JSC-20639

Catalog of
Space Shuttle Earth Observations Hand-Held Photography

Space Transportation System (STS) 41-G Mission

Space Shuttle Earth Observations Project

July 1985

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston Texas 77058

Cover Photograph
(S17-120-056)

Seen from an altitude of 350 km (190 n. mi.), the Levantine Rift Valley slices north-south through the Middle East. Rift faulting connects the Dead Sea and Sea of Galilee, but northward in Lebanon the rifting splays out into a series of north-northeast trending faults. East of the rift are two large lava fields about which little is known. This region was also photographed by the Large Format Camera that flew on the 41-G mission, as well as by the Linhof camera that took this picture.

JSC-20639

CATALOG OF SPACE SHUTTLE EARTH OBSERVATIONS HAND-HELD PHOTOGRAPHY

SPACE TRANSPORTATION SYSTEM (STS) 41-G MISSION

Job Order 69-210

PREPARED BY

Barbara S. Nowakowski

Barbara S. Nowakowski

Wesley F. Palmer

Wesley F. Palmer

APPROVED BY

Lockheed

Robert W. Payne

R. W. Payne, Supervisor
Systems Research Section

Philip L. Krumm

P. L. Krumm, Manager
Spaceflight Sciences Department

NASA

Charles A. Wood

Charles A. Wood, Manager
Space Shuttle Earth Observations
Project

Prepared By

Lockheed Engineering and Management Services Company, Inc.

For

Solar System Exploration Division

Space and Life Sciences Directorate

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER
HOUSTON, TEXAS

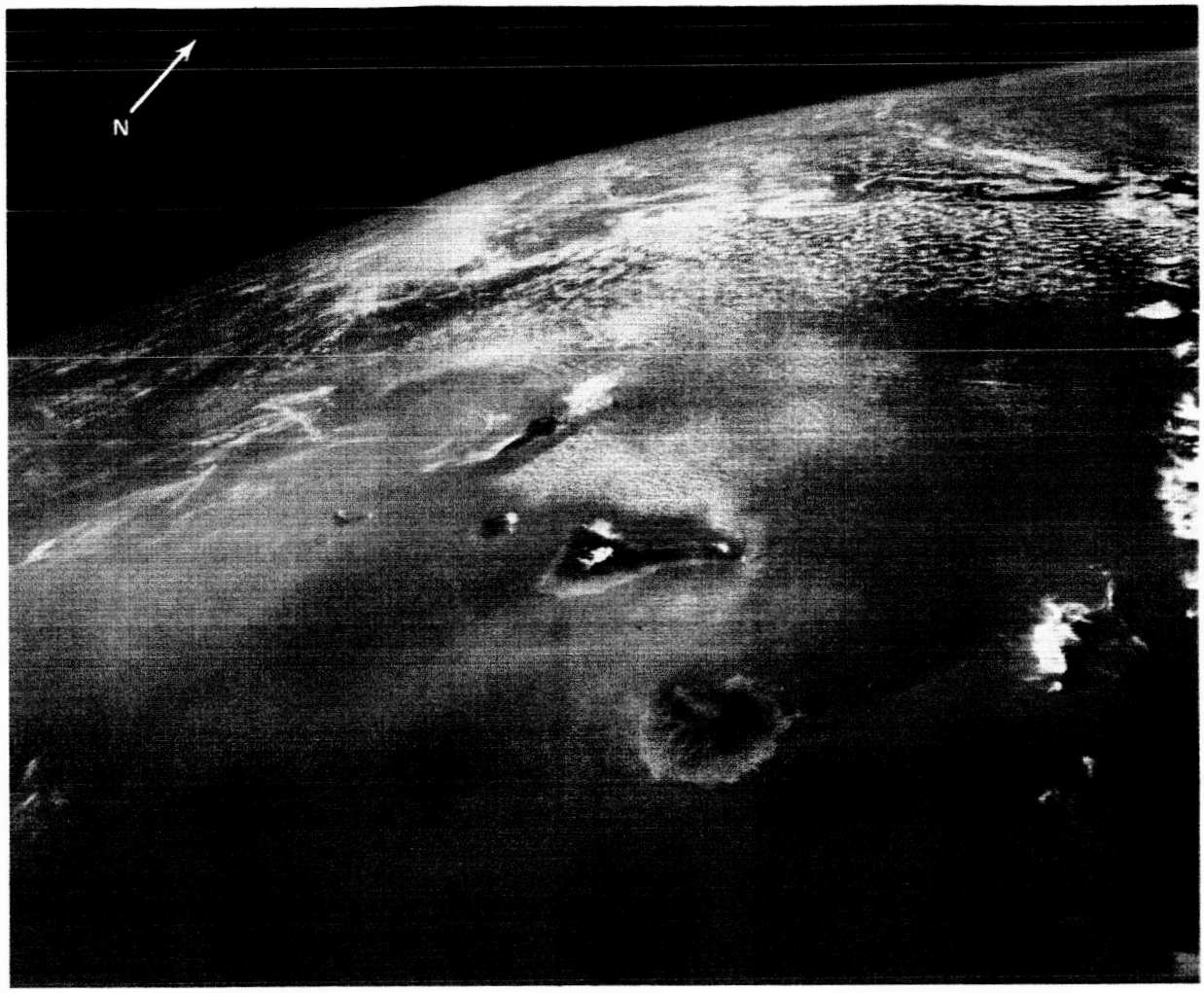
July 1985

LEMSCO-21761

FOREWORD

The crew of the STS 41-G mission took more than 2400 photographs of Earth with their Hasselblad and Linhof cameras. To illustrate the distinctive quality and character of the photography of Earth and its environment as captured by the crew, nine photographs have been selected and reproduced on the following pages with brief descriptions of geologic features and various phenomena.

Although the photographs are reproduced in black and white, the originals are in natural color and provide a wide range of hue, saturation, and brightness.



