



N 7 2 - 12 3 7 1

PART II

APOLLO 14 PHOTOGRAPHY

70-mm, 35-mm, 16-mm, and 5-in. Frame Index

AUGUST 1971



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION · GODDARD SPACE FLIGHT CENTER, GREENBELT, MD.

Part II

APOLLO 14 PHOTOGRAPHY 70-mm, 35-mm, 16-mm, and 5-in. Frame Index

Original Prepared by

Mapping Sciences Branch
Manned Spacecraft Center
National Aeronautics and Space Administration
Houston, Texas 77058

NSSDC Preparation
Directed by
Arthur T. Anderson

Published by

National Space Science Data Center Goddard Space Flight Center National Aeronautics and Space Administration Greenbelt, Maryland 20771

August 1971

CONTENTS

	Page
INTRODUCTION	ν
APOLLO 14 QUICK LOOK (70-mm and 5-in.)	
Magazine LL (Frames AS14-64-9046 through 9201)	1
Magazine KK (Frames AS14-65-9202 through 9215)	13
Magazine II (Frames AS14-66-9216 through 9360)	15
Magazine JJ (Frames AS14-67-9361 through 9393)	27
Magazine MM (Frames AS14-68-9394 through 9492)	31
Magazine P (Frames AS14-69-9493 through 9656)	39
Magazine Q (Frames AS14-70-9657 through 9840)	51
Magazine T (Frames AS14-71-9841 through 9917)	65
Magazine L (Frames AS14-72-9918 through 10039)	73
Magazine M (Frames AS14-73-10040 through 10204)	83
Magazine N (Frames AS14-74-10205 through 10222)	95
Magazine R (Frames AS14-75-10223 through 10320)	99
Magazine 0 (Frames AS14-76-10321 through 10356)	107
Magazine S (Frames AS14-78-10375 through 10399)	111
Magazine V (Frames AS14-10400 through 10435)	115
Magazine W (Frames AS14-80-10436 through 10642)	117
APOLLO 14 DAC (16-mm)	101
Magazine A (Transposition and Docking)	121
Magazine B (Landmark Tracking)	122
Magazine C (LM Undocking)	123
Magazine D (Docking, LM Jettison)	124
Magazine E (Interior Activity)	125
Magazine F (Waste Water Dump)	126
Magazine G (Inflight Demonstration - Heat Flow)	127
Magazine H (Inflight Demonstration - Liquid	120
Transfer Interior Activity)	128 129
Magazine I (Reentry)	130
Magazine X (Interior Activity)	130
Magazine AA (LM Descent)	131
Magazine BB (LM Ascent)	133
Magazine CC (Lunar Surface)	
	134
Magazine GG (Predocking Approach)	135
APOLLO 14 LUNAR CLOSEUP STEREOSCOPIC PHOTOGRAPHY (35-mm)	137
PHOTO INDEX AREA LOCATION DIAGRAMS	138

INTRODUCTION

This index contains supporting information for the 70-mm, 35-mm, 16-mm, and 5-in. photography taken during the Apollo 14 mission.

For each 70-mm and usable 5-in. frame, the index presents the information available on: (1) the revolution number, (2) the focal length of the camera, (3) the photo scale at the principal point of the frame, (4) the selenographic coordinates at the principal point of the frame, (5) the approximate tilt of the photo, (6) the percentage of forward overlap of the frame, (7) the sun angle, (8) the quality of the photography, and (9) the photo index area (using the Lunar Aeronautical Chart system for the earthside and similar breakdowns on the farside region). A brief description of each frame is also included.

The index to the 35-mm stereo frames is listed by frame number and general description. The index to the 16-mm sequence photography includes information concerning the approximate surface coverage of the photographic sequence and a brief description of the principal features shown. A "remarks" column is included to indicate (1) if the sequence is plotted on the photographic index map and (2) the quality of the photography.

Directly following the indexes are two Photo Index Area Location Diagrams, one for the lunar earthside and one for the lunar farside, that have been prepared by the Mapping Sciences Branch, Manned Spacecraft Center. On these diagrams, areas of the moon have been numbered to facilitate and standardize the identification of lunar photography. It should be noted that the numbering of the earthside diagram corresponds to that on the Lunar Aeronautical Chart that accompanies this Apollo 14 data package.

The National Space Science Data Center (NSSDC) wishes to thank members of the staff of the Mapping Sciences Branch and the personnel of the Lockheed Electronics Company/Aerospace Systems Division for providing their original index pages to NSSDC.

MAGAZINE LL

(Frames AS14-64-9046 through 9201)

Magazine LL is a 60-mm sequence of the lunar surface, which includes EVA 2. Several 360° panoramas were taken with the sequence, showing Old Nameless Crater and a large boulder field near the flank of Cone Crater. The modular equipment transporter (M.E.T.) can be seen in several frames.

Magazine LL AS14-64 Film SO-267, BW

Time Reference

GET

GMT

Principal Approx. Point Tilt Data Approx. Photo Apprax. Frame Camera Fwd Photo Rev. Description Sun Index Na. No. f Length Photo Scale O/L Quality Angle Area Long. Lot. Angle Azimuth Sur-24° 9046 60mm S Pan of Core Tube Good face 11 11 11 9047 ** 11 Pan of Core Tube ** 11 9048 SW ** 11 LM in Background LM in Background 360° Pan from EVA 2 11 9049 " ** 11 11 9050 ** 11 ** ** " 11 9051 •• 11 ** 11 11 9052 N ** ** •• ** 9053 Modular Equipment Transporter 360° Pan from EVA 2 11 " " 9054 11 11 ** 11 9055 11 11 11 9056 11 " •• 11 9057 11 11 " NE 11 9058 11 " " 9059 •• ** " 11 11 ** 9060

E

Sheet 1 of 11 Sheets

Magazine LL AS14-64 Film SO-267, BW

Sheet 2 of 11 Sheets

Time Reference

GET

Frome	Rev.	Camera	Approx.		ncipal oint	Api Tilt	prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Pescription
9061	Sur- face	60mm	-	-		-	E	•	24°	Good	-	360° Pan from EVA 2
9062	**	"	-	1	•	-	"	ı	11	"	-	11
9063	"	"	-	-	-	-	"	-	11	"	-	11
9064	"	"	-	•	-	-	"	ı	"	"	-	"
9065	"	"	-	-	-	-	SE	-	"	"	-	Pan of Small Boulders
9066	"	11	-	-	-	-	s	-	"	"	-	11
9067	"	"	-	•	-	-	"	ı	11	11	-	"
9068	"	"	-	-	-	-	"	-	11	"	-	"
9069	"	"	_	1	•	-	"	ı	11	"	-	11
9070	"	"	-	-	-	-	"	-	"	"	-	"
9071	"	"	-	-	-	-	sw	-	11	"	-	"
9072	"	"	-	-	-	-	"	-	"	"	-	"
9073	"	"	-	-	-	-	NW	-	"	11	-	Photo of Gnomon
9074	"	**	-	-	-	-	ťί	-	"	"	-	"
9075	"	"	-	-	_	-	W	-	"	"	-	360° Pan from EVA 2

Magazine LL AS14-64 Film SO-267, BW

Sheet 3 of 11 Sheets

Time Reference GET GMT

Frome	Rev.	Comera	Approx.	Pri:	ncipol oint	Apı Tilt	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Areo	Description
9076	Sur- face	60mm	-	_	-	-	W	-	24°	Good	-	360° Pan from EVA 2
9077	"	11	· <u>-</u>	-	-	-	"	-	11	"	•	"
9078	"	"	-	-	-	-	N	-	,,	11	-	"
9079	"	11	-	-	-	-	"	-	"	11	-	360° Pan from EVA 2 Small Crater
9080	"	"	-	1	-	-	"	-	11	"	-	11
9081	"	"	-	-	-	-	"	-	11	"	-	11
9082	"	"	-	-	-	-	NE	-	11	"	-	360° Pan from EVA 2
9083	"	"	-	-	-	-	"	-	31	"	-	II
9 084	-	"	-	-	-	-	"	-	"	"	-	11
9085	"	"	-	-	-	-	Е	-	11	"	-	11
9086	"	11	-	-	-	-	11		"	"	-	11
9087	"	"	-	-	-	-	11	•	**	"	-	
9088	"	"	-	_	-	-	SE	-	**	"	-	360° Pan from EVA 2 Astronaut Mitchell
9089	"	"	-	_	-	-	44	-	11	"	-	"
9090	"	11	-	-	-	-	"	-	11	"	-	11

Magazine LL AS14- 64 Film SO-267, BW

Sheet 4 of 11 Sheets

Time Reference GET GMT

Frome	Rev.	Comero	Approx.	Prid Po	ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo	Down I No.
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
9091	Sur- face	60mm	<u>-</u>	-	-	-	s	-	24°	Good	-	Taken from Flank of Cone 360° Pan from EVA 2
9092	"	"	-	-	-	-	"	-	"	"	-	11
9093	"	**	-	-	-	-	"	-	"	"	-	360° Pan from EVA 2 Modular Equipment Transporter
9094	"	11	-	-	_	-	SW	-	"	"	-	(M.E.T.) "
9095	"	**	-	-	-	-	"	-	"	**	-	LM in Distance, 360° Pan from EVA 2, M.E.T.
9096	"	**	. -		-	-	W	-	"	"	-	LM in Distance 360° Pan from EVA 2
9097	"	**	-	-	-	-	"	-	**	"	-	"
9098	"	"	-	-	-	-	"	-	**	"	-	360° Pan from EVA 2
9099	"	"	-	-	-	-	"	-	**	"	-	"
9100	"	"	-	-	-	-	N	-	**	"	-	"
9101	"	"	-	-	-	-	"	-	**	**	-	"
9102	"	"	-	-	-	-	"	-	"	"	-	"
9103	"	"	-	-	-	-	"	-	**	"	-	"
9104	"	"	-	-	-	-	".	-	. 11	•••	-	"
9105	"	"	- /	-	-	-	- "	-	**	"	-	"

Magazine <u>LL</u> AS14-<u>64</u> Film <u>SO-267, BW</u>

Sheet 5 of 11 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Ap prox.		ncipal o int		prox. Doto	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	` Quality	Area	Description
9106	Sur- face	60mm	-	-	_	-	NE		24°	Good	-	360° Pan from EVA 2
9107	"	-	-	-	_	-	"	_	"	11	-	11
9108	,,	"	-	-	-	-	"	,	"	11	-	11
9109	"	"	-	-	_	_	E	í	"	=	-	11
9110	"	"	-	-	-	-	"	ı	"	"	-	11
9111	"	"	-	-	-	-	"	-	"	"	-	"
9112	"	11	-	_	_	_	"	ı	"	**	-	"
9113	"	11	-	_	-	-	SE	,	"	"	-	11
9114	"	"	-	-	-	-	"_		"	"	-	Old Nameless in Background 360° Pan from EVA 2
9115	"	"	_	-	-	-	"	<u>-</u>	"	"	- -	"
9116	"	"	-	-	-	-	S	-	"	"	-	"
9117	"	"	-	-	-	-	"		"	"	-	"
9118	"	"	-	_	-	-	"	-	"	"	-	"
9119	"	"	-	_	-	-	SW	-	"	" ,	-	M.E.T. 360° Pan from EVA 2
9120	"	"	-	-	-	-	W	-	"	"	-	11

•

•

Magazine LL A514- 64 Film SO-267, BW

Sheet 6 of 11 Sheets

Time Reference

GET

Frome	Rev.	Comera	Approx.	Prio P	ncipal . oint	Ap Tilt	prox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	index Area	Description
9121	Sur- face	60mm	_	-		_	W		24°	Good	-	M.E.T., 360° Pan from EVA 2
9122	"	1,	_	_	<u>-</u>				11	,,		11
9123	,,	"					s		11	"		Pan of Gnomon EVA 2
9124	,,	"	-	_			"		11	,,	-	11
9125	"	"	-	-	-	_	N	-	11	"	-	11
9126	,,	"	-	_	-	-	"	-	11	"	-	"
9127	"	11	-	-	-	-	"	_	"		-	"
9128	,,	"	-	-	-		11	-	"	"	-	"
9129	"	"	<u>-</u>	-	-	-	"	-	"	"	-	11
9130	,,	"	-	-	-	_	s	-	11	"	-	Old Nameless in Background Pan of Large Rock EVA 2
9131	"	"	-	-			"	-	11	"	-	н
9132	"	11	-	ı	-	_	11	-	"	"	-	n
9133		"	-	-	-	-	"		"	"	-	"
9134	"	"	-	-	_	-	N	-	11	,,	-	Large Rock
9135	,,	11	-	-	_	_	"	-	11	"	-	11

Magazine <u>LL</u> AS14 - <u>64</u> Film <u>SO-267, BW</u>

Sheet 7 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	orox. Data	Fwd	Apprax.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9136	Sur- face	60mm	-	_			NW	<u>. </u>	24°		_	Large Rock
9137	,,	"				<u> </u>	"	-	"		_	Mitchell and M.E.T.
9138	".	"		-		-	<u>"</u>		"			Mitchell and M.E.T. LM in Background
9139	,,	,,	-	-	-	_	W	1	"	-	-	"
9140	,,	,,,	_	_	_	_	"	-	"	_	-	"
9141	"	,,,	-	-	_	_	NW	ı	"	-	-	360° Pan from EVA 2
9142	,,	"	-	_	_	_	"	•	11	-	-	11
9143	,,	"					N_	•	"			"
9144	"	"	_	-	-		"		11			
9145	"_	11	<u>-</u>	-	<u>-</u>			-				"
9146	-	11	_		-		NE_	_				"
9147	"	11	<u>-</u>	-	-	-	"	_				
9148	.,	"	-		_		E		11			"
9149	"	"		-	_			-	11		-	"
9150	"	"	-		-	-	SE	•	"	-	-	"

Magazine LL AS14-64 Film SO-267, BW

Sheet 8 of 11 Sheets

Time Reference

GET

Frome	Rev.	Camero	Approx.		ncipal oint	Ap _l Tilt	prox. Doto	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Areo	- Description
9151	Sur- face	60mm	-	_	-		SE	_	24°	Good	-	Old Nameless in Background 360° Pan from EVA 2
9152	,,	"					S	<u> </u>	"	"		"
9153	,,	"	-				"		11	"		"
9154	,,	,,	_	<u>-</u>	<u>-</u>		11	-	"	,,		"
9155	,,	"	-	-	-		SW	-	"	"	-	"
9156	,,	"	_			_	11	-	"	"	-	"
9157	,,	,,,	_	-	-	_	"	-	11	"	-	"
9158	,,	"	-	-	-	_	S	-	"	"	-	Pan of Footprint Trench
9159	,,	"	-	-	-	_	"	-	"	"	-	"
9160	,,	"	-	-	-	_	SW	-	11	"	-	"
9161	,,	11	_	-	_	-	"	-	11	,,	-	
9162		11	_	-	-	_	"	-	"	,,	-	. п
9163	,,	11	_	_	-	_	,,	-	11	"	-	11
9164	,,	"	_ 1	-	-	_	NE	-	11	"	-	11
9165	"	"	-	-	-	-	"	-	"	"	-	11

Magazine LL AS14 - 64 Film SO-267, BW

Sheet 9 of 11 Sheets

Time Reference GET GMT

Frome	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angie	Quality	Area	Description
9166	Sur- face	60mm	-	_	-		W	,	24°	-	_	Pan of Footprint Trench
9167	,,	"	-	-	-	-	"		**	-	-	LM in Background . 360° Pan from EVA 2
9168	,,	11	-	-	-	-	11	ı	**	-	-	н
9169		"	<u>-</u>	<u>-</u>			_NW		***		<u>-</u>	11
9170	"	"	-	-	-	-	11	-	"	-	-	n
9171	"	"	-	-	-	-	N	-	"	-	-	n
9172	,,	,,	-	-	-	-	"	1	11	-	-	11
9173	"	11	-				NE		"			Mitchell and M.E.T. 360° Pan from EVA 2
9174	"	11	-	_	_	<u>-</u> _	"		"		-	11
9175	,,	11	_	-	_	<u>-</u>	Е	-	"	_		Tracks of M.E.T. 360° Pan from EVA 2
9176	,,	"	-			<u>-</u> _			11			11
9177	,,	"	_	-		<u>-</u>	_"_					
9178	,,	"	-	ı	-		SE		"		<u> </u>	11
9179	"	"	_	_			"		**		<u>-</u>	11
9180	-,,	,,	_	-	-		S		11	<u> </u>		"

Magazine <u>II.</u> A\$14-<u>64</u> Film SO-267, BW

Sheet 10 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Арргох.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Areo	- Coscription
9181	Sur- face	60mm	-	-		-	S		24°	Good	_	360° Pan from EVA 2
9182	,,	11	_	-	-	_	,,	_	"	,,	-	"
9183	-,,	"	-	-			"		"	"		11
9184	,,	"	-	-	-	_	SW	_	"	"	_	"
9185	,,	"	_	-	-	_	,,	_	"	"	ı	"
9186	"	"	_	_	_	_	,,	_	"	,,	-	"
_9187	"	"					w		"	;		LM in Background 360° Pan from EVA 2
9188	"	"	_	_	-	_	_	-	"	,,	-	Photo of Gnomon and LM
9189	,,	11	_	-	-	_	-		Low	Dark	-	Earth Crescent and LM Taken from Surface
• 9190	,,	11	•	-	-	_	_		,,	 	-	"
9191	"		_	_	_	_	-	ı	11	"	_	"
9192	"	"	-	_	_	_	_		"	"	_	"
9193	"	"	_	_	-	_	_			,,	_	11
9194	,,	11	_	_	-	_	-	_	***	,	_	"
9195	-,,		_				_	_		,,	_	11

Magazine LL AS14-64 Film SO-267, BW Sheet 11 of 11 Sheets

Time Reference GET GMT

Frome	Rev.	Camera	Арргох.		ncipal oint	Api Tilt	orex. Data	Fwd	Approx.	Phato	Photo	
No.	No.	f Length	Photo Scale	Lot,	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Index Area	Description
9196	Sur- face	60mm	-	-	**	_	-	-	Low	Dark	-	Earth Crescent and LM Taken from Surface
9197	,,	**	-	-	-	_	-	-	11	**	-	tt
9198	,,	"	-	-	•	-	SW	-	24°	Good	-	Solar Wind Panel
9199	,,	"	-	•	•	-	"	-	**	**	-	п
9200	"	"	-	1	-	-	"	-	"	**	-	н
9201		11	-	-	-	-	"	-	11	**	-	11
			END OF	MAGAZ1	NE							
												,
					-							

MAGAZINE KK

(Frames AS14-65-9202 through 9215)

Magazine KK consists of 70-mm black and white photos taken at low sun angle from the LM window with the 60-mm lens. All 14 of these photos were taken after landing but prior to EVA 1.

Frames 9202 through 9208 are views generally to the north of the LM, and frames 9209 through 9215 are views to the south.

Magazine <u>KK</u> A\$14 - <u>65</u> Film <u>SO-267, BW</u>

Sheet 1 of 1 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal pint		prox. Dota	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Az imuth	O/L	Angle	Quality	Area	Description
9202	Sur- face	60mm	Surface Oblique	NA	NA			NA	12°	Good	76	View From LM Window to NW
9203	"	"	"	11	11			"	"	"	:	11
9204	.,	,,	"	:	"			•	"	, ,,	"	11
9205	"	"	"		"			"	"	"	"	"
9206		"	"	"	"			"	"	"	"	View From LM Window to WNW
9207		"	"	"	"			"	"	"	"	11
9208	"	"	11	"	11			"	"	"	"	View From LM Window to NW
9209	"		"	"	"			••	"	"	"	View From LM Window to SW
9210	"	"	"	"	11			"	"	"	,,	"
9211	,,	"	"	"	11			;	"	"	"	View From LM Window to WSW
9212	,,	"	11	"	"			"	"	"	"	View From LM Window to W
9213	"	"	"	"	"			"	"	"	11	"
9214	,,	"	,,	11	11			"	"	"	11	"
9215	"	"	"	"	11			"	"	"	11	"
			END OF	MAGAZII	ie							

MAGAZINE II

(Frames AS14-66-9216 through 9360)

Magazine II is a 70-mm color sequence taken from the LM in lunar orbit and on the lunar surface using a 60-mm lens with a reseau. Frames 9216 through 9223 are views from the LM window during lunar orbit showing the Command Service Module (CSM). Frames 9224 through 9228 were also taken from the LM portraying earthrise over the lunar horizon. Frames 9229 through 9326 were taken on the lunar surface during the first EVA. The LM, the ALSEP, and views of the lunar surface are shown. Frames 9344 through 9360 were taken of the CSM during rendezvous. Photo quality ranges from fair to good in this magazine.

