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PART II

# APOLLO 14 PHOTOGRAPHY

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

AUGUST 1971

NATIONAL SPACE SCIENCE DATA CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION • GODDARD SPACE FLIGHT CENTER, GREENBELT, MD.

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Part II

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

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CONTENTS


| | Page |
|---|---|
| INTRODUCTION | v |
| APOLLO 14 QUICK LOOK (70-mm and 5-in.) | |
| Magazine LL (Frames AS14-64-9046 through 9201) | 1 |
| Magazine KK (Frames AS14-65-9202 through 9215) | 13 |
| Magazine II (Frames AS14-66-9216 through 9360) | 15 |
| Magazine JJ (Frames AS14-67-9361 through 9393) | 27 |
| Magazine MM (Frames AS14-68-9394 through 9492) | 31 |
| Magazine P (Frames AS14-69-9493 through 9656) | 39 |
| Magazine Q (Frames AS14-70-9657 through 9840) | 51 |
| Magazine T (Frames AS14-71-9841 through 9917) | 65 |
| Magazine L (Frames AS14-72-9918 through 10039) | 73 |
| Magazine M (Frames AS14-73-10040 through 10204) | 83 |
| Magazine N (Frames AS14-74-10205 through 10222) | 95 |
| Magazine R (Frames AS14-75-10223 through 10320) | 99 |
| Magazine O (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.

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9061 | Sur-face | 60mm | - | - | - | - | E | - | 24° | Good | - | 360° Pan from EVA 2 |
| 9062 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9063 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9064 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9065 | " | " | - | - | - | - | SE | - | " | " | - | Pan of Small Boulders |
| 9066 | " | " | - | - | - | - | S | - | " | " | - | " |
| 9067 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9068 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9069 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9070 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9071 | " | " | - | - | - | - | SW | - | " | " | - | " |
| 9072 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9073 | " | " | - | - | - | - | NW | - | " | " | - | Photo of Gnomon |
| 9074 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9075 | " | " | - | - | - | - | W | - | " | " | - | 360° Pan from EVA 2 |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9076 | Surface | 60mm | - | - | - | - | W | - | 24° | Good | - | 360° Pan from EVA 2 |
| 9077 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9078 | " | " | - | - | - | - | N | - | " | " | - | " |
| 9079 | " | " | - | - | - | - | " | - | " | " | - | 360° Pan from EVA 2 Small Crater |
| 9080 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9081 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9082 | " | " | - | - | - | - | NE | - | " | " | - | 360° Pan from EVA 2 |
| 9083 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9084 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9085 | " | " | - | - | - | - | E | - | " | " | - | " |
| 9086 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9087 | " | " | - | - | - | - | " | - | " | " | - | |
| 9088 | " | " | - | - | - | - | SE | - | " | " | - | 360° Pan from EVA 2 Astronaut Mitchell |
| 9089 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9090 | " | " | - | - | - | - | " | - | " | " | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL A514 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9091 | Sur-face | 60mm | - | - | - | - | S | - | 24° | Good | - | Taken from Flank of Cone 360° Pan from EVA 2 |
| 9092 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9093 | " | " | - | - | - | - | " | - | " | " | - | 360° Pan from EVA 2 Modular Equipment Transporter |
| 9094 | " | " | - | - | - | - | SW | - | " | " | - | (M.E.T.) " |
| 9095 | " | " | - | - | - | - | " | - | " | " | - | LM in Distance, 360° Pan from EVA 2, M.E.T. |
| 9096 | " | " | - | - | - | - | W | - | " | " | - | LM in Distance 360° Pan from EVA 2 |
| 9097 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9098 | " | " | - | - | - | - | " | - | " | " | - | 360° Pan from EVA 2 |
| 9099 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9100 | " | " | - | - | - | - | N | - | " | " | - | " |
| 9101 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9102 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9103 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9104 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9105 | " | " | - | - | - | - | " | - | " | " | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9106 | Surface | 60mm | - | - | - | - | NE | - | 24° | Good | - | 360° Pan from EVA 2 |
| 9107 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9108 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9109 | " | " | - | - | - | - | E | - | " | " | - | " |
| 9110 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9111 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9112 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9113 | " | " | - | - | - | - | SE | - | " | " | - | " |
| 9114 | " | " | - | - | - | - | " | - | " | " | - | Old Nameless in Background 360° Pan from EVA 2 |
| 9115 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9116 | " | " | - | - | - | - | S | - | " | " | - | " |
| 9117 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9118 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9119 | " | " | - | - | - | - | SW | - | " | " | - | M.E.T. 360° Pan from EVA 2 |
| 9120 | " | " | - | - | - | - | W | - | " | " | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9121 | Surface | 60mm | - | - | - | - | W | - | 24° | Good | - | M.E.T., 360° Pan from EVA 2 |
| 9122 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9123 | " | " | - | - | - | - | S | - | " | " | - | Pan of Gnomon EVA 2 |
| 9124 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9125 | " | " | - | - | - | - | N | - | " | " | - | " |
| 9126 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9127 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9128 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9129 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9130 | " | " | - | - | - | - | S | - | " | " | - | Old Nameless in Background Pan of Large Rock EVA 2 |
| 9131 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9132 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9133 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9134 | " | " | - | - | - | - | N | - | " | " | - | Large Rock |
| 9135 | " | " | - | - | - | - | " | - | " | " | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9136 | Sur-face | 60mm | - | - | - | - | NW | - | 24° | - | - | Large Rock |
| 9137 | " | " | - | - | - | - | " | - | " | - | - | Mitchell and M.E.T. |
| 9138 | " | " | - | - | - | - | " | - | " | - | - | Mitchell and M.E.T. LM in Background |
| 9139 | " | " | - | - | - | - | W | - | " | - | - | " |
| 9140 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9141 | " | " | - | - | - | - | NW | - | " | - | - | 360° Pan from EVA 2 |
| 9142 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9143 | " | " | - | - | - | - | N | - | " | - | - | " |
| 9144 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9145 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9146 | " | " | - | - | - | - | NE | - | " | - | - | " |
| 9147 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9148 | " | " | - | - | - | - | E | - | " | - | - | " |
| 9149 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9150 | " | " | - | - | - | - | SE | - | " | - | - | " |

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9151 | Sur-face | 60mm | - | - | - | - | SE | - | 24° | Good | - | Old Nameless in Background 360° Pan from EVA 2 |
| 9152 | " | " | - | - | - | - | S | - | " | " | - | " |
| 9153 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9154 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9155 | " | " | - | - | - | - | SW | - | " | " | - | " |
| 9156 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9157 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9158 | " | " | - | - | - | - | S | - | " | " | - | Pan of Footprint Trench |
| 9159 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9160 | " | " | - | - | - | - | SW | - | " | " | - | " |
| 9161 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9162 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9163 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9164 | " | " | - | - | - | - | NE | - | " | " | - | " |
| 9165 | " | " | - | - | - | - | " | - | " | " | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL A514 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9166 | Sur-face | 60mm | - | - | - | - | W | - | 24° | - | - | Pan of Footprint Trench |
| 9167 | " | " | - | - | - | - | " | - | " | - | - | LM in Background 360° Pan from EVA 2 |
| 9168 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9169 | " | " | - | - | - | - | NW | - | " | - | - | " |
| 9170 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9171 | " | " | - | - | - | - | N | - | " | - | - | " |
| 9172 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9173 | " | " | - | - | - | - | NE | - | " | - | - | Mitchell and M.E.T. 360° Pan from EVA 2 |
| 9174 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9175 | " | " | - | - | - | - | E | - | " | - | - | Tracks of M.E.T. 360° Pan from EVA 2 |
| 9176 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9177 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9178 | " | " | - | - | - | - | SE | - | " | - | - | " |
| 9179 | " | " | - | - | - | - | " | - | " | - | - | " |
| 9180 | " | " | - | - | - | - | S | - | " | - | - | " |

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9181 | Surface | 60mm | - | - | - | - | S | - | 24° | Good | - | 360° Pan from EVA 2 |
| 9182 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9183 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9184 | " | " | - | - | - | - | SW | - | " | " | - | " |
| 9185 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9186 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9187 | " | " | - | - | - | - | W | - | " | " | - | LM in Background 360° Pan from EVA 2 |
| 9188 | " | " | - | - | - | - | - | - | " | " | - | Photo of Gnomon and LM |
| 9189 | " | " | - | - | - | - | - | - | Low | Dark | - | Earth Crescent and LM Taken from Surface |
| 9190 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9191 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9192 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9193 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9194 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9195 | " | " | - | - | - | - | - | - | " | " | - | " |

APOLLO 14 FRAME PHOTOGRAPHY

Magazine LL AS14 - 64 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9196 | Surface | 60mm | - | - | - | - | - | - | Low | Dark | - | Earth Crescent and LM Taken from Surface |
| 9197 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9198 | " | " | - | - | - | - | SW | - | 24° | Good | - | Solar Wind Panel |
| 9199 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9200 | " | " | - | - | - | - | " | - | " | " | - | " |
| 9201 | " | " | - | - | - | - | " | - | " | " | - | " |
| | | | END OF MAGAZINE | | | | | | | | | |

## 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.

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine KK AS14 - 65 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9202 | Sur-face | 60mm | Surface Oblique | NA | NA | | | NA | 12° | Good | 76 | View From LM Window to NW |
| 9203 | " | " | " | " | " | | | " | " | " | " | " |
| 9204 | " | " | " | " | " | | | " | " | " | " | " |
| 9205 | " | " | " | " | " | | | " | " | " | " | " |
| 9206 | " | " | " | " | " | | | " | " | " | " | View From LM Window to WNW |
| 9207 | " | " | " | " | " | | | " | " | " | " | " |
| 9208 | " | " | " | " | " | | | " | " | " | " | View From LM Window to NW |
| 9209 | " | " | " | " | " | | | " | " | " | " | View From LM Window to SW |
| 9210 | " | " | " | " | " | | | " | " | " | " | " |
| 9211 | " | " | " | " | " | | | " | " | " | " | View From LM Window to WSW |
| 9212 | " | " | " | " | " | | | " | " | " | " | View From LM Window to W |
| 9213 | " | " | " | " | " | | | " | " | " | " | " |
| 9214 | " | " | " | " | " | | | " | " | " | " | " |
| 9215 | " | " | " | " | " | | | " | " | " | " | " |
| | | | END OF MAGAZINE | | | | | | | | | |