S17-121-169

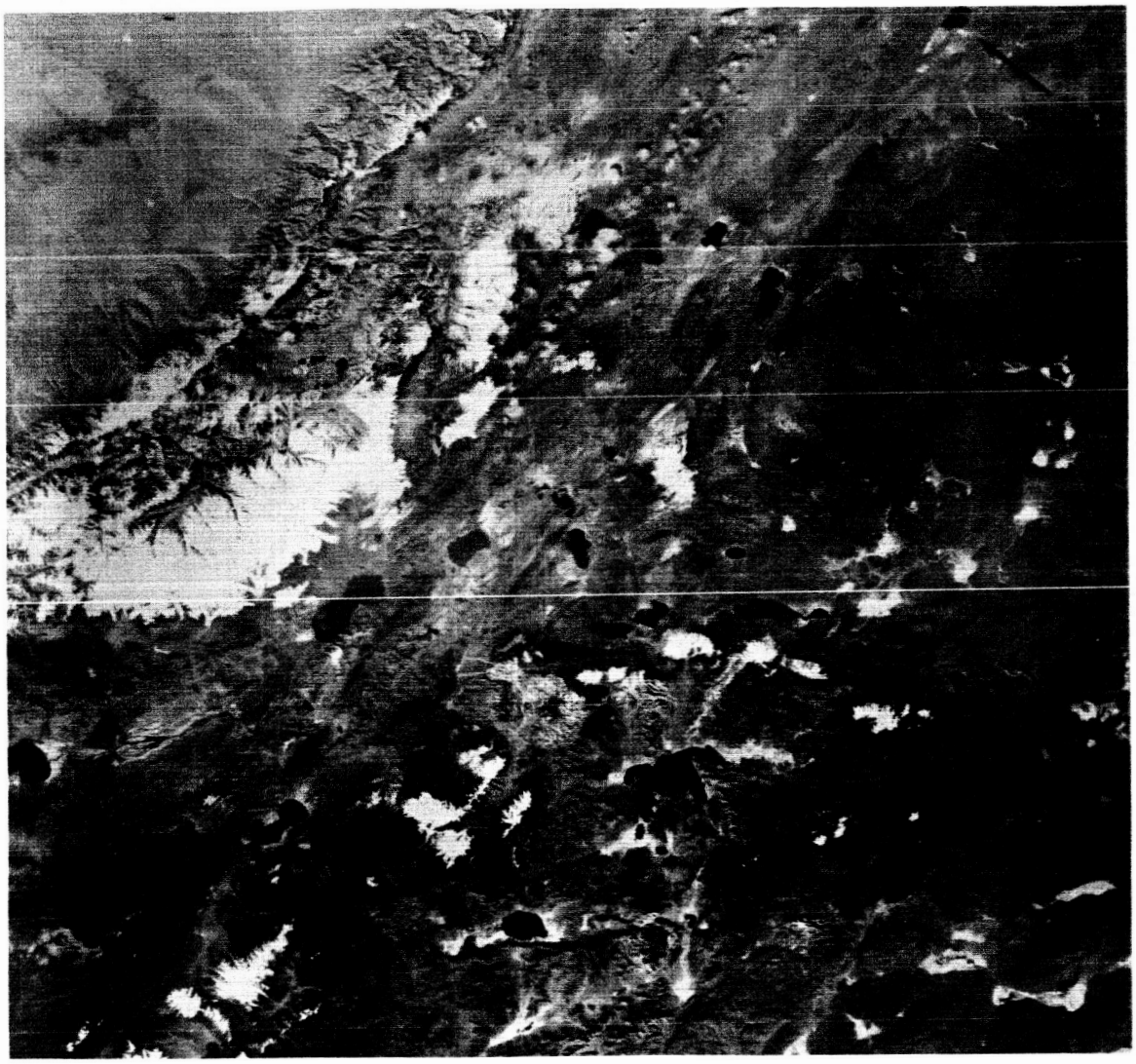
Photography from the Space Shuttle missions is increasing our knowledge of the frequency, extent, and duration of very large trans-Atlantic duststorms. Those dust palls emanating from the Sahara Desert and the Sahelian regions of Africa sweep westward as far as North America. In this instance, a large duststorm from Algeria and Morocco is moving offshore across the Canary Islands (28° N., 17° W.) into the Atlantic. Recently, the lee wakes in the dust shield have been noted in previous photography on the west sides of both the Canary Islands and the Cape Verde Islands (16° N., 24° W.).

S84-17-33-043

Aniakchak caldera (56.9° N., 158.2° W.) is an 11-km-wide, steep-walled volcano midway along the Alaska Peninsula. The original cone collapsed to form the caldera approximately 3500 years ago, and a broad ashflow sheet traveled outward nearly 50 km. This Hasselblad view, which was taken with the 250-mm lens, clearly shows both a cinder cone and a lake on the caldera floor. The last certain eruption in May 1931 deposited 0.6 cm of dark ash as far away as 200 km.