Magazine II AS14-66 Film SO-168, Color

Sheet 1 of 10 Sheets

Time Reference

GET

Frome	Rev.	Camero	Approx.		ncipal oint	App Tilt	orox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Areo	Description
9216	12	60mm	_	uan	nany .	-	-	-	High	Good	-	View from LM Window During Lunar Orbit Showing the CSM
9217	"	11	-		-	-	-	-	**	"	-	11
9218	"	11	-	-	-	-	-	-	"	"	-	11
9219	"	"	_	-	-	-	-	-	11	11	-	11
9220	"	"	-	-	-	-	-	-	"	11	_	11
9221	"	"	_	<u>-</u>	-	-	-	-	11	"	-	11
9222	"	11	_	-	-	-	-	-	11	"	-	11
9223	11	**	-	-	-	-	-	-	11	11	-	11
9224	14	"	_	9.0°S	105.0° E	-	260°	-	50°	11	82	Earthrise from LM near Pasteur Crater
9225	"	17	<u>-</u>	"	104.0° E	-	11	80%	11	"	11	11
9226	,,	11	_	**	103.0° E	-	"	"	11	"	11	11
9227	"	11	-	HORI	ZON	-	255°	"	11	"	11	11
9228	"	"	-	"	"	-		"	**	"	11	11
9229	-	11	-	-	-	-	-	-	12°	11	-	Cdr. Shepard on Lunar Surface from LM Looking NW
9230	-	"	-	-	-	-	-	-	11	**	-	11

Magazine <u>II</u> AS14 - 66 Film S0-168, Color

Sheet 2 of 10 Sheets

Time Reference

GET

Frome	Rev.	Comera	Ap p rax.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	D
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
9231	NA	60mm	NA	_	-	-	_	-	12°	Good	76	Cdr. Shepard on Lunar Surface from LM Looking NW
9232	"	"	"	-	-	-	-	-	11	-	-	Cdr. Shepard on Lunar Surface with Flag Looking West
9233	"	11	"	_	-	-	-	-	"	-	-	11
9234	"	"	**	-	-	-	-	-	"	-	-	LM Footpad
9235	"	"	"	_	-	-	-	-	"	-	-	"
9236	"	"	11	-	-	-	-	-	-	-	-	Lunar Surface to Horizon with High Gain Erectable Antenna
9237	"	"	"	-	-	-	-	-	-	-	-	Looking West
9238	"	11	**	-	-	-	-	-	-	-	-	Lunar Surface to Horizon with Solar Wind Panel Looking NW
9239	"	11	11	-	~	-	-	-	-	-	-	"
9240	"	"	**	-	-	-	-	-	-	-	-	Lunar Surface to Horizon with Solar Wind Panel Looking North
9241		"	11	-	-	-	-	-	-	- ;	-	Astronaut Mitchell with TV Camera Looking North
9242	"	"	11	-	-	-	-	-	-	-	-	"
9243	"	"	11	-	-	-	-	-	-	-	-	"
9244	"	"	11	-	-	-	-	-	-	-	-	Lunar Surface to Horizon Looking Northeast
9245	"	11	11	_	-	-	-	-	-	-	-	"

Magazine II AS14-66 Film S0-168, Color

Sheet 3 of 10 Sheets

Time Reference

GET

Frame	Rev.	Comero	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No,	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Área	Description
9246		60mm	_	_	-	_	_	_	12°	Good	76	Lunar Surface to Horizon Looking East
9247		11	-	_	-				11	17	**	11
9248	_	"	_	_	-	-	-	-	11	11	**	11
9249		"	_	_	_	-	_	-	11	11	11	Lunar Surface to Horizon Looking East Southeast
9250		ч	-	-		_			"	11	**	Lunar Surface to Horizon Looking Southeast
9251	_	11	-	_	-		-		11	••	11	tt
9252		11	-	-		-	-	-	11	"	11	Lunar Surface to Horizon (with LM Footpad) Looking South
9253	_	11	-	-	-	-	-	-	11	"	11	Lunar Surface to Horizon with Partial LM Looking South
9254	_	11	_	-	-	-	-	_	11	*1	"	View of LM Looking Southwest
9255		11	-	-	-	-	-	_	11	11	"	11
9256			_	_	_	_	_	-	11	"	11	"
9257		,,	_	-	_	_	-	-	11	11	11	Erectable Antenna Looking West
9257		,,	_	-	-	_		-	11	"	"	View of LM Looking Southwest
9259		et	_	_	-	_	_	_	11 .	"	11	1,
9260		.		_	_	_	_		••	"	"	View of LM Looking South

Magazine II AS14 - 66 Film SO-168, Color

Sheet 4 of 10 Sheets

Time Reference

GET

Frome	Rev.	Comero	Approx.	Pri P	ncipal oint	A _{PI} Tilt	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Areo	Description
9261	NA	60mm	NA	-	-	-	-	NA	12°	Good	76	LM Descent Nozzle
9262	,,	,,	"	-	-	-	_	"	"	"	"	"
9263	"	''	"	_	-	-	-	11	11	11	"	LM Engine Blast Effect on Surface
9264	,,	"	"	-	-	-	_	**	"	"	"	LM Footpad
9265	,,	"	"	-	-	- I	-	"	"	"	"	"
9266	"	,,,	"	-	-	-	-	11	"	"	"	LM Engine Blast Effect on Surface
9267	,,	,,	"	-	_	_	-	,,	"	,,	"	"
9268	,,	11	"	_	_	_	-	,,	"	"	"	"
9269	,,	11	"	-	-	-	-	.,	"	"	11	LM Footpad
9270	,,	"	"	-	_	-	-	"	"	"	"	"
9271	,,	,,	"	-	_	-	-	,,	"	"	,,	Lunar Surface to Horizon Looking West
9272	,,	"	"	-	-	-	-	"	"	"	"	Lunar Surface to Horizon Looking Northwest
9273	,,	"	"	-	-	-	-	,,	"	"	"	"
9274	,,	,,	"	-	-	-	_	,,	"	"	"	11
9275	,,	''	"	_	-	-	-	"	"	"	"	Lunar Surface to Horizon Looking North

Mogozine II AS14-66 Film SO_168, Color

Sheet 5 of 10 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.	Pri	ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Az imuth	0/L	Angle	Quality	Area	Description
9276	NA	60mm	NA					NA	12°	Good	76	Looking North at LM
9277	,,	,,	11	-	-	-	-	"	"	,,	=	11
9278	,,	,,	"	-	-	_	_	"	"	••	"	"
9279	,,	"	"	_	-	_	_	"	''	"	"	"
9280	,,	,,	"	-	-	_	_	,,	,,	,,	"	Lunar Surface to Horizon Looking Northeast
9281	,,	"	"	-	-	-	-	"	"	"	"	Lunar Surface Looking East
9282	,,	,,	"	-	-	-	-	"	"	"	**	н
9283		"	"	-	-	-		"	"		11	11
9284	,,	"	"		-		_	"	"	"	"	п
9285	,,	"	"		-	_		"	"	"	"	Lunar Surface Looking Southeast
9286	,,	"	"					"	"	"	"	"
9287	,,	,,	"		-	-		-,,	"	"	"	"
9288	,,	"	,,	-		-		"	"	"	"	Lunar Surface Looking South
9289	-,,	,,	"	-		_	_	"	,,	"	"	"
9290	"	''	***	-	-	-	-	"	"	"	"	Lunar Surface Looking Southwest

.

*

Magazine II AS14 - 66 Film S0-168, Color

Sheet 6 of 10 Sheets

Time Reference

GET

Frame	Rev.	Camero	Apprax.		nc ipal oint	Ap Tilt	prax. Data	Fwd	Approx.	Photo	Photo	D
No.	No.	f Length	Photo Scale	Lat.	Lang.	Angle	Azimuth	O/L	Sun Angle	Quality	In dex Area	Description
9291	NA	60mm	NA	-	-	-	_	NA	12°	Good	76	Lunar Surface to Horizon Looking Southwest
9292	,,	11	"	-	-	_	_	"	"	"	11	11
9293		"	"	-	-	_	-	"	"	"	,,	Lunar Surface to Horizon Looking West
9294	,,	11	"	_	-	_	_	"	"	"	"	п
9295	١,,	""	"	-	-	-	-	"	"	"	11	Lunar Surface to Horizon Looking Northwest
9296	,,	11	"	-		-	_	"	"	"	"	Lunar Surface to Horizon Looking North
9297	,,	"	11	-	-	_	-	"	"	"	"	п
9298	,,	,,	"	-	-	_	-	"	"	"	"	"
9299	,,	11	"	-	-	-	_	"	"	"	11	Lunar Surface to Horizon Looking Northeast
9300		11	"	-	-	-	-	"	"	.,	**	Lunar Surface to Horizon Looking North
9301		11	"	-	-	_	_	"	"	**	**	Astronaut Mitchell with TV Camera Looking Northeast
9302		11	"	_	-	_	-	:	"	,,	**	"
9303	,,	11	11	-	-	-	-	**	"	"	**	View From West of LM Looking East
9304	,,	11	"		-	-	-	"	11	"	**	11
9305	,,	"	11	_	_	_	_	F1	11	,,	11	11

Magazine II AS14-66 Film S0-168, Color

Sheet 7 of 10 Sheets

Time Reference

GET

Frome	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description .
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9306	NA	60mm	NA	-	-	_	-	NA	12°	Good	76	View from West of LM Looking East
9307	"	"	"	-	-	_	-	"	"	"	11	"
9308	"	"	"	-	-	-	-	11	11	11	11	Solar Wind Panel from Near LM Looking Northwest
9309	"	"	"	-	-		-	"	"	"	11	11
9310	"	"	"	-	-	_	-	"	11	"	"	"
9311	"	"	"	-	-	-	-	"	"	"	11	Lunar Surface to Horizon Looking North
9312	"	"	11	-	-	_	-	"	"	"	"	"
9313	"	"	11	-	-	-	-	11	11	"	"	Lunar Surface to Horizon Looking South
9314	"	11	11	-	-	-	-	11	"	"	"	" .
9315	"	"	11	-	-		-	"	"	"	"	Lunar Surface to Horizon Looking Southwest
9316	"	"	"	-	-	-	-	,,	11	"	11	Lunar Surface to Horizon Looking West
9317	"	"	"	-	_	_	-	"	"	"	11	View from LM Window Looking West
9318		"	"	-	-	-	-	"	11	"	.,	"
9319		"	11	-	_		-	"	11	"	11	"
9320	"	"	11	-	-	-	_	,	"	"	"	Lunar Surface to Horizon Looking West

Magazine ___II __A\$14-_66 ___Film SO-168, Color

Sheet 8 of 10 Sheets

Time Reference

GET

Frame	Rev.	Camero	Approx.		ncipal oint		Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scole	Lot.	Long.	Angle	Az imuth	0/L	Sun Angle	Quality	Area	Description
9321	NA	60mm	NA	-	_	-	-	NA	12°	Good	76	Lunar Surface to Horizon Looking West
9322	"	"	"	-	-	-	-	"	11 -	"	11	Solar Wind Panel f ro m LM Window Looking Southwest
9323	"	"	"	-	-	-	-	"	**	"	"	TV Camera from LM Window Looking North
9324	"	"	"	-	-	-	-	"	"	"	"	View of Flag from LM Window
9325	"	"	"	-	-	-	-	"	"	"	"	"
9326	"	"	"	-	-	-	_	"	"	"	11	Erectable Antenna from LM Window
9327	"	"	11	-	-	-	-	"	"	"	11	View of Earth from LM Window
9328	"	"	11	-	-	-	-	"	"	"	"	
9329	''	"	"	-	-	-	-	,,	"	"	"	11
9330	''	"	**	-	-	-	-	"	"	''	"	11
9331	"	"	"	-	-	-	-	"	••	"	"	11
9332	"	"	11	-	-	-	-	",	"	"	"	11
9333	,,	"	"	-	. –	-	-	"	"	"	11	View of ALSEP Station from LM Window
9334	,,	"	"	-	-	-	-	"	"	"	"	11
9335	,,	"	"	-	-	-	, <u>-</u>	"	"	"	11	"

Magazine II AS14 - 66 Film S0-168, Color

Sheet 9 of 10 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		orox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Az imuth	0/L	Sun Angle	Quality	Index Area	Description
9336	NA	60mm	NA	-		-	-	NA	12°	Good	76	View of ALSEP Station from LM Window
9337		,,	11	<u>-</u>				"	"	"		"
9338	,,	"	"	_	_	-	-	"	"	"	11	"
9339],, _	11	"	-	<u>-</u>	-	-	,,	11	"	11	View of Flag, Surface to Horizon Looking NW from LM Window
9340	,,	11	"	-	-	-	-	"	"	"	"	View of M.E.T. on Surface from LM Window
9341	,,	,,	"	-	-	-	-	"	"	"	11	TV Camera as Seen from LM Window Looking North
9342	,,	"	"	-	 -	-	-	"	"	"	11	Lunar Surface to Horizon Showing M.E.T. Tracks
9343	,,	"	, "	-	-	-	-	"	"	"	"	"
9344	.,	"	"	·NA	NA	NA	NA	"	"	"	NA	Rendezvous View of CSM from LM
9345	"	"	11	-	-	-	-	"	"	"	"	n .
9346	,,	"	11	-	<u>-</u>	-	_	"	"	"	"	II .
9347	,,	"	11	_		-	-	"	"	11	"	"
9348	,,	"	"	-		_	-	"	"	"	"	"
9349	"	"	11	-	-	-	-	"	"	"	"	"
9350	,,	,,	**	_	_	-	-	"	"	"	"	"

Magazine II AS14 - 66 Film S0-168, Color

Sheet 10 of 10 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9351	NA	60mm	NA	NA	NA	NA	NA	NA	-	Good	NA	View of CSM During Docking Approach
9352	"	"	"	"	"	"	"	"	"	"	"	11
9353		"	"	''	"	"	"	"	**	"	"	"
9354	"	**	"	"	"	"	"	"	"	Fair	"	"
9355	"	"	"	"	"	"	"	".	**	"	"	п
9356	"	11	"	"	,,	"	"	"	**	"	"	"
9357	".	11	11	"	"	"	"	"	"	"	11	11
9358	-	11	**	"	11	"	""	"	=	11	"	H .
9359	"	11	"	''	"	"	"	**	11	"	11	п
9360	"	"	"	"	"	"	"	11	11	"	11	н
				END OF	MAGAZINE							

MAGAZINE JJ

(Frames AS14-67-9361 through 9393)

Magazine JJ consists of 70-mm color photographs taken on the lunar surface by Astronauts Shepard and Mitchell during the first EVA. A 60-mm lens with a reseau was used. Photo quality is generally good. Most of the photographs in this magazine are views showing the deployment of the ALSEP equipment with specific photographs of each individual piece of the equipment.

Magazine __JJ ___AS14-__67 __Film _S0-168, Color

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Phato Scale	Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Areo	Description
9361	NA	60mm	NA	_	-	-	-	NA	12°	Good	76	ALSEP Station and M.E.T.
9362	"	"	11	-	_	-	-	"	"	"	"	Passive Seismic Experiment
9363	"	"	11	-	-	-	-	"	"	"	"	ALSEP and P.S.E.
9364	"	"	11	_	-	-	-	"	"	"	**	C.P.L.E.E. Package
9365	,,,	"	"	-	-	-	-	"	"	"	"	C.P.L.E.E., ALSEP, M.E.T.
9366	,,	"	**	-	-	-	-	"	"	"	"	ALSEP Package
9367	"	"	"	-	-	-	-	"	"		"	M.E.T. Tracks and LM Looking
9368	,,	"	"	-	-	-	-	"	"	"	11	II II
9369	"	"	11	-	_	-	-	"	"	"	"	C.P.L.E.E. Package
9370	"	"	11	-	-	-	-	"	"		11	"
9371	,,	"	"	-	-	-	-	"	11	"	11	11
9372	,, -	"	,,	-	-	-	-	"	11	"	"	C.P.L.E.E. and ALSEP Packages
9373	"	"	"	-	-	-	-		"	"	"	C.P.L.E.E. Package
9374	"	"	11	-	-	-	-		''	"	**	Cdr. Shepard with TV Looking
9375	,,	,,	"	_	_		- 1		"	"	"	ALSEP Station, C.P.L.E.E.

Magazine JJ AS14-67 Film S0-168, Color

Sheet 2 of 3 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
9376	NA_	60mm	NA	<u>-</u>			_	NA	12°	Good	76	ALSEP Station, C.P.L.E.E.
9377	,,	"	"					"	"	,,	**	"
9378	,,	"	"	-				"		"	"	ALSEP Pkg., A.S.E. Pkg.
9379	,,	"	"		<u>-</u>			"	"	"	"	ALSEP Package
9380		11	,,	-	-	_	-	"	"	"	"	u.
9381	,,	"	"				_	"	"	"	"	"
9382		"	"	-	-	_] _	"	"	Poor	"	ALSEP Pkg, LM Looking East
9383	,,	"	"	-	-	-	-	"	"	Good	"	ALSEP Package
9384	,,	"	"		-	-	_	"	*	"	"	ALSEP, P.S.E. Packages
9385		"	"	-	-	-	-	"	:	"	"	Laser Reflector
9386]	"	"		-	-	-	"	"	"	"	"
9387	"	, ,	"	-	-	-	-	"	"	Poor	"	Laser Reflector, LM, Astronaut Looking East
9388	,,	,,,	.,	-	-	-	-	"	"	Good	"	LM Looking East Southeast
9389		"	** 1	-	-	_	-	"	"	"	"	Astronaut Mitchell, ALSEP Looking West
9390	"	"	14	11	_	-	-	"	"	"	"	Lunar Surface Close-ups

Mogozine JJ AS14 - 67 Film S0-168, Color

Sheet 3 of 3 Sheets

Time Reference

GET

Frame No.	Rev. No.	Camero f Length	Approx. Photo Scole	Principal Point		Approx. Tilt Doto		Fwd	Approx.	Photo	Photo	Description
				Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
9391	NA	60mm	NA	-	-	-	-	NA	12°	Good	76	Lunar Surface Close-ups
9392	"	11	11	-	-	-	-	-	"	"	11	11
9393	"	"	"	-	-	-	-	:	"	"	"	11
					END OF	MAGA	ZINE					
· · · · · ·									,			

MAGAZINE MM

(Frames AS14-68-9394 through 9492)

Magazine MM is a 60-mm focal length black and white sequence of the lunar surface during EVA 2. Several large lunar rocks were photographed during the traverse. The modular equipment transporter (M.E.T.) and resulting tracks can be seen in several sequences. One 360° panorama contains views of Old Nameless Crater with large boulders in the foreground. Numerous views of the color chart and gnomon were recorded along with the core tube sampler.

