

# Mission/PDS Build Schedule

## Project Summary

Last updated 30 Oct 2017: Updated ExoMars Rover, BepiColom, Chandrayaan-2, Psyche launch dates. Updated New Horizons 2014 MU69 flyby. Updated Juno EOM. Extended active missions: Venus Climate Orbiter, Dawn, Voyager 1/2, Mars Orbiter Mission. Extended past mission wrapping up archives: Rosetta. Changed MESSENGER, Cassini to "Past" missions. Added new missions: Hope Mars, Mars Orbiter Mission-2, Martian Moon eXplorer. Removed AIM (cancelled).

PDS4 Release Version 1.7 1.8 1.9 1.10 1.11 a = Adoption of PDS4 release(s) d = Distribution of PDS4 data

Mission	Lead Node	Other Nodes	Status	PDS Version	PDS4 Release Adopted	FY17		FY18		FY19		FY20		FY21		FY22		FY23		FY24		FY25		FY26		FY27		FY28			
						1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
MAVEN	ATM	PPI,NAIF	Active	4	1.1-1.5	d	d	d	d	d	d	d	d	d	d																
Mars Science Laboratory/MSL/Curiosity	GEO	ATM,CIS,PPI,NAIF	Active	3																											
Mars Reconnaissance Orbiter/MRO	GEO	ATM,CIS,NAIF	Active	3																											
Mars Exploration Rover/MER/Opportunity	GEO	ATM,CIS,NAIF	Active	3																											
Mars Odyssey	GEO	CIS,NAIF	Active	3																											
InSight	GEO	ATM,CIS,PPI,NAIF	Future	4	1.4-1.5 (?)	a	a	a	a	a	a	a	a	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d		
Mars 2020/Rover	GEO	ATM,CIS,NAIF	Future	4	1.7	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Mars Orbiter Mission/Mangalyaan (ISRO)	ISRO		Active	4(?)																											
Mars Express/MEX (ESA)	GEO		Active	3																											
ExoMars Trace Gas Orbiter & Lander (ESA)	PSA,ROS		Active	4	1.3-1.4 (?)	a	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d		
ExoMars Rover (ESA)	PSA,ROS		Future	4	1.7	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Hope Mars (Emirates)	Emirates		Future	4		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Mars Orbiter Mission-2 (ISRO)	ISRO		Future	4		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Martian Moon eXplorer (JAXA)	DARTS		Future	4																											
Lunar Reconnaissance Orbiter/LRO	GEO	CIS,PPI,NAIF	Active	3																											
LADEE Orbiter	ATM	SBN	Past	4	1.1																										
Chandrayaan-2 (ISRO)	ISRO		Future	4	1.6	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Selene-2 Lunar Orbiter and Lander (JAXA)	DARTS		Future	4																											
BepiColombo (ESA/JAXA)	PSA		Future	4	1.3-1.4 (?)	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Venus Climate Orbiter/Akatsuki/Planet-C (JAXA)	DARTS	SBN	Active	4(?)																											
Juno	ATM		Active	3																											
Cassini	ATM		Past	3																											
JUICE (ESA)	PSA		Future	4	1.7	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Europa Clipper	CIS	ATM,GEO,PPI,SBN	Future	4																											
New Horizons	SBN		Active	3																											
Dawn	SBN		Active	3																											
Rosetta and Philae	PSA,SBN		Past	3																											
Voyager 1 and 2	PPI		Active	3																											
OSIRIS-REx	SBN		Active	4	1.7	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
Hayabusa 2/Procyon (JAXA)	DARTS	SBN	Active	4	1.7	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
DART	SBN		Future	4																											
Lucy	SBN		Future	4																											
Psyche	SBN		Future	4																											
MeMO (Mars Orbiter)	PDS		Future	4																											
New Frontier 4 (Launch readiness 31 Dec 2025)	PDS		Future	4																											
Discovery 15	PDS		Future	4																											
New Frontier 5	PDS		Future	4																											
Discovery 16	PDS		Future	4																											
Discovery 17	PDS		Future	4																											
New Frontier 6	PDS		Future	4																											
Discovery 18	PDS		Future	4																											
New Frontier 7	PDS		Future	4																											

- Study: pre-Phase A (response to proposal request)
- Formulation: Phase A (mission and systems definition)
- Formulation: Phase B (preliminary design)
- Implementation: Phase C (design) / D (build, test, launch)
- Operations: Phase E
- Extended Operations: Phase F
- Data Analysis
- Proposed Extended Operations

[1] Launch Sep 2024; Mars arrival Aug 2025; Departure Aug 2028; Earth return Jul 2029  
 [2] Launch Oct 2021; Main belt asteroid FB 2025; FBs of Trojan asteroids 2027-2033  
 [3] Launch Summer 2022; Mars FB 2023; Psyche OI 2026; orbits through 2027