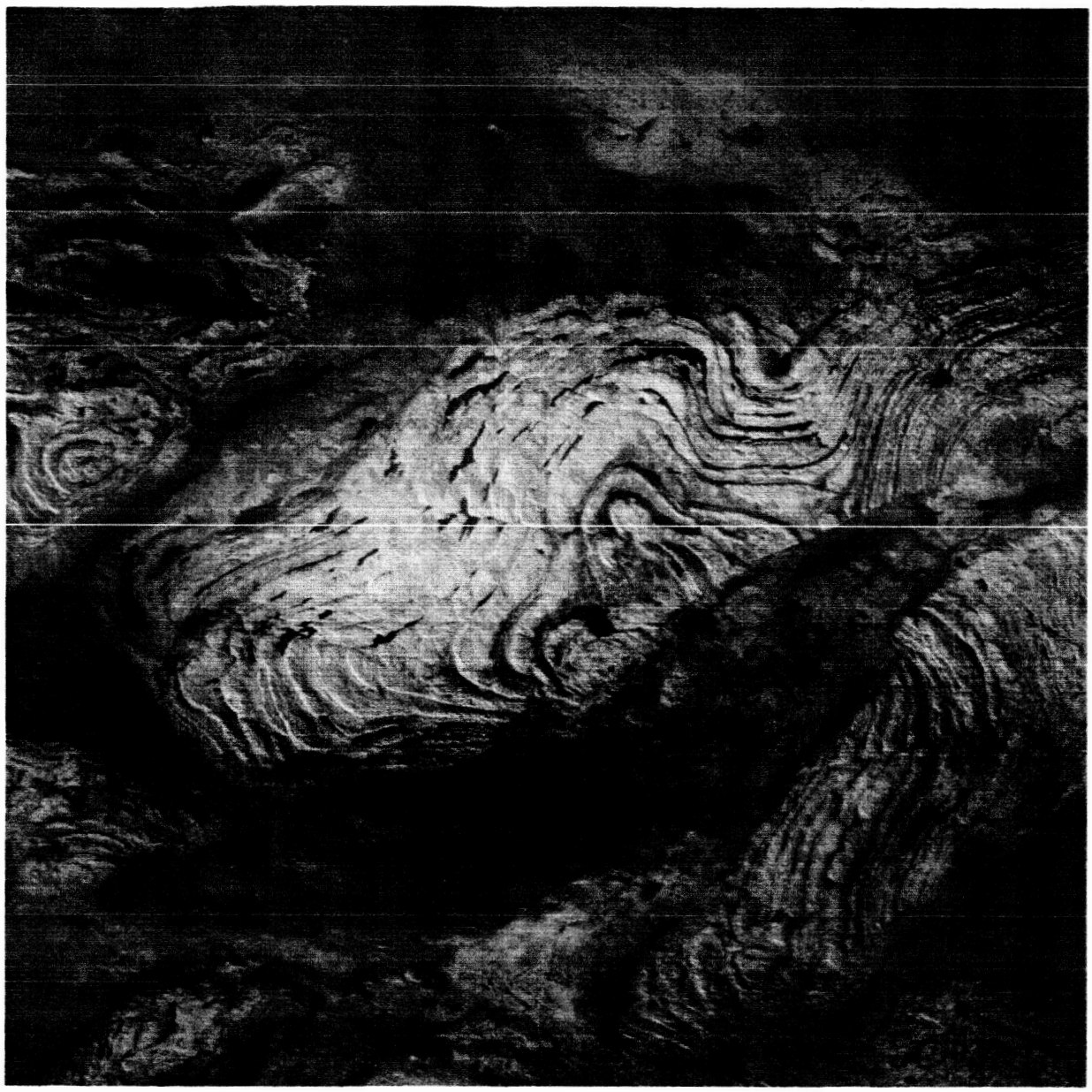
S84-17-34-098

This photograph captures a set of internal wave forms progressing through the Strait of Gibraltar into the western Mediterranean Sea. The changes in reflectance are a perfect indicator of changes in sea surface roughness. These internal "solitons" are induced by the main temperature/density discontinuity at a depth of 50 m. It is estimated that their amplitudes are on the order of tens of meters, yet there is negligible surface amplitude. The variations in surface texture allow us to see these waves transiting at depth.



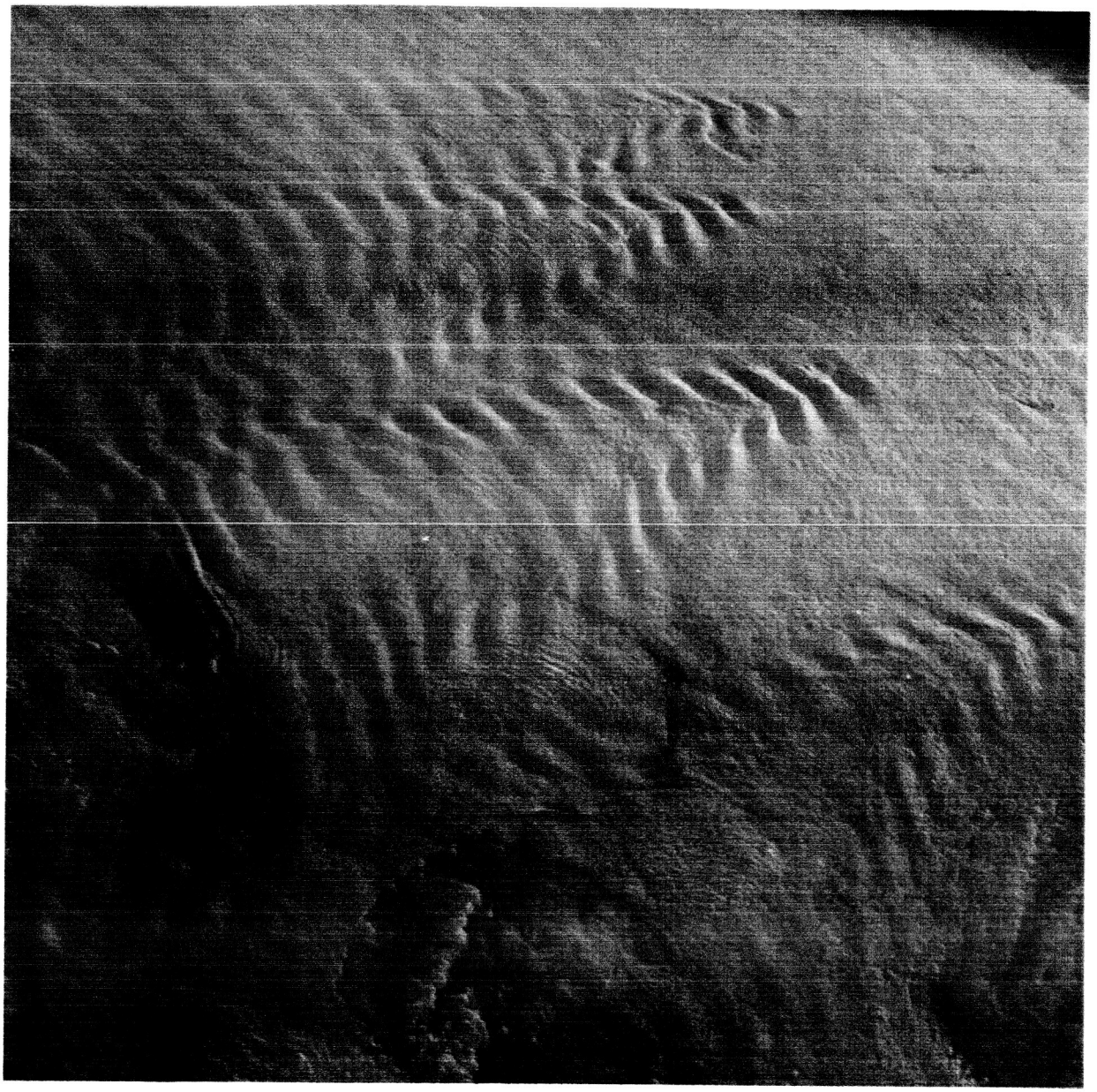
S17-120-010

The almost unexplored region of the northwestern Tibetan Plateau (34.5° N., 81.5° E.) was photographed with the Linhof Aero Technika camera using the 90-mm lens. The broad regional view provides evidence of the geological complexity of Tibet. In the upper left corner of the image, the Tarim Basin and the Cholpanglik portion of the Kunlun Mountains form the northern boundary of the plateau. Across the 5000-m-plus high plateau are many basins with internal drainage which contained very large lakes during the last ice age, as indicated by paleoshorelines at altitudes more than 100 m above the present lake surfaces. Of tectonic interest is an unnamed strike-slip fault that runs diagonally across the frame parallel to the base of the Kunlun Mountains. The colors of the original photograph indicate several areas of possible volcanism and hydrothermally altered surfaces. These areas in the region are poorly mapped.