## 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14 - 66 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9216 | 12 | 60mm | - | - | - | - | - | - | High | Good | - | View from LM Window During Lunar Orbit Showing the CSM |
| 9217 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9218 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9219 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9220 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9221 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9222 | " | " | - | - | - | - | - | - | " | " | - | " |
| 9223 | " | " | - | - | - | - | - | - | " | " | - | " |
| 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 | - | " | " | " | " | " | " |
| 9227 | " | " | - | HORIZON | | - | 255° | " | " | " | " | " |
| 9228 | " | " | - | " | " | - | | " | " | " | " | " |
| 9229 | - | " | - | - | - | - | - | - | 12° | " | - | Cdr. Shepard on Lunar Surface from LM Looking NW |
| 9230 | - | " | - | - | - | - | - | - | " | " | - | " |

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14- 66 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9231 | NA | 60mm | NA | - | - | - | - | - | 12° | Good | 76 | Cdr. Shepard on Lunar Surface from LM Looking NW |
| 9232 | " | " | " | - | - | - | - | - | " | - | - | Cdr. Shepard on Lunar Surface with Flag Looking West |
| 9233 | " | " | " | - | - | - | - | - | " | - | - | " |
| 9234 | " | " | " | - | - | - | - | - | " | - | - | LM Footpad |
| 9235 | " | " | " | - | - | - | - | - | " | - | - | " |
| 9236 | " | " | " | - | - | - | - | - | - | - | - | Lunar Surface to Horizon with High Gain Erectable Antenna |
| 9237 | " | " | " | - | - | - | - | - | - | - | - | Looking West " |
| 9238 | " | " | " | - | - | - | - | - | - | - | - | Lunar Surface to Horizon with Solar Wind Panel Looking NW |
| 9239 | " | " | " | - | - | - | - | - | - | - | - | " |
| 9240 | " | " | " | - | - | - | - | - | - | - | - | Lunar Surface to Horizon with Solar Wind Panel Looking North |
| 9241 | " | " | " | - | - | - | - | - | - | - | - | Astronaut Mitchell with TV Camera Looking North |
| 9242 | " | " | " | - | - | - | - | - | - | - | - | " |
| 9243 | " | " | " | - | - | - | - | - | - | - | - | " |
| 9244 | " | " | " | - | - | - | - | - | - | - | - | Lunar Surface to Horizon Looking Northeast |
| 9245 | " | " | " | - | - | - | - | - | - | - | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14-66 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9246 | - | 60mm | - | - | - | - | - | - | 12° | Good | 76 | Lunar Surface to Horizon Looking East |
| 9247 | - | " | - | - | - | - | - | - | " | " | " | " |
| 9248 | - | " | - | - | - | - | - | - | " | " | " | " |
| 9249 | - | " | - | - | - | - | - | - | " | " | " | Lunar Surface to Horizon Looking East Southeast |
| 9250 | - | " | - | - | - | - | - | - | " | " | " | Lunar Surface to Horizon Looking Southeast |
| 9251 | - | " | - | - | - | - | - | - | " | " | " | " |
| 9252 | - | " | - | - | - | - | - | - | " | " | " | Lunar Surface to Horizon (with LM Footpad) Looking South |
| 9253 | - | " | - | - | - | - | - | - | " | " | " | Lunar Surface to Horizon with Partial LM Looking South |
| 9254 | - | " | - | - | - | - | - | - | " | " | " | View of LM Looking Southwest |
| 9255 | - | " | - | - | - | - | - | - | " | " | " | " |
| 9256 | - | " | - | - | - | - | - | - | " | " | " | " |
| 9257 | - | " | - | - | - | - | - | - | " | " | " | Erectable Antenna Looking West |
| 9258 | - | " | - | - | - | - | - | - | " | " | " | View of LM Looking Southwest |
| 9259 | - | " | - | - | - | - | - | - | " | " | " | " |
| 9260 | - | " | - | - | - | - | - | - | " | " | " | View of LM Looking South |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14 - 66 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9261 | NA | 60mm | NA | - | - | - | - | NA | 12° | Good | 76 | LM Descent Nozzle |
| 9262 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9263 | " | " | " | - | - | - | - | " | " | " | " | LM Engine Blast Effect on Surface |
| 9264 | " | " | " | - | - | - | - | " | " | " | " | LM Footpad |
| 9265 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9266 | " | " | " | - | - | - | - | " | " | " | " | LM Engine Blast Effect on Surface |
| 9267 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9268 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9269 | " | " | " | - | - | - | - | " | " | " | " | LM Footpad |
| 9270 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9271 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking West |
| 9272 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking Northwest |
| 9273 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9274 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9275 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking North |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II A514 - 66 Film S0-168, Color



Time Reference GET GMT

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

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14 - 66 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9291 | NA | 60mm | NA | - | - | - | - | NA | 12° | Good | 76 | Lunar Surface to Horizon Looking Southwest |
| 9292 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9293 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking West |
| 9294 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9295 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking Northwest |
| 9296 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking North |
| 9297 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9298 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9299 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking Northeast |
| 9300 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Looking North |
| 9301 | " | " | " | - | - | - | - | " | " | " | " | Astronaut Mitchell with TV Camera Looking Northeast |
| 9302 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9303 | " | " | " | - | - | - | - | " | " | " | " | View From West of LM Looking East |
| 9304 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9305 | " | " | " | - | - | - | - | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14 - 66 Film SO-168, Color



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14 - 66 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9321 | NA | 60mm | NA | - | - | - | - | NA | 12° | Good | 76 | Lunar Surface to Horizon Looking West |
| 9322 | " | " | " | - | - | - | - | " | " | " | " | Solar Wind Panel from LM Window Looking Southwest |
| 9323 | " | " | " | - | - | - | - | " | " | " | " | TV Camera from LM Window Looking North |
| 9324 | " | " | " | - | - | - | - | " | " | " | " | View of Flag from LM Window |
| 9325 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9326 | " | " | " | - | - | - | - | " | " | " | " | Erectable Antenna from LM Window |
| 9327 | " | " | " | - | - | - | - | " | " | " | " | View of Earth from LM Window |
| 9328 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9329 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9330 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9331 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9332 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9333 | " | " | " | - | - | - | - | " | " | " | " | View of ALSEP Station from LM Window |
| 9334 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9335 | " | " | " | - | - | - | - | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II AS14 - 66 Film S0-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9336 | NA | 60mm | NA | - | - | - | - | NA | 12° | Good | 76 | View of ALSEP Station from LM Window |
| 9337 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9338 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9339 | " | " | " | - | - | - | - | " | " | " | " | View of Flag, Surface to Horizon Looking NW from LM Window |
| 9340 | " | " | " | - | - | - | - | " | " | " | " | View of M.E.T. on Surface from LM Window |
| 9341 | " | " | " | - | - | - | - | " | " | " | " | TV Camera as Seen from LM Window Looking North |
| 9342 | " | " | " | - | - | - | - | " | " | " | " | Lunar Surface to Horizon Showing M.E.T. Tracks |
| 9343 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9344 | " | " | " | NA | NA | NA | NA | " | " | " | NA | Rendezvous View of CSM from LM |
| 9345 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9346 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9347 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9348 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9349 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9350 | " | " | " | - | - | - | - | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine II A514 - 66 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9351 | NA | 60mm | NA | NA | NA | NA | NA | NA | - | Good | NA | View of CSM During Docking Approach |
| 9352 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9353 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9354 | " | " | " | " | " | " | " | " | " | Fair | " | " |
| 9355 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9356 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9357 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9358 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9359 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9360 | " | " | " | " | " | " | " | " | " | " | " | " |
| | | | | 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine JJ AS14 - 67 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9361 | NA | 60mm | NA | - | - | - | - | NA | 12° | Good | 76 | ALSEP Station and M.E.T. |
| 9362 | " | " | " | - | - | - | - | " | " | " | " | Passive Seismic Experiment |
| 9363 | " | " | " | - | - | - | - | " | " | " | " | ALSEP and P.S.E. |
| 9364 | " | " | " | - | - | - | - | " | " | " | " | C.P.L.E.E. Package |
| 9365 | " | " | " | - | - | - | - | " | " | " | " | C.P.L.E.E., ALSEP, M.E.T. |
| 9366 | " | " | " | - | - | - | - | " | " | " | " | ALSEP Package |
| 9367 | " | " | " | - | - | - | - | " | " | " | " | M.E.T. Tracks and LM Looking East |
| 9368 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9369 | " | " | " | - | - | - | - | " | " | " | " | C.P.L.E.E. Package |
| 9370 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9371 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9372 | " | " | " | - | - | - | - | " | " | " | " | C.P.L.E.E. and ALSEP Packages |
| 9373 | " | " | " | - | - | - | - | " | " | " | " | C.P.L.E.E. Package |
| 9374 | " | " | " | - | - | - | - | " | " | " | " | Cdr. Shepard with TV Looking South |
| 9375 | " | " | " | - | - | - | - | " | " | " | " | ALSEP Station, C.P.L.E.E. |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine JJ AS14 - 67 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9376 | NA | 60mm | NA | - | - | - | - | NA | 12° | Good | 76 | ALSEP Station, C.P.L.E.E. |
| 9377 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9378 | " | " | " | - | - | - | - | " | " | " | " | ALSEP Pkg., A.S.E. Pkg. |
| 9379 | " | " | " | - | - | - | - | " | " | " | " | ALSEP Package |
| 9380 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9381 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9382 | " | " | " | - | - | - | - | " | " | Poor | " | ALSEP Pkg, LM Looking East |
| 9383 | " | " | " | - | - | - | - | " | " | Good | " | ALSEP Package |
| 9384 | " | " | " | - | - | - | - | " | " | " | " | ALSEP, P.S.E. Packages |
| 9385 | " | " | " | - | - | - | - | " | " | " | " | Laser Reflector |
| 9386 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9387 | " | " | " | - | - | - | - | " | " | Poor | " | Laser Reflector, LM, Astronaut Looking East |
| 9388 | " | " | " | - | - | - | - | " | " | Good | " | LM Looking East Southeast |
| 9389 | " | " | " | - | - | - | - | " | " | " | " | Astronaut Mitchell, ALSEP Looking West |
| 9390 | " | " | " | " | - | - | - | " | " | " | " | Lunar Surface Close-ups |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine JJ AS14 - 67 Film SO-168, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9391 | NA | 60mm | NA | - | - | - | - | NA | 12° | Good | 76 | Lunar Surface Close-ups |
| 9392 | " | " | " | - | - | - | - | " | " | " | " | " |
| 9393 | " | " | " | - | - | - | - | " | " | " | " | " |
| | | | | | END OF | MAGAZINE | | | | | | |
| | | | | | | | | | | | | |
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## 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine MM AS14 - 68 Film SO-267, BW



