



N 7 2 - 1 2 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	v
APOLLO 14 QUICK LOOK (70-mm and 5-in.)	
Magazine LL (Frames AS14-64-9046 through 9201)	1
	13
	15
	27
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	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)	
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	
Transfer Interior Activity)	128
Magazine I (Reentry)	129
Magazine X (Interior Activity)	130
Magazine AA (LM Descent)	131
Magazine BB (LM Ascent)	132
Magazine CC (Lunar Surface)	133
Magazine EE (Placement of ALSEP)	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

Sheet 1 of 11 Sheets

Frame	Rev.	Camera	Approx.		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
9046	Sur- face	60mm	-	•	-	-	s	-	24°	Good	<u>-</u>	Pan of Core Tube
9047	,,	"	_	-	_	-	,,	_	"	"	-	11
9048	"	11	-	-	-	-	SW	-	"	"	-	Pan of Core Tube LM in Background
9049	"	11	-	-	-	-	W	-	"	"	-	LM in Background 360° Pan from EVA 2
9050	"	11	-	-	-	-	"	-	. ,,	,,	-	11
9051	"	"	-	-	-	-	"	-	11	"	-	11
9052	"	11	-	-	_	-	N	-	**	"		11
9053	"	11	-	-	-	-	"	-	11	"	-	11
9054	"	11	-	-	-	-	"	-	11	11	-	Modular Equipment Transporter 360° Pan from EVA 2
9055	"	**	-	-	-		"	•	,,	11	-	11
9056	"	11	_	-	-	-	"	-	11	11	-	11
9057	14	11	-	-	-	-	"	-	11	11	-	11
9058	''	"	-	-	-	-	NE	_	11	11	-	11
9059	"	"	-	-	-	-	"	-	**	**	-	11
9060	"	11	-	-	-	-	11	-	"	"	-	11

•

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

Sheet 2 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal . oint	Ap Tili	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
9061	Sur-	60mm	-	-	-	-	Е	-	24°	Good	-	360° Pan from EVA 2
9062	"	**	-	-	-	-	"	-	11	"	-	"
9063	"	**	_	-	_	-	"	-	**	11	-	n .
9064	11	11	-	-	-	-	"	-	*	"	-	11
9065	"	77	-	-	-	-	SE	ı	"	"	-	Pan of Small Boulders
9066	"	11	-	-	-	-	s	ı	**	11	-	"
9067	"	11	<u>-</u>	-	-	-	11	1	**	11	-	11
9068	"	"	-	-	-	-	11	-	=	11	-	11
9069	11	11	-	_	-	-	"	-	**	"	-	11
9070	"	11	-	-	-	-	"	-	11	,,	-	11
9071	11	**	_	-	-	-	SW	-	11	11	-	11
9072	"	11	_	-	-	-	"	-	11	11	-	***
9073	"	11	-	-	-	-	NW	-	"	11	-	Photo of Gnomon
9074	"	11	-	_	-	-	ťť	-	11	11	-	**
9075	"	11	-	-	-	-	W	-	11	11	-	360° Pan from EVA 2

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

Sheet 3 of 11 Sheets

				Time I	Reference	GET		GMT				
			Approx.	Princ Poi		App Tilt	ox. Data	Fwd	Approx. Sun	Photo Quality	Photo Index	Description
Frame No.	Rev. No.	Comera f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	-	Area	
9076	Sur-	60mm	-	-		-	W	-	24°	Goòd	-	360° Pan from EVA 2
9077	"	11	· -	-	-	-	"		"	"		
3077	╁─╴			_		_	N	-	"	"		"
9078	"	"	-				-,,		"	"	-	360° Pan from EVA 2 Small Crater
9079	"			-		-	-		- "	-,-	_	11
9080	"	11	-	-	-	 -		<u> </u>	 "	"		"
9081] "	"	-	-	-		"		ļ	 	 	2 2 2
9082	1,,	"	1 -	-	-	-	NE	<u> </u>			ļ <u></u>	360° Pan from EVA 2
3002	+-	-		-	_	_	"	-	"	"	-	11
9083				 		+	-	1	- "	"	-	11
9 084	"	"		<u> </u>	<u> </u>	 -	 " -	╁-	-	 	 	"
9085	1,,	"	-	-	-		E	<u> </u> -			 	
5003	+-	+		1 -	_	_	"	-	"	"		"
9086	<u>"</u>			+	1	+	1,,	 		"	_	
9087	, ,	- "		 -	 -	+-	+-	+-	+	- "	+	360° Pan from EVA 2 Astronaut Mitchell
9088	в ,	, "	-				+-	┿		 	+	"
908	9 '	" "	-	-	-		· "			 	+	11
909		,, ,,,	1 -	-	-		- "					

Magazine LL AS14 - 64 Film SO-267, BW

Sheet 4 of 11 Sheets

Time Reference

GET

Frame	Rev.	Comero	Approx.		ncipal oint	Ap Tili	prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Area	Description
9091	Sur- face	60mm	_	-	-	-	s	-	24°	Good	-	Taken from Flank of Cone 360° Pan from EVA 2
9092	"	11	-	-	-	-	11	-	"	11	-	11
9093	"	11	-	-	-	-	"	-	"	**	-	360° Pan from EVA 2 Modular Equipment Transporter
9094	"	,,	-	- ·	-	-	SW	-	11	"	-	(M.E.T.) "
9095	"	**	-	<u>-</u>	_	-	"	-	11	11	-	LM in Distance, 360° Pan from EVA 2, M.E.T.
9096	"	71	. -	-	-	-	W	-	"	"	-	LM in Distance 360° Pan from EVA 2
9097	11	11	-	-	-	-	"	•	11	"	-	"
9098	11	71	-	-	-	-	"	-	"	11	-	360° Pan from EVA 2
9099	"	11	-	-	-	-	"	-	11	11	-	11
9100	"	11	-	•	-	-	N	-	**	"	-	"
9101	"	"	-	-	-	-	11	-	99	11	-	11
9102	"	**	-	-	-	-	"	•	11	11	-	11
9103	"	**	_	<u>.</u>	-	-	11	-	11	11	-	11
9104	"	11	-	-	-	-	11	-	· 11	. 11	-	11
9105	"	11	- /	-	-	-	- "	-	**	11	-	"

Magazine LL AS14 - 64 Film SO-267, BW

Sheet 5 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal pint	App Tilt	orox. Data	Fwd	Approx.	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	1	24°	Good	-	360° Pan from EVA 2
9107	"	11	-	-	1	-	**	•	11	**	-	11
9108	"	"	-	-	_	-	**	-	**	11	•	11
9109	"	"	-	-	-	_	Е	-	11	11	-	11
9110	"	"	_	-	-	-	"	-	11	11	-	11
9111	11	81	-	-	•	-	"	-	11	11	· <u>-</u>	11
9112	"	Ŧŧ	-		<u>.</u>	-	11	-	11	11	-	11
9113	"	11		_	-	-	SE	-	ti	ti	_	11
9114	"	11	-	-	-	-	"	_	11	11	-	Old Nameless in Background 360° Pan from EVA 2
9115	"	11	-	-	-	-	11	-	11	11	-	"
9116	"	"	-	-	-	-	S	-	11	11	_	11
9117	"	"	-	-	-	-	"	-	"	11	-	11
9118	"	11	-	-	-	-	"	-	"	"	-	11
9119	"	***	-	-	-	-	SW	-	"	11	_	M.E.T. 360° Pan from EVA 2
9120	"	"	-	-	_	-	W	-	"	11	_	**

Magazine LL AS14 - 64 Film SO-267, BW

Sheet 6 of 11 Sheets

Time Reference

GET GMT

Frame No.	Rev.	Camera	Approx.	Pr F	incipal . Point	Ap Tili	prox. Data	Fwd	Approx.	Photo	Photo	
		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	"	111	-				ų.		**	"	-	"
9123		,,		_		-	s	-	**	"		Pan of Gnomon EVA 2
9124	,,	"	<u>-</u>		-	_	*1	-	11	",	_	"
9125	"	"	~	-		-	N	_	"	"	_	"
9126	"	"	-		_	-	"	_	"	"	_	11
9127	"	"	-	_	_	-	,,	_	,,	"	_	"
9128	"	,,			1	-	"	_	11	-,,	_	"
9129	,,	"		_	-	-	,,	-	11	"	_	tt .
9130	,,			-	-	-	s	_	11	"	-	Old Nameless in Background Pan of Large Rock EVA 2
9131	"					_	,,	_		"	_	"
9132	,,	.,		<u>-</u>	-	_	,,	_	11	,,	_	"
9133	,,	,,	_	-	-	_	"	_	-,,	-,,	_	"
9134	,,	,,		_	_	_	N	_	-,,	-,,		
9135	"	"	-	-	-		"	_	"	-,,		Large Rock

Magazine <u>LL</u> A514-<u>64</u> Film <u>SO-267, BW</u>

Sheet 7 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.	Prir Po	scipal pint	App Tilt	rox. Data	Fwd	Approx. Sun	Photo Quality	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
9136	Sur- face	60mm	-	-	-	-	NW	-	24°	-	-	Large Rock
	,,	11		-	_	_	,,	_	"	_	-	Mitchell and M.E.T.
9137	"	",				_	,,	_	11	_	-	Mitchell and M.E.T. LM in Background
9138	"-	"			_	_	w	_	11	-	-	н
9139	 	"			-	-	,,	_	"	-		tt.
9140 9141		,,	_	_	_	_	NW	-	"	-	-	360° Pan from EVA 2
9141	 	,,	_		_	-	11		11	<u>-</u>		11
9143	"	,,	_	_	_	-	N	-	11			11
9144		"	_	_	_	_	"	-	11		_	n .
9145	 	,,	_	_	_	_	11	-	11		-	"
	"	,,	_	_	-	_	NE	_	11	-		"
9146	"	,,	_	_	_	-	"		"		-	11
9147		<u> </u>		_	_	-	Е		11			11
9148		"		_	_	_	,,	_	"	_		11
9149 9150	+	 	-	-	-	-	SE	-	11	-		п

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

Sheet 8 of 11 Sheets

Time Reference

GET

Frame	Rev. Camera No. f Length Ph	Approx.		incipal Point	Ap Til	prox. Data	Fwd	Approx.	Photo	Photo		
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
9151	Sur- face	60mm	-	-	-		SE	-	24°	Good	-	Old Nameless in Background 360° Pan from EVA 2
9152	"	,,	_			_	s	<u>-</u>	11	"	-	11
9153	,,	11	-	-			"		71	11	-	11
9154	,,	*1	-	-	-		11	-	11	11	<u>-</u>	11
9155	"	11			-	_	SW	-	**	"	-	11
9156	,,	11	-	-	_	_	"	-	**	"	-	"
9157	"	11	_	_	-	-	11	_	"	"	-	"
9158	.,	11		-	-	-	S	-	11	11	_	Pan of Footprint Trench
9159	"	11	_	-	-	-	"	-	11	11	_	"
9160	"	11	-	_	•	-	SW	-	"	11	-	11
9161	,,		-	-	-		11	-	11	11	-	11
9162	,,	11	_	-	-	-	,,	_	"	11	-	
9163	11	"	-	-	_	-	,,	_	11	"	-	11
9164	,,	11		-	-	-	NE	_	"	,,	_	**
9165	**	,,	-	-	-	-	"	-	"	"	-	***

Magazine LL AS14 - 64 Film SO-267, BW

Sheet 9 of 11 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		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	
9166	Sur- face	60mm	-	-	-	-	W	,	24°		_	Pan of Footprint Trench
9167	,,	"	-	_	-		"	-	**	-		LM in Background . 360° Pan from EVA 2
9168	,,	11	-	-	-		"	_	11		-	"
9169	-,,	11	-	•	. -		NW	-	11	_		11
9170	,,	"	-	-	_		11	_	"		-	11
9171	"	"	_	-	-		N		11		_	"
9172	"	"	_	-	-	_	11	-	11	-	-	11
9173	"	11	_	_	-	_	NE	-	11	_		Mitchell and M.E.T. 360° Pan from EVA 2
9174	"	,,	_	_	_	_	11	_	**	_		11
9175	,,	"	-	_	_	-	Е	_	11	-	-	Tracks of M.E.T. 360° Pan from EVA 2
9176	, ,	,,	_	_	_	_	,,	_	11			11
9177	,,	11	-	~	_	-		_	,,	-	<u>.</u>	"
9177	"	,,	_	_	_	_	SE	-	,,	-	-	11
		,,		_	_	-	,,	_	,,	_	-	11
9179 9180		"	<u> </u>			_	S	_	"	_	_	tt

,

.

•

Magazine <u>II.</u> A\$14-<u>64</u> Film <u>\$0-267</u>, BW

Sheet 10 of 11 Sheets

Time Reference

GET

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	Description
9181	Sur- face	60mm	-	-	_		S		24°	Good	_	360° Pan from EVA 2
9182	,,	11		- -		_	11		11	11		11
9183	11	11		<u>-</u>	-		,,		11	"		ti .
9184		11		<u>-</u>	-	<u>-</u>	SW		11	,,	-	11
9185	,,,	11	-		-		,,	-	"	"	ı	"
9186	11	"	_	-	-	•	"	-	11	11	-	"
9187	"	11	-		-	_	W		11	**	<u>-</u>	LM in Background 360° Pan from EVA 2
9188	,,	11	-	-	,	-	-	-	•	11	-	Photo of Gnomon and LM
9189		11	-	<u>-</u>		-	-		Low	Dark	_	Earth Crescent and LM Taken from Surface
9190	11	11	-	•	-	-	-	.	11	"	-	"
9191	-:	"	-	,	ı	1		1	11	11	_	
9192	**	11	-		-	-	-		11	11	-	11
9193	"	11	_	_	-	_	_	-	11	,,		11
9194	,,	"	_	_	-	-	-	1	11	"	_	11
9195	11	"	-	-	_	_	-		11	11	-	11

Magazine LL A514 - 64 Film SO-267, BW Sheet 11 of 11 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.	Prin Po	cipal int	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	,
9196	Sur- face	60mm	-	_	_	_	-	-	Low	Dark	-	Earth Crescent and LM Taken from Surface
9197	"	11	-	-	-	_	-	-	11	"		II.
9198	,,	"		-			SW	-	24°	Good		Solar Wind Panel
9199	"	**	-	_			''		"	"	-	"
9200	"	"	_	-	_			-	"	"		H
9201	"	"	-	-	-	-		-	"	,,	-	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> AS14 - <u>65</u> Film <u>SO-267</u>, BW

Sheet 1 of 1 Sheets

Time Reference

GET GMT

Frame	Rev.	Comera	Approx.		icipal 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	
9202	Sur- face	60mm	Surface Oblique	NA	NA			NA	12°	Good	76	View From LM Window to NW
9203	"	"	"		11			=	11	"	11	"
9204	,,	11	11	11	11			"	**	11	11	tt
9205	.,	11	11	11	11			11	11	11	**	
9206	,,	11	11	11	11			11	**	71	11	View From LM Window to WNW
9207	"	11	11	11	11			"	11	,,	"	"
9208	"	Ħ	11	**	11			11	11	"	"	View From LM Window to NW
9209	,,	"	11	"	11			"	"	"	11	View From LM Window to SW
9210	"	"	11		11			"	,,	"	11	11
9211	"	11	"	11	11			"	,,	"	11	View From LM Window to WSW
9212	 	11	,,	11	11			11	,,	"	**	View From LM Window to W
9213	"	11	11	"	"			11	"	"	11	11
9213	 	,,	11	11	11			"	11	"	11	"
9214	 	"	11	*1	"			"	"	"	"	11
9213			END OF	MAGAZI	NE .							

