

**LANDSAT OPERATIONAL SUMMARY
SEPTEMBER 1984**

ORBITAL CHARACTERISTICS	Landsat 4	Landsat 5	GROUND STATUS AND CAPABILITIES	S-band	X-band	Command	Status
International Designation	1982-072A	1984-021A	U.S.:				
Launch Date	16 July 1982	1 March 1984	NOAA Transportable Ground Station, Greenbelt, Maryland	X	X		Operational
Date Operations Began: MSS	20 July 1982	6 April 1984	NASA Ground Station, Goldstone, California	X		X	Operational
TM	17 August 1982	6 April 1984	Other NASA Ground Stations			X	Operational
Days Operational (this period)	30	30	TDRSS (Ku-band), White Sands, New Mexico	X		X	Testing
Orbit Angle	98.2257°	98.2386°	International:				
Average Altitude: kilometers	699.60	699.62	Argentina, Mar del Plata	X			Operational
miles	434.66	434.66	Australia, Alice Springs	X			Operational
Precession Rate	-0.264	-0.324	Brazil, Cuiaba	X	X		Operational
minutes/month			Canada, Prince Albert	X	X		Operational
Orbit Nodal Period	98.88 minutes	98.88 minutes	India, Hyderabad	X	X		Operational
Equatorial Crossing Time: descending	09:37 a.m. (local)	09:42 a.m. (local)	Indonesia	X			Operational
ascending	09:37 p.m. (local)	09:42 p.m. (local)	Italy, Fucino	X	X		Operational
Last Orbit Adjust	26 July 1984	22 August 1984	Japan, Tokyo	X	X		Operational
Next Orbit Adjust	October 1984	November 1984	Spain, Maspalomas Island	X			Operational
Hydrazine Remaining	472.00 lbs	496.17 lbs	South Africa, Johannesburg	X			Operational
			Sweden, Kiruna	X	X		Operational
			Thailand, Bangkok	X			Operational
SENSOR STATUS							
MSS	Operational	Operational					
TM	Operational	Operational					
DOMESTIC SCENES ACQUIRED							
MSS	239	2,428					
TM	0	3,218					
SPACECRAFT STATUS							
Attitude and Orbit:							
Modular Attitude Control System	Operational	Operational					
Power Module	Operational	Operational					
Communications and Data Handling:							
Communications and Data Handling	Operational	Operational					
Narrow Band Tape Recorder No. 1	Marginal	Operational					
Narrow Band Tape Recorder No. 2	Operational	Marginal					
Signal Conditioning and Control Unit	Operational	Operational					
Digital Processing Unit	Operational	Operational					
Power and Thermal:							
Modular Power Subsystem	Operational	Operational					
Power Distribution Unit	Operational	Operational					
Solar Array Drive	Operational	Operational					
Solar Panel 1	Operational	Operational					
Solar Panel 2	Operational	Operational					
Solar Panel 3	Failed	Operational					
Solar Panel 4	Failed	Operational					
Operational Solar Array Offset	-31 degrees	0 degrees					
Transmitters:			REMARKS:				
Unified S-band	Operational	Operational	1. Landsat 5: Landsat 5 continues to support the full MSS and TM missions. No systematic changes were noted in the MSS instrument during this period. Minor changes were made in the radiometric calibration to correct for high radiance striping.				
S-band	Operational	Operational	2. Landsat 4: Landsat 4 continues to support the current MSS mission. No systematic changes were noted in the MSS instrument during this period.				
X-band	Failed	Operational					
Ku-band	Operational	Operational					
Global Positioning System	Off	On (test)					

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