Magazine <u>MM</u> A\$14-<u>68</u> Film <u>SO-267</u>, BW

Time Reference

GET GMT

Frame No.	Rev. Na.	Camera f Length	Apprax. Photo Scale	Principal Point		Approx. Tilt Data		Fwd	Approx.	Photo	Photo	
				Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
Un-Num- bered	NA	60mm	NA	-	-	NA	N		24°	Good	-	Half Frame. TV Camera in Initial Position from Vicinity of MESA
9394	"	"	"	-	-	"	W		11	"	_	Looking W from LM to ALSEP Area Showing Footprints, Rock in Dis- tance. Astronaut Shadow
9395	"	"	"	-	-	"	٠,	-	"	,,	_	"
9396	"	"	11	-	-	"	"	-	"	11	-	Start EVA 2, Pan 1 of Stone on Edge of Depression Footprint
9397	"	"	11	-	-	"	NW	-	**	"	-	Stone on Edge of Depression, Small Stones and Small Craters
9398	"	**	"	-	-	,,	N	-	11,	"	-	2 Large Stones Near Depression, Small Stones and Craters
9399	"	11	"	-	-	"	"	-	11	11	-	Closer View Showing 3 Small Craters, Small Rock & Texture
9400	"	11	11	-	<u>-</u>	"	"	-	"	"	<u>-</u>	2 Small Craters, Larger Crater with Smaller Crater Inside, Smal
9401	"	"	"	-	-	"	NE	-	"	"	-	Crater with Smaller Crater Inside
9402	11	"	**	-	-	"	Е	-	"	"	<u>-</u>	Look into Sun, Small Rocks Stand Out
9403	"	11	11	-	-	"	SE	-	11	"	-	Stone Stands Out Against Surface
9404	"	"	"	-	-	"	S		"	"	-	Astronaut and M.E.T.
9405	"	"	"	-	-	"	"	_	11	11	-	M.E.T. and Astronaut Closer View, Continued Pan
9406	"	"	11	-	-	"	SW	-	"	"	-	M.E.T. Track and Footprints
9407	••	"	"	-	-	"	"	_	11	"	-	"

Sheet 1 of 7 Sheets

Magazine <u>MM</u> AS14 - 68 Film SO-267, BW

Sheet 2 of 7 Sheets

Time Reference

GET

Frame No.	Rev. No.	Camera f Length	Approx. Photo Scale	Principal Point		Approx. Tilt Data		Fwd	Approx.	Photo	Photo	D
				Lot.	Lang.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
9408	NA	60mm	NA	-	-	NA	SW	-	24°	Good	-	LM on Horizon, M.E.T. Tracks Back to LM End Pan
9409	,,	11	"		-	"	-	-	11	11		LM on Horizon. M.E.T., Color Chart, Gnomon
9410	,,	.11	"	_	-	"	NW	-	"	"	_	Color Chart, Gnomon, and Footprints
9411	,,	11	11		-	"	"	-	"	11	-	11
9412	,,	"	11	_	-	"	"	-	"	"	-	11
9413	"	11	11	-	-	"	SW	-	"	11	- -	Color Chart & Gnomon with LM on Horizon and M.E.T. Trail
9414	"	"	11	-	-	"	N	1	"	"	-	Shepard Examining Large Rock
9415	,,	"	11	-	-	"	W	1	"	"	-	Looking West, Start Pan 2
9416	"	"	11	-	-	"	"		11	"	-	Rocks on Edge of Shallow Depression
9417	"	"	"	-	-	"	NW	-	"	11	-	Large Rock with Other Large Rocks in Background
9418	"	11	11	-	-	"	N	-	"	11	-	Shallow Craters and Large Rocks
9419	"	"	11	-	-	"	NE	-	"	"	-	Large Rock on Slope, Small Rocks Scattered Over Area
9420	"	,,	11	-	-	"	"	-	"	"	-	"
9421	"	"	11	-	-	"	Е	-	"	11	-	Small Rocks and Shallow Depressions, Large Rock
9422	"	"	11	-	-	"	"	-	11	"	-	Astronaut Pulling M.E.T., Small Crater, M.E.T. Tracks

Magazine MM AS14- 68 Film S0-267, BW

Sheet 3 of 7 Sheets

Time Reference

GET

GMT

Frome	Rev.	Camera	Approx.		ncipal oint		orox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9423	NA	60mm	NA	_	-	NA	SE	_	24°	Good	-	Small Craters, M.E.T. Tracks and Small Rocks
9424	"	"	"	-		"	"		"	_ ,,	-	Small Crater, M.E.T. Tracks, Large Shallow Crater Near Horizo
9425	"	"	"	•	-	"	s	-	"	"	-	Crater "Old Nameless" on Hori- zon, Smaller Craters, Large Rock
9426	"	"	"	-	-	"	"	-	"	"	-	''Old Nameless'' on Horizon, Smaller Craters
9427	"	"	"	_	-	"	SW	-	***	"	-	"
9428] "	"	"	-	-	"	"	-	"	"	-	Flat Rock Formation Near Crater
9429	"	"	"	-	-	"	"	-	"	"	-	"
9430	"	"	"	-	-	"	W	-	"	"	-	Boulder and Large Rocks Near Crater
9431]	,,	"	-	-	"	NW	_	"	''	-	Crater Near Ridge, Large Rocks
9432	"	"	"	-	-	"	"	-	"	"	-	Large Stones, Boulders on Slope Near Mound & Crater. End Pan
9433	"	"	"	-	-	"	N	-	"	"	-	Large Rocks, Mound with Large Rocks in Top & Sides. Start Pan
9434	"	"	"	-	-	"	NE	-	"	"	-	Small Craters, Boulders Near Horizon
9435	"	"	"	-	-	"	"	-	**	''	-	Boulder Near Horizon
9436	"	"	" ,	_	-	"	E	-	"	"	-	Large Rocks Looking into Sun
9437	"	"	11 /	-	-	"	"	-	***	**	-	Large Rocks

.

•

Magazine <u>MM</u> AS14 - <u>68</u> Film <u>SO-267</u>, <u>BW</u>

Sheet 4 of 7 Sheets

Time Reference

GET

Frame	Rev.	Camero	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Downisting
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
9438	NA	60mm	NA	-	-	NA	SE	-	24°	Good	-	Rolling Surface with Small Craters & Rocks. Footprints
9439	_,,	"	. "		-	"	"	-	"	"		M.E.T. Near Rim of Depression
9440	"	,,	"	-	-	"	S	-	"	"	-	Old Nameless on Horizon
9441	"	"	"	-	-	"	"	-	"	"	-	"
9442	"	''	11	-	-	"	SW	-	"	"	-	M.E.T. Tracks, Boulders, LM in Distance, End Pan
9443	"	**	!!	-	-	''	N	-	"	"	-	Color Chart & Gnomon in Edge of Boulder Field
9444	"	"	**	-	· -	"	"	-	"	"	-	"
9445	"	"	**	-	-	. "	NW	-	"	"	-	Cracked Boulder on Ridge
9446	"	"	**	-	-	"	N	-	11	"	-	Boulder Field
9447	"	"	**	-	-	"	SW	-	**	"	-	Looking SW From Ridge
9448	"	"	**	-	-	"	"	-	"	"	-	Boulders
9449	"	"	11	-	-	"	"	-	"	''	-	"
9450	"	"	**	-	-	"	W	-	**		-	Large Rock Formation
9451	-,,	"	**	-	-	",	N	-	"	"	-	Large Boulders Overlooking Boulder Field
9452	"	"	"	-	-	"	NW	-	"	"	-	Boulder Formation

Magazine MM AS14 - 68 Film S0-267, BW

Sheet 5 of 7 Sheets

Time Reference

GET

Frame	Rev.	Comera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9453	NA	60mm	NA	-	-	NA	w	-	24°	Good	-	Boulder Formation
9454	,,	. 11	11	-	-	"	N	-	"	"	-	Core Tube Inserted in Surface Large Shallow Depression
9455	"	"	"	-	-	١,	"	-	11	"	-	11
9456	"	. 11	11	-	-	"	"	-	"	"	-	u u
9457	"	11	11	-	-	"	"	-	"	"	-	"
9458	"	"	,,	-	-	"	"	-	11	"	-	11
9459	"	11	11	-	-	"	W	-	"	11	_	Color Chart & Gnomon. Large Boulders on Horizon to West
9460	"	11	11			11	SW		11	"	-	Color Chart and Gnomon
9461	"	"	"			"	"		11	"	-	11
9462	"	"	11	-	<u>-</u>	"	11	-	"	"	-	"
9463	"	"	"	-	-	"	"	-	11	11		"
9464	"	"	11	-	-	"	"	-	"	"	-	"
9465	"	"	11	-	_	"	N	-	"	"	_	"
9466	"	"	**	-	-	<u> </u>	"	-	"	"	-	"
9467	-,,	"	11	-	-	"	"	-	11	"	-	"

Sheet 6 of 7 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd .	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	- Control of the cont
9468	NA	60mm	NA	-	-	NA	N	-	24°	Good	-	Large Rocks
9469	,,	"	"	-	-	**	NE	_	"	"	_	"
9470	,,	"	=	-	-	**	"	_	,,	,,	_	11
9471	,,	"	"	_	-	**	",	_	,,	"	_	"
9472	<u>"</u>	"	11	-	<u></u>	"	N_		"	"		Large Rock, Start Pan 4
9473	**	"	11	-	-	**	,,	-	"	"	-	"
9474	,,	"	"	_	-	**	,,		"	"	_	
9475	,,	"	"	_	-	"	N₩	_	"		-	п
9476	,,	"	"	-	-	**	"	_	"	"	-	11
9477	"	"	=	1	-	**	W	_	"	"	-	ALSEP Area in Distance, Break in Pan
9478	,,	"	"			**	NW	-	"	11		Large Rock, Continuous Pan
9479	**	11	"	-	-	**	••	-	"	"	-	"
9480	"	"	"		-	"	N	-	"	"		Large Crater Near Horizon
9481	,,	11	"	_	_	"	:	-	"	••	-	***
9482	"	"	"	-	-	"	NE	-	"	"	-	Large Rocks

Magazine <u>MM</u> AS14 - 68 Film SO-267, BW

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9483	NA	60mm	NA	-	-	NA	NE	-	24°	Good	-	Large Rocks, Ridge Line
9484	"	11	11	-	-	"	E	ı	11	"	-	11
9485	"	11	11	-	-	"	"	-	11	"	-	11
9486	11	11	11	-	-	"	SE	-	11	"	-	LM with Triplet in Background with Astronaut
9487	"	"	"	-	-	"	"	-	11	"	-	LM with Triplet in Background with Astronaut. End Pan
9488	"	"	"	-	-	11	S	•	11	"	-	Looking SE Toward Triplet. Start Pan
9489	"	"	11	-	-	"	SE	-	11	"	-	Shallow Crater on Ridge
9490	"	11	11	-	-	"	S	-	"	"	-	Double Shallow Craters on Ridge
9491	"	11	11	-	-	"	"	-	11	"	-	Shallow Crater with ALSEP in Distance
9492	"	"	"	-	-	"	"	-	"	"	-	S-Band Antenna
				END OF	MAGAZINE							
			-									
						-						

Sheet 7 of 7 Sheets

MAGAZINE P

(Frames AS14-69-9493 through 9656)

Magazine P is a 500-mm black and white strip, which includes three photographic passes of the Descartes landing area.

Frames 9497 to 9535 are oblique to vertical to oblique, and they are of good quality over the site. This sequence was taken on revolution 27 at a 58° sun angle. Surface recognition limits are approximately 20 meters on the vertical frames.

Frames 9536 through 9575 include the same coverage as above and were taken on revolution 28. Frames 9576 and 9577 are opportunity shots on Fra Mauro H and HA and of 14-1, 14-2, 14-3, and 14-4, which are landmark tracking points. Frames 9579 through 9615 show the third oblique to vertical pass of Descartes on revolution 30 with a 59° sun angle. Frames 9616 through 9620 are westward looking high obliques of Lansberg B, D, and F, and frames 9622 through 9656 include an oblique to vertical sequence of Lansberg B at low sun angle.

Magazine P AS14 - 69 Film 3400, BW

Sheet 1 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9493	TLI	500mm	-	-		-	_		0°	Poor	-	Four-Frame Sequence of Lunar Limb Crescent
9494	"	"	-	-	-	-	-		"	"	-	Limb Crescent
9495	"	"	-	-	-	-	-		"	, "	_	"
9496	,,	"	-	-	-	-	_		"	"	-	"
9497	27	"	1:222,000	9.0°S	19.5°E	0-10	280°	0	58°	Fair	78	Approach to Descartes DE-2
9498	"	"	1:250,000	"	19.0°E	30°		50%	"	"	"	Approach to Descartes 1st 500-mm Pass
9499	"_	"	"	"	"	"	:	"	"	"	"	"
9500	"	. 11	"	"	18.5°E	"	:	"	11	"	"	"
9501	"	"	"	"	"	"	:	11	11	"	***	11
9502	"	"	1:240,000	"	17.5°E	20°	"	11	11	11	11	11
9503	"	"	"	"	"	"	"	"	"	"	"	"
9504	"	"	1:230,000	"	17.0°E	"	11	"	"	"	"	11
9505	"	"	"	"	"	"	:	"	"	"	"	"
9506		"	1:225,000	**	16.5°E	"	"	"	11	"	"	"
9507	"	11	"	**	"	"	"	*1	"	"	"	Oblique View of Descartes Landing Site

Magazine P AS14 - 69 Film 3400, BW

Sheet 2 of 11 Sheets

Time Reference

GET

Frome	Rev.	Comera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	
9508	27	500mm	1:225,000	9.0°S	16.5°E	20°	280°	50%	58°	Fair	78	Oblique View of Descartes Landing Site
9509	"	"	"	"	15.5°E	"	"	"	"	"	"	"
9510	"	"	"	"	"	15°	"	90%	"	"	"	"
9511	"	"	"	"	"	"	"	"	"	"	"	"
9512	,,	"	"	''	"	''	''	"	"	"	"	11
9513	"	,,	"	''	"	"	"	''	"	"	"	"
9514	"	''	"	"	''	10°	"	"	"	"	"	"
9515	"	"	1:222,000	"	"	"	"	٠,	**	Good	"	"
9516	"	"	''	"	"	0-10°	"	100%	**	"	**	Near Vertical of Descartes Landing Site
9517	"	,,	,,	"	"	"	"	"	"	"	"	11
9518	"	"	,,	''	"	0°	0°	"	•	"	"	Vertical View of Descartes Landing Site
9519	"	"	"	"	"	"	"	"	**	"	"	11
9520	"	"	"	''	'''	"	"	. "	"	"	"	"
9521	"	,,	"	"	"	"	"	"	"	"	"	"
9522	,,	,,	"	"	"	"	"	"	"	"	"	11

Magazine P AS14 - 69 Film 3400, BW

Sheet 3 of 11 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Apprax.		ncipal pint	App Tilt	rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
9523	27	500mm	1:222,000	9.0°S	15.5°E	0°	0°	100%	58°	Good	78	Vertical View of Descartes Landing Site
9524	,,	11	"	11	11	11	11	"	11	11	11	п
9525	"	11	"	"	"	11	11	"	11	"	11	"
9526	,,	11	"	11	11	0-10°	100°	11	11	11	11	Near Vertical of Descartes Landing Site
9527	"	11	"	"	"	11	11	11	11	11	11	"
9528	۱,,	11	"	11	"	11	"	. 11	11	11	11	11
9529	,,	11	"	11	11	10°	"	95%	11	11	11	н
9530	"	11	1:225,000	"	11	"	"	"	11	11	11	Oblique View of Descartes Landing Site
9531	"	11	11	11	11	"	11	11	11	11	11	11
9532	"	11	"	11	11	15°	"	. 11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11	11	11
9533	"	11	11	11	11		11	"	11	"	"	
9534		"	1:240,000	11	. 11	20°	_"	"	11	11	11	"
9535	"	"	11	11	11	"	"	"	11	11	11	End of 1st 500-mm Pass over Descartes Landing Site
9536	28	11	1:250,000	9.0°S	19.0°E	30°	280°	50%	59°	Fair	78	Approach to Descartes 2nd 500-mm Pass
9537	"	"	"	11	11	"	"	**	11	11	11	"

Magazine P AS14-69 Film 3400, BW

Sheet 4 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		orox, Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Az imuth	0/L	Sun Angle	Quality	Area	Description
9538	28	500mm	1:250,000	9.0°S	18.5°E	30°	280°	50%	59°	Fair	78	Approach to Descartes 2nd 500-mm Pass
9539	,,	"	,,	"	**	"	"	**	"	"	:	"
9540	"	11	**	11	18.0°E	11	"	"	11	**	"	"
9541	"	"	"	"	. 11	"	"	"	**	"	***	"
9542	"	"	1:240,000	"	17.5°E	"	"	"	11	"	**	H .
9543	"	11	"	"	**	"	"	"	11	"	**	"
9544	,,	"	1:230,000	"	16.5°E	25°	"	"	**	"	"	ıı .
9545	"	11	11	11	11	11	"	11	11	11	11	Oblique View of Descartes Landing Site
9546	"	11	11	11	11	"	,,	11	"	"	11	"
9547	"	"	**	"	16.0°E	"	"	90%	**	**	"	n .
9548	"	11	1:225,000	"	15.5°E	20°	"	11	11	Good	11	"
9549	"	11	"	"	11	"	"	11	"	11	11	"
9550	"	"	11	"	11	10°	"	"	,,	"	"	Near Vertical View of Descartes Landing Site
9551	"	"	11	"	11	"	"	"	"	"	11	"
9552	"	11	11	11	11	"	11	"	11	"	11	"

Magazine P AS14 69 Film 3400, BW

Sheet 5 of 11 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		ncipal pint		orox, Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9553	28	500mm	1:225,000	9.0°S	15.5°E	0-10°	280°	90%	59°	Good	78	Near Vertical View of Descartes Landing Site
9554	"	"	"	"	"	"	"	"	"	"	"	"
9555	"	"	1:222,000	11 - 1	"	"	"	95%	"	"	"	"
9556	"	"	"	"	"	"	"	"	"	"	"	"
9557	"	"	"	"	11	"	"	"	"	"	"	"
9558	"	"	:	"	11	0°	0°			"	"	Vertical View of Descartes Landing Site
9559	"	"	"	"	. "	"	11	"	"	"	"	11
9560	"	"	"	"	"	11	"	"	*	"	"	"
9561	.,	"	"	"	- 11	"	"			"	"	"
9562	-,,	"	"	"	- 11	"	"	.,		"	11	"
9563	"	11	"	"	"	"	"	.,		"		"
9564	"	11	"		"	"	"	.,			11	"
9565	"	"	"	"	11	"	.,	.,				"
9566	"	"	"	"	11	"	"	"	"	"	"	"
9567	"	"	"	11	11	0-10°	100°	"	"	''	"	Near Vertical View of Descartes Landing Site

•

-

Magazine P AS14-69 Film 3400, BW Sheet 6 of 11 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.		incipal 'aint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Phato Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9568	28	500mm	1:222,000	9.0°S	15.5°E	0-10°	100°	95%	59°	Good	78	Near Vertical View of Descartes Landing Site
9569	"	"	, " .	"	"	"	"	"	"	"	"	11
9570	"	"	"	"	"	"	"	90%	11	"	"	11
9571	"	"	1:230,000	"	"	"	"	"	11	"	"	"
9572	"	"	"	''	''	20°	"	,,	"	"	"	Oblique View of Descartes Looking East
9573	"	"	1:240,000	"	"	"	"	"	"	"	"	"
9574	"	"	"	"	"	"	"	"	11	"	"	"
9575	"	"	"	"	"	"	"		11	"	"	"
9576	"	11	1:300,000	4.0°S	15.0°W	40°	110°	0%	27%	"	76	Oblique View of Fra Mauro H and HA
9577	"	11	"	1.0°S	14.0°W	40°	75°	0%	"	"	"	Oblique View of Eastern Fra Mauro Highlands
9578	30	11	1:222,000	9.5°S	19.5°E	0°	0°	"	59°	Poor	78	Approximate Area of DE-2 4° E of Descartes Landing Site
9579	"	=	1:240,000	"	19.0°E	20°	280°	50%	"	Fair	"	Oblique Sequence Just Prior to Descartes
9580	"	"	"	"	18.5°E	"	"	''	"	"	"	11
9581		"	"	"	"	"	"	"	"	"	11	11
9582	"	11	11	"	"	",	"	"	11	"	11	" .

Magazine P AS14 - 69 Film 3400, BW

Sheet 7 of 11 Sheets

Time Reference

GET

Frome	Rev.	Camero	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9583_	30	500mm	1:240,000	9. 5° S	18.0°E	20°	280°	50%	59°	Fair	78	Oblique Sequence Just Prior to Descartes
9584	"	"	1:230,000	"	"	"	"	"	"	"	11	ıı ıı
9585	"	"	"	"	17.5°E	"	''	:	"	"	"	Oblique Sequence Just Prior to Descartes Landing Site
9586	"	"	"	"	16.5°E	"	"	"	**	"	"	"
9587	,,		••	"	"	"	"	"	11	"	"	"
9588	.,	,,	1:225,000	11	16.0°E	"	"	"	"	"	11	11
9589	,,	"	••	11	15.5°E	11	"	90%	11	Good	11	Oblique View Into Descartes Landing Site
9590	,,	,,	**	"	"	"	"	"	11	"	11	11
9591	"		**	=	"	15°	"	"	"	"	"	11
9592	-	"	11	=	11	11	-	:	"	"	"	11
9593	"	"	**		"	**	"	"	"	"	11	11
9594		11	••	"	11	"	"	"	"	"	"	11
9595	"	"	11	9.0°S	"	10°	**	"	"	"	11	Near Vertical Sequence of Descartes Landing Site
9596	"	"	1:222,000	,,	"	"	••	•	"	"	"	11
9597	"	"	"	"	"	"	"	"	"	"	"	11

Magazine P AS14 - 69 Film 3400, BW

Sheet 8 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Apprax.		ncipal oint	App Tilt	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	D/L	Angle	Quality	Area	Description
9598	30	500mm	1:222,000	9.0°S	15.5°E	0-5°	280°	90%	59°	Good	78	Vertical Sequence of Descartes Landing Site
9599	"	"	"	11	11	"	''	"	11	"	11	"
9600	,,	,,	"	"	"	0°	0°	100%	"	"	"	"
9601	,,	,,	11	"	"	,,	"	"	11	"	"	11
9602	"	"	"	"	"	"	"	"	"	"	"	"
9603	"	"	11	11	11	"	"	"	11	"	"	"
9604	"	"	11	"	11	"	"	"	"	"	"	"
9605	"	"	"	"	11	"	"	"	11	11	11	"
9606	"	"	1:225,000	"	"	0-10°	100°	"	"	"	"	Near Vertical Strip of Descartes Landing Site
9607	"	"	"	"	11	"	"	"	"	"	"	"
9608	"	11	11	11	11	"	"	"	11	"	"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
9609	"	"	,,	"	11	"	"	"	"	"	11	"
9610	"	11	1:250,000	"	11	10-20°	"	"	11	11	11	Oblique View of Descartes Landing Site Looking East
9611	"	11	"	11	11	"	"	"	"	"	"	"
9612	"	"	"	"	11	20-30°	. 11	''	"	"	11	"

