

APOLLO LUNAR LANDING SITE CANDIDATES - 1969 TO 1972

			TYPE		G	H				J				
			MISSION		G-1	H-1	H-2	H-3	H-4	J-1	J-2	J-3	J-4	J-5
			FLIGHT NUMBER		11	12	13	14	15	16	17	18	19	20
DATE/EVENTS			ORG	CHOICE	LANDING SITE CANDIDATES									
1 9 6 9	1st QTR	GLEP	LANDING SITES	Abulfeda Crater Chain, Alexander (South of), Alphonsus Crater, Aristarchus Plateau, Censorinus Crater, Copernicus CD, Copernicus Crater (Peak), Copernicus Crater (Wall), Davy Rille, Descartes Formation, Dionysus Crater, Fra Mauro Formation, Gassendi Crater, Hadley Rille, Hipparchus Crater, Hyginus Rille, Imbrium Flows, Lassel Crater, Mare (Eastern), Mare (Western), Marius F, Marius Hills, Mouton C, Rima Bode II, Rima Littrow, Rima Prinz I, Schroeter's Valley, Tobias Mayr P, Tycho Crater										
	28 MAY ASSB REVIEWS CANDIDATE SITES	ASSB	CANDIDATE POOL											
	3 JUNE G-1, H-1, AND H-2 MISSIONS SITE SELECTIONS & TENTATIVE LANDING LIST REVIEW	NOTIONAL LAUNCH SCHEDULE		JULY 1969	NOVEMBER 1969	MARCH 1970	JULY 1970	DECEMBER 1970	JUNE 1971	DECEMBER 1971	JUNE 1972	DECEMBER 1972	JUNE 1973	
		FAST TRACK LAUNCH SCHEDULE		16 JULY 1969	13 SEPTEMBER 1969	10 NOVEMBER 1969	FEBRUARY 1970	NOT ADDRESSED	NOT ADDRESSED	NOT ADDRESSED	NOT ADDRESSED	NOT ADDRESSED	NOT ADDRESSED	
		ASSB	CONSERVATIVE	ALS 1, ALS 2 ALS 3 ALS 4, ALS 5	ALS 4, ALS 5 ALS 1, ALS 2 ALS 3 3R, 4R, 6R (S-I)	Censorinus Crater Fra Mauro Formation Littrow Area Tycho Crater (N. Rim)	Not Addressed	Not Addressed	Not Addressed	Not Addressed	Not Addressed	Not Addressed	Not Addressed	
			INTERMEDIATE											
	AGGRESSIVE													
	17 JUNE SITE SELECTION PLANNING	GLEP	PRIMARY	ALS 2, ALS 3 ALS 5	ALS 5 ALS 4	Fra Mauro Formation	Rima Bode II	Censorinus Crater (Northwest Rim)	Copernicus Crater (Central Peak)	Marius Hills	Tycho Crater (North Rim)	Rima Prinz I	Descartes Formation	
			SCIENCE ALTERNATE	N/A	N/A	Hipparchus Crater (Cayley Formation)	Hyginus Crater/Rille Littrow Area	None	None	None	None	Schroeter's Valley	Abulfeda Crater Chain	
	10 JULY SITE SELECTION REVIEW	ASSB	PRIMARY	ALS 2 ¹ , ALS 3 ² ALS 5 ³	ALS 7 (S-III) ¹ 6R (S-I) ²	Fra Mauro Formation ¹	Censorinus Crater (Northwest Rim)	Rima Bode II	Tycho Crater (North Rim)	Copernicus Crater (Central Peak)	Marius Hills	Descartes Formation	Rima Prinz I	
				G-1 MISSION										
			NASA	FINAL	ALS 7 ALS 5 NASA designates Surveyor III's young "less blue" Western Mare landing site, ALS 7 (Oceanus Procellarum), as the Apollo 12 prime target site and establishes a 14 November 1969 launch date. If the launch is postponed to November 16, ALS 5 will become the target landing site due to increased sun angle at the ALS 7 site.									
			INITIAL FLIGHT SCHEDULE		14 NOVEMBER 1969	MARCH 1970	JULY 1970	NOVEMBER 1970	APRIL 1971	SEPTEMBER 1971	FEBRUARY 1972	JULY 1972	DECEMBER 1972	
			NASA	INITIAL PLAN	ALS 7	Fra Mauro Formation	Censorinus Crater (Northwest Rim)	Littrow Area	Tycho Crater (North Rim)	Marius Hills	Schroeter's Valley	Hyginus Crater/Rille	Copernicus Crater (Wall)	
			GLEP	PRIMARY		Fra Mauro Formation	Rima Bode II	Censorinus Crater (Northwest Rim)	Tycho Crater (North Rim)	Copernicus Crater (Central Peak)	Descartes Formation	Marius Hills	Hadley Rille (West Side)	
				ALTERNATE		None	Littrow Area	Unknown	None	None	None	None		
			ASSB	PRIMARY		Fra Mauro Formation	Censorinus Crater (Northwest Rim)	Rima Bode II	Tycho Crater (North Rim)	Copernicus Crater (Central Peak)	Marius Hills	Descartes Formation	Rima Prinz I	
				PRIMARY		Fra Mauro Formation	Censorinus Crater (Northwest Rim)	Censorinus Crater (Northwest Rim)	Descartes Formation	Marius Hills	Copernicus Crater (Central Peak)	Hadley Rille (West Side)	Copernicus Crater (North Rim)	