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 S0-168, Color

Sheet 1 of 10 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camero	Approx.		cipal int	App Tilt	rox. Data	Fwd	Approx. Sun	Photo Quality	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
9216	12	60mm	-	-	-	-	-	-	High	Good	-	View from LM Window During Lunar Orbit Showing the CSM
9217	"	"	-	-	-	_	-	_	"	,,	-	11
9218	"	"	-	-	-	-	-	-	"	"	-	11
9219	"	"	-	-	-	-	-	-	"		-	"
9220	"	"	-	-	-	-	-	-	"	"	-	II.
9221	"	"	-	-	-	-	-	-	"	"	-	11
9222	"	"	-	-	-	-	-	-	"	"	-	11
9223	-,,		_	-	-	_	-	-	"	"	-	11
9224	14	"	-	9.0°S	105.0° E	-	260°	-	50°	"	82	Earthrise from LM near Pasteur Crater
9225	 ,,	"	-	"	104.0° E	-	"	80%	"	"	"	"
9226	"	"	-	"	103.0° E	-	"	"	"	**	"	11
9227	 	- "	_	HOR	ZON	-	255°	"	"	"	"	
9228	 	"	_	"	"	-		"	"	"	"	"
9229	-	- "	_	_	-	-	-	-	12°	"	-	Cdr. Shepard on Lunar Surface from LM Looking NW
9229	+-		-	-	-	-	-	-	"	**	-	11

·

Magazine II AS14 - 66 Film S0-168, Color

Sheet 2 of 10 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
9231	NA	60mm	NA	_	-	-	-	-	12°	Good	76	Cdr. Shepard on Lunar Surface from LM Looking NW
9232	,,	**	11	-	-	-	_		11	-	-	Cdr. Shepard on Lunar Surface with Flag Looking West
9233	"	**	11	-	-	-		_	"	-	-	11
9234	"	11	11	_	-	-	-	_	11	-	-	LM Footpad
9235	"	**	**	-		-	-	-	11	_	-	11
9236	"	"	**	-	-	-		-	_	-	-	Lunar Surface to Horizon with High Gain Erectable Antenna
9237	"	11	tt	-	-	-	-	-	-	-	1	Looking West
9238	,,	**	**	-	-	-	-	-		-	1	Lunar Surface to Horizon with Solar Wind Panel Looking NW
9239	11	11	,,	-		_	-	•	-	-	-	11
9240	"	11	**	-	-	-	-	•	-	_	-	Lunar Surface to Horizon with Solar Wind Panel Looking North
9241	"	11	**	-	-	-	_	-	_		-	Astronaut Mitchell with TV Camera Looking North
9242	11	11	11	-	-	-	-	•	-	-	-	11
9243	"	tt	**	-	-	-	-	•	-	-	-	11
9244	11	11	11	-	-	-	-	-	-	-	-	Lunar Surface to Horizon Looking Northeast
9245	11	11	11	-	-	-	-	-	-	-	_	"

Magazine ______ A\$14-66 _____ Film _S0-168, Color

Time Reference GET GMT

Sheet 3 of 10 Sheets

					ncipal	App	orex. Data		Approx.	Photo	Photo	Description
Frame	Rev.	Comera	Approx.	P	oint			Fwd O/L	Sun Angle	Quality	Index Area	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth					Lunar Surface to Horizon
				1		_	-		12°	Good	76	Looking East
9246	-	60mm				1			,,	,,	,,	"
9247		"			 	 -	+	 -	 		,,	11
0048	_	"			<u> </u>	 - -	 - -	 - -		-"-		Lunar Surface to Horizon
9248	 -				_	\ _	-		,,	"		Looking East Southeast
9249	ļ	"		 		1			,,	,,	"	Lunar Surface to Horizon Looking Southeast
9250	Ŀ	"		 		 -	 - -	+-		 	,,	11
9251		<u> "</u>		- -		+-	 -	+-	"	 "		Lunar Surface to Horizon (with LM Footpad) Looking South
9252	<u> </u>	- "			 	 - -	+-	+-	 "	-		Lunar Surface to Horizon with Partial LM Looking South
9253		"		 -	-	 -	+-	+-		+	"	View of LM Looking Southwest
		,,	_			<u> </u>	 -	 -			 	VICE CI
9254	┿	+				_		-	"			
9255	4	- "			 					"	"	11
9256	<u>.</u>						+-	+		1	- "	Erectable Antenna Looking West
925		- "					-	+	- "	-	+	View of LM Looking Southwest
		,,	_	-			· <u> </u>		- "			VIEW OI ZI
925	8			_			_ .		- "			
925	9		' 			_		$\neg \top$, ,,	, \ ,,	View of LM Looking South

Magazine II AS14 - 66 Film S0-168, Color

Sheet 4 of 10 Sheets

Time Reference

GET

Frame	Rev.	Comero	Approx.		ncipal oint		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
9261	NA	60mm	NA	<u>-</u>	-	-	-	NA	12°	Good	76	LM Descent Nozzle
9262	,,	,,	11	-	-	_	_	"	"	"	**	11
9263	"	11	11	-	<u>-</u>	-	-	11	11	11	11	LM Engine Blast Effect on Surface
9264	"	11	**	-	- .	-	-	*	"	**	11	LM Footpad
9265	,,	11	11	-	_	_	-	-	"	11	**	11
9266	"	**	11	-	-	-	-	11	11	"	Ħ	LM Engine Blast Effect on Surface
9267	"11	11	11	_	-	-	-	-	"	**	11	11
9268	,,	11	11	-	-	-	-	"	11	11	ŧŧ	tt
9269	,,	11	11	_	-	-	-	11	11	11	**	LM Footpad
9270	=	:	"	-	-	_	-	11	11	"	11	11
9271	,,	11	**	-	-	_	-	"	11	"	**	Lunar Surface to Horizon Looking West
9272	"	11	11	-	-	_	-	91	11	"	11	Lunar Surface to Horizon Looking Northwest
9273	"	"	11	-	-	-	-	,,	11	**	**	11
9274	"	"	"	-	_		-	11	11	11	11	11
9275	,,	11	11	_	-	-	-	*1	11	11	11	Lunar Surface to Horizon Looking North

Magazine II AS14 - 66 Film SO-168, Color

Time Reference

GET

GMT

Principal Approx. Photo Point Tilt Data Approx. Fwd Photo Camera Approx. Frame Rev. Description Sun Index 0/L Quality f Length Photo Scale No. Area Angle Lat. Angle Azimuth Looking North at LM 12° 76 NA Good NA 9276 NA 60mm ** 11 ** 9277 11 11 ** 11 11 9278 11 11 ** ** 9279 ** Lunar Surface to Horizon ** Looking Northeast 11 11 11 ** 9280 Lunar Surface Looking East 11 11 11 _ 9281 11 11 11 9282 * * ** ** 9283 11 11 * * ** ** ** 9284 Lunar Surface Looking Southeast ** ** 11 ** 9285 11 ** ** 11 9286 ** 11 11 11 ** 11 11 9287 Lunar Surface Looking South 11 11 ** 11 9288 ** ** ** 11 ** 9289 Lunar Surface Looking Southwest ** 11 ** ** 9290

Sheet 5 of 10 Sheets

Magazine II AS14-66 Film S0-168, Color

Sheet 6 of 10 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
9291	NA	60mm	NA	-	-	-	-	NA	12°	Good	76	Lunar Surface to Horizon Looking Southwest
9292	"	11	***	-	_	_	_	,,	11	"	11	11
9293	"	ŧŧ	11	-	-	-	-	,,	"	11	11	Lunar Surface to Horizon Looking West
9294	,,	11	"	_	-	_	_	,,	н	"	"	"
9295	.,	,,	**	-	-	-	-	,,	"	"	I1	Lunar Surface to Horizon Looking Northwest
9296	۱,,	17	11	-	-	-	-	11	11	"	11	Lunar Surface to Horizon Looking North
9297	,,	11	11		-		-	"	"	"	11	"
9298	,,	11	11	-	-	_	-	"1	**	"	**	11
9299	,,	11	11	-	-	-	_	"	11	11	11	Lunar Surface to Horizon Looking Northeast
9300	-,,	11	11	-	-	_	-	11	11	"	**	Lunar Surface to Horizon Looking North
9301	,,	11	"	-	-	_	-	11	**	11	11	Astronaut Mitchell with TV Camera Looking Northeast
9302	.,	11	11	-	-	-	_	"	11	11	**	11
9303	,,	11	11	-	-	-	-	11	11	11	11	View From West of LM Looking East
9304	,,	11	11	-	-	-	_	11	11	11	11	п
9305	,,	11	11	_	_	_	_	11	11	11	"	"

Magazine II AS14-66 Film S0-168, Color

Sheet 7 of 10 Sheets

Time Reference

GET

Frame	Rev.	Comera	Approx.		ncipal pint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
9306	NA	60mm	NA	_	-	-	-	NA	12°	Good	76	View from West of LM Looking East
9307	"	,,	11	-	-		_	11	**	"	11	"
9308	"	11	11	-	-		-	11	11	11	11	Solar Wind Panel from Near LM Looking Northwest
9309	"	**	11	-	<u>-</u>	_	-	**	11	"	**	11
9310	"	11	11	-	-	_	-	**	11	11	***	***
9311	"	11	11	_	-	-	-	""	"	11	11	Lunar Surface to Horizon Looking North
9312	١,,	''	***	-	-	-	_	"	"	"	**	11
9313	"	''	"	-	-	-	-	11	"	"	***	Lunar Surface to Horizon Looking South
9314	"	"	**	-	-	-	-	11	11	"	11	" .
9315	,,	11	''	_	-	_	-	"	**	,,	11	Lunar Surface to Horizon Looking Southwest
9316	, ,	11	11	-	-	_	-	11	,,	"	11	Lunar Surface to Horizon Looking West
9317	,,	11	11	-	-	_	_	"	11	11	"	View from LM Window Looking West
9318	"	"	11	-	-	-	-	11	11	11	11	11
9319	-	"	,,	-	-	_	-	"	**	11	11	11
9320	,,	,,	11	_	_	_	_	,,	"	"	11	Lunar Surface to Horizon Looking West

Magazine II AS14-66 Film S0-168, Color

GMT

Sheet 8 of 10 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		incipal oint		prox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
9321	NA	60mm	NA	-	_	-	_	NA	12°	Good	76	Lunar Surface to Horizon Looking West
9322	"	11	11	-	-	-	-	11	11	,,	11	Solar Wind Panel f ro m LM Window Looking Southwest
9323	''	11	**	-	<u>-</u>	_	-	11	;	"	11	TV Camera from LM Window Looking North
9324	17	11	11	-	-	-	-	11	11	***	11	View of Flag from LM Window
9325	٠,	11	11	-	-	-	-	11	11	"	***	11
9326	"	11	11	,	-	-	-	**	11	"	11	Erectable Antenna from LM Window
9327	,,	11	11	-	-	-	1	:	11	"	11	View of Earth from LM Window
9328	"	11	11	-	-	-	1	**	"	"	**	
9329	"	11	11	-	-	-	-	11	11	11	**	11
9330	"	**	**	-	-	-	-	11	11	"	**	11
9331	,,	11	##	-	•	-	-	11	**	"	11	11
9332	,,	**	**	-	-	-	-	11	"	11	**	***
9333	11	**	11	-		-	_	**	**	"	11	View of ALSEP Station from LM Window
9334	,,	11	11	_	-	-	-	-	11	"	11	11
9335	"	"	11	-	-	-	-	11	11	"	11	11

Magazine II AS14-66 Film S0-168, Color

GET

Sheet 9 of 10 Sheets

Time Reference

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	
9336	NA	60mm	NA	-	-	-	-	NA	12°	Good	76	View of ALSEP Station from LM Window
9337	.,	11	**	-	-	-	-	11	11	11	11	11
9338	.,	11	11	_	_	-	-	"	11	11	**	11
9339	١,,	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	11		-	_	-	"	"	",	11	TV Camera as Seen from LM Window Looking North
9342	1,,	"	11	_	·	-	-	,,	"	"	"	Lunar Surface to Horizon Showing M.E.T. Tracks
9343		"	"		_	-	_	"	11	,,	11	11
9343	1.,	-	"	·NA	NA NA	NA	NA	"	"	"	NA.	Rendezvous View of CSM from LM
9345		"	,,	_	_	_	_	"	11	"	"	п
		 	11	_	_	_	_	,,	,,	11	",	11
9346	111		,,	_			_	".	"	,,	11	11
9347	+	 "	"	 			-	,,	,,	,,	"	11
9348	-			 	<u> </u>	-	<u> </u>	,,	1,	11	"	11
9349	11	"	"	 - -	-	+-	-		+ ,,		"	11

Magazine II AS14-66 Film S0-168, Color

Sheet 10 of 10 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.	Pri	ncipal oint	Api 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
9351	NA	60mm	NA	NA	NA	NA	NA	NA	-	Good	NA	View of CSM During Docking Approach
9 3 52	"	11	"	"] "	"	71	11	11	11	**	11
9353	"	"	11	11	"	11	**	11	11	"	11	"
9354	"	11	ff	11	11	tt	"	:	17	Fair	11	"
9355	11	"	11	11	11	11	11	**	*	11	11	11
9356	"	11	11	"	11	11	"	:	. 11	"	11	11
9357	"	11	11	11	11	11	11	**	11	н	11	11
9358	,,	11	"	"	11	"	11	=	FF	=	11	H .
9359	"	17	11	11	**	=	"	**	11	**	11	11
9360	11	11	11	11	11	11	"	**	11	11	11	11
				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 ___A514 - __67 __Film _S0-168, Color

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	
9361	NA	60mm	NA	-	-	-	-	NA	12°	Good	76	ALSEP Station and M.E.T.
9362	"	11	11	-	-	-	-	"	*1	11	11	Passive Seismic Experiment
9363	",	11	11	-	<u>-</u>	_	-	11	**	11	11	ALSEP and P.S.E.
9364	"	11	**	-	-	-	-	11	11	"	11	C.P.L.E.E. Package
9365		11	11	-	-	-	-	''	11	,,	11	C.P.L.E.E., ALSEP, M.E.T.
9366	"	"	,,	-	-	-	-	"	11	"	11	ALSEP Package
9367	 	''	11	_	-	-	_	''	11	",	11	M.E.T. Tracks and LM Looking
9368	 	11	**		_	-	-	"	11	"	11	11
9369	,,	11	11	_	_	-	-	"	"	11	**	C.P.L.E.E. Package
	 		11			-	_	"	"	-,,	"	"
9370	 	,,	,,		_	_	-		"	11	11	11
9371	-		,,		_	-	_		11	,,	"	C.P.L.E.E. and ALSEP Packages
9372	-"						_	- "	,,	11	11	C.P.L.E.E. Package
9373	- "	11	"	-	-	+		"	11	",	"	Cdr. Shepard with TV Looking
9374	"	"	"	ļ <u>-</u> -	-	-	-	 	<u></u>	 	11	South ALSEP Station, C.P.L.E.E.
9375	"	"	"	-	-	-			11			ALDEI Station, Circumstance

street 1 of 3 Shoots

Magazine JJ A\$14 - 67 Film S0-168, Color

Sheet 2 of 3 Sheets

Time Reference

GET GMT

		·		,								
Frame No.	Rev.	Comera	Approx. Photo Scale		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
9376	NA	60mm	NA	-		_		NA	12°	Good	76	ALSEP Station, C.P.L.E.E.
9377	11	11	"	-	_	_	_	"	"	**	11	11
9378		"	11	-	-	-	_	11	11	-11	11	ALSEP Pkg., A.S.E. Pkg.
9379	"	"	"	-	-	-		11	11	,,	"	ALSEP Package
9380	"	"	11	-			_	"	"	7.7	11	11
9381	"	;	**	-	_		-	11	11	**	11	11
9382	.,,	11	11	-	-		_	71	11	Poor	11	ALSEP Pkg, LM Looking East
9383	,,	11	11	-		-	_	"	*11	Good	**	ALSEP Package
9384	11	11	**	-	<u>-</u>		-	,,	:	=	11	ALSEP, P.S.E. Packages
9385	"	**	11	_	_	-	-	11	**	"	**	Laser Reflector
9386	11	11	11	-	-	-	1	11	ŧŧ	"	11	п
9387	"	11	11	_	-	-	-	11	71	Poor	**	Laser Reflector, LM, Astronaut Looking East
9388	,,	11	11	-	-	-		11	11	Good	**	LM Looking East Southeast
9389	,,	11	†† 3	-	-	-	-	11	"	"	11	Astronaut Mitchell, ALSEP Looking West
9390	"	"	17	"	-	-	-	**	11	"	11	Lunar Surface Close-ups