Magazine P AS14-69 Film 3400, BW Sheet 9 of 11 Sheets

Time Reference GET GMT

Frame	Rev.	Camero	Approx.		ncipal pint		orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9613	30	500mm	1:250,000	9.0°S	15.5°E	0°	0°	100%	59°	Good	78	Oblique View of Descartes Landing Site Looking East
9614	"	"	"	"	"	"	"	"	"	"	"	"
9615	"	"	"	" .	"	30°	100°	95%	"	"	"	"
9616	"	11	-	2.5°S	29.5°W	50°	270°	90%	14°	Fair	76	West Looking, High Oblique Sequence of Lansberg B & D
9617	"	"	-	"	"	"	"	"	"	"	"	п
9618	,,	"	-	11	"	"	"	"	"	"	"	ıı .
9619	,,	"	-	"	11	"	"	"	"	"	"	"
9620	,,	"	<u>-</u>	"	"	11	"	:	"		"	"
9621	"	"	1:222,000	_		0°	-	-	20°		"	Fra Mauro Highlands
9622	"	"	1:250,000	3.5° S	25.0°W	30°	285°	50%	21°	Good		Highlands to the South of Lansberg Crater
9623	"	"	"	"	"	"	"	"	"	"	"	"
9624	١,	"	11	3.0°S	26.5°W	"	"	"	**	"	11	"
9625	"	"	"	11	27.0°W	''	"	"	"	"	"	"
9626	"	"	"	"	27.5°W	 '''	"	80%	"	"	"	"
9627	"	"	"	"	28.0°W	"	"	"	11	"	"	"

Magazine P AS14 - 69 Film 3400, BW

Sheet 10 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9628	30	500mm	1:250,000	3.0°S	28.0°W	30°	285°	80%	21°	Good	76	Highlands to the South of Lansberg Crater
9629	"	11	"	"	"	"	"	"	11	"	"	"
9630	"	11	"	11	"	20°	"	50%		"	11	Oblique Approach to Lansberg B
9631	"	"	11	"	"	"	"	,,	11	''	"	"
9632	"	11	11	"	"	"	"	80%	"	"	11	11
9633	"	11	1:230,000	"	"	15°	"	"	"	"	"	"
9634	"	"	"	"	"	"	"	100%	11	"	"	"
9635	"	"	11	"	"	"	"	"	11	**	"	"
9636	"	"	"	"	"	"	"	"		"	"	"
9637		11	1:222,000	2.5°S	11	10°	"	"	"	"	"	Near Vertical Sequence of Lansberg B
9638	"	"	11	11	"	"	11	"	11	"	"	"
9639	"	"	11	"	11	"	"	"	11	"	"	"
9640	"	"	"	11	"	0-10°	"	"	11	"	11	"
9641	"	"	"	"	"	"	"	"	"	"	"	Vertical View of Lansberg B
9642	"	"	"	***	"	"	"	"	-11			"

Mogazine P AS14 - 69 Film 3400, BW

Sheet 11 of 11 Sheets

Time Reference

GET

GMT

Frame	Rev.	Comero	Approx.		ncipol oint	App Tilt	rox. Dota	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9643	30	500mm	1:222,000	2.5°S	28.0°W	0-10°	285°	100%	21°	Good	76	Vertical View of Lansberg B
9644	"	"	"	"	"	"	ŧı	"	11	"	"	11
9645	"	"	••	"	"	0°	0°	"	11	11	"	11
9646	"	11	11	11	11	"	,,	11	**	"	,,	"
9647	"	"	11	"	**	11	11	"	11	37	"	"
9648	"	11	11	''	11	0-10°	105°	**	*1	"	11	Near Vertical View of Lansberg B
9649	"	"	***	17	**	"	"	"	,,	"	"	"
9650	"	11	"	"	11	"	"	"	"	"	"	11
9651		"	"	,,	"	"	"	"	"	"	"	II .
9652	"	"	••	11	**	10°	"	11	"	11	11	11
9653	"	"	11	11	"	11	11	11	11	11	"	11
9654	"	"	11	"	11	15°	"	"	**	"	**	Low Oblique of Lansberg B
9655	"	"	"	"	11	11	"	11	"	11	"	11
9656	"	"	"	"	11	20°	"	"	"	11	"	"
				END OF	MAGAZ INE							

*

•

MAGAZINE Q

(Frames AS14-70-9657 through 9840)

Magazine Q is a continuous vertical 70-mm stereo strip taken with the 80-mm lens reseau camera on 3400 BW film. The overall quality of the magazine is good although several very dark sequences occur.

Frames 9657 through 9840 were taken from 135°E to 30°W and include such prominent lunar craters as Pasteur, Ansgarius, Langrenus, Madler, Theophilus, Herschel, Lalande, and Lansberg.

Magazine Q AS14-70 Film 3400, BW

Sheet 1 of 13 Sheets

Time Reference

GET

Frame	Rev.	Camero	Approx.		ncipal oint		orox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9657	26	80mm	1:1,380,000	4.5°S	135.0°E	VERT	CAL	50	5°	Dark	84	Crater East of Crater Prager
9658	,,	"	"	11	"	"	"	"	"	"	"	"
9659		11	"	11	134.0°E	"	"	"	6°	**	"	"
9660	"	11	"	**	133.0°E	"	"	"	"	"	"	East Edge of Prager
9661	=	11	"	11	132.0°E	11	"	"	8°	"	"	Crater Prager
9662	"	11	"	4.0°S	131.0°E	"	"	11	"	11	"	"
9663	"	11	"	11	130.0°E	"	"	11	10°	"	"	Craters Prager and Love
9664	"	"	"	11	129.5°E	"	"	11	"	**	"	"
9665	"	"	"	4.5°S	128.5°E	"	"	11	12°	"	83	Crater Chain E of Crater Prager
9666	"	"	11	"	128.0°E	"	"	"	''	**	"	Crater Chain on Rim of Crater Love
9667	"	11	"	11	127.0°E	"	"	"	14°	11	11	. "
9668	"	11	"	"	126.0°E	"	"	"	"	"	"	Highland Area on NW Side of Crater Love
9669	"	11	"	"	125.0°E	"	"	"	15°	"	"	South of Crater Becvar
9670	"	11	••	5.5°S	124.0°E	"	11	"	"	"	"	11
9671	"	"	11	**	123.0° E	"	. 11	"	17°	11	"	"

Magazine Q A\$14-70 Film 3400, BW

Sheet 2 of 13 Sheets

.

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		Dota	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9672	26	80mm	1:1,380,000	6.0°S	122.0°E	VER	TICAL	60	18°	Dark	83	North of Craters Langemak and Danjon
9673	"	11	"	11	121.0°E	"	"	11	20°	"	"	11
9674	"	11	"	" .	120.0°E	"	"	"	11	"	11	North of Crater Langemak and South of Becvar
9675	"	11	"	11	119.5°E	"	"	11	21°	"	11	11
9676	"	"	"	6.5°S	118.5°E	"	"	"	"	"	"	11
9677	"	11	11	"	117.5°E	"	"	11	22°	''	11	Northwest of Langemak Southeast of Vesalius
9678	"	11	"	"	~116.5°E	"	"	"	"	"	11	"
9679	"	"	"	"	116.0°E	. "1	"	"	"	"	11	South of Vesalius Crater and North of Meitner
9680	"	"	11 ·	7.0°S	115.0°E	"	"	"	26°	"	11	"
9681	"	"	"	"	114.0°E	"	"	"	"	"	"	"
9682	"	"	"	7.5°S	113.0°E	"	"	"	28°	11	11	"
9683	"	"	"	"	112.0°E	"	"	"	"	''	"	North of Meitner Crater and South of Buisson
9684	"	"	' "	11	111.5°E	"	"	"	11	Fair	11	Southeast of Einthoven Crater
9685	"	"	11	**	111.0°E	11	"	"	30°	"	11	11
9686	"	11	"	11	109.0°E	"	"	-,,	11	- ,, - 	11	On NE Rim of Pasteur Crater

Magazine Q AS14-70 Film 3400, BW Sheet 3 of 13 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.		ncipal pint	App Tilt	rox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scole	Lot.	Løng.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
9687	26	80mm	1:1,380,000	8.0°S	109.0°E	VER	rical	100	30°	Fair Dark	82 83	NE Rim of Pasteur Crater
9688	"	"	11	"	108.0°E	11	"	60	36°	"	11	"
9689	"	11	"	"	107.0°E	11	"	"	11	"	11	"
9690	"	"	"	"	106.5°E	"	"	"	34°	"	82	"
9691	"	11	••	8.5°S	105.5°E	"	"	"	"	"	"	"
9692	"	"	"	"	104.5°E	11	11	"	36°	"	"	On North Rim of Pasteur Crater
9693	***	11	"	"	103.0°E	"	"	"	,,	"	11	п
9694	"	11	"	9.0°S	102.5°E	"	11	"	38°	"	"	II .
9695	"	"	"	"	101.0°E	"	"	"	11	"	"	11
9696	.,	"		9.0°s	100.0°E	11	11	11	40°	"	11	NW Rim of Pasteur Crater
9697	"	11	"	9.5°S	99.0°E	"	"	"	"	"	"	**
9698		"	"	11	98.0°E	"	"	"	42°	"	11	51
9699	"	11	"	"	97.0°E	"	"	"	"	Good	11	Western Rim of Pasteur Crater and Crater Gansky
9700	"	11	"	"	96.0°E	"	"	"	44°	11	"	"
9701	"	11	11	11	95.0°E	"	"	"	**	"	"	11

Magazine Q AS14 - 70 Film 3400, BW

Sheet 4 of 13 Sheets

Time Reference

GET GMT

Frome	Rev.	Camera	Approx.		ncipal pint		Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Az imuth	0/L	Angle	Quality	Area	Description
9702	26	80mm	1:1,380,000	10.0°S	94.0°E	VER	TICAL	60	46°	Good	82	Between Craters Brunner and Gansky
9703	"	"	"	"	93.0°E	"	"	"	"	11	11	Between Craters Brunner and Gansky, and Sea of Hirayama
9704	"	"	"	11	92.0°E	,,		"	48°	,,	11	Craters Brunner and Hirayama
9705	"	"	"	"	91.0°E	,,	"	"	"	"	11	ıı .
9706	"	"	,,	10.5°S	90.0°E	"	"	"	50°	''	"	Crater Brunner South of Mare Smythii
9707	"	11	"	11	11	"	"	"	11	"	11	"
9708	,,	,,	"	"	89.0°E	"	"	50	52°	"	81	West of Brunner South of Mare Smythii
9709	"	"	"	"	88.0°E	"	"	"	11	"	"	"
9710	"	"	:	"	87.0°E	"	"	60	54°	"	"	"
9711	"	"	"	11.0°S	86.0°E	"	"	"	11	"	11	"
9712	"	11	"	"	85.0°E	"	"	,,	56°	"	11	West of Ansgarius and South of Mare Smythii
9713	"	"	,,	"	84.0°E	"	"	"	"	"	"	"
9714	"	"	"	11	83.0°E	11	"	"	58°	19	11	"
9715	"	"	"	10.5°S	83.5°E	"	"	"	11	"	"	Crater Ansgarius "N"
9716	"	!!	11	11	11	"	''	11	11	"	1)	"

Magazine Q AS14- 70 Film 3400, BW

Sheet 5 of 13 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		orox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Index Areo	Description
9717	26	80mm	1:1,380,000	10.5°S	81.5°E	VER	TICAL	60	62°	Good	81	Craters Ansgarius and Ansgarius N
9718	"	"	"	11	80.5°E	"	"	"	"	"	11	Craters Ansgarius and Ansgarius N and La Perouse E
9719	"	11	**	11.0°S	79.5°E	"	"	"	64°	"	**	Craters Ansgarius and Ansgarius M and La Perouse E
9720	"	11	11	11	78.5°E	**	=	**	"	"	**	"
9721	11	15	11	"	77.5°E	"	"	"	66°	11	11	Craters Ansgarius, La Perouse E and La Perouse
9722	"	11	"	"	76.0°E	11	"	50	11	"	11	Crater La Perouse
9723	17	"	11	11.5°S	75.5°E	"	11	65	68°	"	11	11
9724	"	"	11	12.0°S	74.5°E	"	11	"	11	11	11	11
9725	11	"	11	11	73.5°E	"	"	50	70°	"	11	Between La Perouse and Kapteyn Craters
9726	11	"	11	11	11	"	"	·"	**	11	11	11
9727	"	11	"	11	72.0°E	"	"	''	72°	11	11	Crater Kapteyn
9728		"	"	11	71.5°E	11	;	70	11	11	11	11
9729	"	''	**	n	70.5°E	"	"	55	74°	11	11	"
9730		11	" ,	11	69.0°E	"	:	11	11	11	80	SE of Crater Kapteyn
9731	"	"	11 /	"	68.0°E	"	"	"	76°	"	11	South Rim of Langrenus A

Magazine Q AS14 - 70 Film 3400, BW

Sheet 6 of 13 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		Dota	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9732	26	80mm	1:1,380,000	12.0°S	66.5°E	VERT	[CAL	40	78°	Good	80	South Rim of Langrenus A
9733	"	"	**	11.5°S	65.5°E	"	11	60	"	"		Southwest Rim of Langrenus A
9734		"	11	11 .	65.0°E	"	"	70	80°	"	"	East Rim of Langrenus P
9735	"	11	"	12.0°S	64.0°E	"	"	60	"	"	"	"
9736		:	"	tt.	63.0°E	"	**	55	82°	11	11	Langrenus P
9737		11	11	**	62.0°E	''	"	70	"	"	"	Langrenus and Langrenus P
9738		**	11	tt	61.0°E	"	"	11	84°	"	11	South Rim of Langrenus and North Rim of Crater Lohse
9739		11	11	11	60.0°E	. 11	11	55	"	"	"	"
9740	-	"	**	, 11	58.5°E	"	"	11	86°	"	"	Southwest of Langrenus on East Edge of Mare Fecunditatis
9741	"	"	11	11	57.5°E	"	**	60	"	"	"	"
9742	"	"	11	11	56.5°E	"	"	11	88°	"	"	South of Langrenus D
9743	"	,,	**	"	**	"	11	11	11	11	11	"
9744	,,	"	11	11	55.8°E	11	11	"	90°	11	"	Mare Fecunditatis
9745	"	11	11	"	55.0°E	"	"	11	"	11	"	11
9746	"	***	"	"	54.0°E	11	"	"	88°	11	11	"

Magazine Q AS14- 70 Film 3400, BW

Sheet 7 of 13 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal pint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9747	26	80mm	1:1,380,000	12.0°S	53.0°E	VERT	ICAL	60	88°	Fair	80	Mare Fecunditatis
9748	,,	11		11.5°S	52.5°E	"	"	"	"	"	11	11
9749	,,	11	11	"	51.5°E	"	"	"	86°	"	"	"
9750	"	"	"	"	50.5°E	"	"	"	"	"	79	Crater Crozier
9751	"	11	11	11	49.5°E	"	"	"	84°	"	11	Crater Bellot
9752	<u>"</u>	"	"	11	48.5°E	"	"	"	"	.,	"	11
9753	,,	"	"	"	47.5°E	,,	"	"	82°	"	"	n
9754	,,	11	"	"	46.5°E	"	11	"	"	"	11	Crater Magelhaens A
9755	"	"	"	11	45.0°E	,,	"	"	80°	"	11	"
9756	,,	11	**	11	44.5°E	11	"	"	**	Good	11	Crater Magelhaens and
9757	"	"	11	"	43.5°E	"	"	"	78°	"	"	11
9758	"	11	**	11	42.0°E	"	"	"	"	11	11	Crater Gutenberg D Pyrenees Mountain Range
9759	"	11	"	"	41.0°E	''	"	"	76°	11	11	Pyrenees Mountain Range
9760	"	11	"	"	40.0°E	"	"	"	"	"	11	"
9761	"	11	11	11°S	39.0°E	11	"	"	74°	"	11	Craters Gaudibert and Gaudibert A and B

Magazine Q AS14-70 Film 3400, BW

GET

Sheet 8 of 13 Sheets

Time Reference

Frame	Rev.	Camero	Approx.		ncipal oint	Api Tilt	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9762	26	80mm	1:1,380,000	11°S	38.0°E	VERTI	CAL	60	74°	Good	79	Craters Gaudibert and Gaudibert A and B
9763	"	"	"	"	37.0°E	,,	"	"	"	"	"	11.
9764	"	"	"	"	36.0°E	,,	,,	,,	"	"	"	Mare Nectaris, Crater Daguerre
9765	"	11	. 11	"	35.0°E	''	"	"	11	"	"	"
9766	"	11	11	"	34.0°E	"	"	"	11	"	"	"
9767	,,	11	11	"	33.0°E	"	"	"	73°	"	"	"
9768	"	11	* ***	"	32.0°E	,,	,,	"	11	"	11	"
9769	"	"	"	10.5°S	31.0°E	"	,,	"	11	"	"	Crater Madler
9770	"	"	"	10.0°S	30.0°E	"	,,	"	70°	"	"	" .
9771	"	11	11	"	29.0°E	"	"	"	11	"	78	Craters Madler and Theophilus
9772	"	11	"	"	28.0°E	"	"	•	68°	,,	••	Crater Theophilus
9773	,,	11	"	"	26.5°E	"	"	50	"	"	"	"
9774	"	"	"	"	26.0°E	,,	"	80	66°	"	"	"
9775	"	"	,,	"	25.0°E	"	"	60	"	"	"	"
9776	"	"	,,	"	23.5°E	11	"	"	64°	"	"	"

Magazine Q AS14 - 70 Film 3400, BW

Time Reference

GET

GMT

Frame	Rev.	Camero	Approx.		ncipal pint		orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9777	26	80mm	1:1,380,000	9.5°S	23.0°E	VERT	ICAL	70	63°	Good	78	Northeast Rim of Theophilus
9778	"	:	11	11	22.0°E	"	"	60	"	"	"	Crater Kant
9779		11	"	11	21.0°E	=	"	=	11	"	11	11
9780		"	"	"	20.0°E	:	"	"	60°	11	11	11
9781	"	:		"	19.0°E	:	"	=	"	"	"	Crater Kant and Crater Zollner
9782		"	"	9.0°S	18.0°E	11	"	:	"	"	"	Crater Zollner
9783	"	"	"	"	17.0°E	11	"	"	"	"	"	Approach to Descartes Landing Site
9784	:	=	"	8.5°S	15.5°E	11	11	1	55°	11	11	Descartes Landing Site
9785	"	"	"	"_	15.0°E	11	"	"	"	11	11	Crater Dollond B
9786	"	"	11	8.5°S	14.0°E	"	"	"	"	"	"	Craters Dollond B and C
9787	"	"	"	8.0°S	13.0°E	"	"	"	11	"	11	"
9788	"	"	"	"	12.0°E	"	"	"	11	11	11	Crater Dollond C
9789	"	"	11	"	11.0°E	"	"	"	"	"	11	Craters Andel F, J, and H
9790	"	"	,,	7.5°S	10.0°E	"	"	"	50°	"	77	Craters Andel B and Hipparchus L
9791	14	11	11	11	9.0°E	"	"	"	"	"	11	Craters Hipparchus L and C Crater Hind

Sheet 9 of 13 Sheets

Magazine Q AS14 - 70 Film 3400, BW

Sheet 10 of 13 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	orox. Doto	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scole	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9792	26	80mm	1:1,380,000	7.5°S	8.0°E	VERT	ICAL	60	48°	Good	77	Craters Hipparchus C and L and Hind
9793	"	11	11	7.0°S	7.0°E	"	"	"	"	"	"	Craters Hipparchus C and Hind
9794	"	"	11	11	6.0°E	"	11	""	11	11	"	Craters Halley and Hind
9795	,,	"	"	"	5.0°E	"	"	"	45°	"	"	Craters Hipparchus and Halley
9796	"	***	"	6.5°S	4.0°E	11	"	11	"	Fair	11	Craters Hipparchus and Hipparchus J
9797	• "	,,	"	"	3.0°E	"	"	*	"	"	"	Craters Hipparchus J and Muller
9798	,,	"	"	6.0°S	2.0°E	"	"	:	11	***	11	11
9799	"	,,	=	1	1.0°E	11	"	:	11	**	:	Craters Glyden and Muller
9800	,,	,,	=	=	0.0°	"	"	**	40°	**	:	Craters Glyden and Herschel
9801	"	,,	"	"	1.0°W	"	"	"	11	11	11	n .
9802	,,	"	"	5.5°S	2.0°W	"	"	"	,,	"	***	Craters Herschel and Storer
9803	,,	,,	:	"	3.0°W	"	"	"	,,	"	"	"
9804	,,	**	"	5.0°S	4.0°W	"	"	"	,,	''	11	Craters Flammarion and Herschel C
9805	"	,,	"	**	5.0°W	"	"	"	35°	"	"	Craters Flammarion and Herschel D
9806	"	"	"	"	6.0°W	"	"	**	11	"	"	Craters Lalande C and R

Magazine Q A\$14-70 Film 3400, BW

Time Reference GET

GMT

Principal Apprax. Tilt Data Photo Point Approx. Fwd Frame Rev. Camera Photo Apprax. Index Description Sun f Length Photo Scale 0/L Quality Angle Area Lat. Long. Angle Azimuth 1:1,380,000 5.0°S 7.0°w VERTICAL 60% 34° Fair 77 Craters Lalande C and R 9807 26 80mm 11 7.5°W 11 11 11 Craters Lalande and Lalande C 11 4.5°S 11 9808 32° 11 Crater Lalande 11 8.5°W 9809 9.5°W 4.0°S 55% Good 11 9810 4.5°S 10.5°W 31° Crater Lalande δ 11 76 11 11 9811 Crater Lalande E 11 11.5°W 11 60% 9812 11 28° Crater Turner L 4.0°S 12.0°W 11 9813 3.5°S | 13.0°W Fra Mauro R, Fra Mauro δ 11 11 11 9814 25° 3.0°S | 15.0°W 11 11 9815 ** 11 11 Crater Fra Mauro G and R ** 16.0°W 11 9816 ** Crater Fra Mauro G, R, and K 23° 2.5°S | 17.0°W 15° 290° 1:1,423,000 9817 11 Crater Fra Mauro J 11 18.5°W ** ** 9818 11 ** 20° 11 Crater Fra Mauro J and T 20° 20.0°W 11 1:1,463,000 9819 Fra Mauro V ** ** 11 21.0°W 11 9820 18° 11 ** 30° 1:1,517,000 2.0°S | 22.0°W 9821

•

4

.