				ALTERNATE 1		Alphonsus Crater	Littrow Area	Fra Mauro Formation	Censorinus Crater (Northwest Rim)					
				ALTERNATE 2		Hyginus Crater/Rille		Fra Mauro Formation	Censorinus Crater (Northwest Rim)					
				ALTERNATE 3		Fra Mauro Formation		Fra Mauro Formation	Descartes Formation					
				ADDITIONAL ALTERNATES		Hyginus Crater/Rille	Rima Bode II	Censorinus Crater (Northwest Rim)	Descartes Formation					
				NEW LIST		Fra Mauro Formation		Copernicus Crater (Central Peak)	Descartes Formation					
				PRIME ALTERNATE		TBD	Fra Mauro Formation	Littrow Area	Copernicus Crater (Central Peak)	Descartes Formation	Rima Prinz I	Descartes Formation	Hadley Rille (Central Peak)	
				ALTERNATE 1		Alphonsus Crater	Littrow Area	Censorinus Crater (Northwest Rim), Fra Mauro Formation	Copernicus Crater (Central Peak)	Marius Hills	Davy Rille ² (Tycho Crater, North Rim)	Hadley-Apennine	Tycho Crater (N. Rim)	
				ALTERNATE 2		Hipparchus Crater		Fra Mauro Formation						
			ALTERNATE 3	Littrow Area		Fra Mauro Formation	Censorinus Crater (Northwest Rim)	Descartes Formation	Marius Hills	Copernicus Crater	Hadley Rille (West Side)	Rima Bode II		
			ADDITIONAL ALTERNATES	Alphonsus Crater		Littrow Area	None	Polar Orbit Mission (No Landing)	Marius Hills	None	Tycho Crater (North Rim)	Gassendi Crater (Central Peak)		
			ASSB	PRIMARY		Hyginus Crater/Rille	Fra Mauro Formation	Littrow Area	Censorinus Crater (Northwest Rim)	Copernicus Crater (Central Peak)	Descartes Formation	Marius Hills	Hadley-Apennine	
				ALTERNATE		Rima Bode II	Fra Mauro Formation	Littrow Area	Censorinus Crater (Northwest Rim)	Descartes Formation	Marius Hills	Davy Rille ²	Tycho Crater (North Rim)	
			REVISED FLIGHT SCHEDULE		14 NOVEMBER 1969	12 MARCH 1970	8 JULY 1970	30 OCTOBER 1970	29 MARCH 1971	30 JULY 1971	19 FEBRUARY 1972	14 JULY 1972	7 FEBRUARY 1973	
			H-1 MISSION		APOLLO 12 LAUNCHES									
			NASA	FINAL	Fra Mauro Formation NASA assigns a Mare Imbrium debris field in Southeast Oceanus Procellarum as the Apollo 13 target landing site and delays launch until 11 April, to avoid a March night launch.									
1 9 7 0	4 JANUARY NASA DECISION	J-5 MISSION		NASA CANCELS THE APOLLO 20 FLIGHT										
	5 JANUARY	TENTATIVE FLIGHT PLAN #1												
	6-7 FEBRUARY SITE SELECTION REVIEW MEETING	GLEP	PRIMARY											
			ALTERNATE											
	6 MARCH H-3 MISSION SITE SELECTION MEETING	ASSB	PRIMARY											
			ALTERNATE											
			NASA	FINAL										
	6 MARCH	TENTATIVE FLIGHT PLAN #2												
	11 APRIL	H-2 MISSION												
	6-7 MAY H-3 MISSION SITE REVALUATION MEETING	ASSB	PRIMARY											
			FINAL											
9 JUNE	TENTATIVE FLIGHT PLAN #3													
17 JUNE	SWP SUB GROUP	PRIMARY												
			ALTERNATE											
1 9 7 1 0	2 SEPTEMBER NASA DECISION	H-4 MISSION J-4 MISSION REVISED FLIGHT NUMBER		NASA CANCELS THE APOLLO 15 AND 19 FLIGHTS										
	NEW FLIGHT SCHEDULE													
	J MISSIONS LANDING SITES CANDIDATE POOL													
	GEOLOGY GROUP	1st CHOICE												
		2nd CHOICE												
	GEO-CHEMISTRY GROUP	1st CHOICE												
		2nd CHOICE												
	GEO-PHYSICS GROUP	1st CHOICE												
		2nd CHOICE												
	MSC	1st CHOICE												
		2nd CHOICE												
ASSB	FINALISTS													
NASA	FINAL													
			NASA CANCELS MISSION H-4 (Apollo 15 Flight) for budgetary reasons.											
			NASA CANCELS MISSION H-4 (Apollo 19 Flight) for budgetary reasons.											
			NASA CANCELS MISSION L-4 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (SKylab) workshop.											
			NASA CANCELS MISSION L-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications											