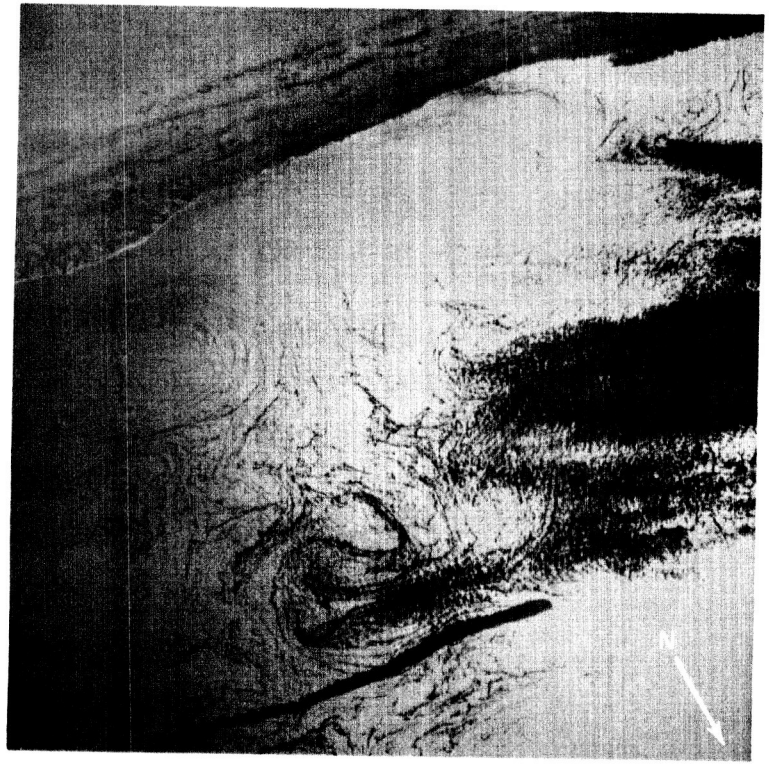
S84-17-47-059

The Precambrian shield region of northeastern Canada (56° N., 68° W.) preserves an example of ancient mountain-building perhaps resulting from the collision of two ancestral continental plates. The Labrador fold belt is an important zone for mineral exploration and a major center for the mining of iron ore. A low sun elevation and frosting of snow serve to accentuate the folded sedimentary strata and younger faults disrupting the tectonic fabric. This photograph was taken with a 250-mm lens.

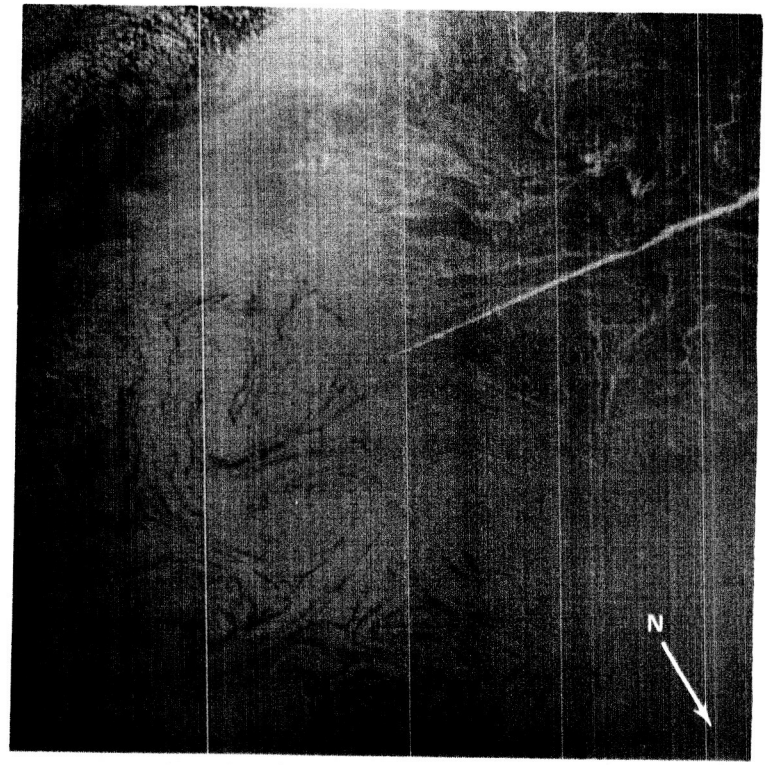


S84-17-45-114

This 100-mm low-oblique view (looking west from 56° S., 21° W.) was taken of a cloud shield as it passed over the South Sandwich Islands. The low sun angle enhances the kelvin wakes seen here for 4 of the 11 islands in the group. These volcanic islands with elevations to 1395 m perturb the otherwise unimpeded flow of circum-Antarctic cyclones in the latitudinal band of 55° to 65° S.