•

Sheet 11 of 13 Sheets

Magazine Q AS14-70 Film 3400, BW

Sheet 12 of 13 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area)
9822	26	80mm	1:1,795,000	1.5°S	23.5°W	40°	280°	60%	17°	Good	76	Crater Lansberg P
9823	,,	"	11	11	25.0°W	,,	<u>"</u>	"	15°	••	11	Crater Lansberg
9824	,,	**	"	0.5°S	26.0°W	,,	"	=	"	11	**	п
9825	"	11	11	"	26.5°W	,,	-	80%	14°	Fair	11	"
9826	,,	11	"	11	27.5°W	"	=		:	,,	11	Craters Lansberg and Lansberg
9827	,,	**	1:1,517,000	"	29.0°W	30°	=	"	10°	,,	11	Lansberg A and C
9828	"	**	"	11	29.5°W	"		90%	:	Poor	11	н .
9829	"	11	,,	11	,,	"	"	"	08°	,,	11	11
9830	"	11	1:1,463,000	0.5°N	30.5°W	20°	"		"	"	11	Lansberg A and AA
9831	"	"	1:1,380,000	11	"	10°	"	"	"	,,	"	"
9832	,,	11	"	"	,,	0°	0°	"	,,	"	"	"
9833	,,	"	,,	"	"	10°	90°	"	,,	,,	"	
9834	"	"	1:1,463,000	"	"	20°	"	"	,,	"	"	"
9835	,,	11	1:1,517,000	11	"	30°	"	"	11	"	11	Looking East, Lansberg and Lansberg C and A
9836	 "		1:1,795,000	11	"	40°	"	11	"	"	11	"

Magazine ____ Q ____ A\$14 ___ 70 ____ Film __ 3400, BW

Sheet 13 of 13 Sheets

Time Reference

GET

GMT

Frome	Rev.	Camera	Approx.		ncipal oint	App Tilt	rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9837	26	80mm	1:1,795,000	0.5°N	30,5°W	50°	90°	80%	_10°	Dark	76	Looking East, Lansberg and Lansberg C and A
9838	11	"	"	"	"	,,	"	"	"	"	"	Dark
9839	:		"	"	"	,,	"	,,	11	"	"	n n
9840	"	"	"	"	"	"	"	"	"	"	"	"
!		!		END OF	MAGAZINE							
-												
											" -	
		- '										
									<u> </u>			
							<u> </u>					

1

•

.

MAGAZINE T

(Frames AS14-71-9841 through 9917)

Magazine T consists of 70-mm black and white photography taken of the lunar surface during transearth coast (TEC). An 80-mm lens was used. The majority of the frames are fair to good in quality. The area of the moon from 110°E longitude to approximately 70°E longitude and as far south and north as 65° latitude was photographed for the first time on an Apollo mission. The last 26 frames contain quarter to full views of the moon with at least half of the frames showing ray patterns from the Crater Tycho.

Magazine _____ AS14 - ____ Film __ 3414 . BW

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9841	TEC	80mm	<u>-</u>	_	-					Poor	-	Very Dark
9842	,,	,,	-	-	-	-	<u> </u>	-	-	"	-	"
9843	"	"	-	6.5°N	123.0°E		265°	-	12°	Fair	65	Crater King, Crater 213
9844	"	11	<u>-</u>	7.5°N	111.0°E	65°	270°	_	_20°	"	64, 65	Earthrise, Craters Lobachevsky, and 201
9845	,,	11	-	7.0°N	112.5°E	"	"	90%	"	11	"	Earthrise, Craters Firsov, Lobachevsky, and 201
9846	,,	11	<u>-</u>	7.0°N	108.5°E	70°	275°	80%	23°	"	"	"
9847	,,	11	-	7.5°N	106.5°E	75°	11	"	26°	"	11	Earthrise, Craters Lobachevsky
9848	,,	"	-	HOR I 2	ON	· 11	"	70%	28°	,,	11	"
9849	"	"	-	. 11	11	11	-	50%	30°	"	"	Crater 201
9850	"	"	-		_		-	-		Poor		Earth
9851	,,	11	_	5.5°N	118.0°E	_	260°	-	20°	Good	65	Crater King
9852	"	"	-	HORIZ	ON	70°	-	-	30°	"	46	Craters Lomonosov, Maxwell, Artamonov, and Espin
9853	"	11	-	18.0°N	116.5°E		345°	-	20°	"1	47	Craters Kostinsky and Olcott
9854	"	11	-	HORIZ	ON	-	330°	-	26°	11	29	Craters Fabry and Szilard
9855	"	11	-	"	"	-	355°	-	23°	11	29, 30	Hilly Area Just East of the Crater Fabry

Sheet 1 of 6 Sheets

Magazine T AS14 - 71 Film 3414, BW

Time Reference GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scole	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9856	TEC	80mm	<u>-</u>	31.5°N	123.0°E	-	355°	-	10°	Good	30, 47	Craters Innes, Meggars, Cantor, and H. G. Wells
9857	"	11	-	8.0°N	96.0°E	-	330°	-	38°	"	64	Craters Babcock, Erro, Dreyer, and Jansky
9858	"	"	-	HORIZ	ON	-	310°	-	48°	"	45	Craters Gauss, Plutarch, and Seneca
9859	11	"	-	_	_	-	-	-	-	Poor	-	Very Little Lunar Surface Area Visible, Believed Near Gauss Crater
9860	,,	11	-	HORIZO) N	-	335°	-	44°	Good	45, 46	Craters Gauss and Rynin
9861	"	11	-	,,,	11	-	310°	-	28°	"	29	Craters Riemann and Fabry
9862	11	,,	-	6.0°S	70.0°E	-	255°	-	60°	"	80, 81	Craters Kastner, Langrenus, and Gilbert
9863	11	11	-	6.0°N	70.0°E	-	285°	-	"	,,	62, 63	Crater Gilbert; Mare Spumans Mare Crisium
9864	"	"	-	HORIZO	N	-	320°	-	"	"	28, 45	Craters Hahn and Berosus
9865	"	,,	-	"	"	-	330°	-	11	11	29	Oblique View Looking NW From Fabry Crater into Belkovich Crate
9866	"	11	-	13.0°S	98.0°E	-	200°	-	30°	,,	82, 100	Craters Pasteur and Sklodowska
9867	,,	11	-	26.0°S	109.0°E	-	180°	-	22°	11	100, 101,117	Craters Hilbert, Alden, Scaliger, and Milne
9868	,,	"	-	11.0°N	62.0°E	-	265°	-	70°	"	44, 62	Mare Crisium
9869	,,	"	-	12.0°S	84.0°E	-	180°	-	50°	"	81, 99	Mare Smythii, Craters Kastner, Ansgarius, Behaim, Gibbs, and Hecataeus
9870	"	"	-	22.0°S	67.0°E	-	200°	-	65°	"	98	Craters Balmer, Lame, and Petavius

Magazine T AS14 71 Film 3414, BW

Sheet 3 of 6 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Apprax.		ncipal pint		rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9871	TEC	80mm	-	14.0°N	60. 0° E		190°	-	70°	Good	44, 62	Mare Crisium
9872	"	"		3.0°S	67.0°E		170°		60°	"	80	Craters Gilbert and Langrenus
9873	"	"	-	2.0°N	56.0°E	-	200°	-	70°	"	11	Mare Fecunditatis, Langrenus Crater
9874	"	"	<u>-</u>	18.0°N	59.0°E	-	295°	1	"	"	44, 62	Mare Crisium
9875		"	_	20.0°S	71.0°E	-	205°	-	80°	"	98, 115, 80, 79	Ansgarius, Humboldt, Petavius
9876	"	"	_	0°	95.0°E		90°	-	37°	"	63, 81 64, 82	Mare Smythii, Craters Neper, Jansky, Wyld, Babcock, Pasteur
9877	"	"	-	20.5°S	109.0°E		"	-	2 0°	"	-	Craters Pasteur, Hilbert, Milne, Alden, Titius, and Tsiolkovsky
9878	"	"	-	22.0°S	92.0°E		160°	-	35°	"	-	Craters Hecataeus, Humboldt, Abel, Curie, Mare Australe
9879	"	"	-	9.0°S	74.0°E	-	190°	-	60°	"	80, 81	Craters Langrenus, Gilbert, Mare Smythii
9880	"	"	-	12,0°N	72.0°E	-	285°	_	"	"	62, 63 44, 45	Mare Crisium, Mare Spumans; Schubert and Condorcet Craters
9881	"	"	-	27.5°N	92.5°E	-	15°	-	37°	"	45, 46, 29	Mare Marginus, Craters Joliot, Maxwell, Goddard, and Szilard
9882	11	"	-	HOR I ZON		-	45°	-	20°	"	46, 47, 30	Craters Maxwell, Szilard, Seyfert, and Olcott
9883	"	"	-	"	11	-	80°	-	15°	"	65	Craters Guyot, Ostwald, King and 201
9884	"	11	-	29.0°S	107.0°E	-	125°	-	25°	"	82, 100 83, 101	Craters Pasteur, Hilbert, Milne, and Fermi
9885	"	"	-	HORIZON		-	150°	-	22°	"	83, 101	Craters Hilbert, Milne, Alden and Fermi

,

Magazine _____ T ____ AS14-____ Film ___ 3414, BW

Time Reference GET GMT

Frame	Rev.				ncipal oint		prax. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length		Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	, , , , , , , , , , , , , , , , , , ,
9886	TEC	80mm	-	HORIZO	N	-	150°	-	25°	Good	-	Oblique View Looking SE into Schrodinger Rille
9887	"	,,	-	32.0°S	125.0°E	-	140°	_	15°	11	_	Craters Hilbert, Alden, Milne, and Tsiolkovsky
9888	"	11	-	HORIZO	N	-	150°	•	17°	"	-	Craters Hilbert, Fermi, Milne, and Tsiolkovsky
9889	"	"	-	25.0°N	107.0°E	-	70°	ı	30°	"	-	Craters Joliot, Maxwell; Flemming, Vestine, and Szilard
9890	"	11		-	-	-	170°	ı	11	"	-	Oblique View Looking SSE Toward Lebedev Crater
9891	"	11	-	-	-	-	190°		33°	,,	-	Oblique View Looking S into Schrodinger Rille
9892	"	11	-	-	-	-	-	-	-	11	-	Quarter Moon View Showing Rays from Crater Tycho
9893	"	"	-	-	-	_	· · -	-	_	"	-	Mares Fecunditatis, Tranquil- litatis, and Serenitatis
9894	"	11	-	_	-	_			-	"	_	Full Moon View Showing Mare Vaporum and Sinus Medii
9895	11	11	-	-	-	-	-	-	-	11	-	Moon View Showing Mare Sereni- tatis and Mare Vaporum
9896	"	"	-	-	-	-	-	-	-	11	-	Full Moon View Showing Mares Tranquillitatis, Fecunditatis
9897	11	"	-	-		-	-	-	-	Poor	-	and Nectaris Mares Crisium, Tranquillitatis Fecunditatis
9898	41	11	_	-	-	-	-	-	-	"	-	Oblique View Showing Rays of Crater Tycho
9899	"	"	-	-	-	-	-	-	-	11	_	View of Rays of Crater Tycho
9900	"	"	-	-	-	-	· <u>-</u>	-	-	"	-	Very Dark

Sheet 4 of 6 Sheets

Magazine T AS14 - 71 Film 3414, BW

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		orox. Doto	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9901	TEC	80mm	-	-		_	-	_		Poor	-	Mare Tranquillitatis Mares Crisium, Tranquillitatis
9902	,,	"	-	-	-	•	-	-	-	11	-	and Serenitatis
9903		**	-	- .	-	-	-	-	-	Fair	- ,	Mares Fertillitatis and Nectari: Crater Langrenus, Tycho Rays
9904	:	"	_	-	•	1	-	1	-	"	-	Mare Nectaris, Tycho Ray Patterns
9905	"	,,	-	•	-	1	-	1	-	11	-	Mare Nectaris, Tycho Ray Patterns
9906] ,,]	11	-	-	ı	ı	1	ı	-	"	-	Mares Crisium, Fecunditatis, and Nectaris
9907	,,	11	-	-	· -	ı	-	-	-	11	-	Mares Fecunditatis, Tranquil- litatis; Tycho Ray Patterns
9908	,,	11	-	ı	-	. 1	1	ı	-	"	-	Tycho Crater Ray Patterns
9909	,,	"	<u>-</u>	. -	-	-	-	-		11	-	View of Southeast Quarter of Moon Nearside
9910	"	"_	-	-	-	-	-	-		Poor	-	Dark
9911	"	11	-	-	-	_	-	-	-	Fair	-	Mares Crisium, Fecunditatis, Tranquillitatis, and Nectaris
9912	"	11	-	-	-	-	-	-	-	Poor	-	Very Bright; Tycho Ray Patterns
9913	,,	"	_	-	-	-	-	-		11	-	"
9914	-,,	"	-	-	-	-	-	-	_	11	-	11
9915	"	11	-	-	-	-	-	-	_	Good	-	Mares Crisium, Fecunditatis, Tranquillitatis, and Serenitati

Sheet 5 of 6 Sheets

Magazine ____T ____A\$14-___71 _____Film ___3414, BW

Sheet 6 of 6 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.	Pri P	ncipal oint	Apr Tilt	orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9916	TEC	8 Omm	-	-	-	-	-	-	-	Good	-	Mares Crisium and Fecunditatis Tycho Ray Patterns
9917	11	"	-	-	-	-	<u>-</u>	-	-	11	-	Mares Tranquillitatis and Nectaris; Tycho Ray Patterns
		· · · · · · ·		END OF	MAGAZINE							
											! 	
		;										
				L								

MAGAZINE L

(Frames AS14-72-9918 through 10039)

Magazine L is a 70-mm color magazine taken with the 80- and 500-mm lenses. Frames 9947 through 9959 were taken in the vicinity of the Crater Chaplygin at 147°E. Frames 9961 through 9976 were taken in the vicinity of King Crater at 120°E. Frames 9979 through 10003 were taken east of Hirayama at 96°E. Frames 10004 through 10025 were taken over Mare Smythii at about 90°E. The overall quality of this mostly oblique looking magazine is very good.

Magazine L AS14- 72 Film S0-368, Color

Sheet 1 of 9 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.	Pri P	ncipal pint	App Tilt	Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	DOJENI JANON
9918	TLI	80mm	-	-	-	-	-	-	-	Good	-	LM in S IV B
9919	,,	"	· -	_	-	-	-	-	-	"	- -	11
9920	"	"	-	-	-	-	-	-	-	"	ı	11
9921	"	"	-	-	-	-	-	-	-	"	ı	11
9922	"	"	-	-	-	-	-	-	-	"	-	"
9923	"	"	-	-			-	-	-	"	-	LM After Emerging from S IV B. S IV B in Background
9924	,,	"	-	-	-	-	-	-	-	"	-	"
9925	"	"	-	-	-	-	-			"	-	LM Thrusters with S IV B in Background
9926		"	-	-	-	_	-	-	_	"	-	11
9927		"	-	-	-	-	-	- -	-	"	-	"
9928	"	"	-	-	μ.	-	-	-		"	-	"
9929	"	"	-	-	•	_	-	-		.,		"
9930	"	"	-	-		-	-	-	-	"	-	"
9931	"	"	_	-	-	-			_	"	•	"
9932	"	11	-	-				-	٠	"	-	S IV B

Magazine L AS14-72 Film SO-368, Color Sheet 2 of 9 Sheets

Time Reference

Frame	Rev.	Camero	Apprax.		incipal Point	Ap Til1	prax. Data	Fwd	Apprax.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
9933	TLI	80mm								Good		S IV B
9934	"	"			-	<u>'-</u>	2	=		"	-	11
9935	,,	11	=	-	-	•	-	-	_	"	_	11
9936	,,	"	-		-	-	r.	-	.	"	-	11
9937	,,	500mm	:-	_		:	11] <u>:</u>	-	Poor	-	Unidentified Reflections with Portion of Moon
9938	.,,	"	Ŀ	-	_		-	<u>-</u>	ž	"	_	11
9939	,,	,,	-	-	_	_	<u>-</u>	-	<u> </u>	11	_	11
9940	,,	"	u.		_	-	-	-	•	"	_	"
9941	,,	"	ų	ı	-		_	_	ı	Fair	•	n
9942		"	1	-	_		-	-	-	"	-	"
9943	-,,	"	-		·_	_	÷	-	<u>-</u>	"	-	"
9944	,,	"	-4	Į,				-		"		11
9945	,,	11	-	:	·		-		13_	"	-	"
9946	,,	"	· . .,	•-	_	_	_	-	-	,,	_	"
9947	14	"	1:1,360,000	3.0°S	149.0°E	50°	0°	NA	7°	Good	LAC 84	Looking East From Point West of Chaplygin

Magazine L AS14- 72 Film SO-368, Color

Sheet 3 of 9 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9948	14	500mm	1:1,360,000	3.5°S	148.5°E	50°	45°	NA	7°	Good	LAC 84	Looking East from Point West of Chaplygin
9949	,,	11	"	"	147.0°E	.,,	55°	"	6°	11	.,,	11
9950	,,	"	"	4.0°S	"	"	80°	"	"	"		п
9951	,,	11	"	3.5° S	11	"	95°	1	11	11	11	Looking Southeast from Point West of Chaplygin
9952	,,	11	,,	5.5°S	11	11	100°	1	11	11	"	ii
9953	,,	,,	11	6.0°S	146.5°E	11	110°	1	11	11	=	"
9954	,,	"	11	5.5°S	146.0°E	11	"	=	7°	11	11	II .
9955	,,	"	11	-	_	. 11	-	:	11	11	11	Looking Southeast from Point W.of Chaplygin and E of Vil'Ev
9956	,,		11	6.0°S	146.5°E	"	110°	"	6°	ıı	11	11
9957	,,	"	11		_	- 11	11	11	11	11	"	"
9958	,,	"	11	3.0°S	146.5°E	"	"	"	11	11	"	Crater Vil'Ev
9959	,,	11	11	4.0°S	146.0°E	"	120°	"	7°	"	"	West of Crater Chaplygin
9960	,,	11	"		_	11	-	"	11	"	"	11
9961	,,	11	"	6.5°N	125.5°E	11	350°	NA	28°	"	65	East of King Crater and West of Morozov Crater
9962	"	"	"	6.0°N	124.5°E	11	330°	80	"	"	11	11

Magazine L AS14- 72 Film SO-368, Color

Sheet 4 of 9 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9963	14	500mm	1:1,360,000	6.0°N	124.5°E	50°	330°	85%	29°	Good	65	East of King Crater and West of Morozov
9964	,,	11		5.5°N	123.5°E	"	"	90%	"	"	11	11
9965	,,	11	"	6.0°N	123.0°E	"	"	80%	30°	,,	11	East of King Crater
9966	,,	11		11	11	"	,,	95%	"	,,	11	"
9967		11	"	5.0°N	122.0°E	11	"	35%	31°	"	11	Eastern Third of King Crater
9968	,,	11	"	5.5°N	121.5°E	"	"	95%	11	" .	11	"
9969	<u> </u> ,,	11	"	"	121.0°E	"	"	80%	32°	"	11	Eastern Half of King Crater
9970	"	11	. 11	5.0°N	120.5°E	"	"	"	11	,,	"	Western 3/4 of King Crater
9971	"	11	,	4.0°N	120.0°E	"	"	11	33°	,,	11	Western Portion of King Crater
9972	,,	11	11	11	11	,,	-	95%	11	,,	11	"
9973	"	,,	11	11	119.0°E	,,	"	60%	34°	11	11	West of King Crater Showing Western Edge of Crater
9974	_ ,,	"	11	"	"	"	"	98%	11	"	11	West of King Crater
9975	,,	"	11		_	"	"	-	"	"	11	Some Portion of King Crater. Not Locatable
9976	"	"	11	4.0°N	119.0°E	,,	"	98%	"	,,	"	West of King Crater and NE of Abul Wafa
9977	,,	11	,,	-	_	_	-	-	_	"	-	Not Identifiable