Time Reference GET GMT

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

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine MM AS14 - 68 Film SO-267, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine MM AS14 - 68 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9423 | NA | 60mm | NA | - | - | NA | SE | - | 24° | Good | - | Small Craters, M.E.T. Tracks and Small Rocks |
| 9424 | " | " | " | - | - | " | " | - | " | " | - | Small Crater, M.E.T. Tracks, Large Shallow Crater Near Horizon |
| 9425 | " | " | " | - | - | " | S | - | " | " | - | Crater "Old Nameless" on Horizon, Smaller Craters, Large Rocks |
| 9426 | " | " | " | - | - | " | " | - | " | " | - | "Old Nameless" on Horizon, Smaller Craters |
| 9427 | " | " | " | - | - | " | SW | - | " | " | - | " |
| 9428 | " | " | " | - | - | " | " | - | " | " | - | Flat Rock Formation Near Crater |
| 9429 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9430 | " | " | " | - | - | " | W | - | " | " | - | Boulder and Large Rocks Near Crater |
| 9431 | " | " | " | - | - | " | NW | - | " | " | - | Crater Near Ridge, Large Rocks |
| 9432 | " | " | " | - | - | " | " | - | " | " | - | Large Stones, Boulders on Slope Near Mound & Crater. End Pan |
| 9433 | " | " | " | - | - | " | N | - | " | " | - | Large Rocks, Mound with Large Rocks in Top & Sides. Start Pan 3 |
| 9434 | " | " | " | - | - | " | NE | - | " | " | - | Small Craters, Boulders Near Horizon |
| 9435 | " | " | " | - | - | " | " | - | " | " | - | Boulder Near Horizon |
| 9436 | " | " | " | - | - | " | E | - | " | " | - | Large Rocks Looking into Sun |
| 9437 | " | " | " | - | - | " | " | - | " | " | - | Large Rocks |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine MM AS14- 68 Film SO-267, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine MM AS14 - 68 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9453 | NA | 60mm | NA | - | - | NA | W | - | 24° | Good | - | Boulder Formation |
| 9454 | " | " | " | - | - | " | N | - | " | " | - | Core Tube Inserted in Surface Large Shallow Depression |
| 9455 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9456 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9457 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9458 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9459 | " | " | " | - | - | " | W | - | " | " | - | Color Chart & Gnomon. Large Boulders on Horizon to West |
| 9460 | " | " | " | - | - | " | SW | - | " | " | - | Color Chart and Gnomon |
| 9461 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9462 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9463 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9464 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9465 | " | " | " | - | - | " | N | - | " | " | - | " |
| 9466 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9467 | " | " | " | - | - | " | " | - | " | " | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine MM AS14 - 68 Film SO-267, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9468 | NA | 60mm | NA | - | - | NA | N | - | 24° | Good | - | Large Rocks |
| 9469 | " | " | " | - | - | " | NE | - | " | " | - | " |
| 9470 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9471 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9472 | " | " | " | - | - | " | N | - | " | " | - | Large Rock, Start Pan 4 |
| 9473 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9474 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9475 | " | " | " | - | - | " | NW | - | " | " | - | " |
| 9476 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9477 | " | " | " | - | - | " | W | - | " | " | - | ALSEP Area in Distance, Break in Pan |
| 9478 | " | " | " | - | - | " | NW | - | " | " | - | Large Rock, Continuous Pan |
| 9479 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9480 | " | " | " | - | - | " | N | - | " | " | - | Large Crater Near Horizon |
| 9481 | " | " | " | - | - | " | " | - | " | " | - | " |
| 9482 | " | " | " | - | - | " | NE | - | " | " | - | Large Rocks |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine MM AS14 - 68 Film SO-267, BW



Time Reference GET GMT

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

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

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

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9508 | 27 | 500mm | 1:225,000 | 9.0°S | 16.5°E | 20° | 280° | 50% | 58° | Fair | 78 | Oblique View of Descartes Landing Site |
| 9509 | " | " | " | " | 15.5°E | " | " | " | " | " | " | " |
| 9510 | " | " | " | " | " | 15° | " | 90% | " | " | " | " |
| 9511 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9512 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9513 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9514 | " | " | " | " | " | 10° | " | " | " | " | " | " |
| 9515 | " | " | 1:222,000 | " | " | " | " | " | " | Good | " | " |
| 9516 | " | " | " | " | " | 0-10° | " | 100% | " | " | " | Near Vertical of Descartes Landing Site |
| 9517 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9518 | " | " | " | " | " | 0° | 0° | " | " | " | " | Vertical View of Descartes Landing Site |
| 9519 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9520 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9521 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9522 | " | " | " | " | " | " | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9525 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9526 | " | " | " | " | " | 0-10° | 100° | " | " | " | " | Near Vertical of Descartes Landing Site |
| 9527 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9528 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9529 | " | " | " | " | " | 10° | " | 95% | " | " | " | " |
| 9530 | " | " | 1:225,000 | " | " | " | " | " | " | " | " | Oblique View of Descartes Landing Site |
| 9531 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9532 | " | " | " | " | " | 15° | " | " | " | " | " | " |
| 9533 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9534 | " | " | 1:240,000 | " | " | 20° | " | " | " | " | " | " |
| 9535 | " | " | " | " | " | " | " | " | " | " | " | 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 | " | " | " | " | " | " | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9570 | " | " | " | " | " | " | " | 90% | " | " | " | " |
| 9571 | " | " | 1:230,000 | " | " | " | " | " | " | " | " | " |
| 9572 | " | " | " | " | " | 20° | " | " | " | " | " | Oblique View of Descartes Looking East |
| 9573 | " | " | 1:240,000 | " | " | " | " | " | " | " | " | " |
| 9574 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9575 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9576 | " | " | 1:300,000 | 4.0°S | 15.0°W | 40° | 110° | 0% | 27% | " | 76 | Oblique View of Fra Mauro H and HA |
| 9577 | " | " | " | 1.0°S | 14.0°W | 40° | 75° | 0% | " | " | " | Oblique View of Eastern Fra Mauro Highlands |
| 9578 | 30 | " | 1:222,000 | 9.5°S | 19.5°E | 0° | 0° | " | 59° | Poor | 78 | Approximate Area of DE-2 4° E of Descartes Landing Site |
| 9579 | " | " | 1:240,000 | " | 19.0°E | 20° | 280° | 50% | " | Fair | " | Oblique Sequence Just Prior to Descartes |
| 9580 | " | " | " | " | 18.5°E | " | " | " | " | " | " | " |
| 9581 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9582 | " | " | " | " | " | " | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9583 | 30 | 500mm | 1:240,000 | 9.5°S | 18.0°E | 20° | 280° | 50% | 59° | Fair | 78 | Oblique Sequence Just Prior to Descartes |
| 9584 | " | " | 1:230,000 | " | " | " | " | " | " | " | " | " |
| 9585 | " | " | " | " | 17.5°E | " | " | " | " | " | " | Oblique Sequence Just Prior to Descartes Landing Site |
| 9586 | " | " | " | " | 16.5°E | " | " | " | " | " | " | " |
| 9587 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9588 | " | " | 1:225,000 | " | 16.0°E | " | " | " | " | " | " | " |
| 9589 | " | " | " | " | 15.5°E | " | " | 90% | " | Good | " | Oblique View Into Descartes Landing Site |
| 9590 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9591 | " | " | " | " | " | 15° | " | " | " | " | " | " |
| 9592 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9593 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9594 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9595 | " | " | " | 9.0°S | " | 10° | " | " | " | " | " | Near Vertical Sequence of Descartes Landing Site |
| 9596 | " | " | 1:222,000 | " | " | " | " | " | " | " | " | " |
| 9597 | " | " | " | " | " | " | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9600 | " | " | " | " | " | 0° | 0° | 100% | " | " | " | " |
| 9601 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9602 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9603 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9604 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9605 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9606 | " | " | 1:225,000 | " | " | 0-10° | 100° | " | " | " | " | Near Vertical Strip of Descartes Landing Site |
| 9607 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9608 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9609 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9610 | " | " | 1:250,000 | " | " | 10-20° | " | " | " | " | " | Oblique View of Descartes Landing Site Looking East |
| 9611 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9612 | " | " | " | " | " | 20-30° | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9630 | " | " | " | " | " | 20° | " | 50% | " | " | " | Oblique Approach to Lansberg B |
| 9631 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9632 | " | " | " | " | " | " | " | 80% | " | " | " | " |
| 9633 | " | " | 1:230,000 | " | " | 15° | " | " | " | " | " | " |
| 9634 | " | " | " | " | " | " | " | 100% | " | " | " | " |
| 9635 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9636 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9637 | " | " | 1:222,000 | 2.5°S | " | 10° | " | " | " | " | " | Near Vertical Sequence of Lansberg B |
| 9638 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9639 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9640 | " | " | " | " | " | 0-10° | " | " | " | " | " | " |
| 9641 | " | " | " | " | " | " | " | " | " | " | " | Vertical View of Lansberg B |
| 9642 | " | " | " | " | " | " | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9645 | " | " | " | " | " | 0° | 0° | " | " | " | " | " |
| 9646 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9647 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9648 | " | " | " | " | " | 0-10° | 105° | " | " | " | " | Near Vertical View of Lansberg B |
| 9649 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9650 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9651 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9652 | " | " | " | " | " | 10° | " | " | " | " | " | " |
| 9653 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9654 | " | " | " | " | " | 15° | " | " | " | " | " | Low Oblique of Lansberg B |
| 9655 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9656 | " | " | " | " | " | 20° | " | " | " | " | " | " |
| | | | | END OF | MAGAZINE | | | | | | | |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9630 | " | " | " | " | " | 20° | " | 50% | " | " | " | Oblique Approach to Lansberg B |
| 9631 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9632 | " | " | " | " | " | " | " | 80% | " | " | " | " |
| 9633 | " | " | 1:230,000 | " | " | 15° | " | " | " | " | " | " |
| 9634 | " | " | " | " | " | " | " | 100% | " | " | " | " |
| 9635 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9636 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9637 | " | " | 1:222,000 | 2.5°S | " | 10° | " | " | " | " | " | Near Vertical Sequence of Lansberg B |
| 9638 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9639 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9640 | " | " | " | " | " | 0-10° | " | " | " | " | " | " |
| 9641 | " | " | " | " | " | " | " | " | " | " | " | Vertical View of Lansberg B |
| 9642 | " | " | " | " | " | " | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine P AS14 - 69 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9645 | " | " | " | " | " | 0° | 0° | " | " | " | " | " |
| 9646 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9647 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9648 | " | " | " | " | " | 0-10° | 105° | " | " | " | " | Near Vertical View of Lansberg B |
| 9649 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9650 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9651 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9652 | " | " | " | " | " | 10° | " | " | " | " | " | " |
| 9653 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9654 | " | " | " | " | " | 15° | " | " | " | " | " | Low Oblique of Lansberg B |
| 9655 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9656 | " | " | " | " | " | 20° | " | " | " | " | " | " |
| | | | | END OF | MAGAZINE | | | | | | | |