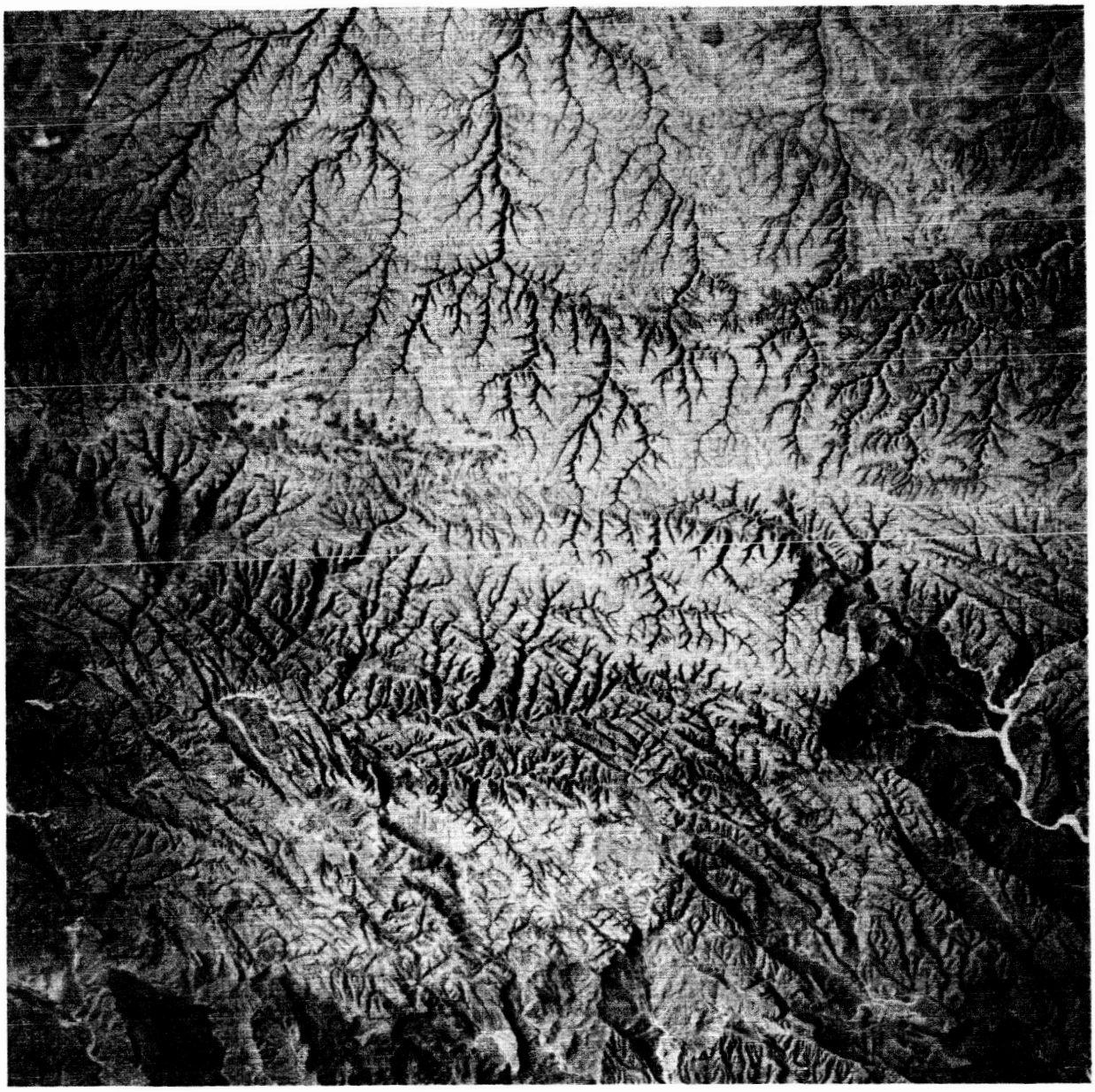


S84-17-38-063



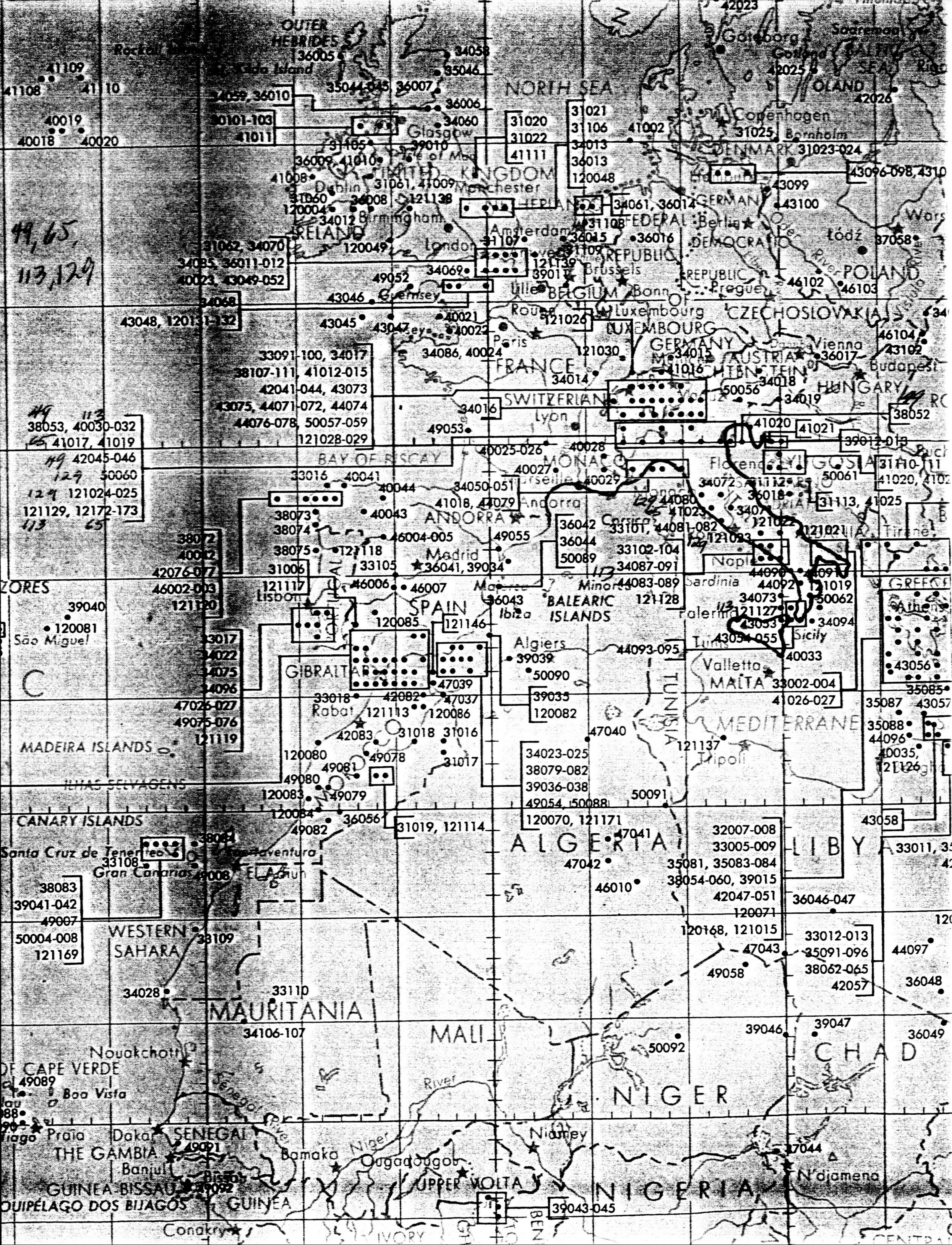
S84-17-38-062

These photographs highlight a large ship wake in the central Mediterranean Sea. The unique reflectance is similar to oil slicks seen in various oceans of the world. It is apparent that this ship is pumping a mixture of bilge water and oil overboard. With the glitter point off the center of the photograph in frame 063, the wake appears dark in relation to the surrounding ocean. A few seconds earlier (frame 062), with the glitter directly over the ship, the oil surfactant calms the wake water, providing a bright, specular reflection.



S84-17-36-037

This Hasselblad photograph, taken with the 250-mm lens, illustrates the consequences of the continuing rift faulting of the Gulf of Aden upon drainage on the Hadramaut Plateau of South Yemen (15° N., 48.5° E.). The dry river courses (wadis), which during wetter periods flowed into the interior of the Arabian Peninsula, have subsequently become structurally reoriented by normal faulting parallel to the Gulf of Aden. A fine example of stream piracy is seen along the ephemeral river eroding a course down a fault-bounded valley from the right of the photograph toward the center of the frame.