Magazine JJ AS14 - 67 Film S0-168, Color

Sheet 3 of 3 Sheets

Time Reference

GET

Frame No.	Rev. No.	Comera f Length	Approx. Photo Scale	Principal Point		Approx. Tilt Data		Fwd	Approx. Sun	Photo Quality	Photo Index	Description
				Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	C. Case Close-uns
9391	NA	60mm	NA	-	-	-	-	NA	12°	Good	76	Lunar Surface Close-ups
			"		-	-	-	"	11	"	11	"
9392	<u> </u>				-	-	 _	"	"	"	11	11
9393	"	"	"							 -		
					END OF	MAG	AZINE	 	<u> </u>	-		
	+-	 	 									
	\vdash			+	+	+-	+	1				·
				ļ		╁──	+-	+	-	+		
							-	┼—		+	-	
				1							<u> </u>	
	+	+	-									
	+-			-	 	1	_					
						+		+-	+,-	_		
										+		
										-	-	
	+											
				+	+	\top	\top	1				

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

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

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	
				Lat.	Long.	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	п		-	-	11	11	-	11	"	-	LM on Horizon. M.E.T., Color Chart, Gnomon
9410	,,	.11	11	_	<u>-</u>	11	NW		"	11	-	Color Chart, Gnomon, and Footprints
9411	,,	"	11	-		"	11	-	"	11	_	"
9412	11	"	11	_	-	<u>"</u>	"	-	11	,,	-	tt.
9413	"	"	**	-	-	"	SW	-	11	11	_	Color Chart & Gnomon with LM on Horizon and M.E.T. Trail
9414	11	11	**	-	-	,,	N	-	"	"	-	Shepard Examining Large Rock
9415	11	"	"	-	-	"	W	•	"	"	-	Looking West, Start Pan 2
9416		11	*1	-	-	11	11		,,	"	-	Rocks on Edge of Shallow Depression
9417	,,	11	**	-	-	11	NW	-	11	**	-	Large Rock with Other Large Rocks in Background
9418	"	"	"	-	-	"	N	-	11	"	-	Shallow Craters and Large Rocks
9419	11	11	**		-	"	NE	-	11	**	_	Large Rock on Slope, Small Rocks Scattered Over Area
9420	11	11	*1	-	-	"	"	-	,,	"	_	11
9421	"	11	"1	-	-	"	E	-	**	" .	-	Small Rocks and Shallow Depressions, Large Rock
9422	"	11	*1	-	-	**	11	-	11	"	-	Astronaut Pulling M.E.T., Small Crater, M.E.T. Tracks

Magazine MM A514- 68 Film SO-267, BW

Sheet 3 of 7 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	, , , , , , , , , , , , , , , , , , ,
9423	NA NA	60mm	NA	_	-	NA	SE	-	24°	Good		Small Craters, M.E.T. Tracks and Small Rocks
9424	"	11	"	-	-	,,	"	-	11	"	-	Small Crater, M.E.T. Tracks, Large Shallow Crater Near Horizo
9425	"	11	11	-	-	"	S	-	"	"	-	Crater "Old Nameless" on Hori- zon, Smaller Craters, Large Rock
9426	"	"	11	-	-	"	"	-	11	11	-	"Old Nameless" on Horizon, Smaller Craters
9427	"	11	11	<u>-</u>	-	",	SW	_	11	11	-	н
9428	"	11	11	-	-	"	"	-	11	11	_	Flat Rock Formation Near Crater
9429	"	11	11	-	-	**	"	-	11	"	-	11
9430	"	11	11	-	-	"	W	_	11	"	-	Boulder and Large Rocks Near Crater
9431	"	11	**	-	-	"	NW	-	11	"	-	Crater Near Ridge, Large Rocks
9432	1,,	**	11	-	-	"	"	-	,,	"	-	Large Stones, Boulders on Slope Near Mound & Crater. End Pan
9433	 	11	,,	_	_	"	N	-	"	11	-	Large Rocks, Mound with Large Rocks in Top & Sides. Start Pan
9434	"	"	"	-	-	"	NE	_	,,	"	-	Small Craters, Boulders Near Horizon
9435	"	"	"	-	-	"	"	-	"	11	-	Boulder Near Horizon
9436	1.,	"	",	_	-	"	Е	-	.,	"	-	Large Rocks Looking into Sun
9437	"	"	11 /	-	-	"	"	-	11	**	_	Large Rocks

Magazine <u>MM</u> AS14 - 68 Film S0-267, BW

Sheet 4 of 7 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Angle	Quality	Area	Description
9438	NA	60mm	NA	-	-	NA	SE	-	24°	Good	-	Rolling Surface with Small Craters & Rocks. Footprints
9439	.,	,,	. 11	-	-	,,	"	-	11	21	-	M.E.T. Near Rim of Depression
9440	"	11	11		-	11	S	-	11	,,	_	Old Nameless on Horizon
9441	,,	11	**	-	-	,,	11	-	"	11	-	11
9442	١,,	11	**	-	-	"	SW	-	11	"	-	M.E.T. Tracks, Boulders, LM in Distance, End Pan
9443	١,	,,	11	-	-	"	N	-	"	"	-	Color Chart & Gnomon in Edge of Boulder Field
9444	"	"	ţţ	-	<u>-</u>	"	11	-	**	"	_	11
9445	,,	"	**	-	-	"	NW	-	**	"	<u>-</u>	Cracked Boulder on Ridge
9446	"	,,	**	-	-	"	N	-	**	"	-	Boulder Field
9447	- "	"	"	-	-	"	SW	-	11	"	-	Looking SW From Ridge
9448	١,	"	11	_	-	"	11	-	7.5	"	-	Boulders
9449	"	"	н	-	-	"	11	-	11	11	-	. "1
9450	"	,,	11	-	-	,,	W	-	11	11	-	Large Rock Formation
9451	"	"	**	<u>-</u>	-	"	N	-	11	11	-	Large Boulders Overlooking Boulder Field
9452	"	"	11	-	-	"	NW	-	11	"	-	Boulder Formation

Magazine MM A\$14-68 Film SO-267, BW

Sheet 5 of 7 Sheets

Time Reference

GET

Frame	Rev.	Comera	Approx.	Prir Po	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	
9453	NA	60mm	NA	_	-	NA	W	-	24°	Good	-	Boulder Formation
9454	"	. 11	"	_		"	N	-	11	"	-	Core Tube Inserted in Surface Large Shallow Depression
9455	"	11	"	-	-	"	11	_	11	"	_	11
9456	,,	11	"	-	-	"	"	_	31	"	_	11
9457	,,	"	11	-	-	"	"	-	**	"	-	11
9458	,,	"	11	-	-	"	11	-	"	11	-	11
9459	"	,,	11	-	-	"	W	-	11	11	_	Color Chart & Gnomon. Large Boulders on Horizon to West
9460		11	11	_	_	-,-	SW	-	"	11	-	Color Chart and Gnomon
9461	,,	11	11	_	_	"	11	-		"	-	11
9462	,,	11	11	-	_	"	11	-	"	11	-	11
9463	"	"	**	-	-	"	11	-	"	***		11
9464	7,	"	"	-	-	"	11	-	,,	11	-	11
9465	 ,,	"	"	-	-	"	N	-	"	"	-	11
9466	 	11	11	-	_	"	"	-	",	"	-	"
9467	+	11	11	-	-	"	"	-	11	"	-	H H

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

Sheet 6 of 7 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint	Api 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	
9468	NA	60mm	NA .	-	. -	NA	N	-	24°	Good	-	Large Rocks
9469	,,	11	11		-	11	NE	_	11	11		11
9470	,,	"	11		<u>-</u>	"	11	-	*1	11		11
9471	,,	11	. 11		-	11	11	-	11	"		"
9472	"	11	11	-	<u>-</u>	11	N	-	11	"	1	Large Rock, Start Pan 4
9473	,,	11	11	-	-	**	11		"	,,	-	11
9474	"	11	11	-	-	"	11		11	11	-	. 11
9475],,	11	11		_	,,	NW	_	11	"	-	11
9476	,,	"	71	_	_	11	,,	_	11	11	-	"
9477	"	,,	11	_	-	,,	W	_	11	11	-	ALSEP Area in Distance, Break in Pan
9478	,,	11	11	_	_	,,	NW	_	11	11	_	Large Rock, Continuous Pan
9479	,,	,,		_	_	"	,,	_	11	"	-	11
9480	,,	"	11	_	_	,,	N	-	11	"	-	Large Crater Near Horizon
9481	,,	11	11	_	_	,,	,,	_	11	"	1	11
9482	"	11	11	-	-	"	NE	-	11	11	-	Large Rocks

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

Time Reference GET

Frame	Rev.	Camera	Approx.		ncipal oint		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	-	-	11	E	-	**	"	-	11
9485	"	11	**	-	-	11	11	-	£ †	"	-	11
9486	"	11	17	-	-	11	SE	_	11	11	_	LM with Triplet in Background with Astronaut
9487	''	11	"	-	-	"	11	-	11	''	_	LM with Triplet in Background with Astronaut. End Pan
9488	,,	"	11	-	-	"	S	-	71	''	-	Looking SE Toward Triplet. Start Pan
9489	"	11	11	-	<u>-</u>	11	SE	-	"	''	-	Shallow Crater on Ridge
9490	"	11	11	-	_	**	S	-	11	''	-	Double Shallow Craters on Ridge
9491	"	11	"	-	-	"	"	-	,,	"	-	Shallow Crater with ALSEP in Distance
9492	.,	11	,,,	-	-	,,	11	-	"	"	-	S-Band Antenna
				END OF	MAGAZINE							
			-									
		<u> </u>										
	-			 								
	<u> </u>	l	<u> </u>	<u> </u>	1	L	1	<u> </u>	1	<u> </u>		

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

Magazine P AS14 - 69 Film 3400, BW

Sheet 2 of 11 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		ncipal oint		Data .	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	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	"	"	"	11	15.5°E	11	11	11	11	11	**	"
9510	11	11	11	"	"	15°	11	90%	11	11	11	11
9511	"	"	11	11	11	11	11	11	11	11	**	11
9512	"	11	"	11	11	"	"	11	**	**	11	11
9513	11	11	11	11	11	"	"	11	11	"	11	11
9514	"	11	11	11	11	10°	"	11	11	11	11	"
9515	"	"	1:222,000	"	11	"	- 11	11	11	Good	11	11
9516	''	''	"	11	11	0-10°	١,	100%	11	11	11	Near Vertical of Descartes Landing Site
9517	''	11	"	11	11	''	"	11	11	17	11	"
9518	"	11	''	11	11	0°	0°	"	11	"	11	Vertical View of Descartes Landing Site
9519	"	H	77	. 51	11	,,	"	*1	11	"	**	11
9520	''	11	r r	*1	. 11	"	''	11	11	11	11	11
9521	''	11	**	**	ŧŧ	11	"	11	11	11	**	11
9522	,,	11	11	,,	11	11	''	"	11	,,	**	11

- 1

.

Magazine P AS14 - 69 Film 3400, BW

Sheet 3 of 11 Sheets

Time Reference

GET GMT

Frame	Rev.	Comera	Approx.		icipal int		rox. Data	Fwd .	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
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		11
9525	.,	11	"	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	Ħ	11	. 11	11	11	11	11	11
9528	"	11	**	11	11	"	11	. 11	11	11	11	11
9529	,,	"	11	11	11	10°	=	95%	11	11	11	11
9530	"	11	1:225,000	**	11	11	11	11	"	"	11	Oblique View of Descartes Landing Site
9531	"	"	11	11	11	11	=	11	***	"	11	
9532	,,	11	*1	11	"	15°	=	. **	11	"	11	11
9533	"	11	11	11	"	11	11	11	11	11	11	11
9534	"	11	1:240,000	***	11	20°	11	:	11	11	11	tt.
9535	,,	71	**	"	11	"	11	11	**	11	11	End of 1st 500-mm Pass over Descartes Landing Site
9536	28	**	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	"

Magazine P AS14 - 69 Film 3400, BW

Sheet 4 of 11 Sheets

Time Reference

GET GMT

Frame	Rev.	Comera	Approx.	Pr;	ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	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	,,	"	11	11	11	11	"	11	11	"	==	tt
9540	"	11	,,	11	18.0°E	11	"	*1	11	"	11	tt
9541	"	"	11	11	. "	"	"	,,	11	"	11	11
9542	"	11	1:240,000	**	17.5°E	11	"	"	11	٠,	11	11
9543	"	11	",	11	**	"	11	11	11	11	11	ti .
9544	''	11	1:230,000	††	16.5°E	25°	"	11	11	11	11	11
9545	**	11	Ħ	11	11	11	"	11	11	ff .	11	Oblique View of Descartes
9546	۱,,	11	11	11	11	"	11	11	ŧī	"	**	"
9547	,,	**	,,,	"	16.0°E	11	11	90%	15	11	11	"
9548	11	11	1:225,000	11	15.5°E	20°	"	11	11	Good	11	11
9549	"	11	"	+1	11	**	11	"	11	11	11	"
9550	"	11	**	11	**	10°	11	11	11	"	11	Near Vertical View of Descartes Landing Site
9551	"	11	11	11	11	11	11	11	11	''	11	11
9552	"	11	11	11	11	11	11	"	"	51	11	11

Magazine P AS14 - 69 Film 3400, BW

Sheet 5 of 11 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		cipal int	Appi Tilt		Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Areo	
9553	28	500mm	1:225,000	9.0°S	1 5. 5°E	0-10°	280°	90%	59°	Good	78	Near Vertical View of Descartes Landing Site
9554	",	11	11	11	11	11	11	11	11	11	tt	11
9555	"	11	1:222,000	11	ř I	11	11	95%	11	11	11	11
9556	,,	,,	11	**	11	11	11	11	11	,,	11	II .
9557	11	11	11	"	11	"	*1	**	11	"	"	"
9558	,,	,,	11	11	11	0°	0°	"	11	11	11	Vertical View of Descartes Landing Site
9559	,,	,,	11	"	"	"	"	11	11	",	11	"
9560	,,	"	"	11	11	11	,,	11	**	",	11	"
9561	"	,,,	11	ft	"	"	11	11	11	11	11	"
9562		11	,,	11	* **	,,	11	,,	11	11	11	11
9563	† .,	"	"	,,	11	11	"	''	11	11	"	"
9564	,,	"	**	11	"	11	**	"	11	"	"	**
9565	-	11	"	"	11	"	",	"	**	11	"	н
9566	-,,	"	"	"	11	"	"	"	"	11	11	U.
9567	 	'''	11	***	"	0-10°	100°	11	"	11	**	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 '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
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	"	H 1	" .	"	,,	"	"	11	11	"	"	11
9570	11	11	11	11	"	11	11	90%	11	11	11	ti .
9571	,,	11	1:230,000	"	11	11	11	11	11	"	11	
9572	''	11	11	"	11	20°	"	11	11	"	"	Oblique View of Descartes Looking East
9573	''	11	1:240,000	"	11	11	:	11	"		11	H
9574	"	11	11	11	***	11	11	11	**	"	11	11
9575	"	11	11	"	"	"	11	11	1)	"	"	11
9576	"	†1	1:300,000	4.0°S	15.0°W	40°	110°	0%	27%	11	76	Oblique View of Fra Mauro H and HA
9577	11	11	"	1.0°S	14.0°W	40°	75°	0%	11	"	11	Oblique View of Eastern Fra Mauro Highlands
9578	30	tt.	1:222,000	9.5°S	19.5°E	0°	0°	11	59°	Poor	78	Approximate Area of DE-2 4° E of Descartes Landing Site
9579	11	**	1:240,000	11	19.0°E	20°	280°	50%	11	Fair		Oblique Sequence Just Prior to Descartes
9580	"	11	11	"	18.5°E	11	11	"	11	"	11	
9581	,,	11	**	11	11	11	11	11	11	11	11	11
9582	,,	11	IT	11	11	11	11	†1	**	**	**	