## 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine 0 AS14 - 70 Film 3400, BW



Time Reference GET GMT

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

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14 - 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14- 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14 - 70 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9702 | 26 | 80mm | 1:1,380,000 | 10.0°S | 94.0°E | VERTICAL | | 60 | 46° | Good | 82 | Between Craters Brunner and Gansky |
| 9703 | " | " | " | " | 93.0°E | " | " | " | " | " | " | Between Craters Brunner and Gansky, and Sea of Hirayama |
| 9704 | " | " | " | " | 92.0°E | " | " | " | 48° | " | " | Craters Brunner and Hirayama |
| 9705 | " | " | " | " | 91.0°E | " | " | " | " | " | " | " |
| 9706 | " | " | " | 10.5°S | 90.0°E | " | " | " | 50° | " | " | Crater Brunner South of Mare Smythii |
| 9707 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9708 | " | " | " | " | 89.0°E | " | " | 50 | 52° | " | 81 | West of Brunner South of Mare Smythii |
| 9709 | " | " | " | " | 88.0°E | " | " | " | " | " | " | " |
| 9710 | " | " | " | " | 87.0°E | " | " | 60 | 54° | " | " | " |
| 9711 | " | " | " | 11.0°S | 86.0°E | " | " | " | " | " | " | " |
| 9712 | " | " | " | " | 85.0°E | " | " | " | 56° | " | " | West of Ansgarius and South of Mare Smythii |
| 9713 | " | " | " | " | 84.0°E | " | " | " | " | " | " | " |
| 9714 | " | " | " | " | 83.0°E | " | " | " | 58° | " | " | " |
| 9715 | " | " | " | 10.5°S | 83.5°E | " | " | " | " | " | " | Crater Ansgarius "N" |
| 9716 | " | " | " | " | " | " | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14 - 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine 0 A514 - 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14 - 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14 - 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14- 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14 - 70 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9792 | 26 | 80mm | 1:1,380,000 | 7.5°S | 8.0°E | VERTICAL | | 60 | 48° | Good | 77 | Craters Hipparchus C and L and Hind |
| 9793 | " | " | " | 7.0°S | 7.0°E | " | " | " | " | " | " | Craters Hipparchus C and Hind |
| 9794 | " | " | " | " | 6.0°E | " | " | " | " | " | " | Craters Halley and Hind |
| 9795 | " | " | " | " | 5.0°E | " | " | " | 45° | " | " | Craters Hipparchus and Halley |
| 9796 | " | " | " | 6.5°S | 4.0°E | " | " | " | " | Fair | " | Craters Hipparchus and Hipparchus J |
| 9797 | " | " | " | " | 3.0°E | " | " | " | " | " | " | Craters Hipparchus J and Muller |
| 9798 | " | " | " | 6.0°S | 2.0°E | " | " | " | " | " | " | " |
| 9799 | " | " | " | " | 1.0°E | " | " | " | " | " | " | Craters Glyden and Muller |
| 9800 | " | " | " | " | 0.0° | " | " | " | 40° | " | " | Craters Glyden and Herschel |
| 9801 | " | " | " | " | 1.0°W | " | " | " | " | " | " | " |
| 9802 | " | " | " | 5.5°S | 2.0°W | " | " | " | " | " | " | Craters Herschel and Storer |
| 9803 | " | " | " | " | 3.0°W | " | " | " | " | " | " | " |
| 9804 | " | " | " | 5.0°S | 4.0°W | " | " | " | " | " | " | Craters Flammarion and Herschel C |
| 9805 | " | " | " | " | 5.0°W | " | " | " | 35° | " | " | Craters Flammarion and Herschel D |
| 9806 | " | " | " | " | 6.0°W | " | " | " | " | " | " | Craters Lalande C and R |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q A514 - 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q AS14- 70 Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine Q A514 - 70 Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | " | " | " | " | Dark |
| 9839 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9840 | " | " | " | " | " | " | " | " | " | " | " | " |
| | | | | END OF | MAGAZINE | | | | | | | |
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## 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine T AS14 - 71 Film 3414. BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine T AS14 - 71 Film 3414, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine T AS14 - 71 Film 3414, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9871 | TEC | 80mm | - | 14.0°N | 60.0°E | - | 190° | - | 70° | Good | 44, 62 | Mare Crisium |
| 9872 | " | " | - | 3.0°S | 67.0°E | - | 170° | - | 60° | " | 80 | Craters Gilbert and Langrenus |
| 9873 | " | " | - | 2.0°N | 56.0°E | - | 200° | - | 70° | " | " | Mare Fecunditatis, Langrenus Crater |
| 9874 | " | " | - | 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 | " | " | - | 0° | 95.0°E | - | 90° | - | 37° | " | 63, 81 64, 82 | Mare Smythii, Craters Neper, Jansky, Wyld, Babcock, Pasteur |
| 9877 | " | " | - | 20.5°S | 109.0°E | - | " | - | 20° | " | - | Craters Pasteur, Hilbert, Milne Alden, Titius, and Tsiolkovsky |
| 9878 | " | " | - | 22.0°S | 92.0°E | - | 160° | - | 35° | " | - | Craters Hecataeus, Humboldt, Abel, Curie, Mare Australe |
| 9879 | " | " | - | 9.0°S | 74.0°E | - | 190° | - | 60° | " | 80, 81 | Craters Langrenus, Gilbert, Mare Smythii |
| 9880 | " | " | - | 12,0°N | 72.0°E | - | 285° | - | " | " | 62, 63 44, 45 | Mare Crisium, Mare Spumans; Schubert and Condorcet Craters |
| 9881 | " | " | - | 27.5°N | 92.5°E | - | 15° | - | 37° | " | 45, 46, 29 | Mare Marginus, Craters Joliot, Maxwell, Goddard, and Szilard |
| 9882 | " | " | - | HORIZON | | - | 45° | - | 20° | " | 46, 47, 30 | Craters Maxwell, Szilard, Seyfert, and Olcott |
| 9883 | " | " | - | " | " | - | 80° | - | 15° | " | 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° | " | 83, 101 | Craters Hilbert, Milne, Alden and Fermi |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine T AS14 - 71 Film 3414, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9886 | TEC | 80mm | - | HORIZON | | - | 150° | - | 25° | Good | - | Oblique View Looking SE into Schrodinger Rille |
| 9887 | " | " | - | 32.0°S | 125.0°E | - | 140° | - | 15° | " | - | Craters Hilbert, Alden, Milne, and Tsiolkovsky |
| 9888 | " | " | - | HORIZON | | - | 150° | - | 17° | " | - | Craters Hilbert, Fermi, Milne, and Tsiolkovsky |
| 9889 | " | " | - | 25.0°N | 107.0°E | - | 70° | - | 30° | " | - | Craters Joliot, Maxwell; Flemming, Vestine, and Szilard |
| 9890 | " | " | - | - | - | - | 170° | - | " | " | - | Oblique View Looking SSE Toward Lebedev Crater |
| 9891 | " | " | - | - | - | - | 190° | - | 33° | " | - | Oblique View Looking S into Schrodinger Rille |
| 9892 | " | " | - | - | - | - | - | - | - | " | - | Quarter Moon View Showing Rays from Crater Tycho |
| 9893 | " | " | - | - | - | - | - | - | - | " | - | Mares Fecunditatis, Tranquillitatis, and Serenitatis |
| 9894 | " | " | - | - | - | - | - | - | - | " | - | Full Moon View Showing Mare Vaporum and Sinus Medii |
| 9895 | " | " | - | - | - | - | - | - | - | " | - | Moon View Showing Mare Serenitatis and Mare Vaporum |
| 9896 | " | " | - | - | - | - | - | - | - | " | - | Full Moon View Showing Mares Tranquillitatis, Fecunditatis and Nectaris |
| 9897 | " | " | - | - | - | - | - | - | - | Poor | - | Mares Crisium, Tranquillitatis Fecunditatis |
| 9898 | " | " | - | - | - | - | - | - | - | " | - | Oblique View Showing Rays of Crater Tycho |
| 9899 | " | " | - | - | - | - | - | - | - | " | - | View of Rays of Crater Tycho |
| 9900 | " | " | - | - | - | - | - | - | - | " | - | Very Dark |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine T A514 - 71 Film 3414, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9901 | TEC | 80mm | - | - | - | - | - | - | - | Poor | - | Mare Tranquillitatis |
| 9902 | " | " | - | - | - | - | - | - | - | " | - | Mares Crisium, Tranquillitatis and Serenitatis |
| 9903 | " | " | - | - | - | - | - | - | - | Fair | - | Mares Fertillitatis and Nectaris Crater Langrenus, Tycho Rays |
| 9904 | " | " | - | - | - | - | - | - | - | " | - | Mare Nectaris, Tycho Ray Patterns |
| 9905 | " | " | - | - | - | - | - | - | - | " | - | Mare Nectaris, Tycho Ray Patterns |
| 9906 | " | " | - | - | - | - | - | - | - | " | - | Mares Crisium, Fecunditatis, and Nectaris |
| 9907 | " | " | - | - | - | - | - | - | - | " | - | Mares Fecunditatis, Tranquil-litatis; Tycho Ray Patterns |
| 9908 | " | " | - | - | - | - | - | - | - | " | - | Tycho Crater Ray Patterns |
| 9909 | " | " | - | - | - | - | - | - | - | " | - | 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 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9914 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9915 | " | " | - | - | - | - | - | - | - | Good | - | Mares Crisium, Fecunditatis, Tranquillitatis, and Serenitatis |

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine T AS14 - 71 Film 3414, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9916 | TEC | 80mm | - | - | - | - | - | - | - | Good | - | Mares Crisium and Fecunditatis Tycho Ray Patterns |
| 9917 | " | " | - | - | - | - | - | - | - | " | - | Mares Tranquillitatis and Nectaris; Tycho Ray Patterns |
| | | | | | | | | | | | | |
| | | | | END OF | MAGAZINE | | | | | | | |
| | | | | | | | | | | | | |
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## 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.

