

ID	Task Name	Start	Finish	2003				2004				2005				2006				2007				2008				2																											
				M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A		M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J
1	Core HiCAT development (beginning of project ~ launch):	Mon 6/2/03	Wed 4/20/05																																																				
2	Setup and configure HiCAT MySQL v4 server.	Mon 6/2/03	Tue 6/17/03																																																				
3	Migrate existing data from MySQL v3 to v4.	Wed 6/25/03	Fri 7/25/03																																																				
4	Build prototype HiCAT.	Wed 7/9/03	Fri 8/8/03																																																				
5	Implement applications to interpret PDS label and accounting files and ingest extracted data into the database	Mon 9/1/03	Mon 11/3/03																																																				
6	Analyze, design and build catalogs which support HiDOG and EDRgen processing	Mon 8/11/03	Mon 12/1/03																																																				
7	Implement applications to interpret PTF files and ingest extracted data into the database.	Mon 2/2/04	Thu 4/15/04																																																				
8	Implement basic HiCAT security system.	Wed 9/3/03	Fri 11/28/03																																																				
9	Evaluate HiCAT data integrity issues.	Tue 12/2/03	Fri 2/6/04																																																				
10	Implement basic HiCAT replication system.	Mon 1/5/04	Wed 3/31/04																																																				
11	Analyze, design and build calibration catalog and ancillary tables as needed to support calibration processing.	Fri 1/16/04	Fri 3/26/04																																																				
12	Run fire drills to exercise the disaster recovery procedures	Thu 4/1/04	Thu 4/14/05																																																				
13	Run stress tests with large volume datasets and adjust related catalogs	Fri 6/27/03	Fri 4/1/05																																																				
14	Analyze, design and build observation sequence planning catalogs which provide database support to HiPLAN	Wed 4/14/04	Thu 4/14/05																																																				
15	Analyze, design and build catalogs which provide database support to HiWEB.	Mon 6/14/04	Wed 4/20/05																																																				
16	Inventory previous Mars missions - MGS, Viking, Odyssey, etc. - to identify data appropriate for incorporation into HiCAT	Wed 7/30/03	Wed 12/31/03																																																				
17	Build image meta data catalogs for previous Mars missions: MGS, Viking, Odyssey, etc.	Wed 1/14/04	Thu 4/14/05																																																				
18																																																							
19	Pre-production HiCAT and operations (launch ~ MOI/Transition):	Thu 4/14/05	Thu 9/14/06																																																				
20	Analyze, design and build catalogs which support RDRgen processing.	Tue 5/3/05	Thu 7/14/05																																																				
21	Analyze and design data exchange systems between HiCAT and databases from other instruments such as CTX and CRISM	Mon 8/15/05	Wed 12/14/05																																																				
22	Implement applications that control information communication between HiCAT and other databases.	Wed 11/2/05	Mon 2/20/06																																																				
23	Establish monitoring, evaluate performance enhancement opportunities, tune structure and operation to enhance performance.	Thu 4/14/05	Thu 9/14/06																																																				
24	Implement complete HiCAT security system.	Thu 7/14/05	Mon 11/14/05																																																				
25	Implement complete HiCAT disaster prevention and recovery strategy based on a replication system.	Mon 1/16/06	Wed 3/15/06																																																				
26																																																							
27	HiCAT production operations and tuning (MOI/Transition ~ PSP):	Wed 3/15/06	Fri 9/1/06																																																				
28	Analyze, design and build catalogs which support data validation processing.	Mon 4/3/06	Fri 6/30/06																																																				
29	Implement application with GUI interface for operator validators to interact with HiCAT.	Thu 6/1/06	Fri 9/1/06																																																				
30	Finalize integration between HiCAT and HiWEB.	Mon 3/20/06	Fri 6/30/06																																																				
31	Finalize integration between HiCAT, HiPLAN and HiCOMMAND	Wed 3/15/06	Fri 9/1/06																																																				
32																																																							
33	HiCAT production operations and PDS deliveries (PSP ~ end of mission):	Wed 11/1/06	Fri 5/1/09																																																				
34	Analyze, design and build catalogs which support PDS data delivery processing.	Tue 1/2/07	Fri 6/1/07																																																				
35	Analyze, design and build catalogs which support special data products processing.	Mon 7/2/07	Thu 11/1/07																																																				
36	HiCAT maintenance and troubleshooting.	Wed 11/1/06	Fri 5/1/09																																																				
37	Advanced related database research and implementation, such as distributed DBMS, content-based image database query, etc.	Mon 9/3/07	Fri 5/1/09																																																				