OUTER HEBRIDES
Rockall Island
St. Kilda Island
136005
34058
35046
35044-045, 36007
NORTH SEA
41109
41108
41110
34059, 36010
36006
40019
40018
40020
30101-103
41011
34060
Glasgow
31105
39010
Isle of Man
31020
31022
41111
31021
31106
34013
36013
120048
41002
Göteborg
42023
Gotland
42025
BALTIC SEA
ÖLAND
42026
Copenhagen
31025
Bornholm
DENMARK
31023-024
43096-098, 4310
36009, 41010
UNITED KINGDOM
41008
Dublin
31061, 41009
Manchester
31060
120004
36008
121138
34012
Birmingham
IRELAND
120049
London
NETHERLANDS
34061, 36014
31108
Amsterdam
36015
36016
GERMAN
FEDERAL
REPUBLIC
43099
43100
Berlin
DEMOCRATIC
REPUBLIC
Warsaw
Łódź
37058
POLAND
46102
46103
31107
121139
39017
Brussels
Bonn
BELGIUM
Lille
Prague
49, 65,
113, 129
31062, 34070
34085, 36011-012
40023, 43049-052
49052
34069
43046
Guernsey
34068
43048, 120131-132
43045
43047
Jersey
40021
40022
Rouen
121026
Luxembourg
LUXEMBOURG
CZECHOSLOVAKIA
Paris
GERMANY
34015
41016
AUSTRIA
Vienna
36017
46104
43102
Budapest
HUNGARY
121030
34086, 40024
FRANCE
34014
LIECHTENSTEIN
Vaduz
50056
34018
34019
33091-100, 34017
38107-111, 41012-015
42041-044, 43073
43075, 44071-072, 44074
44076-078, 50057-059
121028-029
34016
SWITZERLAND
Lyon
49053
38052
41020
41021
39012-013
38053, 40030-032
41017, 41019
42045-046
50060
121024-025
121129, 12172-173
BAY OF BISCAY
40025-026
40028
MONACO
40027
Marseille
40029
Florence
YUGOSLAVIA
31110-111
41020, 4102
33016
40041
40044
34050-051
41018, 44079
Andorra
ANDORRA
34072
31112
36018
34071
50061
31113, 41025
Tirane
38073
38074
40043
44080
41023
Corsica
46004-005
36042
36044
50089
33101, 44081-082
121022
121023
121021
38072
40042
38075
121118
Madrid
49055
33102-104
34087-091
Naples
42076-077
46002-003
31006
121117
33105
36041, 39034
Majorca
Minorca
44083-089
121128
Sardinia
44090
44092
40910
121019
50062
GREECE
Athens
AZORES
39040
120081
São Miguel
121120
Lisbon
46006
46007
SPAIN
36043
Ibiza
BALEARIC ISLANDS
34073
121127
Palermo
43053
43054-055
Sicily
34094
33017
34022
34075
34096
47026-027
49075-076
121119
GIBRALTAR
120085
121146
Algiers
39039
50090
44093-095
Tunis
40033
Valletta
MALTA
33002-004
41026-027
43056
35085
43057
35087
35088
44096
40035
121126
33018
Rabat
121113
42082
47039
47037
120086
39035
120082
TUNISIA
MEDITERRANEAN
42083
31018
31016
47040
121137
Tripoli
MADEIRA ISLANDS
120080
49078
31017
34023-025
38079-082
39036-038
49054, 50088
120070, 121171
ILHAS SELVAGENS
49081
49080
120083
49079
50091
CANARY ISLANDS
120084
49082
36056
31019, 121114
43058
Santa Cruz de Tenerife
38084
Fuerteventura
33108
Gran Canaria
49008
El Aaiún
ALGERIA
47041
47042
46010
32007-008
33005-009
35081, 35083-084
38054-060, 39015
42047-051
120071
120168, 121015
LIBYA
33011
36046-047
38083
39041-042
49007
50004-008
121169
WESTERN SAHARA
33109
47043
49058
33012-013
35091-096
38062-065
42057
44097
36048
34028
33110
MAURITANIA
34106-107
MALI
39046
39047
36049
50092
CHAD
Nouakchott
CAPE VERDE
49089
Boa Vista
Praia
Dakar
SENEGAL
49091
Senegal River
River
NIGER
Niamey
Niger
Bamako
THE GAMBIA
Banjul
Bissau
GUINEA-BISSAU
49092
ARQUIPÉLAGO DOS BIJAGÓS
Ouagadougou
UPPER VOLTA
37044
N'djamena
NIGERIA
GUINEA
39043-045
Conakry
IVORY

PREFACE

This document catalogs Space Shuttle hand-held Earth observations photography which was acquired during the Space Transportation System (STS) 41-G mission in October 1984. This catalog is a product of the Space Shuttle Earth Observations Project, Solar System Exploration Division, Space and Life Sciences Directorate, of the National Aeronautics and Space Administration (NASA), Lyndon B. Johnson Space Center (JSC). Contractor support has been provided by Lockheed Engineering and Management Services Company, Inc., Houston, Texas, under Contract NAS 9-15800.

Contributors to this report include but are not limited to C. A. Wood, M. R. Helfert, K. J. Hancock, and G. L. Wells of NASA/JSC; W. T. Aldinger of USN; and B. S. Nowakowski and W. F. Palmer of Lockheed Engineering and Management Services Company, Inc.

CONTENTS

TABLES

FIGURES

ACRONYMS

GMT	Greenwich Mean Time
JSC	Lyndon B. Johnson Space Center
NASA	National Aeronautics and Space Administration
OV	Orbiter Vehicle
SSEOP	Space Shuttle Earth Observations Project
STS	Space Transportation System
USN	United States Navy

1. INTRODUCTION

The Space Shuttle Earth Observations Project (SSEOP) was created to support the acquisition of Earth observations photography by Shuttle astronauts. Early activity included the formation of an Earth science investigative team to aid in the definition of photographic requirements. Project personnel coordinate and provide crew training in the Earth sciences, provide real-time support during missions, and catalog and disseminate data.

Before the launch of each Space Shuttle mission, the crew is trained in the use of basic photographic techniques, provided with manuals depicting particular sites of scientific interest, and given general briefings on the Earth sciences, including geology, oceanography, and meteorology. In each phase of training, examples of previous manned-orbital photography play an important role. These photographs aid in the description and understanding of significant physical features and also help crewmembers learn reconnaissance cues for the identification and location of noteworthy features viewed from orbit.