Magazine P AS14 - 69 Film 3400, BW

Sheet 7 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camero	Approx.		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	
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	"	11	1:230,000	*11	11	"	"	11	**	"	11	11
9585	"	11	11	11	17.5°E	11	11	"	"	11	11	Oblique Sequence Just Prior to Descartes Landing Site
9586	"	11	tt	11	16.5°E	11	11	11	**	11	**	"
9587	11	11	84	11	11	11	"	11	11	"	"	"
9588	,,	,,	1:225,000	"	16.0°E	19	"	**	17	,,	11	ff .
9589	,,	,,	11	11	15.5°E	",	"	90%	11	Good	11	Oblique View Into Descartes Landing Site
9590	.,	11	11	11	11	**	11	:	**	,,	11	n .
9591	.,	11	11	11	11	15°	,,	**	11	".	11	11
9592	,,	11	11	11	11	"	-	11	11	**	11	н
9593	"	11	"	11	**	"	1,	11	11	"	11	11
9594	,,	11	"	11	11	"	"	11	,,	.,	**	
9595	-,,	,,	"	9,0°S	"	10°	,,	11	"	"	Ħ	Near Vertical Sequence of Descartes Landing Site
9596	 	,,	1:222,000	11	11	"	,,	,,	",	11	**	11
9596	"	,,	11.222,000	"	11	11	11	"	11	11	11	"

Magazine P AS14 - 69 Film 3400, BW

Sheet 8 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint	Ap Tilt	prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun 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	**	11
9600	"	n	11	11	19	0°	0°	100%	11	"	11	н
9601	"	11	11	11	11	"	"	"	11	,,	*1	11
9602	"	**	"	11	"	"	"	:	*1	"	**	11
9603	"	**	11	11	11	11	"	11	11	,,	11	"
9604	"	11	11	11	11	"	"	11	11	11	11	"
9605	"	11	**	"	11	11	"	11	11	11	11	11
9606	"	11	1:225,000	11	.,	0-10°	100°	11	11	11	11	Near Vertical Strip of Descartes Landing Site
9607	"	11	11	"	"	"	11	"	11	"	11	"
9608	"	11	11	11	11	11	"	17	11	"	11	11
9609	٠,	11	11	"	Ħ	**	11	**	"	11	11	"
9610	11	11	1:250,000	11	11	10-20°	11	11	11	11	11	Oblique View of Descartes Landing Site Looking East
9611	"	11	**	,,	11	"	11	"	**	"	**	11
9612	"	11	11	11	11	20-30°	. 11	,,	,,	"	11	11

Magazine P AS14 - 69 Film 3400, BW

Time Reference GET

GMT

Frame	Rev.	Camera	Approx.		icipal sint		orox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Angle	Quality	Area	
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	,,	,,	11	11	11	11	"	11	**	11	***	11
9615	"	11	11	11 .	11	30°	100°	95%	11	"	11	11
9616	"	"	-	2.5°S	29.5°W	50°	270°	90%	14°	Fair	76	West Looking, High Oblique Sequence of Lansberg B & D
9617	,,	11	_	11	**	,,	"	11	11	"	11	11
9618	"	11	-	11	11	"	"	†1	11	,,	11	11
9619	,,	11	-	11		"	"	11	11	11	11	11
9620	,,	11	_	***	11	11	"	"	11	,,	11	11
9621	,,	11	1:222,000	_	_	0°	-	-	20°	11	**	Fra Mauro Highlands
9622	,,	11	1:250,000	3.5°S	25.0°W	30°	285°	50%	21°	Good	**	Highlands to the South of Lansberg Crater
9623	,,	"	"	"	11	11	11	"	11	***	11	**
9624	"	"	11	3.0°S	26.5°W	"	"	"	"	11	11	11
9625	"	"	11	11	27.0°W	"	11	"	''	11	11	н
9626	,,	11	"	11	27.5°W	"	"	80%	,,	11	11	11
9627	"	11	"	"	28.0°W	"	"	"	"	"	11	"

Sheet 9 of 11 Sheets

Magazine P A514 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	
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	tt	11	"	11	11	11	11	11	11	11
9630	"	"	11	u	11	20°	11	50%	11	11	11	Oblique Approach to Lansberg B
9631	"	11	11	11	11	"	11	11	11	11	11	11
9632	"	11	51	11	11	11	11	80%	11	"	11	11
9633	"	11	1:230,000	11	11	15°	11	11	11	"	11	11
9634	"	tt	tt	11	"	"	"	100%	11	"	11	11
9635	"	9.0	**	"	"	"	"	11	11	,,	11	ti.
9636	"	tt	"	11	"	"	11	11	11	11	11	11
9637	11	ŧŧ	1:222,000	2.5°S	11	10°	11	11	**	"	"	Near Vertical Sequence of Lansberg B
9638	۱,,	11	11	11	"	"	11	11	11	,,	11	11
9639	,,	11	11	ff	11	"	11	**	11	,,	11	11
9640	11	11	Ħ	11	11	0-10°	"	11	5.0	11	11	11
9641	,,	11	11	11	11	''	"	11	11	11	11	Vertical View of Lansberg B
9642	'''	11	11	11	11	",	"	11	11	11	11	11

____ AS14 - 69 Film 3400, BW

Time Reference

GET

GMT

Frame	Rev.	Comera	Approx.		cipal	App Tilt		Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
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	"	11	"	"	"	"	"	"	"	"	*	11
9645	 	"	"	''	11	0°	0°	"	11	"	11	11
9646	,,	11	11	11	,,	"	"	"	"	"	"	"
9647	- "	,,		11	"	"	"	"	"	"	"	"
9648	"	"	"	"	"	0-10°	105°	, ,,	11	**	11	Near Vertical View of Lansberg B
9649	 	"	"	"	"	"	"	"	"	"	"	11
9650	†	"	,,	11	"	"	,,	"	11	"	"	11
9651	†	"	"	11	,,	"	"	"	"	"	"	"
	+		,,	"1	"	10°	"	"	"	"	"	"
9652			"	11	"	".	"	"	"	"	"	11
9653	+	 	,,		"	15°	-,,	"	"	"	"	Low Oblique of Lansberg B
9654	+"	 -	-	 		"	1,,	"	"	,,	"	"
9655		-"	"	- "	 "	-	-├	 	 		 "	11
9656		,,	"	"	"	20°		- "	"	+"-		
				END OF	MAGAZINE				-			

Sheet 11 of 11 Sheets

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.	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	
9657	26	80mm	1:1,380,000	4.5°S	135.0°E	VERT	ICAL	50	5°	Dark	84	Crater East of Crater Prager
9658	,,	"	11	11	11	"	11	11	11	"	11	"
9659	,,	11	11	11	134.0°E	11	"	11	6°	11	11	
9660	"	11	11	11	133.0°E	11	11	11	"	11	tt	East Edge of Prager
9661	"	11	11	11	132.0°E	11	"	11	8°	"	11	Crater Prager
9662	"	"	"	4.0°S	131.0°E	"	"	11	11	''	11	11
9663	11	11	**	11	130.0°E	**	"	11	10°	"	11	Craters Prager and Love
9664	"	"	"	11	129.5°E	"	"	11	11	"	11	11
9665	"	11	11	4.5°S	128.5°E	"	"	11	12°	11	83	Crater Chain E of Crater Prager
9666	"	11	11	11	128.0°E	"	"	11	*1	11	11	Crater Chain on Rim of Crater Love
9667	- ,,	11	11	11	127.0°E	"	11	,,	14°	11	11	. 11
9668	,,	11	"	11	126.0°E	11	"	"	"	"	t t	Highland Area on NW Side of Crater Love
9669	,,	"	11	11	125.0°E	"	,,	"	15°	11	11	South of Crater Becvar
9670	"	"	11	5.5°S	124.0°E	"	"	"	"	11	11	11
9671	"	"	71	"	123.0° E	"	. 11	"	17°	11	11	"

Magazine Q AS14 - 70 Film 3400, BW

Sheet 2 of 13 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun 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	11	121.0°E	"	11	11	20°	n	11	11
9674	"	11	11	11 .	120.0°E	"	''	"	11	11	11	North of Crater Langemak and South of Becvar
9675	11	11	11	11	119.5°E	''	11	11	21°	"	11	11
9676	"	11	11	6.5°S	118.5°E	"	11	11	11	''	11	11
9677	"	11	11	**	117.5°E	"	**	**	22°	"	11	Northwest of Langemak Southeast of Vesalius
9678	11	11	**	17	116.5°E	"	;	11	11	11	11	11
9679	11	**	11	11	116.0°E	"	**	"	11	11	11	South of Vesalius Crater and North of Meitner
9680	"	11	,,	7.0°S	115.0°E	"	"	11	26°	"	11	11
9681	"	11	11	11	114.0°E	"	11	***	11	"	11	11
9682	,,	11	"	7.5°S	113.0°E	11	,,	11	28°	11	11	11
9683	11	*1	11	11	112.0°E	"	"	11	11	tr	11	North of Meitner Crater and South of Buisson
9684	"	**	11	11	111.5°E	**	11	"	11	Fair	11	Southeast of Einthoven Crater
9685	"	11	11	11	111.0°E	11	11	=	30°	11	11	11
9686	''	11	11	11	109.0°E	11	11	11	11	11	Ħ	On NE Rim of Pasteur Crater

Magazine Q A514-70 Film 3400, BW

Time Reference

1

GET

GMT

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

•

Sheet 3 of 13 Sheets

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

Sheet 4 of 13 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	D
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index 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	"	11	11	11	93.0°E	"	-	11	11	*1	11	Between Craters Brunner and Gansky, and Sea of Hirayama
9704	,,	**	11	11	92.0°E	"	"	11	48°	"	"	Craters Brunner and Hirayama
9705	"	11	11	11	91.0°E	11	"	"	11	"	11	11
9706	"	**	11	10.5°S	90.0°E	**	"	11	50°	"	**	Crater Brunner South of Mare Smythii
9707	"	,,	"	11	"	"	"	11	11	"	11	11
9708	11	"	***	11	89.0°E	**	11	50	52°	11	81	West of Brunner South of Mare Smythii
9709	"	17	"	11	88.0°E	11	"	11	11	"	**	11
9710	"	11	"	=	87.0°E	11	11	60	54°	"	11	11
9711	"	**	11	11.0°S	86.0°E	"	11	11	11	"	**	**
9712	"	11	11	11	85.0°E	11	11	H	56°	11	11	West of Ansgarius and South of Mare Smythii
9713	"	11	"	11	84.0°E	11	11	"	"	"	**	н
9714	"	11	11	"	83.0°E	11	"	**	58°	10	11	11
9715	"	**	11	10.5°S	83.5°E	11	"	"	11	"	"	Crater Ansgarius "N"
9716	"	**	11	11	11	17	''	''	11	''	0	11

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

Sheet 5 of 13 Sheets

Time Reference

GET

	Rev.	Camera	Approx.		cipal int		Data	Fwd	Approx. Sun	Photo Quality	Photo Index	Description
Frame No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
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	"	"	11	"	**	Craters Ansgarius and Ansgarius N and La Perouse E
	"	"	"	11.0°S	79.5°E	11	"	"	64°	"	"	Craters Ansgarius and Ansgarius M and La Perouse E
9719	-		,,	"	78.5°E	"	"	"	"	"	''	11
9720	"		"	,,	77.5°E	"	"	"	66°	,,	"	Craters Ansgarius, La Perouse and La Perouse
9721		,,	"	,,	76.0°E	,,	"	50	"	"	11	Crater La Perouse
9722 9723	"	,,,	"	11.5°S	75.5°E	"	"	65	68°	"	"	11
	"		 "	12.0°S	74.5°E	"	"	"	"	11	"	"
9724	"		-	"	73.5°E	"	"	50	70°	"	11	Between La Perouse and Kapteyn Craters
9725		 			"	,,	-	11	,,	"	"	11
9726	+"			,,	72.0°E	"			72°	"	"	Crater Kapteyn
9727	+"	 "		"	71.5°E	"	 "	70	"	"	11	11
9728	<u> "</u>		"	ļ <u>"</u>		 	+-	-	74°	+ ,,	",	11
9729		"	"	"	70.5°E			55		-	-	SE of Crater Kapteyn
9730	\ "	"	" ,	"	69.0°E		<u> </u>		"	- "	80	South Rim of Langrenus A
9731	۱,,		11 /	"	68.0°E	"	"	"	76°	"		South Kill of Bangeria

Magazine Q AS14 - 70 Film 3400, BW

Sheet 6 of 13 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
9732	26	80mm	1:1,380,000	12.0°S	66.5°E	VERT	ICAL	40	78°	Good	80	South Rim of Langrenus A
9733	"	11	11	11.5°S	65.5°E	**	11	60	tt	11	11	Southwest Rim of Langrenus A
9734	"	11	T t	11 .	65.0°E	11	11	70	80°	11	н	East Rim of Langrenus P
9735	11	11	11	12.0°S	64.0°E	**	"	60	**	11	11	11
9736	"	11	11	11	63.0°E	11	11	55	82°	"	**	Langrenus P
9737	"	11	11	"	62.0°E	11	"	70	"	"	11	Langrenus and Langrenus P
9738	"	**	11	11	61.0°E	11	11	11	84°	"	11	South Rim of Langrenus and North Rim of Crater Lohse
9739	"	11	11	***	60.0°E	. 11	11	55	**	"	11	11
9740	"	"	"	, 11	58.5°E	"	11	11	86°	:	11	Southwest of Langrenus on East Edge of Mare Fecunditatis
9741	"	11	11	11	57.5°E	11	11	60	11	"	11	II.
9742	11	11	, ,,	11	56.5°E	11	11	"	88°	11	**	South of Langrenus D
9743	11	11	''	"	11	11	**	11	11	"	11	11
9744	11	Ħ	"	11	55.8°E	"	11	r#	90°	11	11	Mare Fecunditatis
9745	"	11	"	11	55.0°E	11	11	11	11	11	11	11
9746	"	11	"	11	54.0°E	11	11	17	88°	11	†1	11

Magazine Q AS14 - 70 Film 3400, BW

Sheet 7 of 13 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		icipal 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	
9747	26	80mm	1:1,380,000	12.0°S	53.0°E	VERT	ICAL	60	88°	Fair	80	Mare Fecunditatis
9748	11	"	11	11.5°S	52.5°E	. 11	"	11	11	11	11	11
9749	"	**	11	11	51.5°E	11	"	**	86°	"	11	11
9750	,,	"	£ŧ.	"	50.5°E	11	"	11	11	11	79	Crater Crozier
9751	"	11	11	11	49.5°E	11	11	71	84 °	"	11	Crater Bellot
9752	١,	"	11	11	48.5°E	11	11	11	11	"	**	"
9753	.,	11	11	11	47.5°E	"	"	=	82°	"	**	11
9754	-,,	"	.,	11	46.5°E	11	"	:	**	17	11	Crater Magelhaens A
9755	"	11	11	11	45.0°E	,,	''	11	80°	,,	"	11
9756	, ,	"	**	11	44.5°E	,,	"	11	11	Good	"	Crater Magelhaens and
9757	"	"	11	11	43.5°E	,,	"	"	78°	"	71	11
9758		11	"	**	42.0°E	11	11	"	''	11	11	Crater Gutenberg D Pyrenees Mountain Range
9759	"	"	"	"	41.0°E	"	"	"	76°	"	*1	Pyrenees Mountain Range
9760	"	"	11	"	40.0°E	,,,	"	"	"	"	11	"
9761		11	11	11°S	39.0°E	11	11	''	74°	11	11	Craters Gaudibert and Gaudibert A and B

.

.