ABBREVIATIONS

ASSB - Apollo Site Selection Board (Apollo Management, Operations, Science)

GLEP - Group for Lunar Exploration Planning (Scientists)

MSC - Manned Spaceflight Center (NASA and Apollo Executive Management)

SWP - Science Working Panel (Replaces GLEP)

LEGEND

Schedule Information

Selected Landing Site

Flow Mission-Successful
Flow Mission-Not Successful

Cancelled Mission

NOTES

¹ Apollo Management targets, subject to further review, the first three crewed lunar landings to be on an old "blue" Eastern Mare (ALS 2 or ALS 3), a young "red" Western Mare (ALS 4, ALS 5, ALS 7 or 6R), and a debris site near Mare Imbrium (Fra Mauro).

² At the beginning of the Apollo Program the Davy feature is classified as a rille and is thought to be a connected chain of volcanic vent craters. Later Apollo orbital photography reveals it to be merely a chain of individual impact craters.

³ NASA will target the rough Fra Mauro Formation landing site only if the H-1 Mission (Apollo 12) makes an accurate landing near its target point, otherwise the H-2 Mission (Apollo 16) will be sent elsewhere.

⁴ NASA considers postponing several Apollo lunar missions until 1973 and 1974, after the Apollo Application Program (Skylab) missions are flown between 1972 and 1973.

⁵ In January 1972 Apollo Management formally delays the J-2 Mission (Apollo 16) launch from 17 March to 16 April to evaluate and correct two equipment issues and one spacecraft issue.

NASA cancels Mission 1-4 (Apollo 19 Flight) for budgetary reasons.

NASA cancels Mission 1-5 (Apollo 20 Flight) to make Saturn V launch vehicle available for the Apollo Applications (Skylab) workshop.

NASA cancels Mission 1-6 (Apollo 18 Flight) for budgetary reasons.

NASA cancels Mission 1-7 (Apollo 17 Flight) for budgetary reasons.

NASA cancels Mission 1-8 (Apollo 16 Flight) for budgetary reasons.

NASA cancels Mission 1-9 (Apollo 15 Flight) for budgetary reasons.