During each mission, project personnel monitor the Earth for special interest events, such as hurricanes and other major storms, floods, ice packs, fires, active volcanoes, and pollution problems. Special requests are forwarded to the crew through Mission Control. After the mission the geographic location and general quality of each frame are determined and reported in catalogs such as this.

2. ACQUISITION OF EARTH OBSERVATIONS PHOTOGRAPHY

The photography described in this catalog was collected using two types of cameras. NASA-modified Hasselblad 500 EL/M 70-mm cameras (fig. 2-1) were equipped with Zeiss 50-mm CF Distagon 4.0, 100-mm CF Planar 3.5, and 250-mm CF Sonnar 5.6 lenses. Kodak Ektachrome 64 Professional 5017 film was used in the two Hasselblad cameras. A Linhof Aero Technika 45 camera (fig. 2-2) was equipped with interchangeable Linhof 90-mm Super Angulon 5.6 and 250-mm Tele-Arlon 5.6 lenses. The film used for this camera was 5-in. Kodak Ektachrome 64 Professional film 5017. All the windows of the Shuttle Orbiter (fig. 2-3) were employed in the collection of the photographs.

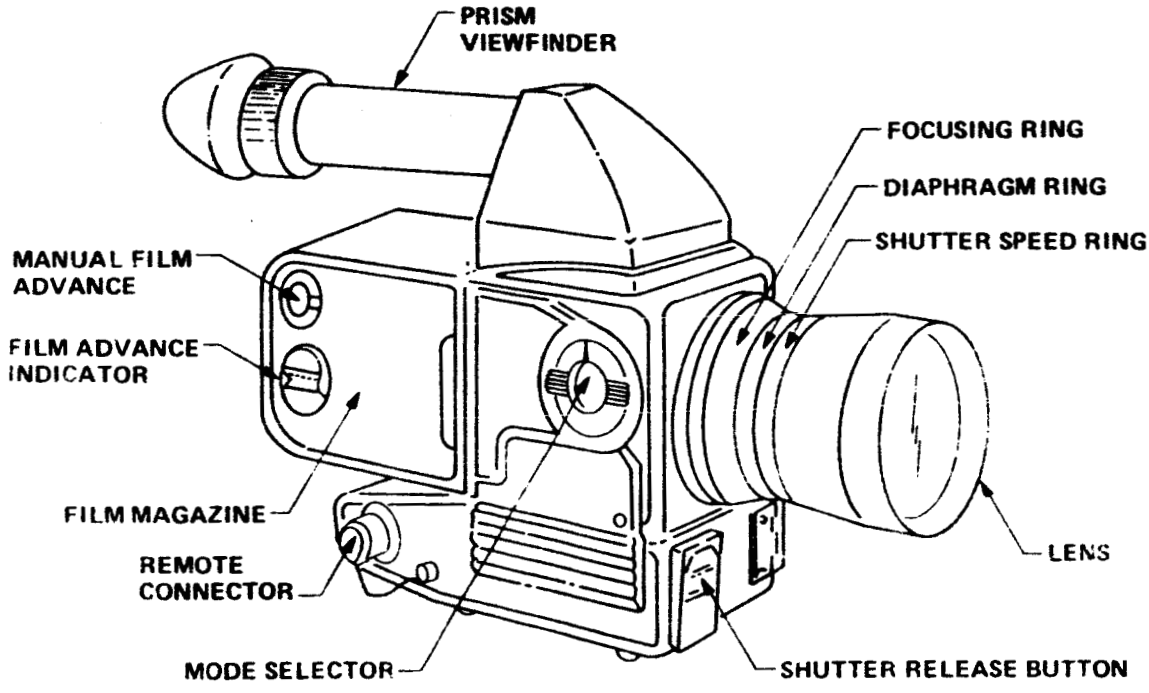
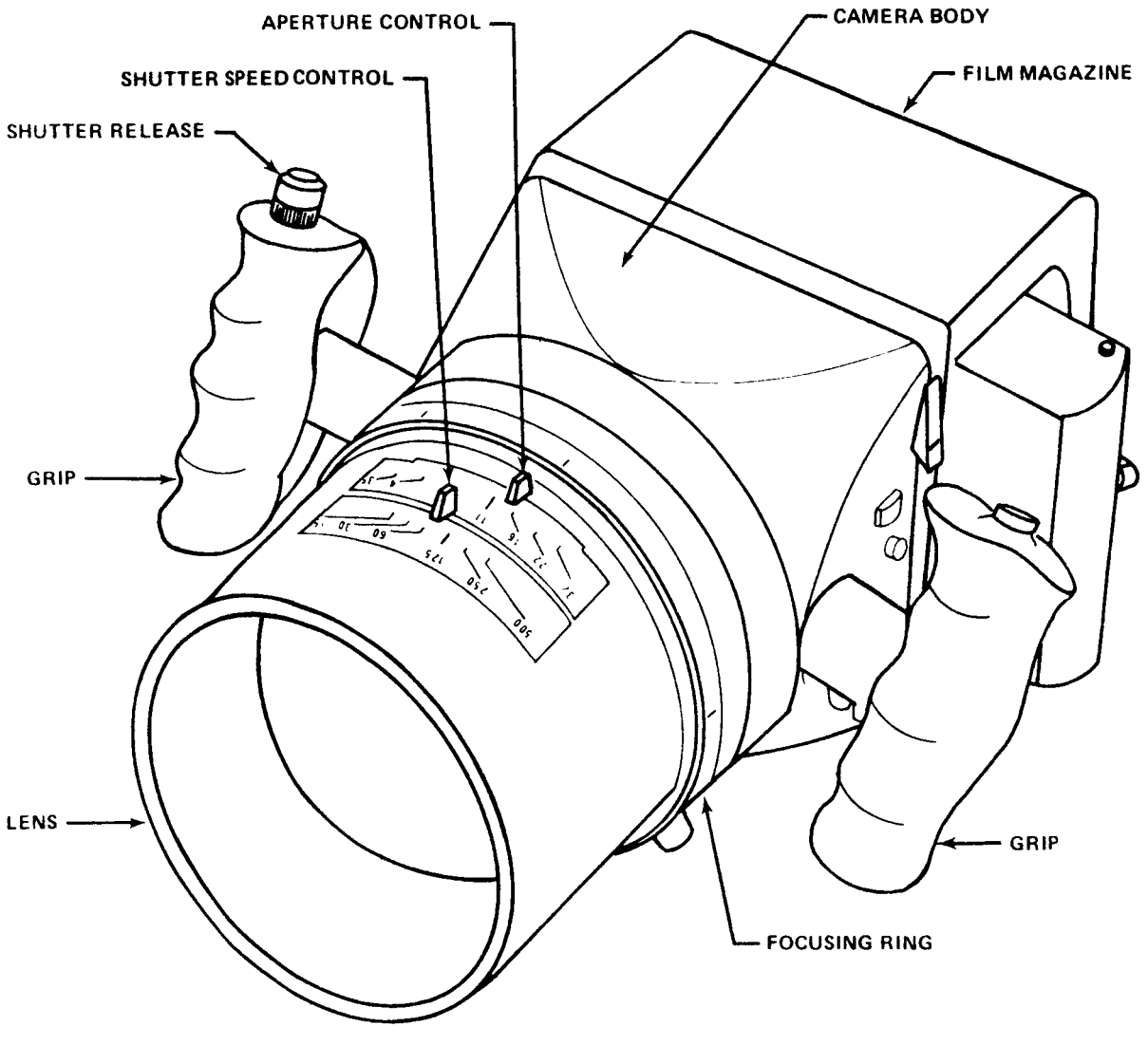