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14 - 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9918 | TLI | 80mm | - | - | - | - | - | - | - | Good | - | LM in S IV B |
| 9919 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9920 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9921 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9922 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9923 | " | " | - | - | - | - | - | - | - | " | - | LM After Emerging from S IV B. S IV B in Background |
| 9924 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9925 | " | " | - | - | - | - | - | - | - | " | - | LM Thrusters with S IV B in Background |
| 9926 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9927 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9928 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9929 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9930 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9931 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9932 | " | " | - | - | - | - | - | - | - | " | - | S IV B |

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14 - 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9933 | TLI | 80mm | - | - | - | - | - | - | - | Good | - | S IV B |
| 9934 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9935 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9936 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9937 | " | 500mm | - | - | - | - | - | - | - | Poor | - | Unidentified Reflections with Portion of Moon |
| 9938 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9939 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9940 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9941 | " | " | - | - | - | - | - | - | - | Fair | - | " |
| 9942 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9943 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9944 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9945 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9946 | " | " | - | - | - | - | - | - | - | " | - | " |
| 9947 | 14 | " | 1:1,360,000 | 3.0°S | 149.0°E | 50° | 0° | NA | 7° | Good | LAC 84 | Looking East From Point West of Chaplygin |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14 - 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | 147.0°E | " | 55° | " | 6° | " | " | " |
| 9950 | " | " | " | 4.0°S | " | " | 80° | " | " | " | " | " |
| 9951 | " | " | " | 3.5°S | " | " | 95° | " | " | " | " | Looking Southeast from Point West of Chaplygin |
| 9952 | " | " | " | 5.5°S | " | " | 100° | " | " | " | " | " |
| 9953 | " | " | " | 6.0°S | 146.5°E | " | 110° | " | " | " | " | " |
| 9954 | " | " | " | 5.5°S | 146.0°E | " | " | " | 7° | " | " | " |
| 9955 | " | " | " | - | - | " | - | " | " | " | " | Looking Southeast from Point W. of Chaplygin and E of Vil'Ev |
| 9956 | " | " | " | 6.0°S | 146.5°E | " | 110° | " | 6° | " | " | " |
| 9957 | " | " | " | - | - | " | " | " | " | " | " | " |
| 9958 | " | " | " | 3.0°S | 146.5°E | " | " | " | " | " | " | Crater Vil'Ev |
| 9959 | " | " | " | 4.0°S | 146.0°E | " | 120° | " | 7° | " | " | West of Crater Chaplygin |
| 9960 | " | " | " | - | - | " | - | " | " | " | " | " |
| 9961 | " | " | " | 6.5°N | 125.5°E | " | 350° | NA | 28° | " | 65 | East of King Crater and West of Morozov Crater |
| 9962 | " | " | " | 6.0°N | 124.5°E | " | 330° | 80 | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine L A514 - 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | 5.5°N | 123.5°E | " | " | 90% | " | " | " | " |
| 9965 | " | " | " | 6.0°N | 123.0°E | " | " | 80% | 30° | " | " | East of King Crater |
| 9966 | " | " | " | " | " | " | " | 95% | " | " | " | " |
| 9967 | " | " | " | 5.0°N | 122.0°E | " | " | 35% | 31° | " | " | Eastern Third of King Crater |
| 9968 | " | " | " | 5.5°N | 121.5°E | " | " | 95% | " | " | " | " |
| 9969 | " | " | " | " | 121.0°E | " | " | 80% | 32° | " | " | Eastern Half of King Crater |
| 9970 | " | " | " | 5.0°N | 120.5°E | " | " | " | " | " | " | Western 3/4 of King Crater |
| 9971 | " | " | " | 4.0°N | 120.0°E | " | " | " | 33° | " | " | Western Portion of King Crater |
| 9972 | " | " | " | " | " | " | " | 95% | " | " | " | " |
| 9973 | " | " | " | " | 119.0°E | " | " | 60% | 34° | " | " | West of King Crater Showing Western Edge of Crater |
| 9974 | " | " | " | " | " | " | " | 98% | " | " | " | West of King Crater |
| 9975 | " | " | " | - | - | " | " | - | " | " | " | Some Portion of King Crater. Not Locatable |
| 9976 | " | " | " | 4.0°N | 119.0°E | " | " | 98% | " | " | " | West of King Crater and NE of Abul Wafa |
| 9977 | " | " | " | - | - | - | - | - | - | " | - | Not Identifiable |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14 - 72 Film SO-368, Color



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14- 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 9993 | 14 | 500mm | 1:1,360,000 | - | - | - | - | - | 56° | Good | 82 | Southwest of Saha Crater Looking Northwest |
| 9994 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9995 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9996 | " | " | " | " | " | " | " | " | " | " | " | Low Oblique Looking NW on NW Edge of Gansky Crater (Near Vert.) |
| 9997 | " | " | " | " | " | " | " | " | " | " | " | " |
| 9998 | " | " | " | 7.0°S | 97.0°E | 50° | 330° | " | " | " | " | " |
| 9999 | " | " | " | 7.5°S | " | " | " | 60% | " | " | " | " |
| 10000 | " | " | " | " | 96.5°E | " | " | 20% | " | " | " | " |
| 10001 | " | " | " | 8.0°S | 96.0°E | " | 360° | " | 57° | " | " | " |
| 10002 | " | " | " | " | " | " | " | 98% | " | " | " | " |
| 10003 | " | " | " | " | " | " | " | 80% | " | " | " | " |
| 10004 | " | " | " | 3.0°S | 94.0°E | 55° | 350° | " | 59° | " | " | High Oblique Showing Erro Crater on East Edge of Mare Smythii |
| 10005 | " | " | " | 2.5°S | 93.5°E | " | 355° | 40% | " | " | " | High Oblique Looking NW in Central SE of Mare Smythii |
| 10006 | " | " | " | " | 93.0°E | " | " | 45% | 60° | " | " | " |
| 10007 | " | " | " | 3.0°S | " | 40° | 345° | 65% | " | " | " | Mare Smythii Area Looking NNW From N Edge of Hirayama Crater |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14 - 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | 2.5°S | 91.5°E | " | 355° | 40% | " | " | " | Mare Smythii Area Looking N from NW Edge of Hirayama Crater |
| 10010 | " | " | " | 1.5°S | 90.5°E | 55° | " | 25% | 62° | " | 81, 82 | Mare Smythii Area Looking N from NW Edge of Hirayama Crater |
| 10011 | " | " | " | 3.0°S | " | 45° | " | 10% | " | " | " | Mare Smythii Area Looking N from West Edge of Hirayama Crater |
| 10012 | " | " | " | 5.0°S | 90.0°E | 55° | 360° | 5% | 63° | " | " | " |
| 10013 | " | " | " | 3.5°S | 90.5°E | 50° | " | 75% | 62° | " | " | Mare Smythii Area Looking N from NW Edge of Hirayama Crater |
| 10014 | " | " | " | 3.0°S | 90.0°E | 55° | " | 85% | 63° | " | " | " |
| 10015 | " | " | " | " | " | " | " | " | " | " | " | Mare Smythii Area Looking NW from NW Edge of Hirayama Crater |
| 10016 | " | " | " | " | 89.0°E | " | 350° | 30% | 64° | " | " | Mare Smythii Area Looking NW from NW Edge of Hirayama Crater |
| 10017 | " | " | " | " | " | " | " | 90% | " | " | 81 | " |
| 10018 | " | " | " | " | " | " | 345° | " | " | " | " | " |
| 10019 | " | " | " | " | 88.5°E | " | " | 85% | " | " | " | " |
| 10020 | " | " | " | 3.5°S | 88.0°E | 50° | " | 80% | 65° | " | " | " |
| 10021 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10022 | " | " | " | 3.0°S | " | 55° | " | " | " | " | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14- 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | " | " | " | 75% | " | " | " | " |
| 10025 | " | " | " | " | " | " | " | 90% | " | " | " | Mare Smythii Area Looking NW from Point WNW of Hirayama Crater |
| 10026 | " | " | " | " | 86.5°E | " | " | 95% | " | " | " | " |
| 10027 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10028 | " | " | " | " | 86.0°E | " | " | " | " | " | " | " |
| 10029 | " | " | " | " | " | " | " | 30% | " | " | " | " |
| 10030 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10031 | " | " | NA | NA | NA | NA | NA | NA | NA | Good | NA | Earth in Crescent View from Lunar Orbit |
| 10032 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10033 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10034 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10035 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10036 | " | " | " | " | " | " | " | " | " | " | " | " |
| 10037 | " | " | " | " | " | " | " | " | " | " | " | Earth in Crescent View from Lunar Orbit |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine L AS14- 72 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10038 | 14 | 500mm | NA | NA | NA | NA | NA | NA | NA | Good | NA | Earth in Crescent View from Lunar Orbit |
| 10039 | " | " | " | " | " | " | " | " | " | " | " | " |
| | | END OF | MAGAZINE | | | | | | | | | |
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## 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14 - 73 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | 14.0°S | 29.5°E | " | " | 40% | " | " | 78 | " |
| 10042 | " | " | " | 16.0°S | 29.0°E | " | 255° | 25% | " | " | " | " |
| 10043 | " | " | " | " | 28.0°E | " | 240° | 50% | " | " | " | Western Edge of Mare Nectaris Beaumont D Crater |
| 10044 | " | " | " | 16.5°S | 27.0°E | " | " | 30% | " | Fair | " | Craters Beaumont D and Cyrillus E |
| 10045 | " | " | " | 17.0°S | 26.0°E | " | 230° | 20% | " | Good | " | Craters Beaumont D and Catharina |
| 10046 | " | " | 1:508,200 | 16.0°S | " | 30° | 245° | " | 65° | " | " | Craters Beaumont D, Cyrillus E, Cyrillus F |
| 10047 | " | " | " | " | 25.5°E | " | 250° | 50% | " | " | " | " |
| 10048 | " | " | " | 15.5°S | 24.0°E | " | 255° | - | " | " | " | South Edge of Crater Cyrillus |
| 10049 | " | " | 1:468,800 | 14.0°S | 25.0°E | 20° | " | 20% | " | " | " | Floor of Crater Cyrillus |
| 10050 | " | " | " | 12.0°S | 24.0°E | " | 265° | " | " | " | " | West Edge of Crater Theophilus Floor of Crater Cyrillus |
| 10051 | " | " | 1:508,200 | 11.0°S | 23.5°E | 30° | - | - | " | " | " | Area Just West of Crater Theophilus |
| 10052 | " | " | " | 9.5°S | 22.5°E | " | 250° | - | 63° | " | " | Crater Kant C |
| 10053 | " | " | " | " | 21.5°E | " | " | 65% | 61° | " | " | " |
| 10054 | " | " | 1:574,600 | - | - | 40° | 245° | 30% | 60° | " | " | Area Between Kant C and Kant |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14 - 73 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | 260° | 30% | " | " | " | " " |
| 10057 | " | " | " | 11.5°S | 19.5°E | " | " | " | " | " | " | " " |
| 10058 | " | " | 1:455,500 | 11°S | 19°E | 15° | 265° | " | " | " | " | " " |
| 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% | " | " | " | South Rim of Crater Kant, Crater Kant D |
| 10061 | " | " | " | " | 19°E | " | 265° | 50% | " | " | " | Crater Kant D |
| 10062 | " | " | 1:485,500 | " | 18°E | 25° | " | 10% | 58° | " | " | " " |
| 10063 | " | " | " | " | 17°E | " | " | 30% | 57° | " | " | Crater Descartes |
| 10064 | " | " | 1:468,800 | 11.5°S | 17°E | 20° | " | 50% | " | " | " | " " |
| 10065 | " | " | 1:455,500 | " | 16.5°E | 15° | " | " | 56° | " | " | " " |
| 10066 | " | " | " | 11°S | 16°E | " | " | 60% | " | " | " | " " |
| 10067 | " | " | " | 11.5°S | 15.5°E | " | 260° | 30% | 55° | " | " | Crater Descartes, Descartes A |
| 10068 | " | " | " | 12.5°S | 15°E | " | " | - | " | Fair | " | Crater Descartes |
| 10069 | " | " | 1:485,500 | 13.0°S | 15°E | 25° | 255° | 20% | " | Good | " | Area Just East of Crater Abulfeda |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M A514 - 73 Film SO-368, Color