Magazine L AS14 - 72 Film SO-368, Color

heet 5 of 9 Sheet

Time Reference

GET

Frame	Rev.	Camera	Approx.	Prid Pr	ncipal oint	App Tilt	orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
9978	14	500mm	1:1,360,000	-	-	_	_	-	-	Good	-	Not Identifiable
9979	"	"	"	4.5°S	102.5°E	50°	340°	80%	50°	""	<u>82</u>	South of Saha Crater Looking NW
9980	,,	11	11	"	"	"	"	95%	**	11	"	"
9981	,,	"	11	"	102.0°E	11	11	11	51°	,,	**	"
9982	,,	11	"	4.0°S	"	11	"	**	:	**	"	"
9983	"	"	"	"	101.0°E	"	,,		52°	11	"	"
9984	"	"	,,	"	"	"	"	"	"	"	**	"
9985	"	"	"	"	"	"	"	"	"	"	**	Southwest of Saha Crater Looking Northwest
9986	"	"	"	6.0°S	100.0°E	"	335°	10%	53°	**	"	"
9987	"	11	11	"	99.0°E	11	330°	"	54°	**	11	"
9988	"	11	11	"	98.5°E	11	"	30%	11	"	11	"
9989	,,	11	11	11	98.0°E	"	"	50%	55°	"	11	"
9990	"	"	"	"	97.5°E	11	"	"	"	"	''	"
9991	"	11	,,	"	97.0°E	"	"	20%	56°	"	"	"
9992	"	"	"	-	-	-	-	-	"	"	"	"

Magazine L AS14- 72 Film SO-368, Color

Time Reference

Frome	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
9993	14	500mm	1:1,360,000	_	-			-	56°	Good	82	Southwest of Saha Crater Looking Northwest
9994	"	"	11	ų.			'-	12	"	"	11	11
9995	"	11	"	4		ı,	· <u>·</u>	÷	"	,,	***	"
9996	"	***	"	ч.	.7	ı,	'1	ıт	"	11	"	Low Oblique Looking NW on NW Edge of Gansky Crater (Near Vert,
9997	,,	"	11	-	. .	4	11	<u></u>	"	11	11	11
9998	,,	"	11	7.0°S	97.0°E	50°	330°	٠.	"	11	11	. 11
9999	,,	"	"	7.5°S	,,	11	"	60%	"	11 :	"	"
10000	,,	"	11	"	96.5°E	"	"	20%	"	11	"	
10001	"	11	11	8.0°S	96.0°E	"	360°	"	57°	11	11	"
10002	,,	"	11	"	"	11	"	98%	"	,,	n,	II.
10003	,,	"	"	11	,11	"	"	80%	"	,,	11	"
10004	,,	11	"	3.0°S	94.0°E	55°	350°	"	59°	11	11	High Oblique Showing Erro Crater on East Edge of Mare Smythii
10005	,,	11	"	2.5°S	93.5°E	,,	355°	40%	,,	,,	"	High Oblique Looking NW in Central SE of Mare Smythii
10006	,,	"	"	**	93.0°E	"	"	45%	60°	,,	11	"
10007	"	"	11,	3.0°S	11	40°	345°	65%	"	"	11	Mare Smythii Area Looking NNW From N Edge of Hirayama Crater

Magazine L AS14-72 Film SO-368, Color

Time Reference

GET

GMT

Principal Approx. Point Tilt Data Approx. Photo Fwd Photo Frame Rev. Camero Apprax. Sun Index Description 0/L Na. f Length Photo Scale Quality Angle Area Lat. Long. Angle Azimuth Mare Smythii Area Looking NW 50° 61° from N Edge of Hirayama Crater 93.0°E 82 500mm 1:1,360,000 2.0°S 340° 10% Good 10008 14 Mare Smythii Area Looking N from NW Edge of Hirayama Crater 2.5°S 91.5°E " 11 355° 40% 10009 ** Mare Smythii Area Looking N from 81, 82 NW Edge of Hirayama Crater 55° 62° 25% 11 1.5°S 90.5°E 10010 Mare Smythii Area Looking N from West Edge of Hirayama Crater 45° 11 3.0°S 11 10% " 10011 63° 11 11 " 11 5.0°S 90.0°E 55° 360° 5% 10012 Mare Smythii Area Looking N from 50° NW Edge of Hirayama Crater 62° 11 11 3.5°S 75% 11 90.5°E 10013 11 " 55° 85% 63° " 11 11 3.0°S 90.0°E 10014 Mare Smythii Area Looking NW from NW Edge of Hirayama Crater 11 11 11 " 11 11 " 11 11 10015 Mare Smythii Area Looking NW " from NW Edge of Hirayama Crater 11 64° 11 89.0°E 350° 30% 10016 11 11 11 90% 11 81 " " 11 10017 345° 11 " 11 10018 11 11 " 11 85% 11 88.5°E 11 11 10019 11 65° 11 11 80% 50° 11 3.5°S 88.0°E 11 10020 11 11 11 11 11 11 " " 10021 11 11 " 11 " 11 55° 11 11 3.0°S " 10022

Sheet 7 of 9 Sheets

Magazine L AS14 - 72 Film SO-368, Color

Sheet 8 of 9 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.		incipal Point		prox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
10023	14	50mm	1:1,360,000	3°S	87.0°E	55°	345°	60%	66°	Good	81	Mare Smythii Area Looking NW From NW Edge of Hirayama Crater
10024	,,,	"	{ "	"	411	"	,,	75%	"	,,	"	"
10025	"	11	11	"		"	"	90%	11	"	11	Mare Smythii Area Looking NW fro Point WNW of Hirayama Crater
10026	,,	"	"	11	86.5°E	,,	11	95%	11	"	"	"
10027	"	11	"	11	11	,,	"	11	11	"	"	"
10028	"	"	"	"	86.0°E	"	"	",	"	"	11	"
10029	"	,,,	"	**	"	,,	,,	30%	"	"	11	"
10030	"	"	11	**	"	"	,,	"	"	"	11	"
10031	"	"	NA	NA	NA	NA	NA	NA	NA	Good	NA	Earth in Crescent View from Lunar Orbit
10032	"	"	11	11	11	11	"	"	11	"	11	"
10033	"	11	11	11	"	"	"	11	11	"	11	"
10034	"	"	11	"	,,	"	"	11	11	"	11	"
10035	"	"	,,	"	"	,,	"	"	"	"	11	"
10036	"	"	"	11	"	"	,,	"	"	11 .	11	"
10037	"	"	"	"	"	,,	"	"	"	''	11	Earth in Crescent View from Lunar Orbit

Magazine L AS14-72 Film SO-368, Color

Sheet 9 of 9 Sheets

Time Reference

Rev.	Camera	Approx.	Pri:	ncipal pint	App Tilt	rox. Data	Fwd	Approx.	Photo	Photo	Description
No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth		Angle	Quality	Area	Description
14	500mm	NA NA	NA	NA	NA	NA.	NA	NA	Good	NA	Earth in Crescent View from Lunar Orbit
"	"	"	"	"	, 11	"	"	"	,,	11	"
	END OF	MAGAZINE									
							_				
										:	`
	No.	No. f Length 14 500mm 11 11	No. f Length Photo Scale	Rev. Camera Approx. Photo Scale Lat.	No. f Length Photo Scale Lot. Long. 14 500mm NA NA NA 11 11 11 11 11	Rev. Camera Approx. Point Tilt	Rev. Camera Approx. Photo Scale Lot. Long. Angle Azimuth 14 500mm NA NA NA NA NA NA 11 11 11 11 11 11 11	Rev. No. Camera Approx. Photo Scale Lat. Long. Angle Azimuth O/L	Rev. No. Camera f Length Approx. Photo Scale Point Tilt Data Fwd O/L Approx. Sun Angle 14 500mm NA NA NA NA NA NA NA NA 11	Rev. No. Camera f Length Approx. Photo Scale Point Tilt Data of Length Fwd O/L Approx. Sun Angle Photo Scale 14 500mm NA NA	Rev. Comerce Approx. Photo Scole Lot. Long. Angle Azimuth Fwd O/L Angle Approx. Angle Angle Azimuth Angle An

MAGAZINE M

(Frames AS14-73-10040 through 10204)

Magazine M is a 70-mm color sequence taken with a 250-mm lens. The photography was taken during revolutions 26, 27, and 28 from an altitude of approximately 60 n.m. Frames 10040 through 10105 cover the Central Highlands from the crater Theophilus to Davy and Alphonsus craters using a 250-mm lens. Frames 10106 through 10125 were taken with the 250-mm lens and cover the area around the craters Fra Mauro and Perry and the highland area just south of the crater Lansberg. Frames 10126 through 10169 were also taken with a 250-mm lens and cover areas near the craters Gilbert and Langrenus and the Mare Fecunditatis.

The last 34 frames are full to quarter moon views of the moon taken during TEC with a 250-mm lens. The photo quality for the majority of the frames is good.

Magazine M AS14- 73 Film SO-368, Color

Time Reference GET

GMT

Frame	Rev.	Camera	Approx.		ncipal pint		orox. Data	Fwd	Apprax. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	O/L	Angle	Quality	Area	Description
10040	26	250mm	1:574,600	14.5°S	30.0°E	40°	265°	-	70°	Good	78, 79	Western Edge of Mare Nectaris Beaumont L Crater
10041	,,	11		14.0°S	29.5°E	-11	"	40%	"		78	- 11
10042	"	"	"	16.0°S	29.0°E	"	255°	25%	11	,,	11	"
10043	"	11	"	11	28.0°E	"	240°	50%	"	"	"	Western Edge of Mare Nectaris Beaumont D Crater
10044	١,	"	"	16.5°S	27.0°E	"	"	30%	"	Fair	"	Craters Beaumont D and Cyrillus E
10045	,,	"	"	17.0°S	26.0°E	"	230°	20%	"	Good	"	Craters Beaumont D and Catharina
10046	,,	"	1:508,200	16.0°S	11	30°	245°	"	65°	"	"	Craters Beaumont D, Cyrillus E, Cyrillus F
10047	,,	"	"	"	25.5°E	"	250°	50%	"	"	,,	"
10048	,,	"	,,	15.5°S	24.0°E	"	255°	-	"	"	11	South Edge of Crater Cyrillus
10049	,,	11	1:468,800	14.0°S	25.0°E	20°	"	20%	"	"	"	Floor of Crater Cyrillus
10050	,,	11	11	12.0°S	24.0°E	11	265°	"	11	"	"	West Edge of Crater Theophilus Floor of Crater Cyrillus
10051	,,	11	1:508,200	11.0°S	23.5°E	30°	-	-	"	"	"	Area Just West of Crater Theophilus
10051	,,	11	"	9.5°S	22.5°E	"	250°	1	63°	"	"	Crater Kant C
10052	,,		111	"	21.5°E	"	11 .	65%	61°		11	11
10053	"	"	1:574,600	-	-	40°	245°	30%	60°	",		Area Between Kant C and Kant

Sheet 1 of 11 Sheets

Magazine M AS14 - 73 Film SO-368, Color Sheet 2 of 11 Sheets

Time Reference GET GMT

Frame	Rev,	Comera	Approx.		ncipal oint		prox. Doto	Fwd	Approx,	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
10055	26	250mm	1:468,800	11.5°S	19°E	20°	265°		60°	Good	78	Crater Kant D
10056	,,	11	"	12°S	19.5°E	"	260°	30%	"	11	"	11 11
10057	11	"	,,	11.5°S	19.5°E	"	"	"	"	"	"	11
10058	"	**	1:455,500	11°S	19 ° E	15°	265°	"	"	"	11	11 11
10059	,,	"	"	12°S	20.5°E	"	"	20%	"	"	7 7	Area Just South of Crater Kant
10060	11	11	1:468,800	12°S	19.5°E	20°	260°	30%	11	"	"	South Rim of Crater Kant, Crater Kant D
10061	.,,	11	"	11	19°E	<u>"</u>	265°	50%	11	"	,,	Crater Kant D
10062	,,	**	1:485,500	11	18°E	25°	"	10%	58°	"	11	11 11
10063	,,	"	"	11	17°E	"	"	30%	57°	"	11	Crater Descartes
10064	,,	11	1:468,800	11.5°S	17°E	20°	"	50%	11		11	11 11
10065	,,	**	1:455,500	11	16.5°E	15°	"	"	56°	"	"	11 11
10066	11	11	"	11°S	16°E	"	"	60%	11	11	"	11 11
10067	"	11	"	11.5°S	15.5°E	"	260°	30%	55°	"	"	Crater Descartes, Descartes A
10068	"	11	11	12.5°S	15°E	,,	,,	_	11	Fair		Crater Descartes
10069	,,	11	1:485,500	13.0°S	15°E	25°	255°	20%	11	Good	"	Area Just East of Crater Abulfeda

Magazine M AS14- 73 Film SO-368, Color

GET GMT Time Reference

Sheet 3 of 11 Sheets

Frome	Rev.	Camera	Approx.		ncipal oint		prox. Doto	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
10070	26	250mm	-	19.0°S	13.0°E	65°	205°	-	53°	Good	78, 96	Craters Geiber, Abenezra, Azophi, and Geber B
10071	,,	- 11	1:880,400	18.0°S	13.5°E	_60°	215°	40%	54°	11	11	Craters Geber, Geber B, and Abenezra
10072	,,		11	16.5°S	12.0°E	"	220°	10%	52°	-11	"	Craters Abulfeda N and Abenezra P
10073	,,	"	,,	15.5°S	10.5°E	"	-11	-	50°		78, 77, 95, 96	Craters Abulfeda A and Airy B
10074	"	11	, ,,	15.0°S	10.0°E	"	230°	30%	11	"	"	Central Highlands Near Crater Airy B
10075	"	11	1:767,100	14. <u>5</u> °S	9.0°E	55°	"	"	49°	.,,	77, 78 95	Craters Airy A and Abulfeda D
10076	"	"	"	15.0°S	8.5°E	"	225°	"	48°	11	77, 95	Craters Abulfeda D, Airy A, and Argelander
10077		"	1:880,400	14.5°S	7.0°E	60°	"	10%	46°	"	**	Craters Burnham, Vogel, and Argelander
10078	,,	"	1:767,100	14.0°S	7.5°E	55°	220°	60%	47°	"	11	Crater Burnham
10079	,,_	,,	1:880,400	15.5°S	6.5°E	60°	225°	30%	46°	"	**	Craters Vogel, Burnham, Argelander, and Airy
10080	,,	11	1:767,100	13.5°S	11	55°	11	15%	11	!!	77	Craters Vogel, Vogel B
10081	11	"	1:679,950	13.0°S	5.5°E	50°	,,	50%	45°	"	11	SE Rim of the Crater Albategnius
10082	"	"	"	"	5.0°E	11	"	"	"	"	"	Craters Albategnius and Parrot
10083	"	"	1:767,100	13.5°S	4.0°E	55°	230°	"	44°	"	"	"
10084	"	"	11	"	3.5°E	"	"	"	"	",	"	"

Magazine ____M ___AS14____73 ____Film __S0-368, Color

GET

Sheet 4 of 11 Sheets

Time Reference

Frame	Rev.	Camera	Approx.		ncipal pint		orox. Dato	Fwd	Approx. Sun	Phata	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Jeser priori
10085	26	250mm	1:767,100	13.0°S	3.0°E	55°	225°	50%	43°	Good	77	Craters Albategnius, Klein, Parrot, and Parrot A
10086	"	"	11	"	2.5°E	"	220°	"	" .	,,	"	Crater Klein
10087	"	11	1:679,950	"	2.0°E	50°	"	19	42°	"	' ''	Craters Klein & Alphonsus B
10088		"		14.0°S	1.0°E	"	"	"	41°	,,	"	Crater Alphonsus B
10089	"	"	"	"	0.5°E	"	"	"	40°	,,	**	"
10090	"	"	"	"	0°	"	225°	"	"	"	"	"
10091	"	"	**	13.0°S	1.0°W	"	230°	40%	39°	"	"	SW Portion of the Floor of the Crater Alphonsus
10092	,,	"	"	12.5°S	2.0°W	"	235°	30%	38°		"	Craters Alphonsus and Alpetragius
10093	"	"	"	12.0°S	2.0°W	"	. "	60%	"	"	"	"
10094	"	,,	1:767,100	12.5°S	2.5°W	55°	240°	50%	"	"	"	Crater Alphonsus; Southern Part of Crater Ptolemaeus
10095	,,	"	1:880,400	15.0°S	3.0°W	60°	200°	-	37°	"	77, 95	Craters Alphonsus, Arzachel, and Alpetragius
10096	,,	"	-	14.5°S	4.0°W	65°	215°	20%	36°	"	"	Mare Nubium; Craters Alphonsus, Alpetragius, Alpetragius B
10097	"	,,	1:679,950	13.0°S	11	50°	210°	-	"	"	77	Craters Alphonsus and Southern Tip of Ptolemaeus
10098	"	"	"	11.5°S	3.5°W	"	245°	··-	"	"	"	SW Portion of Crater Ptolemaeus
10099	"	,,	"	12.0°S	4.0°W	"	250°		11	"	"	"

Magazine M AS14-73 Film SO-368, Color

Time Reference GET GMT

Frame	Rev.	Camera	Apprax.		ncipal pint		Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10100	26	250mm	1:622,200	11.0°S	4.5°W	45°	250°	30%	_36°	Good	77	Crater Davy G, Southwest Portion of Ptolemaeus
10101			11	10.5°S	5.0°W	_,,			35°	"		Craters Davy G and Davy Y
10102	,,	"	1:574.600	10.0°S	5.5°W	40°	,,	-11	11	"	"	"
10103	,,	,,	1:622.200	10.5°S	6.0°W	45°	,,	60%	34°	"	"	Craters Davy G, Y; Crater Davy
10104	,,		1:767,100	11.0°S	6.5°W	55°	240°	40%	11	11		Craters Davy G, Y; Craters Davy and Lassel
10105	,,	"	1:574.600	9.5°S	11	40°	250°	_	11	"	"	Craters Davy Y and Ralisa
10106	,,	"	1:485.000	11.0°S	13.0°W	25°	,,	ıı.	27 °	"	76	Craters Guericke, Guericke D, Guericke C
10107	,,	"	1:469,000	9,5°S	13.5°W	20°	,,	10%	"	"	11	Craters Parry A and Guericke
10108	"	"	11	8.0°S	14.0°W	11	260°		26°	11	11	Area Just East of Parry A; Mare Nubium
10109	,,	"	1:455,000	11	11	15°	,,	· <u>-</u>	11	11	"	Rima Parry II, Mare Nubium
10110	"	11	11	7.5°S	15.0°W	,,	255°	50%	25°	,,	11	Craters Parry; Rima Parry II
10111	,,	11	11	7.0°S	15.5°W	,,	250°	20%	"	,,	"	Craters Parry and Fra Mauro
10112	"	"	1:469,000	11	16.5°W	20°	,,	10%	24°	"	11	Rima Parry, Craters Parry, Fra Mauro, Bonpland
10113	-	11	1:455,000	6,5°S	11	15°	255°	50%	,,		"	Rima Parry, Crater Fra Mauro
10114	"	"	1:485,000		16.0°W	25°	250°	10%	11	"	"	Craters Parry and Bonpland

Sheet 5 of 11 Sheets

Magazine M AS14- 73 Film SO-368, Color

Sheet 6 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10115	26	250mm	1:469,000	7.5°S	17.0°W	20°	250°	20%	23°	Good	76	Rima Parry, Craters Fra Mauro and Bonpland
10116	"	11	11	11	17.5°W	"	"	60%	11	,,	11	11
10117	"	**	11	7.0°S	11	11	255°	50%	"	"	11	"
10118	,,	,,	"	**	18.5°W	11	11		22°	"	"	Northeast Edge of Known Sea
10119	,,	,,,	1:446,000	4.0°S	21.0°W	10°	,,	_	19°	"	"	Crater Fra Mauro B
10120	"	,,	1:469,000	2.0°S	26.0°W	20°	260°	-	14°	"	"	Highland Area Just South of Crater Lansberg
10121	,,	,,	1:508,000	"	11	30°	"	60%	"	"	11	"
10122	,,	"	"		26.5°W	"	265°	80%	**	"	"	11
10123	,,	11 .	1:446,000	. ,,	11	10°	270°	50%	Ŧ	"	=	"
10124	,,	"	**	,,	"	"	"	80%	11	"	11	l "
10125	,,] "	11	1.5°S	"	,,	275°	11	:	,,	11	"
10126	27	!	1:767,100	4.0°S	75.0°E	55°	20°	-	64°	,,	63, 81	Crater Gilbert
10127	1	"	1:880,400	3.5°S	74.5°E	60°	"	65%	11	"	11	"
10128	,,	"		"	74.0°E	,,	,,	50%	65°	,,	11	Craters Gilbert, Gilbert K
10129	"	".	,,	"	73.5°E	۱,,	,,	"	66°	"	11	Craters Gilbert K and Gilbert . Gilbert