Magazine Q AS14-70 Film 3400, BW Sheet 8 of 13 Sheets

GET

Time Reference

Frome	Rev.	Camera	Approx.		ncipal oint	App Tilt	prox. Data	Fwd .	Approx.	Photo	Photo Index	D
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun 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	"	"	11	11	37.0°E	,,	"	"	,,	"	"	H+
9764	,,	11	11	11	36.0°E	"	11	11	11	11	11	Mare Nectaris, Crater Daguerre
9765	"		11	11	35.0°E	"	"	11	11	11	11	11
9766	"	**	11	11	34.0°E	11	,,	:	11	"	11	"
9767	11	##	rr .	11	33.0°E	11	"	11	73°	11	11	"
9768	"	**	11	11	32.0°E	,,	11	2	11	"	11	11
9769	"	11	**	10.5°S	31.0°E	11	11	11	11	**	11	Crater Madler
9770	,,	"	**	10.0°S	30.0°E	11	11	"	70°	11	11	
9771	11	11	11	11	29.0°E	"	11	11	**	"	78	Craters Madler and Theophilus
9772	"	п	11	11	28.0°E	11	11	11	68°	11	**	Crater Theophilus
9773	**	11	11	11	26.5°E	,,	"	50	"	11	11	11
9774	11	11	11	11	26.0°E	"	11	80	66°	11	11	11
9775	"	11	11	11	25.0°E	"	11	60	ŧ1	н	**	"
9776	"	11	11	11	23.5°E	11	11	"	64°	**	11	"

Magazine Q AS14-70 Film 3400, BW

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		cipal int		rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
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	"	11	22.0°E	11	11	60	11	,,	**	Crater Kant
9779	,,	11	"	11	21.0°E	11	"	"	<u>"</u>	11	tt	11
9780		11	"	**	20.0°E	11	11	11	60°	"	11	11
9781	,,	11	11	.,	19.0°E	"	11	11	11	"	11	Crater Kant and Crater Zollner
9782	,,	11	"	9.0°S	18.0°E	"	"	"	,,	"	11	Crater Zollner
9783	"	11	,,	11	17.0°E	11	"	"	11	"	"	Approach to Descartes Landing Site
9784	,,	,,	"	8.5°S	15.5°E	,,	,,	"	55°	"	11	Descartes Landing Site
9785	,,	11	11	11	15.0°E	"	"	"	"	,,	11	Crater Dollond B
9786	 	- 11	"	8.5°S	14.0°E	"	.,	"	"	11	11	Craters Dollond B and C
9787	,,	"	"	8.0°S	13.0°E	"	,,	"	**	"	"	"
9788	"	"	"	11	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		,,	,,	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		Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	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	"	7.0°S	7.0°E	"	11	11	"	"	"	Craters Hipparchus C and Hind
9794	"	11	11	11	6.0°E	11	11	11	11	11	11	Craters Halley and Hind
9795	"	,,	,,	, 11	5.0°E	,,	11	11	45°	"	"	Craters Hipparchus and Halley
9796	"	ŧŧ	**	6.5°S	4.0°E	11	11	**	**	Fair	11	Craters Hipparchus and Hipparchus J
9797	<u> </u>	"	"	11	3.0°E	,,	"	"	11	"	***	Craters Hipparchus J and Muller
9798	"	"	11	6.0°S	2.0°E	11	11	11	11	11	11	11
9799	"	ff	11	11	1.0°E	11	11	"	11	**	11	Craters Glyden and Muller
9800	"	**	***	. 11	0.0°	11	11	11	40°	11	11	Craters Glyden and Herschel
9801	"	11	11	11	1.0°W	"	11	11	11	11	**	†1
9802	11	**	11	5.5°S	2.0°W	11	"	**	11	11	"	Craters Herschel and Storer
9803	,,	**	,,	11	3.0°W	,,	11	11	11	11	11	11
9804	11	**		5.0°S	4.0°W	tt	11	11	"	11	11	Craters Flammarion and Herschel C
9805	"	**	11	*1	5.0°W	**	"	11	35°	"	11	Craters Flammarion and Herschel D
9806	"	11	"	11	6.0°W	"	11	*1	"	11		Craters Lalande C and R

Magazine Q AS14 - 70 Film 3400, BW

Time Reference

,

GET GMT

Approx. Principal Photo Tilt Data Approx. Point Fwd Photo Description Rev. Camera Approx. Index Frame Sun 0/L Quality Photo Scale f Length Area No. No. Angle Angle Azimuth Lat. Long. Craters Lalande C and R 34° Fair 77 5.0°S | 7.0° W VERTICAL 60% 1:1,380,000 26 80mm 9807 Craters Lalande and Lalande C 11 ** ** 11 4.5°S 7.5°W ** 11 9808 Crater Lalande 11 32° 11 8.5°W ** 11 9809 Good 55% 9.5°W ** 4.0°S 9810 Crater Lalande δ 31° ** 76 4.5°S 10.5°W 11 11 9811 Crater Lalande E ** 60% 11 11.5°W 11 9812 Crater Turner L 28° 4.0°S 12.0°W 11 11 11 9813 Fra Mauro R, Fra Mauro δ 11 ** 3.5°S | 13.0°W 11 * * 9814 Crater 25° 11 3.0°S | 15.0°W 9815 Crater Fra Mauro G and R 11 * * ** 16.0°W 11 * * 9816 Crater Fra Mauro G, R, and K 23° 290° 15° 2.5°S | 17.0°W 1:1,423,000 9817 Crater Fra Mauro J * * ** 11 11 18.5°W ** 11 9818 Crater Fra Mauro J and T 11 20° 20° 20.0°W 1:1,463,000 9819 Fra Mauro V * * ** 11 11 11 21.0°W 11 9820 11 ** ** 18° 30° ** 2.0°S | 22.0°W 11 1:1,517,000 9821

Sheet 11 of 13 Sheets

Magazine Q AS14-70 Film 3400, BW

Sheet 12 of 13 Sheets

Time Reference

GET

Frame		Camera	Approx.		ncipal oint	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	
9822	26	80mm	1:1,795,000	1.5°S	23.5°W	40°	280°	60%	17°	Good	76	Crater Lansberg P
9823	,,,	"	"	11	25.0°W	,,	"	11	15°	"	**	Crater Lansberg
9824	"	11	"	0.5°S	26.0°W	,,	11	11	11	"	tt	11
9825	,,	"	11	11	26.5°W	,,	11	80%	14°	Fair	11	11
9826	,,	11	11	11	27.5°W	,,	"	11	11	11	11	Craters Lansberg and Lansberg C
9827	,,	"	1:1,517,000	11	29.0°W	30°	,,	**	10°	"	Ħ	Lansberg A and C
9828	,,	11	"	11	29.5°W	,,	"	90%	***	Poor	**	
9829	"	11	11	11	11	11	"	**	08°	"	11	11
9830	,,	11	1:1,463,000	0.5°N	30.5°W	20°_	11	**	11	"	fi .	Lansberg A and AA
9831	"	11	1:1,380,000	11	11	10°	"	11	11	"	11	11
9832	,,	11	"	11	11	0°	0°	11	11	"	**	н
9833	,,	11	"	"	11	10°	90°	11	11	,,	11	11
9834	"	11	1:1,463,000	11	"	20°	"	=	**	11	**	п
9835	,,	11	1:1,517,000	11	"	30°	11	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

Frome	Rev.	Comera	Approx.	Pris Po	ncipal pint	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	
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	11	"	**	11	11	"	11	11	11	11	Dark
9839	=	**	"	11	"	**	,,	"	11	"	**	н
9840	"	"	11	11	**	11	11	"	**	"	17	11
				END OF	MAGAZINE			_			L	
											-	
									-			
							-	<u> </u>				
	<u> </u>			<u> </u>								
							<u> </u>					

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 T AS14- 71 Film 3414. BW

GET Time Reference

9855

GMT

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

30

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	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Area	Description
9856	TEC	8 Omm	-	31.5°N	123.0°E	-	355°	-	10°	Good	30, 47	Craters Innes, Meggars, Cantor, and H. G. Wells
9857	"	n	-	8.0°N	96.0°E	-	330°	-	38°	11	64	Craters Babcock, Erro, Dreyer, and Jansky
9858_	"	п		HORIZ	ON	-	310°	-	48°	11	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°	11	80, 81	Craters Kastner, Langrenus, and Gilbert
9863	"	"	-	6.0°N	70.0°E	-	285°	-	11	11	62, 63	Crater Gilbert; Mare Spumans Mare Crisium
9864	11	"	-	HORIZO	N		320°	-	"	"	28, 45	Craters Hahn and Berosus
9865	,,	"	-	11	11	-	330°	,	**	11	29	Oblique View Looking NW From Fabry Crater into Belkovich Crate
9866	,,	**	-	13.0°S	98.0°E	-	200°		30°	11	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	*	11.0°N	62.0°E	1	265°	-	70°	ı,	44 , 62	Mare Crisium
9869		11	**	12.0°S	84.0°E	-	180°	-	50°	11	81, 99	Mare Smythii, Craters Kastner, Ansgarius, Behaim, Gibbs, and Hecataeus
9870	11	11	-	22.0°S	67.0°E	-	200°	-	65°	11	98	Craters Balmer, Lame, and Petavius

Magazine ____T ___A\$14-__71 ___Film __3414, BW

Sheet 3 of 6 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.	Prin Po	cipal int		rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area		
9871	TEC	80mm	<u>-</u>	14.0°N	60.0°E	1	190°	_	70°	Good	44, 62	Mare Crisium	
9872	"	11	-	3.0°S	67.0°E	-	170°	-	60°	"	80	Craters Gilbert and Langrenus	
9873	7,1	11	-	2.0°N	56.0°E	_	200°	-	70°	"	11	Mare Fecunditatis, Langrenus Crater	
9874	,,	11	-	18.0°N	59.0°E	-	295°	-	"	"	44, 62	Mare Crisium	
9875	"	"	_	20.0°S	71.0°E	-	205°	-	80°	"	98, 115, 80, 79	Ansgarius, Humboldt, Petavius	
9876	,,	11	-	0°	95.0°E	-	90°	-	37°	11	63, 81 64, 82	Mare Smythii, Craters Neper, Jansky, Wyld, Babcock, Pasteur	
9877	1.,	11	_	20.5°S	109.0°E	-	"	-	20°	11	-	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	"	11	-	27.5°N	92.5°E	-	15°	-	37°	"	45, 46, 29	Mare Marginus, Craters Joliot, Maxwell, Goddard, and Szilard	
9882	 	11	_	HORIZON		-	45°	-	20°	"	46, 47, 30	Craters Maxwell, Szilard, Seyfert, and Olcott	
9883	"	,,	_	,,	11	-	80°	-	15°	11	65	Craters Guyot, Ostwald, King and 201	
9884	 		_	29.0°S	107.0°E	-	125°	-	25°	"	82, 100 83, 101	Craters Pasteur, Hilbert, Milne, and Fermi	
9885	"	- "	-	HORIZON		-	150°	-	22°	11	83, 101	Craters Hilbert, Milne, Alden and Fermi	

Magazine _____T ___AS14-____Film ___3414, BW

Sheet 4 of 6 Sheets

Time Reference

GET

Frame		Camera	Approx.		Principal Point		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	
9886	TEC	80mm	-	HORIZO	N	_	150°	_	25°	Good	-	Oblique View Looking SE into Schrodinger Rille	
9887	"	11		32.0°S	125.0°E	-	140°	•	15 °	11	_	Craters Hilbert, Alden, Milne and Tsiolkovsky	
9888	,,	11	-	HORIZO	N	_	150°	-	17°	11	-	Craters Hilbert, Fermi, Milne, and Tsiolkovsky	
9889	**	"	-	25.0°N	107.0°E	-	70°	-	30°	71	-	Craters Joliot, Maxwell; Flemming, Vestine, and Szilard	
9890	"	11	-	-	-	-	170°	-	11	"	-	Oblique View Looking SSE Toward Lebedev Crater	
9891	"	11	-	-	-	-	190°	-	33°	"		Oblique View Looking S into Schrodinger Rille	
9892	"	"	-	-	-	-	-	-	-	"	_	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	-	-	-	-	-	1	-	11	-	Moon View Showing Mare Sereni- tatis and Mare Vaporum	
9896	"	11	7	-	-	-	_	1	-	11	-	Full Moon View Showing Mares Tranquillitatis, Fecunditatis	
9897	11	11	-		. ••	_	-	-	-	Poor	-	and Nectaris Mares Crisium, Tranquillitatis Fecunditatis	
9898	41	11	-	_	-	-	-	_	-	11	-	Oblique View Showing Rays of Crater Tycho	
9899	"	tt	-	_	-	-	-	-	-	11	-	View of Rays of Crater Tycho	
9900	"	11	-	-	-	_		-	-	"	-	Very Dark	

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

Sheet 5 of 6 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		icipal 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	
9901	TEC	80mm	-	_	-	-	-	-	_	Poor	-	Mare Tranquillitatis Mares Crisium, Tranquillitatis
9902	11	**	-	-	-		-	1	-	11	-	and Serenitatis
9903	,,	11	-		-	-	-	-	-	Fair	-	Mares Fertillitatis and Nectari Crater Langrenus, Tycho Rays
9904	-,,	"	-	-	-	-	-	-	-	11	-	Mare Nectaris, Tycho Ray Patterns
9905	,,	"	-	-	-	-	-	-	-	,,	-	Mare Nectaris, Tycho Ray Patterns
9906		11	-	-	-	-	-	-	-	"	_	Mares Crisium, Fecunditatis, and Nectaris
9907	<u> </u>	"	-	-	_	-	-	-	-	"	<u>-</u>	Mares Fecunditatis, Tranquil- litatis; Tycho Ray Patterns
9908	,,	"	-	-	-	-	-	-	-	11	-	Tycho Crater Ray Patterns
9909		"	-		-	-	-	-	-	11	_	View of Southeast Quarter of Moon Nearside
9910	,,	,,	-	-	-	-	-	-	-	Poor	-	Dark
9911	,,	,,	-	-	-	-	-	-	-	Fair	-	Mares Crisium, Fecunditatis, Tranquillitatis, and Nectaris
9912	"	,,		-	-	-	-	-	-	Poor	-	Very Bright; Tycho Ray Patterns
9913	,,	,,	-	-	_	-	-	-	-	11	-	"
9914		,,	-	-	-	-	-	-	-	11	-	11
9915		"	-	-	-	-	-	-	_	Good	-	Mares Crisium, Fecunditatis, Tranquillitatis, and Serenitat

Magazine _____T ____A514____71 _____Film ___3414, BW

Sheet 6 of 6 Sheets

Time Reference GET GMT

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

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 A\$14-72 Film SO-368, Color

Sheet 1 of 9 Sheets

Time Reference GET

Frame	Rev.	Camera	Approx.	Prin Po	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	
9918	TLI	80mm	-	-	-	_	_	-	-	Good		LM in S IV B
9919	,,	11	· -	-	-	-	-	-	-	"	***	"
9920	,,	11		-	-		-	-	-	"	-	11
9921	,,	11	-	_	-			-	-	"	-	11
9922	,,	11	_	-	-	-	-	-	-	"	-	11
9923	,,	11	-	-	-	-	-	-	-	,,	-	LM After Emerging from S IV B. S IV B in Background
9924	-,-	11	-	-	-	-	-	-	-	11	-	11
9925	"	,,	_	-	-	-	-	_	-	**	-	LM Thrusters with S IV B in Background
9926	,	11	-	-	-	-	-	-	-		<u>-</u>	
9927	,,	,,	-	_	-	-	-	-	<u>-</u>	11	-	11
9928	-,,	"	-	-	-	-	_	-	-	"	-	п
9929	,,	,,	-	-	-	-	_	_		"	_	11
9930	,,	11	-	-	-		_	-	-	"	-	11
9931	,,	,,,	-	-	-	-	_			"	-	11
9932	"	"	-	-	_		_	-				S IV B