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14 - 73 Film SO-368, Color



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14 - 73 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | 10.5°S | 5.0°W | " | " | " | 35° | " | " | Craters Davy G and Davy Y |
| 10102 | " | " | 1:574,600 | 10.0°S | 5.5°W | 40° | " | " | " | " | " | " |
| 10103 | " | " | 1:622,200 | 10.5°S | 6.0°W | 45° | " | 60% | 34° | " | " | Craters Davy G, Y; Crater Davy |
| 10104 | " | " | 1:767,100 | 11.0°S | 6.5°W | 55° | 240° | 40% | " | " | " | Craters Davy G, Y; Craters Davy and Lassel |
| 10105 | " | " | 1:574,600 | 9.5°S | " | 40° | 250° | - | " | " | " | Craters Davy Y and Ralisa |
| 10106 | " | " | 1:485,000 | 11.0°S | 13.0°W | 25° | " | " | 27° | " | 76 | Craters Guericke, Guericke D, Guericke C |
| 10107 | " | " | 1:469,000 | 9.5°S | 13.5°W | 20° | " | 10% | " | " | " | Craters Parry A and Guericke |
| 10108 | " | " | " | 8.0°S | 14.0°W | " | 260° | - | 26° | " | " | Area Just East of Parry A; Mare Nubium |
| 10109 | " | " | 1:455,000 | " | " | 15° | " | - | " | " | " | Rima Parry II, Mare Nubium |
| 10110 | " | " | " | 7.5°S | 15.0°W | " | 255° | 50% | 25° | " | " | Craters Parry; Rima Parry II |
| 10111 | " | " | " | 7.0°S | 15.5°W | " | 250° | 20% | " | " | " | Craters Parry and Fra Mauro |
| 10112 | " | " | 1:469,000 | " | 16.5°W | 20° | " | 10% | 24° | " | " | Rima Parry, Craters Parry, Fra Mauro, Bonpland |
| 10113 | " | " | 1:455,000 | 6.5°S | " | 15° | 255° | 50% | " | " | " | Rima Parry, Crater Fra Mauro |
| 10114 | " | " | 1:485,000 | 7.5°S | 16.0°W | 25° | 250° | 10% | " | " | " | Craters Parry and Bonpland |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M A514 - 73 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 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 | " | " | " | " | 17.5°W | " | " | 60% | " | " | " | " |
| 10117 | " | " | " | 7.0°S | " | " | 255° | 50% | " | " | " | " |
| 10118 | " | " | " | " | 18.5°W | " | " | - | 22° | " | " | Northeast Edge of Known Sea |
| 10119 | " | " | 1:446,000 | 4.0°S | 21.0°W | 10° | " | - | 19° | " | " | Crater Fra Mauro B |
| 10120 | " | " | 1:469,000 | 2.0°S | 26.0°W | 20° | 260° | - | 14° | " | " | Highland Area Just South of Crater Lansberg |
| 10121 | " | " | 1:508,000 | " | " | 30° | " | 60% | " | " | " | " |
| 10122 | " | " | " | " | 26.5°W | " | 265° | 80% | " | " | " | " |
| 10123 | " | " | 1:446,000 | " | " | 10° | 270° | 50% | " | " | " | " |
| 10124 | " | " | " | " | " | " | " | 80% | " | " | " | " |
| 10125 | " | " | " | 1.5°S | " | " | 275° | " | " | " | " | " |
| 10126 | 27 | " | 1:767,100 | 4.0°S | 75.0°E | 55° | 20° | - | 64° | " | 63, 81 | Crater Gilbert |
| 10127 | " | " | 1:880,400 | 3.5°S | 74.5°E | 60° | " | 65% | " | " | " | " |
| 10128 | " | " | " | " | 74.0°E | " | " | 50% | 65° | " | " | Craters Gilbert, Gilbert K |
| 10129 | " | " | " | " | 73.5°E | " | " | " | 66° | " | " | Craters Gilbert K and Gilbert J, Gilbert |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M A514 - 73 Film SO-368, Color



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14 - 73 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10145 | 27 | 250mm | 1:508,200 | 8.0°S | 61.5°E | 73° | 30° | 70% | 68° | Good | 78 | Floor of Crater Langrenus Including Central Peaks |
| 10146 | " | " | " | " | " | " | " | 50% | 67° | " | " | " |
| 10147 | " | " | 1:574,600 | " | " | " | " | 20% | " | " | " | Floor and Rim of Crater Langrenus |
| 10148 | " | " | " | " | " | " | " | " | " | " | " | Floor and Central Peaks of Crater Langrenus |
| 10149 | " | " | " | " | " | " | " | 40% | " | " | " | " |
| 10150 | " | " | 1:537,100 | 9.0°S | 61.0°E | " | " | 30% | " | " | " | " |
| 10151 | " | " | 1:508,200 | " | " | " | " | 20% | " | " | " | North Rim and Floor of Crater Langrenus |
| 10152 | " | " | 1:537,100 | " | " | " | " | 40% | 68° | Fair | " | " |
| 10153 | " | " | 1:574,600 | 10.0°S | 59.0°E | 74° | 30° | 20% | 69° | Good | " | " |
| 10154 | 28 | " | - | - | - | - | 130° | - | 83° | " | 80 | Mare Fecunditatis Near Langrenus D |
| 10155 | " | " | - | - | - | - | " | 40% | " | " | " | " |
| 10156 | " | " | - | - | - | - | " | " | " | " | " | " |
| 10157 | " | " | - | " | - | - | " | " | " | " | " | " |
| 10158 | " | " | 1:508,200 | 9.0°S | 54.0°E | 30° | 95° | - | 85° | " | " | Mare Fecunditatis, Crater Langrenus DA |
| 10159 | " | " | " | 8.5°S | 53.5°E | " | " | 50% | " | Fair | " | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14 - 73 Film SO-368, Color



