

# Messenger Status

S. Joy

# MESSENGER

- Science Operations Center (SOC) review held at the end of April
  - The review committee identified many areas where the SOC was not meeting its requirements (including archiving)
  - The project has been working to resolve these deficiencies
    - The current plan is to archive calibrated and derived data products during the mission (encounter/phase + 6 months). Only a few of the instruments will be able to meet this schedule initially.
    - The project is working with the instrument teams to define how to automatically generate data quality flags for the EDR data

# MESSENGER - Timeline

## Mission Event

## EDR/CDR Archive

■ Venus Flyby 1	10/24/06	Dec 2007
■ Venus Flyby 2	06/05/07	Dec 2007
■ Mercury Flyby 1	01/14/08	July 2008
■ Mercury Flyby 2	10/06/08	April 2009
■ Mercury Flyby 3	09/29/09	March 2010
■ MOI	03/18/11	Oct 2011
■ MOI+6mo	10/01/11	April 2012
■ EOM	04/01/12	Oct 2012

# MESSENGER Venus Archive Schedule

## PDS Schedule V19 2007/07/16

ID	Task Name	Start	Finish	% Complete	Duration	007		Qtr 3, 2007			Qtr 4, 2007			Qtr 1, 2008			Qtr 2, 2008		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
101	Archive Operations	Mon 2/19/07	Thu 2/14/13	15%	1565 days?														
112	Venus Flyby 2 PDS Delivery	Tue 6/5/07	Mon 12/3/07	17%	130 days?														
114	SOC Generate Archives from Telemetry	Tue 6/5/07	Mon 10/1/07	23%	85 days?														
115	Downlink Data	Tue 6/5/07	Mon 6/18/07	100%	2 wks														
116	Format Data into EDRs	Tue 6/5/07	Mon 9/24/07	30%	4 mons														
117	Data Analysis / Assign Quality Value	Tue 6/12/07	Mon 10/1/07	25%	4 mons?														
118	SOC Archive and Deliver Data Volumes (Include Manifest with Checks)	Tue 7/17/07	Mon 10/1/07	0%	55 days														
119	SPICE	Tue 7/17/07	Mon 7/23/07	0%	1 wk														
120	XRS	Tue 7/17/07	Mon 7/23/07	0%	1 wk														
121	GRS	Tue 7/24/07	Mon 7/30/07	0%	1 wk														
122	NS	Tue 7/31/07	Mon 8/6/07	0%	1 wk														
123	MLA	Tue 8/7/07	Mon 8/13/07	0%	1 wk														
124	EPPS	Tue 8/14/07	Mon 8/20/07	0%	1 wk														
125	MAG	Tue 8/21/07	Mon 8/27/07	0%	1 wk														
126	EPPS	Tue 8/28/07	Mon 9/3/07	0%	1 wk														

Project: MESSENGER PDS Schedule  
Date: Thu 7/19/07

Progress
 Summary
 External Tasks
 Deadline

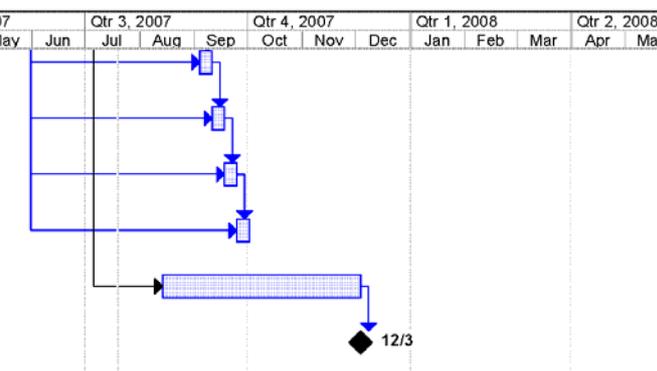
Split
 Milestone
 Project Summary
 External Milestone

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## PDS Schedule V19 2007/07/16

ID	Task Name	Start	Finish	% Complete	Duration	007		Otr 3, 2007			Otr 4, 2007			Otr 1, 2008			Otr 2, 2008	
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
127	VIRS	Tue 9/4/07	Mon 9/10/07	0%	1 wk													
128	UVVS	Tue 9/11/07	Mon 9/17/07	0%	1 wk													
129	MDIS	Tue 9/18/07	Mon 9/24/07	0%	1 wk													
130	RS	Tue 9/25/07	Mon 10/1/07	0%	1 wk													
131	PDS Validate Delivery	Tue 8/14/07	Mon 12/3/07	0%	4 mons													
132	PDS Release 2 Available Through PDS Catalog	Mon 12/3/07	Mon 12/3/07	0%	0 days													◆ 12/3



Project: MESSENGER PDS Schedule  
Date: Thu 7/19/07

Task		Progress		Summary		External Tasks		Deadline	
Split		Milestone		Project Summary		External Milestone			

# XRS Venus Archive Progress

- EDR Verification
  - Verified
  - Data Confidence Note
- Instrument Specific CAT Files (Instrument and Data Set Catalogs)
  - First Drafts
  - Revised / Approved
- Define and Implement Index Files
  - First Draft
  - Details (Add Field Lengths, Start Bytes, etc. )
  - Implemented
- “Cut-n-Paste” CAT files (AAA Read Me, others)
  - First Draft Set sent to PDS along with Instrument Specific CAT Files
- Assemble and Ship the Archive
  - Merge documentation and data into archive directories.
  - Generate checksums. (Utility obtained).
  - ZIP and FTP

# MLA Venus Archive Progress

- EDR Verification
  - Verified
  - Data Confidence Note
- Instrument Specific CAT Files (Instrument and Data Set Catalogs)
  - First Drafts
  - Revised / Approved
- Define and Implement Index Files
  - First Draft
  - Details (Add Field Lengths, Start Bytes, etc. )
  - Implemented
- “Cut-n-Paste” CAT files (AAA Read Me, others)
  - First Draft Set sent to PDS along with Instrument Specific CAT Files
- Assemble and Ship the Archive
  - Merge documentation and data into archive directories.
  - Generate checksums. (Utility obtained).
  - ZIP and FTP

# Dawn Status

S. Joy

# Dawn

- The Dawn launch, scheduled for late June or early July was delayed by NASA
  - Launch was delayed for a combination of launch site mechanical problems, weather, and the inability of NASA to get launch tracking assets in place during the window
  - An alternate launch window is available in the Fall of 2007
- NASA has not yet given the Dawn project a new launch date
  - Initially, NASA told the project that they would not launch before Sept. 07, 2007.
  - On Saturday (8/11) we were told that we would not launch before September 19, 2007
  - The window remains open until October 15, 2007

# Dawn Archiving

- The Dawn archive plan (SIS development) is behind schedule
- The launch delay should have allowed the teams to catch up.
  - Unfortunately, the Europeans all went on vacation
- Archive formats
  - We have recently received a draft labeled EDR image from the FC Team (includes overscan)
  - The VIR Team is planning on using ISIS Compatible Cubes.
    - I'm pushing for QUBEs with detached PDS labels
  - The GRaND Team is planning on using binary tables with thousands of columns.