Magazine L AS14-72 Film S0-368, Color

Sheet 2 of 9 Sheets

Time Reference

GET

Frame	Rev.	Comers	Approx.		ncipal oint	Ap 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
9933	TLI	80mm	-	-	-			-		Good	-	S IV B
9934	,,	11	-		-	<u>'-</u>	-		_	"	-	11
9935	,,	11	=	•	-	-	-	-	-	11		11
9936	"	11	-	-	-	-	F	-	₹.	11	-	11
9937	"	500mm	i i	-	.+	:	<u></u>	:	· <u>-</u> -	Poor	_	Unidentified Reflections with Portion of Moon
9938	,,	11	<u>.</u>	-	-	-	_	÷	ž	"	-	11
9939	,,	87	_	-	_	_	-	_	<u>-</u>	"	-	11
9940	"	**	u	· _	-	-	-	-	-	"	_	11
9941	,,	11	ų	_	-		_	-	_	Fair	-	
9942	,,	11	_		_	_	_	-	-	"	-	"
9943	"	11	-		· <u>-</u>	_		-	_	**	-	11
9944	,,	11	-4	1.	<u>.</u>					11	-	11
9945	,,	***	-			1	_	-1	13_	"	-	n .
9946	11	11	4.	· _	_	_	_	_	-	"	-	u u
9947	14	11	1:1,36¢,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	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
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	17	11	11	11	147.0°E	**	55°	**	6°	,,	11	u u
9950	,,	11	"	4.0°S	11	11	80°	"	"	"	11	11
9951	77	11	**	3.5°S	11	11	95°	11	11	11	11	Looking Southeast from Point West of Chaplygin
9952	"	11	**	5.5°S	11	11	100°	"	"	"	11	"
9953	,,	11	11	6.0°S	146.5°E	"	110°	"	11	"	11	11
9954	11	"	"	5.5°S	146.0°E	,,	"	11	7°	"	11	. "
9955	,,	11	"	-	-	,	-	11	11	"	11	Looking Southeast from Point W: of Chaplygin and E of Vil'Ev
9956	"	11	***	6.0°S	146.5°E	11	110°	""	6°	11	11	"
9957	11	11	11			17	"	11	11	"	11	11
9958	,,,	"	,,	3.0°S	146.5°E	11	"	11	11	**	**	Crater Vil'Ev
9959	"	**	,,	4.0°S	146.0°E	,,	120°	,,	7°	**	11	West of Crater Chaplygin
9960	,,	11	11	_	_	"	-	,,	"	,,	",	"
9961	,,	"	11	6.5°N	125.5°E	"	350°	NA	28°	11	65	East of King Crater and West of Morozov Crater
9962	"	11	"	6.0°N	124.5°E	"	330°	80	,,	"	11	"

Magazine L AS14- 72 Film SO-368, Color

heer 4 of 9 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	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	tt	5.5°N	123.5°E	11	"	90%	11	"	11	11
9965	"	11	tt	6.0°N	123.0°E	**	11	80%	30°	11	**	East of King Crater
9966	,,	11	: :	11	**	11	11	95%	11	**	11	"
9967	11	11		5.0°N	122.0°E	,,	"	35%	31°	"	"	Eastern Third of King Crater
9968	,,	11	11	5.5°N	121.5°E	"	"	95%	"	11 .	11	11
9969	,,	11	11	11	121.0°E	11	11	80%	32°	"	11	Eastern Half of King Crater
9970	"	н	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.0°N	120.5°E	11	11	11	11	"	11	Western 3/4 of King Crater
9971	,,	11	11	4.0°N	120.0°E	11	11	**	33°	11	11	Western Portion of King Crater
9972	,,	11	n	11	11	11	"	95%	11	"	11	11
9973	,,	11		11	119.0°E	11	11	60%	34°	11	11	West of King Crater Showing Western Edge of Crater
9974	,,	11	11	11	,,	"	"	98%	11	11	11	West of King Crater
9975	,,	11	11	-	-	,,	"	-	11	11	11	Some Portion of King Crater. Not Locatable
9976	"	11	**	4.0°N	119.0°E	11	11	98%	***	11	11	West of King Crater and NE of Abul Wafa
9977	"	11	11	_	-	-	-	-	-	11	-	Not Identifiable

Magazine L A514-72 Film SO-368, Color

Sheet 5 of 9 Sheets

Time Reference

GET

Frame	Rev.	Comera	Approx.		ncipal oint		orox. Data	Fwd .	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
9978	14	500mm	1:1,360,000	_	-		-			Good		Not Identifiable
9979	٠,	,,	**	4.5°S	102.5°E	50°	340°	80%	50°	,,	82	South of Saha Crater Looking NW
9980		"	11	**	11	11	"	95%	н	,,	11	"
9981	"	11	,,	11	102.0°E	11	"	11	51°	,,	11	11
9982	"	Ħ	**	4.0°S	11		11	11	11	,,	11	11
9983	"	***	11	**	101.0°E	11	11	11	52°	11	**	"
9984	"	''	11	"	11	11	11	11	"	"	17	11
9985	"	**	"	"	11	11	"	11	11	"	11	Southwest of Saha Crater Looking Northwest
9986	"	"	11	6.0°S	100.0°E	"	335°	10%	53°	**	11	11
9987	"	11	,,	11	99.0°E	**	330°	11	54°	"	11	"
9988	"	**	"	**	98.5°E	"	11	30%	11	1,	11	"
9989	11	**	"	11	98.0°E	٠,	"	50%	55°	"	11	11
9990	"	11	"	11	97.5°E	*1	"	"	11	11	**	11
9991	"	11	"	**	97.0°E	"	"	20%	56°	"	11	11
9992	١,,	"	"	-	-	-	-	-	11	11	"	11

Magazine L AS14- 72 Film SO-368, Color

Sheet 6 of 9 Sheets

Time Reference

GET

Frome	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	Sun Angle	Quality	Area	Description
9993	14	500mm	1:1,360,000	_	-	_	-		56°	Good	82	Southwest of Saha Crater Looking Northwest
9994	"	"	"	#	_	٠.	'_	12	11	11	**	"
9995	,,	11	17	±	-	'±	· .	÷	11	**	11	"
9996	"	11	11	4	12	'n	'L	ñ	11	11	11	Low Oblique Looking NW on NW Edge of Gansky Crater (Near Vert.
9997	,,	"	11	-	1	ī	11	÷	11	11	11	"
9998	"	11	11	7.0°S	97.0°E	50°	330°	쉳	11	11	11	·
9999	,,	. tt	11	7.5°S	**	"	"	60%	11	11 :	Ħ	11
10000	,,	Ħ	**	11	96.5°E	,,	"	20%	11	11	11	11
10001	"	11	11	8.0°S	96.0°E	11	360°	"	57°	"	11	11
10002	11	11	"	"	ŧŧ	"	11	98%	11	**	11	11
10003	,,	"	=	11	įt	,,	11	80%	"	=	**	"
10004	,,	11	11	3.0°S	94.0°E	55°	350°	"	59°	,,	11	High Oblique Showing Erro Crater on East Edge of Mare Smythii
10005	11	11	11	2.5°S	93.5°E	11	355°	40%	11	11	"	High Oblique Looking NW in Central SE of Mare Smythii
10006	"	11	11	11	93.0°E	,,	11	45%	60°	"	11	"
10007	".	11	11,	3.0°S	,,	40°	345°	65%	11	11	11	Mare Smythii Area Looking NNW From N Edge of Hirayama Crater

Magazine L AS14- 72 Film SO-368, Color

Sheet 7 of 9 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal pint		orox. Data	Fwd	Approx.	Photo	Photo Index	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Area	Description
10008	14	500mm	1:1,360,000	2.0°S	93.0°E	50°	340°	10%	61°	Good	82	Mare Smythii Area Looking NW from N Edge of Hirayama Crater
10009	"	11	"	2.5°S	91.5°E	11	355°	40%	11	11	11	Mare Smythii Area Looking N from NW Edge of Hirayama Crater
10010	11	*1	11	1.5°S	90.5°E	55°	11	25%	62°	11	81, 82	Mare Smythii Area Looking N from NW Edge of Hirayama Crater
10011	"	11	t)	3.0°S	11	45°	11	10%	11	11	11	Mare Smythii Area Looking N from West Edge of Hirayama Crater
10012	"	11	11	5.0°S	90.0°E	55°	360°	5%	63°	11	11	11
10013	"	11	11	3.5°S	90.5°E	50°	11	75%	62°	11	11	Mare Smythii Area Looking N from NW Edge of Hirayama Crater
10014	**	**	**	3.0°S	90.0°E	55°	11	85%	63°	11	11	
10015	,	"	Ħ	11	11		11	11	11	11	11	Mare Smythii Area Looking NW from NW Edge of Hirayama Crater
10016	11	11	11	11	89.0°E	**	350°	30%	64°	11	11	Mare Smythii Area Looking NW from NW Edge of Hirayama Crater
10017	11	11	11	11		"	11	90%	11	11	81	"
10018	11	11	"	11	11	11	345°	11	"	"	11	11
10019	11	11	"	11	88.5°E	**	11	85%	11	11	11	11
10020		11	"	3.5°S	88.0°E	50°	11	80%	65°	11	11	
10021	,,	11	, 11	11	**	11	11	"	11	11	11	"
10022	"	**	**	3.0°S	* **	55°	11	**	"	11	"	11

Magazine L AS14- 72 Film SO-368, Color

Sheet 8 of 9 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint	App Tilt	orex. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
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	"	, n	11	11	188	,,	,,	75%	"	,,	**	11
10025	 	11	11	tt	rift	"	"	90%	"	"	11	Mare Smythii Area Looking NW fr Point WNW of Hirayama Crater
10026	"	"	"	*1	86.5°E	"	"	95%	11	11	11	11
10027	"	,,	"	11	tt	"	"	17	11	"	**	11
10028	"	,,	11	11	86.0°E	"	"	"	11	"	"	11
10029	 	"	11	11	"	"	"	30%	11	"	11	11
10030	"	11	11	11	"	"	**	"	"	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	"	17	"	''	"	"	"	11
10035		"	**	"	11	"	"	**	11	11	"	11
10036	"	"	"	"	"	"	"	"	11	"	"	"
10037	"	11	11	***	11	11	"	"	11	ff	11	Earth in Crescent View from Lunar Orbit

Magazine L AS14-72 Film SO-368, Color

Sheet 9 of 9 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx. Photo Scale	Prii Pr	ncipal pint	Ap 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
10038	14	500mm	NA	NA	NA	NA	NA	NA	NA	Good	NA	Earth in Crescent View from Lunar Orbit
10039	,,	11	11	11	"	"	"	,,	**	**	**	11
		END OF	MAGAZ INE					<u> </u>				
			į									
-												
<u> </u>												
											;	`

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.	Prin Po	cipal int		orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
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	11	14.0°S	29.5°E	"	11	40%	11	***	78	
10042	.,	,,	"	16.0°S	29.0°E	"	255°	25%	11	11	11	"
	,,	,,	,,	"	28.0°E	11	240°	50%	11	11	77	Western Edge of Mare Nectaris Beaumont D Crater
10043	"	,,	,,	16.5°S	27.0°E	11	.,	30%	11	Fair	*1	Craters Beaumont D and Cyrillus E
10044	"	<u>"</u>	,,	17.0°S	26.0°E	,,	230°	20%	11	Good	,,	Craters Beaumont D and Catharina
10045	"	"		16.0°S	11	30°	245°	"	65°	"	,,	Craters Beaumont D, Cyrillus E, Cyrillus F
10046	"-	 "	1:508,200	10.0 3	25.5°E	"	250°	50%	"	"	"	11
10047		 	"	15.5°S	24.0°E	,,	255°	_	11	11	"	South Edge of Crater Cyrillus
10048	-"-		 	14.0°S	25.0°E	20°	,,	20%	"	,,	11	Floor of Crater Cyrillus
10049	11	"	1:468,800	12.0°S	24.0°E	"	265°	,,	"	"	,,	West Edge of Crater Theophilus Floor of Crater Cyrillus
10050		"		11.0°S	23.5°E	30°		_	"	"	"	Area Just West of Crater Theophilus
10051	"	"	1:508,200	9.5°S	22.5°E		250°		63°	,,	,,	Crater Kant C
10052		"			21.5°E		11	65%	61°	"	. 11	11
10053 10054		"	1:574,600	-	21.5 E	40°	+	+		"	"	Area Between Kant C and Kant

Sheet 1 of 11 Sheets

Magazine M AS14 - 73 Film S0-368, Color

Sheer 2 of 11 Sheets

Time Reference

GET GMT

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

Magazine M AS14- 73 Film SO-368, Color

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		cipal int		rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
10070	26	250mm	_	19.0°S	13.0°E	65°	205°	-	53°	Good	78, 96	Craters Geiber, Abenezra, Azophi, and Geber B
10071	11	. 11	1:880,400	18.0°S	13.5°E	60°	215°	40%	54°	"	11	Craters Geber, Geber B, and Abenezra
10072	,,	11	11	16.5°S	12.0°E	,,	220°	10%	52°	11	**	Craters Abulfeda N and Abenezra P
10072	,,	11	11	15.5°S	10.5°E	**	-11	-	50°	"	78, 77, 95, 96	Craters Abulfeda A and Airy B
10073	-,,	11	11	15.0°S	10.0°E	"	230°	30%	11	"	11	Central Highlands Near Crater Airy B
10075		,,	1:767,100	14.5°S	9.0°E	55°	"	11	49°	"	77, 78 95	Craters Airy A and Abulfeda D
10073	"	,,	"	15.0°S	8.5°E	11	225°	"	48°	"	77, 95	Craters Abulfeda D, Airy A, and Argelander
10078	"	"	1:880,400	14.5°S	7.0°E	60°	,,	10%	46°	11	,,	Craters Burnham, Vogel, and Argelander
		"	1:767,100	14.0°S	7.5°E	55°	220°	60%	47°	"	"	Crater Burnham
10078		,,	1:880,400	15.5°S	6.5°E	60°	225°	30%	46°	**	11	Craters Vogel, Burnham, Argelander, and Airy
10079	"	,,	1:767,100	13.5°S	**	55°	"	15%	**	"	77	Craters Vogel, Vogel B
10080	,	,,	1:679,950	13.0°S	5.5°E	50°		50%	45°	"	11	SE Rim of the Crater Albategnius
10081	-		11.073,330	"	5.0°E	"	"	"	,,	11	11	Craters Albategnius and Parrot
10082	"	"	1:767,100	13.5°S	4.0°E	55°	230	''	44°	"	11	11
10084	"	"	"	"	3.5°E	"	"	"	11	11	11	н

Sheet 3 of 11 Sheets

Magazine <u>M</u> A514-<u>73</u> Film <u>SO-368, Col</u>or

Sheet 4 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		ncipal oint		prox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
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	<u> </u>	11	**	"	2.5°E	"	220°	11	".	"	11	Crater Klein
10087	<u>"</u>	11	1:679,950	11	2.0°E	50°	"	17	42°	**	11	Craters Klein & Alphonsus B
10088	"	"	**	14.0°S	1.0°E	11	"	11	41°	,,	"	Crater Alphonsus B
10089	"	11	11	"	0.5°E	"	"	"	40°	,,	"	,,
10090	,,	11	**	"	0°	"	225°	11	† †		**	"
10091	"	11	11	13.0°S	1.0°W	11	230°	40%	39°	"	II	SW Portion of the Floor of the Crater Alphonsus
10092	"	**	"	12.5°S	2.0°W	"	235°	30%	38°	11	11	Craters Alphonsus and Alpetragius
10093	"	**	11	12.0°S	2.0°W	"	, n	60%	**	11	tr	"
10094	,,	11	1:767,100	12.5°S	2.5°W	55°	240°	50%	11	"	11	Crater Alphonsus; Southern Part of Crater Ptolemaeus
10095	"	11	1:880,400	15.0°S	3.0°W	60°	200°	_	37°	"	77, 95	Craters Alphonsus, Arzachel, and Alpetragius
10096	"	11	-	14.5°S	4.0°W	65°	215°	20%	36°	ti	11	Mare Nubium; Craters Alphonsus, Alpetragius, Alpetragius B
10097	,,	"	1:679,950	13.0°S	11	50°	210°	_	**	11	77	Craters Alphonsus and Southern Tip of Ptolemaeus
10098	,,	**	11	11.5°S	3.5°W	"	245°	"-	11	"	11	SW Portion of Crater Ptolemaeus
10099	T	11	ff	12.0°S	4.0°W	"	250°	-	77	"	**	"