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14- 73 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10175 | TEC | 250mm | - | - | - | - | - | - | - | Good | - | Tycho Ray Pattern |
| 10176 | " | " | - | - | - | - | - | - | - | Fair | - | View of Southern Tip of Moon |
| 10177 | " | " | - | - | - | - | - | - | - | Good | - | Mares Crisium, Serenitatis, Tranquillitatis, Fecunditatis |
| 10178 | " | " | - | - | - | - | - | - | - | " | - | Tycho Ray Patterns Mare Nectaris |
| 10179 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10180 | " | " | - | - | - | - | - | - | - | " | - | Tycho Ray Patterns, Mares Nectaris, Fecunditatis |
| 10181 | " | " | - | - | - | - | - | - | - | Fair | - | View of Southern Tip of Moon |
| 10182 | " | " | - | - | - | - | - | - | - | Poor | - | No Image |
| 10183 | " | " | - | - | - | - | - | - | - | Good | - | View of Lunar Backside From 120°E to 40°E, S Latitudes |
| 10184 | " | " | - | - | - | - | - | - | - | " | - | Tycho, Mare Nectaris |
| 10185 | " | " | - | - | - | - | - | - | - | " | - | Tycho, Ray Pattern |
| 10186 | " | " | - | - | - | - | - | - | - | " | - | Tycho, Langrenus, Mares Nectaris Fecunditatis |
| 10187 | " | " | - | - | - | - | - | - | - | " | - | Mares Crisium, Tranquillitatis, Nectaris - Tycho |
| 10188 | " | " | - | - | - | - | - | - | - | " | - | Tycho Ray Patterns |
| 10189 | " | " | - | - | - | - | - | - | - | " | - | Tycho |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine M AS14- 73 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10190 | TEC | 250mm | - | - | - | - | - | - | - | Good | - | Tycho, Mare Fecunditatis |
| 10191 | " | " | - | - | - | - | - | - | - | " | - | Tycho, Ray Patterns |
| 10192 | " | " | - | - | - | - | - | - | - | " | - | Tycho, Mares Crisium, Fecunditatis, Nectaris |
| 10193 | " | " | - | - | - | - | - | - | - | " | - | Mare Smythii, Langrenus |
| 10194 | " | " | - | - | - | - | - | - | - | Fair | - | TEI Lunar View |
| 10195 | " | " | - | - | - | - | - | - | - | Good | - | Tycho; Mares Serenitatis, Tranquillitatis, Nectaris, Fecunditatis |
| 10196 | " | " | - | - | - | - | - | - | - | " | - | Full Moon View |
| 10197 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10198 | " | " | - | - | - | - | - | - | - | " | - | Half Moon View |
| 10199 | " | " | - | - | - | - | - | - | - | " | - | Full Moon View |
| 10200 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10201 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10202 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10203 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10204 | " | " | - | - | - | - | - | - | - | " | - | 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine N AS14 - 74 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10205 | 12 | 80mm | - | - | - | - | - | - | - | Good | - | LM Separation Before Landing |
| 10206 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10207 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10208 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10209 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10210 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10211 | " | " | - | - | - | - | - | - | - | " | - | Unidentified |
| 10212 | " | " | - | - | - | - | - | - | - | " | - | LM Jettison |
| 10213 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10214 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10215 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10216 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10217 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10218 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10219 | " | " | - | - | - | - | - | - | - | " | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine N AS14 - 74 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10220 | 12 | 80mm | - | - | - | - | - | - | - | Good | - | LM Jettison |
| 10221 | " | " | - | - | - | - | - | - | - | " | - | " |
| 10222 | " | " | - | - | - | - | - | - | - | " | - | " |
| | | | | END OF | MAGAZINE | | | | | | | |
| | | | | | | | | | | | | |
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## 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine R AS14 - 75 Film 3414, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10223 | 15 | 80mm | - | 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° | " | " | " | - | " |
| 10225 | " | " | - | " | 127.0°E | 55° | 87° | " | " | " | - | " |
| 10226 | " | " | - | " | 124.0°E | 50° | 80° | " | " | " | - | " |
| 10227 | " | " | - | 6.5°S | " | " | " | " | " | " | - | " |
| 10228 | " | " | - | 7.0°S | 123.5°E | " | " | " | " | " | - | " |
| 10229 | " | " | - | " | " | " | " | " | " | " | - | " |
| 10230 | " | " | - | " | 122.5°E | 55° | " | " | " | " | - | " |
| 10231 | " | " | - | " | 122.0°E | " | " | " | " | " | - | " |
| 10232 | " | " | - | " | " | " | " | " | " | " | - | Looking East from NE Corner of Langemak to Crater Love |
| 10233 | " | " | - | " | " | " | " | " | " | " | - | Langemak |
| 10234 | " | " | - | " | 120.0°E | " | " | " | " | " | - | " |
| 10235 | " | " | - | " | " | " | " | " | " | " | - | " |
| 10236 | " | " | - | " | 119.0°E | " | " | " | " | " | - | " |
| 10237 | " | " | - | " | 118.0°E | " | " | " | " | " | - | Northeast Edge of Meitner, Langemak |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine R AS14 - 75 Film 3414, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine R AS14 - 75 Film 3414, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine R A514 - 75 Film 3414, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine R AS14 - 75 Film 3414, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10283 | 16 | 80mm | - | 10.0°S | 108.0°E | 50° | 90° | 80% | ZERO PHASE | Fair | 82 | Pasteur, Meitner |
| 10284 | " | " | - | " | 105.0°E | " | " | " | " | " | " | " " |
| 10285 | " | " | - | " | " | 55° | " | " | " | " | " | " " |
| 10286 | " | " | - | " | " | " | " | " | " | " | " | Pasteur |
| 10287 | " | " | - | " | 104.0°E | " | " | " | " | " | " | " |
| 10288 | " | " | - | " | 103.0°E | " | " | " | " | " | " | " |
| 10289 | " | " | - | " | 102.0°E | " | " | " | " | " | " | " |
| 10290 | " | " | - | " | 100.0°E | " | " | " | " | " | " | " |
| 10291 | " | " | - | " | 99.5°E | 50° | " | " | " | " | " | " |
| 10292 | " | " | - | " | 98.5°E | " | " | " | " | " | " | " |
| 10293 | " | " | - | " | " | 55° | " | " | " | " | " | " |
| 10294 | " | " | - | " | 97.5°E | 50° | " | " | " | " | " | Pasteur, Blacklund |
| 10295 | " | " | - | " | 96.0°E | 55° | " | " | " | " | " | " " |
| 10296 | " | " | - | " | 95.0°E | " | " | " | " | " | " | " " |
| 10297 | " | " | - | " | 94.0°E | " | " | " | " | " | " | " " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine R AS14 - 75 Film 3414, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine R AS14-75 Film 3414, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10313 | TEI | 80mm | - | - | - | - | - | - | Medium | Good | - | Mare Smythii, Craters Pasteur, Hilbert and Alden |
| 10314 | " | " | - | - | - | - | - | - | " | " | - | Mare Crisium, Mare Smythii, Craters Joliot and Seyfert |
| 10315 | " | " | - | - | - | - | - | - | " | " | - | Craters Joliot, Seyfert and King |
| 10316 | " | " | - | - | - | - | - | - | " | " | - | " |
| 10317 | " | " | - | - | - | - | - | - | " | " | - | " |
| 10318 | " | " | - | - | - | - | - | - | " | " | - | " |
| 10319 | " | " | - | - | - | - | - | - | " | " | - | " |
| 10320 | " | " | - | - | - | - | - | - | " | " | - | " |
| | | | | END OF | MAGAZINE | | | | | | | |
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## 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.

APOLLO 14 FRAME PHOTOGRAPHY

Magazine 0 AS14- 76 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10321 | - | 80mm | - | - | - | - | - | - | - | Poor | - | Docking Probe and CSM Instrument Panel |
| 10322 | - | " | - | - | - | - | - | - | - | " | - | Poor Focus, Limited Depth-of-Field |
| 10323 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10324 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10325 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10326 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10327 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10328 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10329 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10330 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10331 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10332 | - | " | - | - | - | - | - | - | - | Black | - | - |
| 10333 | - | " | - | - | - | - | - | - | - | Poor | - | CSM Instrument Panel |
| 10334 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10335 | - | " | - | - | - | - | - | - | - | " | - | " |

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine 0 A514 - 76 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10336 | - | 80mm | - | - | - | - | - | - | - | Poor | - | CSM Instrument Panel |
| 10337 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10338 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10339 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10340 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10341 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10342 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10343 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10344 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10345 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10346 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10347 | - | " | - | - | - | - | - | - | - | " | - | High Altitude Earth View |
| 10348 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10349 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10350 | - | " | - | - | - | - | - | - | - | Fair | - | " |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine 0 AS14 - 76 Film SO-368, Color



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10351 | - | 80mm | - | - | - | - | - | - | - | Fair | - | High Altitude Earth View |
| 10352 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10353 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10354 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10355 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10356 | - | " | - | - | - | - | - | - | - | Clear | - | - |
| | | | | END OF | MAGAZINE | | | | | | | |
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## 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.

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine S AS14 - 78 Film SO-2485, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10375 | - | 80mm | - | - | - | - | - | - | 12° | Poor | 76 | View of Lunar Surface Over-Exposed |
| 10376 | - | " | - | - | - | - | - | - | " | " | " | " |
| 10377 | - | " | - | - | - | - | - | - | " | " | " | " |
| 10378 | - | " | - | - | - | - | - | - | " | " | " | " |
| 10379 | - | " | - | - | - | - | - | - | - | " | - | No Visible Image |
| 10380 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10381 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10382 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10383 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10384 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10385 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10386 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10387 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10388 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10389 | - | " | - | - | - | - | - | - | - | " | - | " |

# APOLLO 14 FRAME PHOTOGRAPHY

Magazine S AS14 - 78 Film SO-2485, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10390 | - | 80mm | - | - | - | - | - | - | - | Poor | - | No Visible Image |
| 10391 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10392 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10393 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10394 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10395 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10396 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10397 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10398 | - | " | - | - | - | - | - | - | - | " | - | " |
| 10399 | - | " | - | - | - | - | - | - | - | " | - | Blurred Image |
| | | | | END OF | MAGAZINE | | | | | | | |
| | | | | | | | | | | | | |
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## 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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine W AS14 - 80 LTC Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine W AS14 - LTC Film 3400, BW



