetospheric MultiScale	MMS	08/14/14	12/14/16	TBD
James Webb Space Telescope	JWST	06/15/14	10/31/24	TBD



Resource Allocation Planning Service (RAPS)

– Advanced / Planning Projects –

ADVANCED PLANNING PROJECTS				
Project	Acronym	Launch or Start	EOPM	EOEM
Lunar Atmosphere and Dust Environment Explorer (LADEE)	TBD	05/01/12	01/01/13	TBD
Discovery-12	TBD	05/01/15	05/01/22	TBD
Joint Dark Energy	JDEM	04/01/15	04/01/18	TBD
Mars Trace Gas Mapper	M16O	02/11/16	TBD	TBD
International Lunar Network	ILN	01/01/17	01/01/23	TBD
Discovery-13	TBD	01/01/17	01/01/24	TBD
New Frontiers-3	NF3	01/01/17	01/01/27	TBD
Solar Orbiter	TBD	01/17/17	05/17/27	TBD
ExEP-M1	SIM	08/01/17	TBD	TBD
ExoMars	EXM	05/06/18	08/21/21	TBD
Solar Probe Plus	SPP	08/01/18	03/31/26	TBD
PCOS-M1	TBD	06/01/19	TBD	TBD
Discovery-14	TBD	01/01/20	01/01/27	TBD



Resource Allocation Planning Service (RAPS)

– Advanced / Planning Projects –

ADVANCED PLANNING PROJECTS				
Project	Acronym	Launch or Start	EOPM	EOEM
Outer Planet-1	OPF1	06/01/20	06/01/27	TBD
Mars Scout - 3	M20S	07/09/20	TBD	TBD
Living With a Star	LWS7	03/01/21	TBD	TBD
COR-M1	TBD	06/01/21	TBD	TBD
New Frontiers-4	NF4	01/01/22	01/01/32	TBD
Mars Lander 2022	M22L	09/06/22	05/20/25	TBD
Discovery-15	TBD	01/01/23	01/01/30	TBD