Magazine M A\$14-73 Film SO-368, Color

Time Reference GET

GMT

Sheet 5 of 11 Sheets

Frame	Rev.	Camera	Approx.		cipal int		rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Angle	Quality	Area	·
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	11	11	11	35°	"	11	Craters Davy G and Davy Y
10102	",	11	1:574,600		5.5°W	40°	,,	11	,,	"	**	11
10103	,,	.,	1:622.200		6.0°W	45°		60%	34°	**	"	Craters Davy G, Y; Crater Davy
10103	,,	11	1:767,100		6.5°W	55°	240°	40%	"	"	11	Craters Davy G, Y; Craters Davy and Lassel
10105	-,-	11	1:574,600		11	40°	250°	_	"	*1	11	Craters Davy Y and Ralisa
10106	"	,,	1:485,000		13.0°W	25°	"	12	27°	,,	76	Craters Guericke, Guericke D, Guericke C
		,,		9.5°S	13.5°W	20°	,,	10%	"	11	11	Craters Parry A and Guericke
10107 10108	"	,,	1:469,000	9.5 S 8.0°S	14.0°W	"	260°		26°	"	"	Area Just East of Parry A; Mare Nubium
10109		"	1:455,000	"	11	15°	11	· <u>-</u> _	,,	11	11	Rima Parry II, Mare Nubium
10110	 	,,	"	7.5°S	15.0°W	"	255°	50%	25°	11	11	Craters Parry; Rima Parry II
	-	,,	11	7.0°S	15.5°W	11		20%	"	"	11	Craters Parry and Fra Mauro
10111		"	1:469,000	11	16.5°W	20°		10%	24°	11	,,	Rima Parry, Craters Parry, Fra Mauro, Bonpland
10112		,,		<u> </u>	11	15°		50%	11	"	**	Rima Parry, Crater Fra Mauro
10113	+	"	1:455,000		16.0°W	25°		10%	"	"	"	Craters Parry and Bonpland

Magazine M AS14- 73 Film SO-368, Color

Sheet 6 of 11 Sheets

Time Reference

GET

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

Magazine M AS14-73 Film SO-368, Color

Sheet 7 of 11 Sheets

Time Reference GET

Frame	Rev.	Camera	Approx.	Prin Po	cipal int		rox. Data	Fwd	Approx.	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
10170	27	250mm	1:880,400	4.0°S	73.0°E	60°	20°	50%	66°	Good	63, 81	Craters Gilbert J and Gilbert K
10130	1,,	23011111	1.000,400	3.5°S	72.0°E	11	,,	11	67°	"	"	Craters Maclaurin B, Gilbert J and Maclaurin L
10131	"	,,	,,	3.0°S	71.0°E	65°	15°	30%	68°	,,	11	Craters Maclaurin B and Maclaurin L
10132	"	,,	1:574,600	2.0°S	16.5°E	40°	325°	-	58°	"	78	Crater Delambre
10134	-	11	1:622,200	1.5°S	"	45°	11	30%	**	11	"	"
10135		11	1:574,600	,,	11	40°	"	60%	11	"	11	11
10135	<u> </u>	,,	11	2.0°S	91	,	,,,	20%	11	11	11	Craters Delambre and Theon Junior
	,,	"	1:537,100	3.5°S	17.0°E	35°	330°	-	59°	11	11	Just South of Crater Delambre
10137		"	1:508,200	4.0°S	11	30°	335°	10%	11	"	"	Area Just North of Taylor Crate
•		<u> </u>	"	8.5°S	64.0°E	72°	45°	-	65°	"	"	Rim of Crater Langrenus
10139	_	,,	1:485,500	11	63.5°E	.,	"	10%	**	11	"	11
10140	"	,,	1:468,800	11	11.0°E	,,	"	30%	66°	"	"	11
10141		 "	1:468,800	8.0°S	62.5°E	73°	40°	50%	11	11	"	Floor of Crater Langrenus
10142	1	 		"	"	"	"	60%	67°	,,	11	п
10143 10144	T	- "	1:455,500	"	61.5°E	"	30°	65%	. "	***	11	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	Azimuth	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	.,	11	,,	"	,,	,,	"	50%	67°	11	11	11
10147	"	11	1:574,600	11	11	"	11	20%	**	11	11	Floor and Rim of Crater Langrenus
10148	"	**	11	11	11	11	11	11	11	11	11	Floor and Central Peaks of Crater Langrenus
10149	,,	11	11	11	11	11	11	40%	11	"	11	"
10150	,,	**	1:537,100	9.0°S	61.0°E	"	11	30%	11	11	11	11
10151	11	11	1:508,200	11	11	**	11	20%	Ħ	11	11	North Rim and Floor of Crater Langrenus
10152	,,	11	1:537,100	11 .	11	11	"	40%	68°	Fair	11	tt
10153	"	" .	1:574,600	10.0°S	59.0°E	74°	30°	20%	69°	Good	*1	
10154	28	11	-	_		-	130°	1	83°	11	80	Mare Fecunditatis Near Langrenus D
10155	,,	11		_	-	-	11	40%	**	**	11	11
10156	"	11	-	-	<u>-</u>	_	11	11	**	11	Ħ	11
10157	"	11	-	- 41	-	-	11	11	ŧŧ	**	11	11
10158	11,	11	1:508,200	9.0°S	54.0°E	30°	95°	-	85°	11	11	Mare Fecunditatis, Crater Langrenus DA
10159	"	-11	11	8.5°S	53.5°E	"	"	50%	11	Fair	11	11

Magazine M AS14-73 Film SO-368, Color

GET Time Reference

GMT

Sheet 9 of 11 Sheets

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

Magazine M AS14 - 73 Film S0-368, Color Sheet 10 of 11 Sheets

Time Reference

GET

Frame	Rev.	Camera	Approx.		icipal pint		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
10175	TEC	250mm	-	_	1	_		_	-	Good	<u>-</u>	Tycho Ray Pattern
10176	,,	11	_	_	-	_	_	_	-	Fair	-	View of Southern Tip of Moon
10177	,,	11	_	-	<u>-</u>	-	-	_	_	Good	_	Mares Crisium, Serenitatis, Tran quillitatis, Fecunditatis
10178	,,	11	-	-	<u>-</u>	-	-	-	-	11	· 	Tycho Ray Patterns Mare Nectaris
10179	"	11	_	_	-	_	_	_	-	,,	-	"
10173	,,	11	-	_	-	-	-	-	-	11	-	Tycho Ray Patterns, Mares Nectaris, Fecunditatis
10181	,,	11	-	_	_	-		-	_	Fair	-	View of Southern Tip of Moon
10182	,,	11	_	_	_	-	_	_	_	Poor	_	No Image
10183	"	"	-	· -	7	-	-	-	-	Good	-	View of Lunar Backside From 120°E to 40°E, S Latitudes
10184	11	11	-	-	-	_	-	-	_	11	-	Tycho, Mare Nectaris
10185] ,,	,,	_	_	_	_	_	_	_	"	_	Tycho, Ray Pattern
10186	,,	**	_	_	_	_	_			"	-	Tycho, Langrenus, Mares Nectari Fecunditatis
10187	,,	,,	_		-	_	-	-	-	"	-	Mares Crisium, Tranquillitatis, Nectaris - Tycho
10188	,,	,,	-	-	-	-	-	-	-	11	-	Tycho Ray Patterns
10189	"	"	-	_	-	_			_	н	_	Tycho

Magazine M AS14 - 73 Film SO-368, Color

Sheet 11 of 11 Sheets

Time Reference

GET

Frame	Rev.	Comera	Approx.		ncipal pint		rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lot.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
10190	TEC	250mm	-	<u>-</u>	-	_	_	-	-	Good	-	Tycho, Mare Fecunditatis
10191	"	н	_	-	_	-	-	-	_	,,	_	Tycho, Ray Patterns
10192	"	**	-	-	_		-	-	_	"	-	Tycho, Mares Crisium, Fecunditatis, Nectaris
10193	"	**	-	_	-	_		-	_	"	-	Mare Smythii, Langrenus
10194	۱,,	11	_	-	-	_	_	-	-	Fair	-	TEI Lunar View
10195	"	71	-	-	_	-	-		_	Good	_	Tycho; Mares Serenitatis, Tranquillitatis, Nectaris, Fecunditatis
10196	,,	11	_	-	_	-	_	-	-	"	-	Full Moon View
10197	"	11	_	-	-	-	-	-	-	17	-	"
10198	,,	11	-	-	_	-	-	_	-	11	-	Half Moon View
10199	"	11	_	-		-		-	-	"		Full Moon View
10200	T.,	"	_	-	_	-		-	-	11	-	11
10201	,,	11	_	-	-	_	_	-	_	"	-	11
	-,,	,,		_	_	_	_	_	_	11		11
10202	 "	"			_	_	_	-	_	11	_	t1
10204	"	11	-	-	-	-	-	-	<u>-</u>	11	-	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 GMT

Frame	Rev.	Camera	Approx.	Prin Po	cipal int	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	
10205	12	80mm	-	-	-	-	-	-	-	Good	-	LM Separation Before Landing
10206	"	11	-	-	-	-	-	-	-	"	-	11
10207	,,	11	-	-	-	-	-	-	-	"	-	11
10208	"	**	-	-	-	-	-	-	-	,,	-	11
10209	"	**	-	-	-	-	-	-	-	,,	-	11
10210	"	**	-	-	-	-	-	-	-	,,	-	11
10211	"	"	-	-	-	-	-	-	-	"	-	Unidentified
10212	"	"	-	_	-	-	-	-	_	"	-	LM Jettison
10213	"	"	-	-	-	-	-		-	"	-	11
10214	"	"	-	-	-	-	-	-	_	"		11
10215	"	"	-	-	-	-	-	-	-	"	-	11
10216	"	,,,	_	-	-	-	-	-	-	,,	-	"
10217		"	-	-	-	-	-	-	-	"	-	"
10217	1	,,	-	-	_	-	-	-	-	"	-	"
10219	+-	"	-	-	-	-	-	-	-	"	-	11

Mogazine N AS14 - 74 Film S0-368, Color

Sheet 2 of 2 Shee

Time Reference

GET

Frame	Rev.	Camera	Approx.	Pris Po	ncipal pint	Ap; 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	
10220	12	80mm	-	<u>-</u>	-	_	-	-	-	Good	-	LM Jettison
10221	1.1	"	-	-	-	-	-	-	-	"	-	11
10222	,,	**	.	-	<u>-</u>	-	-	- .	_	"	-	11
				END OF	MAGAZINE							
						i						
!												
			" 1								!!	
		:										
			,									

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 R AS14- 75 Film 3414, BW

Sheet 1 of 7 Sheets

Time Reference

GET

Frame		Camera	Approx.		ncipal pint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.		f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Angle	Quality	Area	
10223	15	8 Omm	-	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	11	11		"
10225	,,	**	-	11	127.0°E	55°	87°	**	11	"	-	11
10226	"	**	-	"	124.0°E	50°	80°	11	**	"	-	11
10227	,,	11	_	6.5°S	11	,,	"	11	"	"	<u> </u>	11
10228	,,	11	-	7.0°S	123.5°E	"	"	11	11	"	<u>-</u>	11
10229	,,	11	-	"	11	"	11	11	"	,,		11
10230	,,	11	-	"	122.5°E	55°	"	,,	,,	,,	<u> </u>	11
10231	,,	11	_	- "	122.0°E	"		,,	"	",		
10232	, ,,	,,	-	,,	11	"	"	"	"	11	-	Looking East from NE Corner of Langemak to Crater Love
10232	† "	,,	_	11	"	11	**	11	*1	"		Langemak
10234	 	"	_	11	120.0°E	,,	,,		. 11	,,		"
10235	"	,,	_	11	11	,,	"	"	,,	11	-	11
10236		,,	_		119.0°E	,,	"	,,	11	"	-	11
10236	 	 	_	"	118.0°E	,,	"	,,	,,	,,	_	Northeast Edge of Meitner, Langemak

Magazine R AS14- 75 Film 3414, BW

Sheet 2 of 7 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.		ncipal oint	Ap Tilt	prox. Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Index Area	Description
10238	15	80mm	-	8.0°S	115.0°E	55°	90°	80%	ZERO PHASE	Good	-	Meitner, Langemak
10239	"	"	-	9.0°S	"	11	"	"	**	11	•	11
10240	"	11	-	11	114.5°E	71	11	**	**	77		"
10241	,,	"	-	11	113.0°E	**	***	**	11	*1	-	11
10242	"	"	-	9.5°S	112.5°E	11	11	11	**	11	-	"
10243	"	"	-	10.0°S	111.5°E	11	"	11	"	,	_	E Edge Pasteur, Meitner
10244	"	"	_	"	110.0°E	50°	11	11	**	,,	-	11
10245	"	11	<u>-</u>	11	109.0°E	55°	11	11	11	"	-	11
10246	,,	"	-	11.0°S	05.5°E	;	280°	11	11	Fair	-	Albategnius, Klein
10247	,,	11	-	"	04.0°E	60°	**	11	11	,,	-	"
10248	"	11	. -	11	03.0°E	**	11	*1		"	-	11
10249	**	**	-	11	11	65°	11	==		"	-	11
10250	11	11	•	11	01.0°E	60°	11	"	11	"	-	11
10251	,,	"	•	10.0°S	0°	11	11	**	11	"	-	Albategnius, Ptolemaeus
10252	"	11	-	tt	11	55°	11	"	11	11	_	11

Magazine R AS14-75 Film 3414, BW

Time Reference GET GMT

Frame		Comera	Approx.		cipal int	Apı 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	
10253	15	80mm	•	10.0°S	2.0°W	60°	280°	80%	ZERO PHASE	Fair	77	Ptolemaeus
10254	,,	"	<u>-</u>	9.5°S	3.0°W	"	11	"	11	"	11	"
10255	"	"	-	11	3.5°W	11	٠,	"	11	"	"	11
10256	"	"	_	9.0°S	4.0°W	,,	"	,,	**	,,	"	Ptolemaeus and Davy G and Y
10257		"	-	"	4.5°W	11	"	"	11	"	,,	ti .
10258	"	11	_	"	6.0°W	"	11	11	11	11	**	Ptolemaeus, Davy
10259	 ,,	,,	-	"	6.5°W	,,	,,	,,	**	11	11	11
10260	,,	,,	_	11	7.0°W	.,	"	"	"	**	76	11
	 	,,	-	8.0°S	8.0°W	55°	,,	"	"	,,	"	Davy, Fra Mauro, Bonpland, Parry, Guericke
10261	<u> </u>	<u> </u>	-	"	10.0°W	"	11	,,	"	11	"	Fra Mauro, Bonpland, Parry, Guericke
10262	"		-	7.5°S	11.0°W	60°	,,	,,	11	11	**	11
10263	1	<u> </u>	_	7.33	12.0°W	"	,,	"	**	"	11	n
10264	-"	 "	-		15.0°W	-,,	"	-,,		-,,	"	Fra Mauro, Bonpland, Parry
10265	"	<u> </u>	_	7.0°S	13.0 %		1,	,,	-,,	.,	11	"
10266	"	"	-	7.0 5	16.0°W	-	-,,	,,	"	"	"	11

Magazine R AS14 - 75 Film 3414, BW

Sheet 4 of 7 Sheets

Time Reference

GET GMT

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

Magazine <u>R</u> AS14 - <u>75</u> Film <u>3414, BW</u>

Time Reference GET

GMT

	rame Rev. Camera	Comero	Approx.		ncipal pint	App Tilt	rox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Angle	Quality	Area	
10283	16	80mm	-	10.0°S	108.0°E	50°	90°	80%	ZERO PHASE	Fair	82	Pasteur, Meitner
10284	"	"	-	"	105.0°E	11	11	**	**	F1	11	tt tt
10285	11	11	-	,,	11	55°	"	"	"	"	11	11 11
10286	"	11	-	"	11	"	"	"	11	"	**	Pasteur
10287	"	11	-	11	104.0°E	"	11	"	11	11	11	11
10288	"	11	-		103.0°E	"	"	"	11	"	"	11
10289	,,	"	-	"	102.0°E	"	11	11	"	"	"	11
10290		"	-	"	100.0°E	"	11	11	"	"	11	11
10291	"	11	-	"	99.5°E	50°	"	"	"	"	"	"
10292	"	"	_	11	98.5°E	"	"	11	"	11	11	11
10293	,,	"	_	11	11	55°	"	11	11	11	"	tt.
10293	 	"	_	11	97.5°E	50°	,,	"	"	**	"	Pasteur, Blacklund
	+-	 	_	11	96.0°E	55°	11	.,	11	11	11	11 11
10295	 	.,	-	11	95.0°E	,,	".		"	11	11	11 11
10297	 	-,,	-		94.0°E	"	"	"	. "	"	11	11 11