Time Reference GET GMT

| Frame No. | Rev. No. | Camera f Length | Approx. Photo Scale | Principal Point | | Approx. Tilt Data | | Fwd O/L | Approx. Sun Angle | Photo Quality | Photo Index Area | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lat. | Long. | Angle | Azimuth | | | | | |
| 10505 | 4 | 18" | 1:41,470 | 10.6°S | 24.4°E | Vertical | 0 | 60% | 42° | Good | 78 | Northeast of Cyrillus M Approx. Recog. Limits 2.1 m |
| 10510 | " | " | " | " | 24.2°E | " | " | " | " | " | " | North of Cyrillus M Approx. Recog. Limits 2.1 m |
| 10515 | " | " | " | 10.5°S | 23.9°E | " | " | " | 41° | " | " | Northwest of Cyrillus M Approx. Recog. Limits 2.1 m |
| 10520 | " | " | " | " | 23.6°E | " | " | " | " | " | " | No Named Features, Ridge with Crater |
| 10525 | " | " | " | 10.4°S | 23.4°E | " | " | " | " | " | " | No Named Features |
| 10530 | " | " | " | " | 23.1°S | " | " | " | 40° | " | " | " |
| 10535 | " | " | " | 10.3°S | 22.9°E | " | " | " | " | " | " | No Named Features 2-km Crater |
| 10540 | " | " | " | " | 22.7°E | " | " | " | " | " | " | No Named Features |
| 10545 | " | " | " | 10.2°S | 22.4°E | " | " | " | " | " | " | " |
| 10550 | " | " | " | " | 22.2°E | " | " | " | " | " | " | " |
| 10555 | " | " | 1:37,000 | 10.1°S | 21.9°E | " | " | " | 39° | 10553-10555 Blurred | " | No Named Features Approx. Recog. Limits 1.9 m |
| 10560 | " | " | " | " | 21.7°E | " | " | " | " | " | " | " |
| 10565 | " | " | " | 10.0°S | 21.4°E | " | " | " | " | " | " | No Named Features 4-5 km Crater |
| 10567 | | Blank Frames 10567-10581 | | | | | | | | | | |
| 10582 | 4 | 18" | 1:37,000 | 9.9°S | 20.5°E | Vertical | 0 | 60% | 38° | Good | 78 | North Rim of Kant M |

## APOLLO 14 FRAME PHOTOGRAPHY

Magazine W AS14 - LTC Film 3400, BW



Time Reference GET GMT

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

Magazine: A  Film: 16mm, Color

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

Magazine: B  Film: 16mm, Color

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

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 |

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

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 |

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

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 |

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

Magazine: H  Film: 16mm, Color

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

Magazine: I  Film: 16mm, Color

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

Magazine: X  Film: 16mm, Color

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

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 |

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

Magazine: BB  Film: 16mm, Color

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

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 |

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

Magazine: EE  Film: 16mm, Color

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

## APOLLO 14, DAC, 16mm MAGAZINE INDEX

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 |

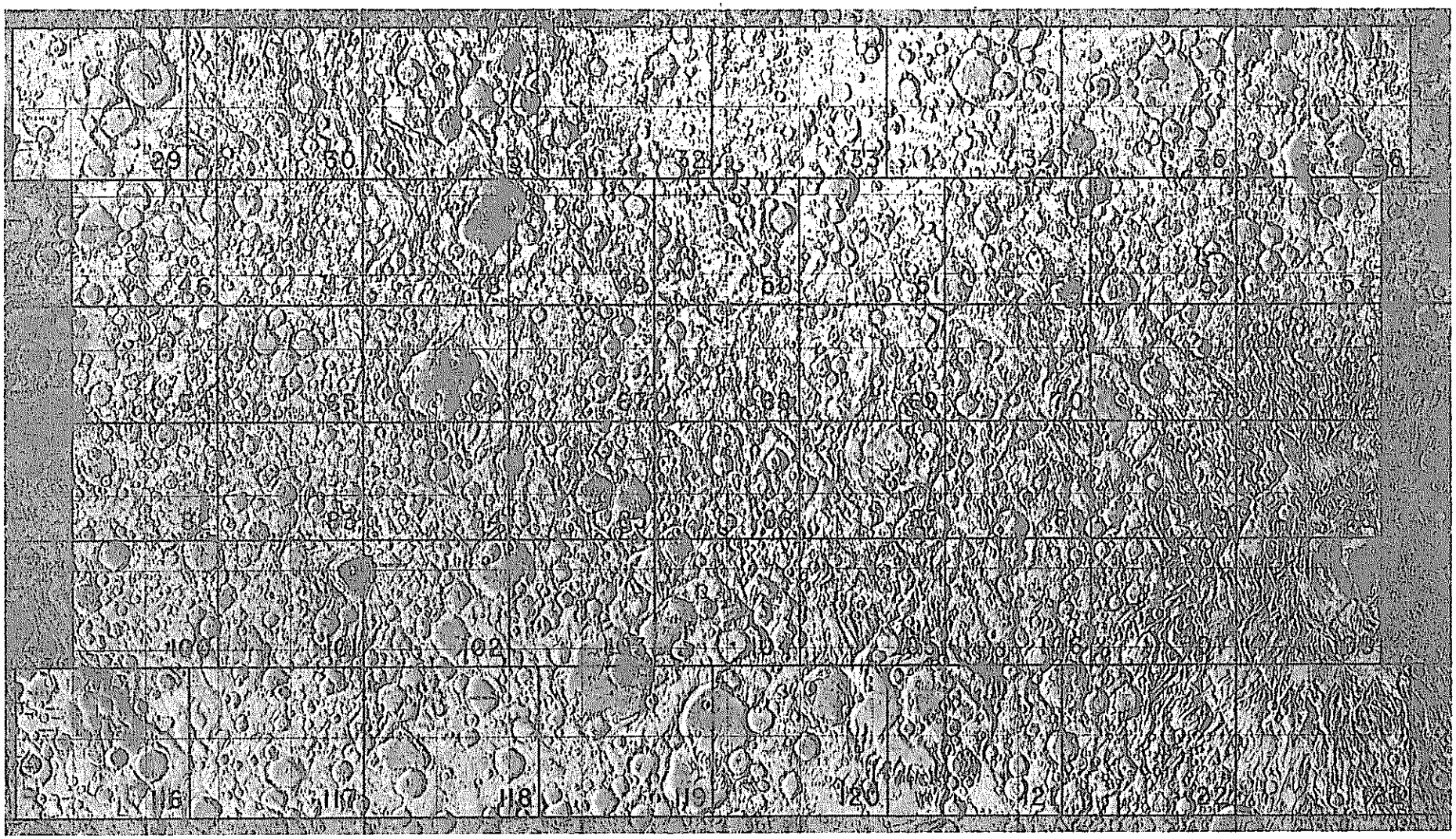
## APOLLO 14 LUNAR CLOSEUP STEREOSCOPIC PHOTOGRAPHY (35-mm)

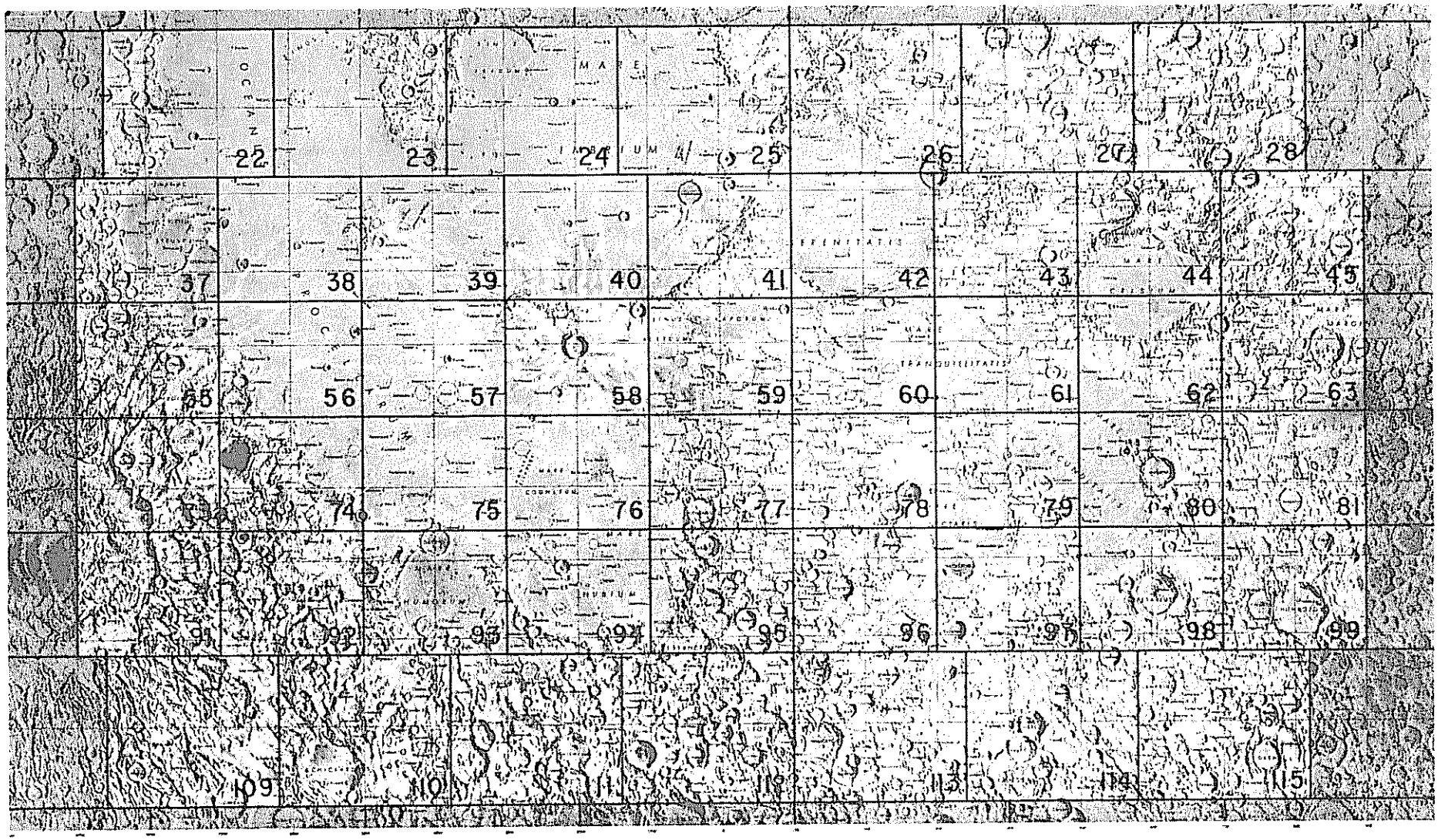
(Frames AS14-77-10357 through 10374)

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 FARSIDE CHART**



# PHOTO INDEX AREA LOCATION DIAGRAM

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
**LUNAR EARTHSIDE CHART**