Magazine M AS14-73 Film SO-368, Color Sheet 7 of 11 Sheets

Time Reference

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	orox. Data	Fwd	Apprax. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
10130	27	250mm	1:880,400	4.0°S	73.0°E	60°	20°	50%	66°	Good	63, 81	Craters Gilbert J and Gilbert K
10131	.,	"	"	3.5°S	72.0°E	.,	"	"	67°	.,,	"	Craters Maclaurin B, Gilbert J and Maclaurin L
10132		••	"	3.0°S	71.0°E	65°	15°	30%	68°	"	"	Craters Maclaurin B and Maclaurin L
10133	,,	,,	1:574.600	2.0°S	16.5°E	40°	325°	-	58°	"	78	Crater Delambre
10134	,,	,,	1:622,200	1.5°S	"	45°	"	30%	11	"	"	H .
10135	,,	"	1:574,600	"	11	40°	,,	60%	11	"	"	H
10136	,,	,,	"	2.0°S	"	٠,, ،	"	20%	"	"	"	Craters Delambre and Theon Junior
10137	,,	,,	1:537,100	3.5°S	17.0°E	35°	330°		59°	"	"	Just South of Crater Delambre
10138	,	"	1:508,200	4.0°S	11	30°	335°	10%	"	.,	"	Area Just North of Taylor Crate:
10139		"	"	8.5°S	64.0°E	72°	45°	-	65°	"		Rim of Crater Langrenus
10140	"	"	1:485,500	"	63.5°E	"	"	10%		.,	"	"
10141	,,	11	1:468,800	•	11.0°E	"	"	30%	66°	"	11	"
10142	"	"	"	8.0°S	62.5°E	73°	40°	50%	"	"	"	Floor of Crater Langrenus
10143	٠,	"	1:455,500	"	"	",	"	60%	67°	"_	"	"
10144	"	"	1:468,800	"	61.5°E	11	30°	65%	"	"	"	Floor of Crater Theophilus Including Central Peaks

Magazine M AS14-73 Film SO-368, Color Sheet 8 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd .	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Az imuth	0/L	Angle	Quality	Area	Description
10145	27	250mm	1:508,200	8.0°S	61.5°E	73°	30°	70%	68°	Good	78	Floor of Crater Langrenus Including Central Peaks
10146	,,	,,	"	"	**	"	,,	50%	67°	,,	"	11
10147	"	11	1:574,600	11	11	11	,,	20%	"	"	11	Floor and Rim of Crater Langrenus
10148	,,	,,	11	"	"	"	"	"	11	11	. 11	Floor and Central Peaks of Crater Langrenus
10149	,,	,,	"	11	11	. "	11	40%	"	,,	**	"
10150	,,	,,	1:537,100	9.0°S	61.0°E	"	"	30%	11	"	"	n .
10151	,,	, . ,,	1:508,200	"	11	"	"	20%	"	"	"	North Rim and Floor of Crater Langrenus
10152	,,	"	1:537,100	,,	"	"	"	40%	68°	Fair	"	"
10153	,,	,,	1:574,600	10.0°S	59.0°E	74°	30°	20%	69°	Good	"	" .
10154	28	,,		_	-	-	130°	1	83°	"	80	Mare Fecunditatis Near Langrenus D
10155	,,	"		_	-	-	"	40%	"	,,	11	"
10156	,,	"	· <u>-</u>	_	_	_	"	-	**	"	"	11
10157	,,	"	-	. + 4	-	i -	"	"	"	,,	11	ıı .
10158	".	"	1:508,200	9.0°S	54.0°E	30°	95°	-	85°	"	11	Mare Fecunditatis, Crater Langrenus DA
10159	"	.,,	"	8.5°S	53.5°E	"	"	50%	"	Fair	14	11

Magazine M AS14 - 73 Film SO-368, Color

Sheet 9 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camero	Approx.		ncipal oint		prox. Doto	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Index Area	Description
10160	28	250mm	1:508,200	8.0°S	53.5°E	30°	95°	50%	85°	Good	80	Mare Fecunditatis, Crater Langrenus DA
10161		"	"	8.5°S	51.0°E	""	80°		88°	"	"	Mare Fecunditatis, Near Crater Goclenius A
10162	,,	,, 	1:574,600	7.5°S	"	40°	"	20%	.,,	"	"	"
10163	"		1:508,200	7.0°S	50.0°E	30°	"	10%	- "	"	79, 80	Crater Goclenius A
10164	,,		"	"	,,	"	٠,	70%	"	"	"	n n
10165	"		"	6.5°S	49.5°E	"	,,	50%	"	Fair	79	Mare Fecunditatis Near Crater Goclenius A
10166	<u>"</u>	,,	,,	-	-	"	"	"	"	Good	"	11
10167	,,	"	"	-	<u>-</u>	"	"	11	11	,,	"	11
10168	"	"	"	•	_	"	"	"		" .	"	11
10169	,,	11	-	2.0°S	47.5°E	65°	10°	-	11	"	"	Craters Messier D, A, B, Messier, Taruntius H, Mare Fecunditatis
10170	TEC	"	-	-						11		Mares Fecunditatis, Nectaris Quarter Moon View
10171	11	11	-	_	_	_				"	-	Tycho Ray Pattern
10172	"	"	-	-	•	į.	-			"		"
10173	"	"	-	-	-	-	-		-	11	•	Tycho Ray Pattern, Mares Fecunditatis, Nectaris, Tranquillitati
10174	"	11	+	-	-	-	· -	-	-	"	-	Mares Nectaris, Crisium, Fecund. Tranquillitatis, Serenitatis

Magazine M AS14- 73 Film SO-368, Color

Sheet 10 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Apprax.		ncipal pint		rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scole	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10175	TEC	250mm	-	-	-	-		-	_	Good	_	Tycho Ray Pattern
10176	,,	"	-	_	_	-		-	-	Fair	<u>-</u>	View of Southern Tip of Moon
10177	,,	11	_	· -	- '	_	-	-	-	Good	_	Mares Crisium, Serenitatis, Tranquillitatis, Fecunditatis
10178	,,	11	_	-	<u>-</u>		-	-		,,	-	Tycho Ray Patterns Mare Nectaris
10179	,,	"	_	_	-	_	-	-	-	"	_	"
10180	,,	"	-	-	-	-	-	-	_	"	_	Tycho Ray Patterns, Mares Nectaris, Fecunditatis
10181	"	"	-	-	-	-	-	-	•	Fair	-	View of Southern Tip of Moon
10182	,,	,,	-	_	-	-	_	-	_	Poor	-	No Image
10183	"	11	-	· <u>-</u>	1	_	-	-	ı	Good	-	View of Lunar Backside From 120°E to 40°E, S Latitudes
10184	,,	11	-	-	ı	_	-	1	ı	"	-	Tycho, Mare Nectaris
10185	,,	11	-	-	1	_	-	,	•	,,	-	Tycho, Ray Pattern
10186	,,	"	_	_	_	_	_			,,	-	Tycho, Langrenus, Mares Nectaris Fecunditatis
10187	,,	11		-	-	_		-	-	"	-	Mares Crisium, Tranquillitatis, Nectaris - Tycho
10188	"	"	-	-	-	_		-	1	,,	-	Tycho Ray Patterns
10189	,,	"	-	-		_	_	-		,,	-	Tycho

Magazine M AS14-73 Film SO-368, Color

Sheet 11 of 11 Sheets

Time Reference

Frome	Rev.	Camero	Approx.		ncipal oint		rox. Data	Fwd	Apprax.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
10190	TEC	250mm	-	-	-	-	_	-	-	Good	-	Tycho, Mare Fecunditatis
10191	"	и	-	-	_	-	-	_	_	"	-	Tycho, Ray Patterns
10192	"	11		_			-		_	11		Tycho, Mares Crisium, Fecunditatis, Nectaris
10193	"	"	-	_	-		-		-	"		Mare Smythii, Langrenus
10194	"	,,	-	-	-	_	-	-	-	Fair	_	TEI Lunar View
10195	"	**	-	-	-		-	-	-	Good	<u>-</u>	Tycho; Mares Serenitatis, Tranquillitatis, Nectaris, Fecunditatis
10196	"	"	-	-	-	-	_	-	-	"	-	Full Moon View
10197	,,	11	_	-	-	-	_	-	_	"	-	11
10198	"	"	-	-	-	1	-	-	-	"	-	Half Moon View
10199	".	11	-	-	·	-		-	-	"	-	Full Moon View
10200	11	"	-	-	-	-	-	ı	-	"		"
10201	"	11	-		-	-		•	_	"	_	п
10202	-,,	"	_	_	-	_	-	_	_	11	-	"
10203	"	11	_	-	-	-	-	-	_	11	-	"
10204	"	**	-	-		-	-	-	<u>-</u>	"	-	Quarter Moon View

MAGAZINE N

(Frames AS14-74-10205 through 10222)

Magazine N is a 70-mm color magazine taken with the 80-mm lens during the LM separation before landing (two-stage LM). The 18 exposures in the magazine are all of good quality.

Frames 10205 through 10210 record the rendezvous and docking sequence in lunar orbit; frame 10211 was taken in the service module in darkness and was not identified for lack of detail. Frames 10212 through 10222 record the final separation of the LM prior to LM impact on the lunar surface.

Magazine N AS14-74 Film S0-368, Color Sheet 1 of 2 Sheets

Time Reference

GET

Frame	Rev.	Comero	Approx.		ncipal pint	App Tilt	orox. Dota	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scole	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Vescription
10205	12	80mm	-	-	-	-	-	-	-	Good	-	LM Separation Before Landing
10206	"	"	_	-	-	-	-	-	-	11	-	н :
10207	"	"	-	-	-	-	-	-	-	11	•	"
10208	"	"	-	-	-	-	-	-	-	11	-	"
10209	"	"	-	-	-	-	-	-	-	11	-	"
10210	"	95	-	-	-	-	-	-	-	11	-	11
10211	"	"	-	-	-	-	-	-	-	11	-	Unidentified
10212	"	11	-	-	-	-	-	-	-	"	-	LM Jettison
10213	"	"	-	•	-	-	-	-	-	11	-	tt
10214	"	"	_	-	-	-	-	-	-	11		"
10215	۱,,	11	-	-	-	-	-	-	-	11	-	п
10216	,,	"	-	-	-	-	-	-	-	ft	-	11
10217	"	"	_	-	-	-	-	-	-	"	-	"
10218	"	"	-	-	-	-	-	-	-	,,	-	19
10219	ń	"	-	-	-	-	-	-	-	11	-	11

Magazine N AS14- 74 Film S0-368, Color

Sheet 2 of 2 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx. Photo Scale	Prii Pri	ncipal oint	Ap Til1	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
10220	12	80mm	-	_	-	-	-	-	<u>-</u>	Good	<u>-</u>	LM Jettison
10221	11	11	-	-	-	-	-	-	-	"	-	11
10222	,,	11		-	-	-	-	- .	-	"	-	"
				END OF	MAGAZINE							
											I	
		·										· .
							,				-	
			/									

MAGAZINE R

(Frames AS14-75-10223 through 10320)

Magazine R is a 70-mm black and white sequence of primarily zero phase photography. The 80-mm lens was used throughout the magazine.

Frames 10223 through 10245 are east looking high obliques of zero phase over Prager, Langemak, and Meitner; frames 10246 through 10272 are west looking high obliques of zero phase over the Fra Mauro area; frames 10273 through 10297 are east looking high obliques of zero phase over the Crater Pasteur; and frames 10298 through 10320 are TEI photography of quarter to half moon.

Magazine <u>R</u> A\$14-<u>75</u> Film <u>3414, BW</u>

Sheet 1 of 7 Sheets

Time Reference

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Lang.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10223	15	8 Onron	-	6.0°S	129.0°E	55°	88°	80°	ZERO PHASE	Good		Looking East to Craters Love and Prager #284
10224	"	"	-	"	128.0°E	40°	90°	"	"	"	-	11
10225	"	"	-	" .	127.0°E	55°	87°	"	"	"	-	"
10226	"	11	-	"	124.0°E	50°	80°	"	"	"	-	n
10227	,,	"	-	6.5°S	"	"	,,	"	"	"	-	"
10228	,,	"	-	7.0°S	123.5°E	"	١,,	"	"	"	-	"
10229	,,,	11	_	,,	11	"	"	"	"	11	-	"
10230	,,	11	-	"	122.5°E	55°	"	"	"	11		"
10231	"	"	-	"	122.0°E	"	"	"	"	"	•	
10232	"	11	-	,,	"	-	11	11	"	11	_	Looking East from NE Corner of Langemak to Crater Love
10233	,,	11	-	"	11	1	"	,,	11	-11		Langemak
10234		"	_	,,	120.0°E	"	"		. 11	,,		"
10235	,,	"	_	"	11	,,	"	"	- 11	11	- -	11
10236	,,	11	-	,,	119.0°E	-,,	"_	"	11	11	•	11
10237	,,	"		,,	118.0°E	,,_	,,	",	"	11	•	Northeast Edge of Meitner, Langemak

Magazine R AS14 - 75 Film 3414, BW

Sheet 2 of 7 Sheets

Time Reference

				• ••••	e Kererence	GET		- Om	•			
Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Lang.	Angle	Azimuth	0/L	Angle	Quality	Area	Description .
10238	15	80mm	-	8.0°S	115.0°E	55°	90°	80%	ZERO PHASE	Good	-	Meitner, Langemak
10239	,,	. 11	-	9.0°S	11	"	"	"	11	"	-	"
10240	"	11	_	"	114.5°E	,,	"	"	"	"	_	"
10241	,,	11	-	"	113.0°E	"	"	"	11	"	<u>-</u>	11
10242	,,	11	-	9.5°S	112.5°E	"	"	"	11	"	-	"
10243	,,	11	-	10.0°S	111.5°E	"	"	"	"	"	-	E Edge Pasteur, Meitner
10244	,,	"	-	"	110.0°E	50°	"	"	"	"	-	"
10245	"	"	-	"	109.0°E	55°	"	"	"	"	-	"
10246	,,	11	_	11.0°S	05.5°E	"	280°	"	"	Fair	-	Albategnius, Klein
10247	"	11	-	"	.04.0°E	60°	"	"	11	"	-	"
10248	,,	11	. -	11	03.0°E	"	"	"	"	"	-	11
10249	"	**	-	"	"	65°	"	"	"	,,	-	11
10250	"	11	-	"	01.0°E	60°	"	"	"	"	-	II.
10251	"	"	-	10.0°S	0°	"	"	"	"	"	-	Albategnius, Ptolemaeus
10252	"	"	-	"	11	55°	"	"	"	"	-	"

Magazine R A\$14 - 75 Film 3414, BW

Time Reference

GET GMT

Sheet 3 of 7 Sheets

Frame	Rev.	Camera	Approx.		ncipal oint	A _{PI} Tilt	Approx. Tilt Data		Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10253	15	80mm	-	10.0°S	2.0°W	60°	280°	80%	ZERO PHASE	Fair	77	Ptolemaeus
10254	,,	"	-	9.5°S	3.0°W	,,,	-11	-11		.,,	"	11
10255	"	"	-	11	3.5°W	"	"	.,	11	"	"	"
10256	"	11	-	9.0°S	4.0°W	,,	"	"	11	.,		Ptolemaeus and Davy G and Y
10257	"	"	-	"	4.5°W	,,	.,	"	11	"	"	"
10258	,,	11	-	"	6.0°W	,,	"	"	"	"	"	Ptolemaeus, Davy
10259	,,	11	-	"	6.5°W	11	"	"	"	"	"	"
10260	,,	11	-	"	7.0°W	"	"	"	"	,,	76	11
10261		11	-	8.0°S	8.0°W	55°	".	"		"	"	Davy, Fra Mauro, Bonpland, Parry, Guericke
10262	,,	11	-	11	10.0°W		",	.,	"	"	11	Fra Mauro, Bonpland, Parry, Guericke
10263		11	<u>-</u>	7.5°S	11.0°W	60°	"	"	11	"	"	"
10264	"	11	-		12.0°W	"	11	-11	"	"	,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"
10265	"	"	-	11	15.0°W		,,	"	"	.,		Fra Mauro, Bonpland, Parry
10266	"	11	-	7.0°S	"	11	"		"			"
10267	"	"	-	11	16.0°W	11	"	"	"	11	"	11

Magazine <u>R</u> AS14 - <u>75</u> Film <u>3414</u>, BW Sheet 4 of 7 Sheets

Time Reference

Frame		Camero	Approx.	Principal Point		Approx. Tilt Data		Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10268	15	80mm	-	6.5°S	18.0°W	60°	290°	80%	ZERO PHASE	Fair	76	Fra Mauro, Bonpland, Parry
10269	"	"	-	"	"	"	"	"	"	"	"	"
10270	.,	"	-	5.5°S	23.0°W	, ,,	,,	"	''	"		"
10271	"	"	-	6.5°S	20.0°W	"	"	"	"	"	:	"
10272	,,	"	-	"	11	"	"	"	"	"	**	: 11
10273	16	11	-	7.0°S	117.0°E	55°	90°	"	"	"	83	Looking East to Langemak
10274	,,	"	-	8.0°S	115.0°E	,,	"	"	**	"	:	"
10275	,,	"	-	"	114.5°E	"	"	"	"	"	*	11
10276	,,	"	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11	"	"	100%	"	,,	,,	Looking ENE to Langemak
10277	,,	"	-	,,	113.0°E	,,	"	:	11	"	"	"
10278	,,	11	-	,,	"	"	"	80%	"	"	"	u .
10279	,,	11	-	8.5°S	112.5°E	,,	"	;	"	"	"	East to Meitner and Langemak
10280	,,	"	<u>-</u>	9.5°S	112.0°E	,,	"	"	"	"	82	u i
10281		"	-	"	110.0°E	"	"	"	"	"	11	Pasteur, Meitner
10282	"	11	-	"	109.0°E	"	· ,,	**	11	"	"	11

Magazine R AS14- 75 Film 3414, BW

Time Reference GET GMT

Sheet 5 of 7 Sheets

Frome	Rev.	Camero	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description	
10283	16	80 mm	-	10.0°S	108.0°E	50°	90°	80%	ZERO PHASE	Fair	82	Pasteur, Meitner	
10284	"	11	-	"	105.0°E	"	"	"	"	"	**	11 11	
10285	"	,,	-	11	11	55°	"	"	11	11	11	11 11	
10286	"	"	-	"	11	"	"	"	"	"	=	Pasteur	
10287	"	"	-	"	104.0°E	"	"	"	"	"	**	11	
10288	"	"	-	"	103.0°E	"	"	"	"	"	=	11	
10289	"	"	-	"	102.0°E	11	"	"	"	**	11	н	
10290	"	"	-	"	100.0°E	"	"	" .	11	"	11	11	
10291	"	"	-	"	99.5°E	50°	"	"	"	11	"	"	
10292	"	"	-	"	98.5°E	"	"	"	"	"	11	"	
10293	"	"	-	"	"	55°	"	"	11	"	"	"	
10294	"	"	-	11	97.5°E	50°	11	"	"	,,	11	Pasteur, Blacklund	
10295	"	"	-	"	96.0° _E	55°	"	"	11	"	11	11 11	
10296	,,	"	-	"	95.0°E	"	"	"	11	"	11	" "	
10297	-,,	"	-	"	94.0°E	"	"	"	. "	"	"	11 11	

Magazine	R	AS14 - 75	Film	3414,	BW

Sheet 6 of 7 Sheets

Time Reference

GET

Frome	Rev.	Camera	Approx.	Principal Point			prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scole	Lot.	Long.	Angle	Az imuth) 0/L	Angle	Quality	Area	
10298	TEI	80mm	-	-	_	_	_	_	_	Poor	_	TEI: Crater 282
10299	,,		-	_	-	_	-	_	-	'''	-	"
10300	,,	"	-	-	-	-	-	-	Low	Fair	-	TEI: Craters Belvak, Langemak 287, and Danjon
10301	,,	"	_	-	-	_	-	-	,,	**	-	11
10302	"	**	_	-	-	-	-	-	11	"	-	Mare Smythii, Craters Pasteur and Hilbert
10303	"	11	-	-	-	-	-	-	"	-,,	-	11
10304	-,,	11	-	-	-	-	-	-	"	"	-	Mares Crisium, Mareinus, and Smythii
10305	,,	11	-	-	-	-	-	-	,,	"	-	Craters Goddard, Al-Biruni, and Hertz
10306	"	"	-	-	-	-	-	-	"	"	_	Craters Joliot, Maxwell, and Lomonosov
10307	"	"	-	_	-	-	-	-	"	,,	-	Mare Smythii, Craters Pasteur and Joliot
10308	.,	11	-	-	-	-	-	-	,,	:	-	Mare Smythii, Craters Pasteur and Belvar
10309	"	"	-	-	-	_	-	-	,,		-	Mare Crisium, Mare Smythii, Crater Goddard
10310	,,	11	-	-	-	-	-	-	,,	***	-	Craters Sabry, Riemann, and Hertz
10311		=	-	-	-	-	-	-	"	:	-	Craters Moiseev and Seyfert
10312		71	-	-	-	-	-	-	"	"	-	Mare Smythii, Craters Joliot and Seyfert

Magazine R AS14 - 75 Film 3414, BW

Sheet 7 of 7 Sheets

Time Reference

GET

Frome	Rev.	Camera	Approx.	Pri P	ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description .
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Areo	Jesset prior
10313	TEI	80mm	-	-	1	-	-	-	Medium	Good	-	Mare Smythii, Craters Pasteur, Hilbert and Alden
10314	,,_	"			-	-	-	-	11."	"	-	Mare Crisium, Mare Smythii, Craters Joliot and Seyfert
10315	,,	"	-	-	-	-	-	-	"	"	-	Craters Joliot, Seyfert and King
10316	<u>"</u>	- 11	<u>-</u>	-	-	· -	-	_	"	"	-	н
10317	,,	"	_	-	-	_	-	-	.,	. "	-	"
10318	,,	"	-	-	-	-	-	-		,,	<u>-</u>	n n
10319	,,	"	-	-	-	-	-	-	"	,,	_	"
10320	,,	"	<u>-</u>	-	-	-	-	-	"	,,	<u>-</u>	"
				END OF	MAGAZINE							
			-									
- -								i				

MAGAZINE O

(Frames AS14-76-10321 through 10356)

Magazine 0 is an 80-mm focal length color magazine taken in the service module. The overall quality of the photos in this magazine is fair to poor.