Sheet 5 of 7 Sheets

Magazine <u>R</u> AS14 - <u>75</u> Film <u>3414</u>, BW

Sheet 6 of 7 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.	Principal Point		Approx. Tilt Data		Fwd	Approx.	Photo	Photo	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0/L	Sun Angle	Quality	Index Area	Description
10298	TEI	80mm	-	-	_			_	_	Poor		TEI: Crater 282
10299	,,	11	-	-	-		_	_	_	,,,	-	"
10300	,,	**	-	-	-	_	_	_	Low	Fair		TEI: Craters Belvak, Langemak 287, and Danjon
10301	,,	**	-	_	_	_	-	_	**	,,	-	"
10302	"	11	-	-	-	-	-		FT	**	-	Mare Smythii, Craters Pasteur and Hilbert
10303	,,		-	-	-	-	-	-	**	,,	-	"
10304	,,	11	-	-	-	-	-	-	"	11	_	Mares Crisium, Mareinus, and Smythii
10305	,,	11	-	_	_	-	-	-	11	11	-	Craters Goddard, Al-Biruni, and Hert z
10306	"	11	-	-	-	-	-	-	11	11	-	Craters Joliot, Maxwell, and Lomonosov
10307	,,	"	-	1	-	-	_	-	Ħ	,,	_	Mare Smythii, Craters Pasteur and Joliot
10308	,,	,,,	-	-	-	-	-	-	11	11	-	Mare Smythii, Craters Pasteur and Belvar
10309	,,	"	-	-	-	-	-	-	11	11	-	Mare Crisium, Mare Smythii, Crater Goddard
10310	,,	11	-	_	-	-	_	-	11	11	_	Craters Sabry, Riemann, and Hertz
10311		"	_	-	-	-	-	-	"	,,	-	Craters Moiseev and Seyfert
10312	,,	"	-	-	-	-	-	-	11	"	-	Mare Smythii, Craters Joliot and Seyfert

Magazine <u>R</u> AS14-<u>75</u> Film <u>3414, BW</u>

Sheet 7 of 7 Sheets

Time Reference GET

Frame	Rev.	Camera	Approx.		ncipal pint	App Tilt	orox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Angle	Quality	Areo	
10313	TEI	80mm	-	-	•	_	-	-	Medium	Good	-	Mare Smythii, Craters Pasteur, Hilbert and Alden
10313	1111	11	<u>-</u>	-	-	-	-	-		11	-	Mare Crisium, Mare Smythii, Craters Joliot and Seyfert
10315	,,	11	-	-	1	1	-	-	"	11	-	Craters Joliot, Seyfert and King
10316	,,	,,		-	-		-	-	"	. "	-	"
10317	-,,	11	•	-	-	-	-	-	"	11	_	11
10318	,,	, ,,	-	-	-	-	_	-	"	"	-	11
10319	,,	,,	-	-	-	-	-	-	,,	"	_	н
10320	"	11	-	-	-	-	-	-	"	"	-	11
				END OF	MAGAZINE	<u> </u>						
	†	†										

MAGAZINE O

(Frames AS14-76-10321 through 10356)

Magazine O 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 AS14- 76 Film SO-368, Color

Sheet 1 of 3 Sheets

Time Reference GET GMT

Frame	Rev.	Camera	Approx.		ncipal pint	Ap; Tilt	Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O, L	Angle	Quality	Areo	
10321	-	8 Omm	-	-	-	_	-	-	-	Poor	_	Docking Probe and CSM Instrument Panel
10322	-	11	-	-	-	-	-	-	-	11	_	Poor Focus, Limited Depth-of- Field
10323	-	11	-	-	-	-	-	-	-	,,	-	"
10324	-	11	-	. <u>.</u>	-	-	-	-	-	"	-	"
10325	-	"	-	-	-	-	-	-	-	11	-	"
10326	-	11	-	-	-	-	-	-	-	"	-	11
10327	-	11	-		-	-	-	-	-	,,	-	11
10328	-	11	-	-	-	-		-	-	**	-	11
10329	-	11	-	-	-	-	-	-	-	11	-	11
10330	_	11	-	-	-	-	-	-	-	"	-	11
10331	_	11	-	-	-	_	-	-	-	,,	-	11
10332	-	11	-	-	-	-	-	-	-	Black	-	-
10333	-	11	-	-	-		-		-	Poor	-	CSM Instrument Panel
10334	-	11		•	-	_	-	_	-	"	-	11
10335	-	11	- ,	-	-	-	<u> </u>	-	-	"	-	. "

Magazine 0 AS14 - 76 Film S0-368, Color

Sheet 2 of 3 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		icipal pint	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	Area	Description
10336	-	80mm	-	-	-	-	-	-	-	Poor	-	CSM Instrument Panel
10337	-	11	-	-	-	-	-	-	-	"	-	n
10338	_	71	-		-	-	-	-	. <u>-</u>	11	-	11
10339	-	"	-	-	-	-	-	_	-	,,	-	11
10340	-	11	-	-	-	-	-	-	-	"	-	17
10341	-	11	-	-	-		-	_	-	11	-	11
10342	-	,,	-	+	-	-	-	-	-	11	-	11
10343	-	, ,,,	-	-	-	-	-	-	-	11	-	"
10344	_	11	-		-	-	-	-	-	11	-	11
10345	-	11	-	-	-	_	-	-	-	11	-	11
10346	_	"	-	-	-	-	-	··	<u>-</u>	"	-	11
10347	_	11	-	-	-		-	-	-	,,	-	High Altitude Earth View
10348	-	"	-	1	-	-	-	-	-	"	-	11
10349	_	11	_	•	-	-	-	-	<u>-</u>	11	-	11
10350	-	"	-	-	-	-	-	-	-	Fair	-	11

Magazine 0 AS14 - 76 Film SO_368, Color

Sheet 3 of 3 Sheets

Time Reference

GET GMT

Frame	Rev.	Camera	Approx.	Prii Pr	ncipal pint	App Tilt	Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Angle	Quality	Area	
10351	-	80mm	-	-	-	-	<u>-</u>	-	-	Fair	-	High Altitude Earth View
10352	-	н	-	-	-	-	-	-	-	11	-	"
10353	,	**	-	-	-	ı	-	-	-	"	-	11
10354	-	11	-		-	<u>-</u>	-	1	-	**	-	"
10355	-	**	_	-	-	-	-	-	-	**	-	11
10356	-	11	-	-	-	-	-	-	-	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 A\$14 - 78 Film S0-2485, BW

Sheet 1 of 2 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.	Prir Po	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	, , , , , , , , , , , , , , , , , , ,
10375	-	80mm	-	-		<u>-</u>	_	-	12°	Poor	76	View of Lunar Surface Over-Exposed
10376	-	**	-	-	-	-	-	-	11	"	11	11
10377	-	11	-	-	-	-	-	-	11	"	11	11
10378	_	**	-	-	-	-	-	-	**	**	. 11	"
10379	-	,,	<u>-</u>	-	-	-	_	-	-	,,	•	No Visible Image
10380	-	11	-	-	-	-	-	-	-	**	-	11
10381	-	11	-	-	_	-	-	-	-	11		"
10382	-	11	-	-		_	-	_	_	,,	-	11
10383	-	"	-	-	-	-	-	_	-	"	-	
10384	-	"	-	-	-	-	-	-	_	11	-	"
10385	-	11	-	-	-	-	-	-	-	11	-	"
10386	-	"	-	-	-	-	-	-	-	"	-	"
10387	-	11	-	-	-	-	-	_	-	"	-	11
10388	-	,,	-	-	-	-	-	-	-	11	-	
10389	-	"	-	-	-	-	-		-	11	-	11

Magazine S A514 - 78 Film S0-2485, BW

Sheet 2 of 2 Sheets

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.	Pri P	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	
10390	-	8 Omm	-	-	-	-	-	-	-	Poor		No Visible Image
10391	-	11	-	-	-	-	-	-	-	"	-	11
10392	_	11	-	-	-	-	-	-	-	"	-	11
10393_	-	11	-	-	-	-	-	-	-	11	-	11
10394		11		-	-	-	-	-	-	"	-	11
10395	-\	11	~	-	-	-	-	-	-	11	-	11
10396	-	11	-	-	-	- -	-	-	_	11	-	11
10397	-	` "	-	_	-	_	-	-	-	,,	-	11
10398	-	"	-	_	-	-	-	-	-	11	-	11
10399	_	11	-	_	-	-	-	-	-	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> A514-<u>80 LTC</u> Film <u>3400</u>, BW

Time Reference

GET

GMT

Frame	Rev.	Camera	Approx.		cipal pint		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0.1L	Angle	Quality	Area	2330, 19, 13
						Ver-						1st Frame of Low Orbit Boot
10436	4	18"	1:41,280	11.3°S	28.1°E	tical	0	60%	45°	Good	78	Strap, (Vertical strip of
												Descartes NE Rim of Theophilus Approx. Recognition Limits 2.1m
10440	".	"	"	11.3°S	27.8°E	**	"	,,	11	11	11	11
10445		11	"	11.2°S	27.5°E	11	,,	"	11	11	**	"
10450	"	"	1:48,000	11	27.3°E	,,	,,	"	11	11	**	NE Floor of Theophilus Approx. Recognition Limits 2.5m
10455	,,	11	11	11.1°S	27.0°E	"	"	,,	44°	11	11	11
	<u> </u>											11
10460	"	''	"	"	26.8°E	"	"	"	- ''	11	- 11	N Central Floor of Theophilus
10465	,,	,,	,,	11.0°S	26.5°E	"	,,	,,	.,	"	**	Approx. Recognition Limits 2.5m
10470	.,	,,	11	11	26.2°E	,,	,,	"	"	"	11	11
20170												Northwest Floor of Theophilus
10475	"	"	"	10.9°S	26.0°E	"	"	"	43°	"	11	
10480	,,	"] "		25.7°E	,,	,,	,,	,,	"	**	"
10480	-				23.7 L	<u> </u>	1	ļ —				"
10485	"	"	11	10.8°S	25.5°E	"	"	"	"	11	11	C. The embiling
10490	١,,	,,	"	10.7°S	25.2°E	"	_,,	,,	"		"	Northwest Floor of Theophilus Rim of Theophilus B
10495	,,	,,	1:41,470	"	24.9°E	"	"	"	42°	"	,,	Northwest Rim of Theophilus Approx. Recogn. Limits 2.1m
10493		"	"	10.6°S	24.7°E	-,,	"	"	11	"	"	11

Sheet 1 of 3 Sheets

Magazine W A\$14 - LTC Film 3400, BW

Sheet 2 of 3. Sheets

Time Reference

GET

GMT

Frame	Rev.	Comera	Approx.		incipal 'oint		prox, Data	Fwd	Approx.	Photo	Photo	
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	O/L	Sun Angle	Quality	Index 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	"-	,,	11	er .	24.2°E	"	"	,,	11	11	11	North of Cyrillus M Approx. Recog. Limits 2.1 m
10515	<u>,,</u>	!!	. 11	10.5°S	23.9°E	"	"	"	41°	*1	11	Northwest of Cyrillus M Approx. Recog. Limits 2.1 m
10520	,,	,,	11	,,	23.6°E	"	"_	"	11	**	11	No Named Features, Ridge with Crater
10525		"	.,	10.4°S	23.4°E	"	"	"	"	.,	11	No Named Features
10530	,,	"	11	"	23.1°S	"	"	"	40°	,,	**	11
10535	,,	"	FF	10.3°S	22.9°E	,,	11	"	11	"	**	No Named Features 2-km Crater
10540	"	"	11	"	22.7°E	,,	''	.,	11	,,	11	No Named Features
10545			"	10.2°S	22.4°E	''	.,	11	**	"	11	11
10550	,,	,,	11	"	22,2°E	",	11	11	11	11	***	11
10555	11	"	1:37,000	10.1°S	21.9°E	11	"	"		553-105 Blurred	55	No Named Features Approx. Recog. Limits 1.9 m
10560	11	11	"	F1	21.7°E	"	"	-,,	**	11		"
10565	11	11	"	10.0°S	21.4°E	"	,,	,,	11	11	11	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

GET

Sheet 3 of 3 Sheets

Time Reference

GMT

Frame	Rev.	Camera	Approx.	Prin Po	cipal int		prox. Data	Fwd	Approx. Sun	Photo	Photo Index	Description
No.	No.	f Length	Photo Scale	Lat.	Long.	Angle	Azimuth	0. L	Angle	Quality	Area	
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	,,,	11	11	"	20.2°E	"	,,	11	11	"	11	No Named Features
10595	,,	,,	**	9.7°S	19.9°E	11	"-	"	37°_	"	11	Northeast of Kant N
10600	Ţ.,,	11	11	11	19.7°E	11	,,	"	11	,,	- 11	North Rim of Kant N
10605	"	11	11	9.6°S	19.5°E	,,	*1	,,	""	11	**	Lower Limits of Kant G in Area of DE-2
10610	"	"	**	11	19.2°E	<u>"-</u>	,,	11	,,	11	"	11
10615	,,	,,	11	11	18.9°E	"	,,,	,,	36°	11	"	Between Kant G and Kant B
10620		"	71	9.5°S	18.7°E	"	"	,,	11	,,	11	Northeast Rim of Kant B
10625	,,	11	11	0	18.5°E	"	".	,,	11	"1	11	Northwest Rim of Kant B
10630	1 .,	11	"	,,,	18,2°E	11	11	,,	11	11	11	West of Kant B
10635		11	11	9.4°S	17.9°E	11	11	,,	35°	"	"	"
10640	,,	11	11	11	17.7°	,,	,,	11	11	11	11	"
10642	,,	 	11	9.3°S	17.5°E	"1	11	11	.,_	11	"	Last Frame Plottable on 18" Stereo Strip
10042			REMAINDER			TABLE						

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 4°S, 16°W	LDMK Track (14-K) LDMK Track (14-1)	Fair Quality Circularize Good Quality
691-840 (Rev. 13) 841-1018	4°S, 132°E	LDMK Track (RP-3)	Good Quality
(Rev. 15) 1019-1162 (Rev. 15)	11°S, 99°E	LDMK Track (RP-5)	Good Quality
(Rev. 15) 1163-1422 (Rev. 15)	12°S, 33°E	LDMK Track (Daguerre)	Good Quality
1423-1615	4°S, 16°W	LDMK Track (14-1)	Good Quality Good Quality
1616-1779 (Rev. 18) 1780-1968	0.5°S, 141°E 5.5°S, 112°E	LDMK Track (RP-2) 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 (Rev. 18)	3°S, 16°W	Fra Mauro H, Fra Mauro-l	Good Quality CSM Plane Change
(Rev. 18) 2220-2359 (Rev. 29) 2375-2535	6°S, 120°E	LDMK Track (RP-4)	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
	:		

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 v (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
	ı		

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.

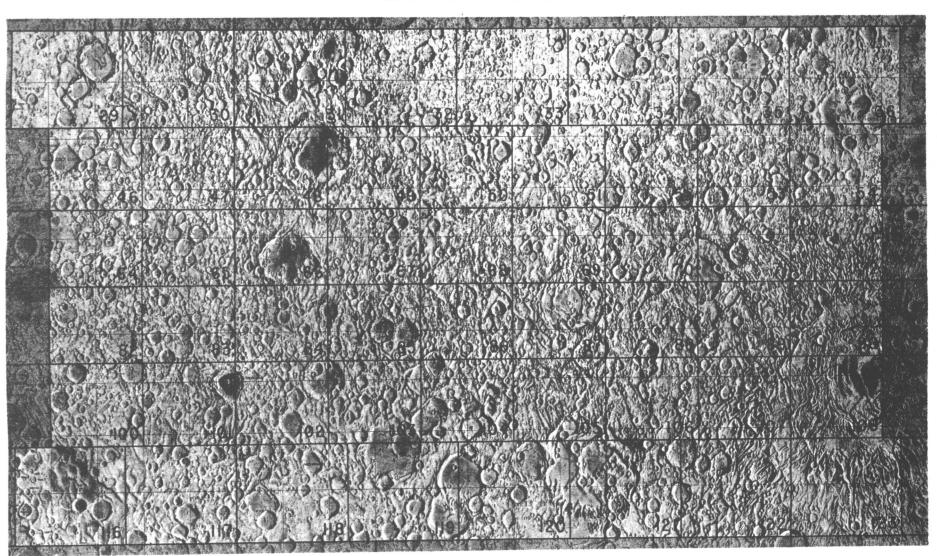


PHOTO INDEX AREA LOCATION DIAGRAM

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

LUNAR EARTHSIDE CHART