Frames 10321 through 10331 show closeup views of the docking probe and a portion of the control panel. All these shots suffer from extremely limited depth-of-field with the probe being out of focus. Frame 10332 is black. Frames 10333 through 10346, taken in darkness, show the instrument panel while frames 10347 through 10356 are high-altitude views of earth.

Mogazine 0 A\$14- 76 Film S0-368, Color

Sheet 1 of 3 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint	Ap; Tilt	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0. L	Angle	Quality	Areo	Description
10321	-	80mm	-	-	-	-	-	-	-	Poor	-	Docking Probe and CSM Instrument Panel
10322	-	"	-	-	-	-	-	-	-	**	-	Poor Focus, Limited Depth-of- Field
10323	-	"	-	-	-	-	-	-	- 	,,	-	"
10324	-	"	-	-	-	-	-	-	-	"	-	"
10325	_	''	-	_	-	<u> </u>	-	-	_	"	_	"
10326	-	"	-	-	-	-	-	-	-	"	-	"
10327	-	"	-	-	-	 -	-	-	-	۱,,	-	"
10328	-	"	-	-	-	-	-	-	-	"	-	"
10329	-	11		-	-	-	-	-	-	,,	-	"
10330	-	11	-	-	-	-	-	-	-	,,	-	"
10331	_	"	-	-	-		-	-	- 	"	-	"
10332	-	"	-	-	-	-	-	-	-	Black	-	-
10333	-	"	-	<u>-</u>	-	-	-	_	_	Poor	-	CSM Instrument Panel
10334	-	"	- ,	-	-	-	-	-	_		-	"
10335	-	11	- /	-	_	-	· <u>-</u>	-	-	"	-	11

Magazine 0 AS14 - 76 Film S0-368, Color

Sheet 2 of 3 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.	Prio Po	ncipal oint	Ap _l Tilt	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Lang.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10336	-	80mm	-	-	-	-	-	-	-	Poor	-	CSM Instrument Panel
10337	-	"	-	_	-	-	-	-	-	,,	-	
10338	-	11	-		-	-	-	-	-		-	11
10339	-		-	-	-	-	-	-	-	:	-	11
10340	-	"	-	-	-	-	-	-	-	:	-	11
10341	_	"	-	-	-	-	-	-	-		-	11
10342	_	"	-	-		-	-	-	-	"	-	11
10343	-	"	-	-	-	_	-	-	-		-	n .
10344	-	"	-		-	-	-	-	-	,,	-	п
10345	-	"	-	-	-	-	-	-	-	,,	-	11
10346	-	11	-	-	-	-	-		-		-	п
10347	-	"	-	-	-	-	-	-	1	11	1	High Altitude Earth View
10348	-	"	-	-	-	-	-	-	-	,,	-	"
10349	-	,,	-	-	-	-	-	-	-	"	-	"
10350	-	"	_	-	-	-	-		-	Fair	-	11

Magazine 0 AS14 - 76 Film SO_368, Color

Sheet 3 of 3 Sheets

Frame	Rev.	Camero	Approx.	Prii P	ncipal oint	Apı Tilt	pr ox. Data	Fwd	Approx.	Photo	Photo	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
10351	-	80mm	-	-	-	-	-	-		Fair	-	High Altitude Earth View
10352	-	"	-	-	-	-	-	-	-	"	-	"
10353	-	"	-	-	-	-	-	-	-	"	-	"
10354	-	"	-	-	-	-	-	-	-	"	-	11
10355	-	"	-	-	-	_	-	-	-	"	-	"
10356	-	"	-	-	-	-	-	1	•	Clear	-	-
				END OF	MAGAZINE							

MAGAZINE S

(Frames AS14-78-10375 through 10399)

Magazine S consists of 70-mm black and white stereo photography taken with the 80-mm lens. All of these frames are of very poor quality. Ninety percent of the frames have no visible image while the other 10 percent have very light or blurred images.

Magazine S AS14- 78 Film S0-2485, BW

Sheet 1 of 2 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camero	Apprax.		ncipal pint	App Tilt	orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	Description
10375	_	80mm	_	-		<u>-</u>	_		12°	Poor	76	View of Lunar Surface Over-Exposed
10376	-	,,	-	-	-	<u>-</u>	-	-	"	"	"	"
10377	-	"	-	-	-	-	-	-	"	"	"	"
10378	-	"	_	-	-	-	-	-	"	"	. ,,	"
10379	_	"	-	-	-	-	-	-		"		No Visible Image
10380	T -	"	_	<u>-</u>	-	-	-	-	<u>-</u>	**	<u>-</u>	"
10381	-	"	-	-	-	-	-	-		"		"
10382	-	"	-	-	-	-	-	_	-	"	-	11
10383	-	"	-	-	<u>-</u>	-	-	-	-	,,	<u>-</u>	"
10384	-	"	-	•	-	-	-	-	-	"	-	"
10385	-	"	-	-	-		-	-	_	"	-	"
10386	-	"	-	-	-	-	-	-	-	"		"
10387	-	,,	-	-	-	-	-	-	-	"	-	"
10388	-	,,	-	-	-	-	-	-	-	"	-	11
10389	-	,,	-	-	_	-	-	-		"	-	11

Magazine S A\$14 - 78 Film S0-2485, BW

Sheet 2 of 2 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	- Sesen, priori
10390	-	8 Omm	-	-	_	-	-	-	-	Poor	•	No Visible Image
10391	_	11	_	-	-	_	_	-	-	"	-	11
10392	-	11	_	-	-	-	-	-	-	"	-	"
10393	-	11	-	-	-	-	-	-	-	,,	-	"
10394	-	"	-	-	-	-	-	-	-	"	-	"
10395	-\	11	-	-	-	-	-	-	-	"	-	"
10396	-	"	-	-	-	-	-	-	-	"	-	"
10397	-	. 11	-	-	-	-	-	-	-	"	-	"
10398	-	"	-	-	-	-	-	-	-		-	"
10399	-	11	-	-	-	-	-	-	-	,,	-	Blurred Image
				END OF	MAGAZINE							·
		·										
									·			
			,									

MAGAZINE V

(Frames AS14-79-10400 through 10435)

Magazine V contains 36 frames of SO-249 black and white photography. All of the frames contain blurred single images, due to a shutter malfunction. The shutter operated continuously, slamming against the stops at either side. This magazine has not been plotted since all the photographs are blurred.

MAGAZINE W

(Frames AS14-80-10436 through 10642)

Magazine W contains 207 frames of usable black and white 3400 photography. The lunar topographic camera with an 18-in. lens was used to acquire the data on a low orbit bootstrap (vertical stereo strip) on revolution 4. The strip was originally planned to cover from 30°E to 9.5°E on the track of the Descartes (Apollo 16) landing site. Camera malfunctions occurred, however, after the 207th frame. At this point, 17.4°E and 9.3°S, photography ceased to be usable. The resulting stereo strip, from 28.1°E to 17.4°E, is of good quality. The coverage limits are approximately 3 n.m. by 170 n.m. and extend from the eastern rim of Theophilus to Dollond MA at the western extremity.

A strip of blank frames occurs at Kant E and extends west to Kant M (14 frames). The altitude for this pass varies from 10 n.m. and 12 n.m., depending on the ground elevation.

The ground detection limits, depending on the altitude of the spacecraft above lunar terrain, range from 2 to 3 meters. Although the overall quality of the sequence is good, several frames appear to be blurred on the edges.

NASA frame numbers which correspond to this index are:

1 through 207 = 80-10436 through 10642

Magazine <u>W</u> A\$14 - <u>80 LTC</u> Film <u>3400, BW</u>

Sheet 1 of 3 Sheets

Frame	Rev.	Camera	Approx.		ncipal oint		rox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O.'L	Angle	Quality	Area	Description
10436	4	18"	1:41,280	11.3°S	28.1°E	Ver- tical	0	60%	45°	Good	78	1st Frame of Low Orbit Boot Strap, (Vertical strip of
												Descartes NE Rim of Theophilus Approx. Recognition Limits 2.1m
10440	,,_	"	"	11.3°S	27.8°E	"	"		"		''	"
10445	,,	"	"	11.2°S	27.5°E	,,	.,	,,	"	,,,	"	"
10450	,,	**	1:48,000	"	27.3°E	,,	"	!!	"	"	11	NE Floor of Theophilus Approx. Recognition Limits 2.5m
10455	,,	"	"	11.1°S	27.0°E	,,	"	"	44°	**	11	II .
10460	"	"	**	"	26.8°E	,,	11	"	"	**	"	=
10465	,,	"	"	11.0°S	26.5°E	,,	"	"	"	,,	"	N Central Floor of Theophilus Approx. Recognition Limits 2.5m
10470	"	"	"	"	26.2°E	,,	"	"	,,	"	,,	"
10475	,,	,,	,,	10.9°S	26.0°E	,,	11	"	43°	,,	.,	Northwest Floor of Theophilus
10480	,,	"	"	10.9 5	25.7°E	"		"	11	"	"	n n
10485	,,	"	11	10.8°S	25.5°E	,,	,,	,,	"	"	"	"
10490	,,	"	"	10.7°S	25.2°E	"	"	"	"	"	11	Northwest Floor of Theophilus Rim of Theophilus B
10495	"	"	1:41,470	"	24.9°E	,,	"	"	42°	"	11	Northwest Rim of Theophilus Approx. Recogn. Limits 2.1m
10500	"	"	"	10.6°S	24.7°E	"	"	"	"	"	"	"

Magazine W AS14 - LTC Film 3400, BW

Sheet 2 of 3 Sheets

Frame	Rev.	Camera	Approx.		ncipal pint	Ap _i Tilt	prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Angle	Quality	Area	Description
10505	4	18"	1:41,470	10.6°S	24.4°E	Ver- tical	0	60%	42°	Good	78	Northeast of Cyrillus M Approx. Recog. Limits 2.1 m
10510	,,	"	"	"	24.2°E	"	"	"	"	.,		North of Cyrillus M Approx. Recog. Limits 2.1 m
10515	,,	"	. 11	10.5°S	23.9°E	.,,	"	"	41°		***	Northwest of Cyrillus M Approx, Recog. Limits 2.1 m
10520	,,	,,		"	23.6°E	"	"	"	"	"	"	No Named Features, Ridge with Crater
10525	<u> </u>	,,		10.4°S	23.4°E	"	"	"	"	"	"	No Named Features
10530	١,,	"	"	"	23.1°S	"	"	"	40°	"	"	"
10535		"	"	10.3°S	22.9°E	"	<u> </u>	"	"	"	"	No Named Features 2-km Crater
10540	,,	"	,,	"	22.7°E	"	"	"	"	"	"	No Named Features
10545	"		"	10.2°S	22.4°E	"	"	"	"	"	11	"
10550	,,	,,	"	"	22.2°E	,,	"	"	"	"	**	п
10555	,,	"	1:37.000	10.1°S	21.9°E	"	''	"		553-105 Blurred		No Named Features Approx. Recog. Limits 1.9 m
10560	,,	"	"	"	21. 7° E	,,	"	. "	"	"	"	"
10565	<u> </u>	"	"	10.0°S	21.4°E	,,	"	"		"	"	No Named Features 4-5 km Crater
10567		Blank F	rames 10567-	10581								
10582	4	18''	1:37,000	9.9°S	20.5°E	Ver- tical	0	60%	38°	Good	78	North Rim of Kant M

Magazine W AS14 LTC Film 3400, BW Sheet 3 of 3 Sheets

Frame	Rev.	Camera	Approx.		ncipal oint		Prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0. L	Angle	Quality	Area	Description
10585	4	18''	1:37,000	9.8°S	20.4°E	Ver- tical	. 0	60%	38°	Good	78	Large Crater 3-4 km Dia. on Northwest Rim of Kant M
10590	<u> </u>	**		"	20.2°E	-''	"	-"-				No Named Features
10595	,,	"	**	9.7°S	19.9°E	,,	,,	11	37°	11	11	Northeast of Kant N
10600	<u> </u> ,,	"	11	,,	19.7°E	,,	,,	1,	11	1,	11	North Rim of Kant N
10605	<u> </u>	.,	"	9.6°S	19.5°E	,,	"	"	11	"	11	Lower Limits of Kant G in Area of DE-2
10610	,,	11	,,	11	19.2°E	,,	,,	11	"	,,	"	"
10615	.,		""	"	18.9°E	,,	,,	"	36°	"	11	Between Kant G and Kant B
10620				9.5°S	18.7°E	"	"					Northeast Rim of Kant B
10625	,,	11		11	18.5°E	,,	"			- ''	11	Northwest Rim of Kant B
10630	,,			"	18.2°E	,,	"		- 11		11	West of Kant B
10635	,,		11	9.4°S	17.9°E	,,	"		35°	.,	11	"
10640	<u> </u>	"	"		17.7°	"	1,	,,	"	"	11	"
10642],,	11	11	9.3°S	17.5°E	,,	,,			"		Last Frame Plottable on 18" Stereo Strip
			REMAINDER	DF MAG. W	NOT PLOTT	ABLE						

Magazine: A Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on Mag. A		Transposition and Docking	Good Quality
		-	

Magazine: B Film: 16mm, Color

PROJECT FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
1-492 (Rev. 2)	3°S, 5°W	Mosting A, Low Sun Angle, Fair Detail	Complete Magazine Landmark Tracking, Photography Through Sextant
601-690 (Rev. 12)	4°S, 13°W	LDMK Track (14-K)	Fair Quality Circularize
691-840 (Rev. 13)	4°S, 16°W	LDMK Track (14-1)	Good Quality
841-1018 (Rev. 15)	4°S, 132°E	LDMK Track (RP-3)	Good Quality
1019 - 1162	11°S, 99°E	LDMK Track (RP-5)	Good Quality
(Rev. 15) 1163-1422	12°S, 33°E	LDMK Track (Daguerre)	Good Quality
(Rev. 15) 1423-1615	4°S, 16°W	LDMK Track (14-1)	Good Quality
1616-1779	0.5°S, 141°E	LDMK Track (RP-2)	Good Quality
(Rev. 18) 1780-1968	5.5°S, 112°E	LDMK Track (12-1)	Fair Quality
(Rev. 18) 1969-2161	11°S, 15.5°E	LDMK Track (Dollond E)	Good Quality
(Rev. 18) 2162-2219	3°S, 16°W	Fra Mauro H, Fra Mauro-l	Good Quality
(Rev. 18) 2220-2359 (Rev. 29) 2375-2535	6°S, 120°E	LDMK Track (RP-4)	CSM Plane Change Good Quality
(Rev. 29) 2535-2727	11.5°S, 81°E	LDMK Track (Ansgarius N)	Good Quality
(Rev. 29) 2728-2898	9.5°S, 19.5°E	LDMK Track (DE-2)	Fair Quality
(Rev. 29) 2899-3038 (Rev. 29)	0.0°, 40°W	LDMK Track (Encke E)	Good Quality
}			

Magazine: C Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		LM Undocking Taken from CSM	Fair Quality

Magazine: D Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
1-911	12°S, 73.5°E to 12°S, 58°E	CSM Photography of LM Approach for Docking. Lunar Surface in Background: Southern Half of Kapteyn; Northern Part of Kapteyn C; Southern Portion of Langrenus A; Northern Part of Lame; Langrenus P	Short Sequence, Good Detail of Lunar Surface
912-2735		LM Docking with CSM	Good Quality
2736-5133		LM Jettison	Fair Quality

Magazine: E Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		Interior Activity: Eating, Shaving, Exercising	Fair to Good Detail

Magazine: F Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		Waste Water Dump and Ice Crystals	Good Photography
-		•	

,

Magazine: G Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		Inflight Demonstration - Heat Flow	Good Detail

Magazine: H Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		Inflight Demonstration - Liquid Transfer Interior Activity: Shaving, Eating	Good Detail Good Detail

Magazine: I Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		Reentry, Fireball, Chutes Poor Photography	Most Frames Light Toned Very Light Imagery Visible No Recognizable Features

Magazine: X Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		Interior Activity	Poor to Fair Detail

Magazine: AA Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
1-410	Rev. 12, Approximately 14°S, 65°E	Short Sequence of CSM after Undocking, Lunar Surface in Background	High Sun Angle, Poor to Fair Quality Surface Features Unidentified Imagery Not Plotted
411-766	6°S-4°W to 2°S-25°W	Lalande C, South Half of Lalande, Lalande ω (Omega), Turner M, Turner L, Turner (Tau), Turner K, Fra Mauro Z, Fra Mauro K, Fra Mauro J, Fra Mauro T, Fra Mauro ν (Nu), Lansberg σ (Sigma), Lansberg β (Beta)	Good Quality, Low Obliques, Low Sun Angle
1043-5384	6°S-5°W to 3.5°S-17.5°W	LM Descent: Cone, North Triplet	Good Detail
	·		

Magazine: BB Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
1-4120	3.5°S, 17.5°W to 2°S, 21°W	LM Ascent: Flag, ALSEP, Doublet, Star, Fra Mauro ν (Nu)	Good Quality

. .

•

Magazine: CC Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
1-4452	3.5°S, 17.5°W	Photography of LM, Mitchell Disembarking, Flag Placement and Setting Up ALSEP	Poor to Good Detail

Magazine: EE Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
1-1200	Fra Mauro Landing Site	Setting Up ALSEP	Good Detail
	-		
·			

•

•

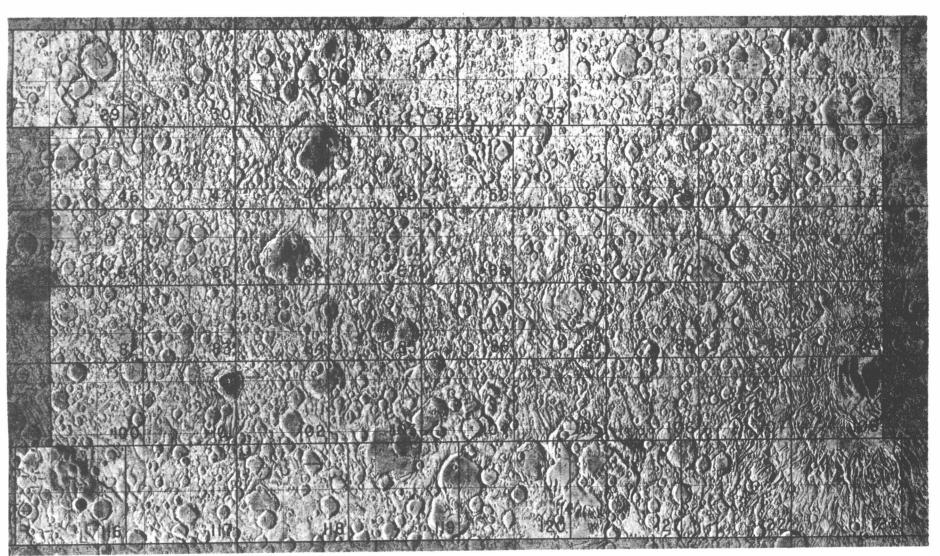
Magazine: GG Film: 16mm, Color

PROJECTION FRAME COUNT	LOCATION	DESCRIPTION	REMARKS
No Frame Count Made on This Mag.		Pre-docking Approach from CSM	Good Detail

APOLLO 14 LUNAR CLOSEUP STEREOSCOPIC PHOTOGRAPHY (35-mm)

(Frames AS14-77-10357 through 10374)

The 17 high-resolution stereoscopic frames (of the 18 frames exposed, 17 were usable) were exposed during lunar surface EVA using the 35-mm camera with SO-368 color film. These frames provide a closeup view of the lunar surface covering an area of 72 mm by 82.8 mm.



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

LUNAR EARTHSIDE CHART