Figure 2-1.- NASA-modified Hasselblad 500 EL/M camera.



NOTE: INPUT POWER CONNECTOR IS ON BACK OF CAMERA.

Figure 2-2.- NASA-modified Linhof Aero Technika 45 camera.

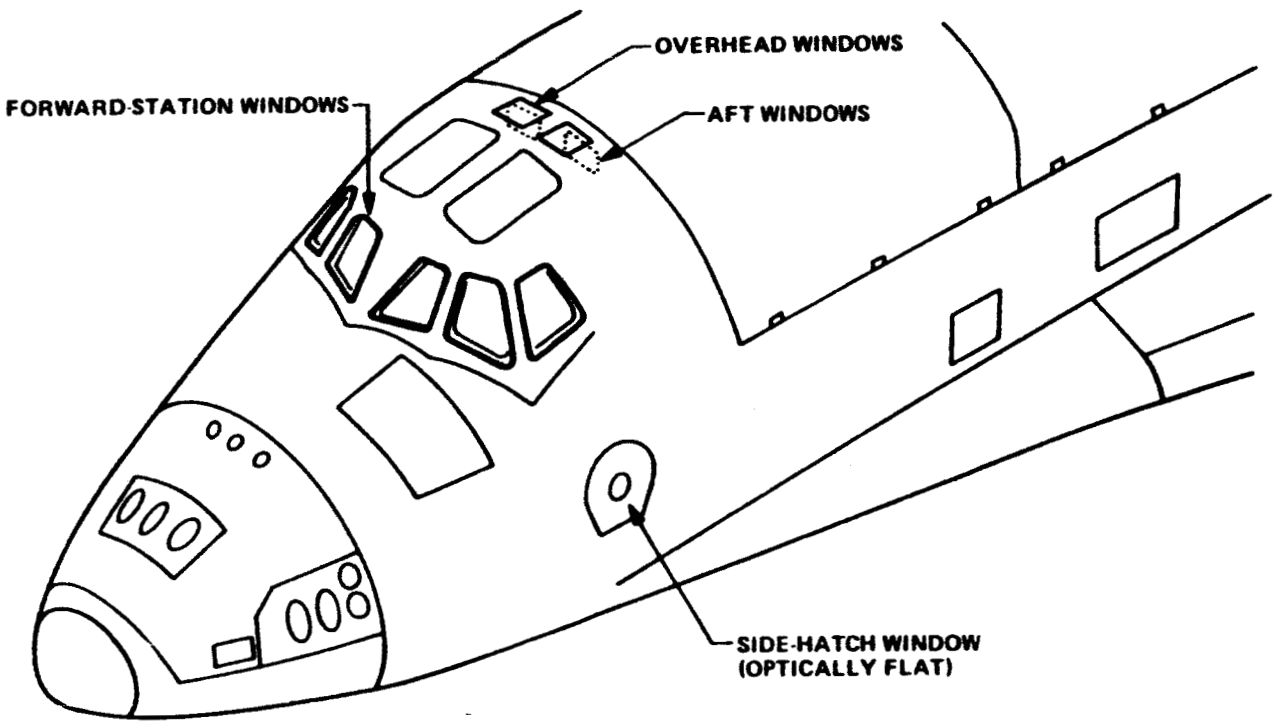


Figure 2-3.- Location of windows in the Shuttle Orbiter.

3. ORDERING PHOTOGRAPHY

Earth-viewing photography may be obtained from the following sources:

U.S. Geological Survey
EROS Data Center
Sioux Falls, SD 57198

Telephone: (605) 594-6151

Technology Applications Center
University of New Mexico
Albuquerque, NM 87131

Telephone: (505) 277-3622

NOTE

The Hasselblad photography from the STS 41-G mission was numbered using the year, STS flight number, and roll and frame numbers. For example, S84-17-36-037 is the number for frame 37 of roll 36 from flight 17 which was flown in 1984. The data recording system frame number resets to zero for each new roll; therefore, frame numbers are not unique to a specific roll. The Linhof frames have roll numbers of 120 and 121 only, and the photography was numbered without the year included (e.g., S17-120-056) and must be ordered accordingly.

APPENDIX A

STS 41-G EARTH OBSERVATIONS PHOTOGRAPHY

TABLE A-1.- MISSION DATA FOR STS 41-G

Launch:	October 5, 1984, 11:03:00 GMT
Landing:	October 13, 1984, 16:26:33 GMT
Orbits:	133
Vehicle:	Challenger (OV-099)
Initial Orbit Altitude:	190 n. mi.
Inclination:	57°
Crew:	Commander - Robert L. Crippen
	Pilot - Jon A. McBride
	Mission Specialists -
	Dr. Sally K. Ride
	Dr. Kathy D. Sullivan
	David C. Leestma
	Payload Specialists -
	Paul Scully-Power
	Dr. Marc Garneau

TABLE A-2.- EXPLANATION OF COLUMN HEADINGS USED IN TABLES A-3 AND A-4

ROLL

Number assigned to each roll of film

FRAME

Image number

GEO-NAME

Usually the country where the center point of the photograph is located; may also be the name of an island chain, ocean, sea, or a single island if this is the only land in the photograph

FEATURE

Feature of interest within the photograph (e.g., name of a specific landform, cloud pattern, etc.)

CENTER POINT LAT, LON

Latitude and longitude of the center point of photograph determined to nearest half degree

NADIR LAT, LON

Coordinates, recorded to the nearest tenth of a degree by the data recording system, representing the point directly beneath the spacecraft rather than the center point of the photograph (used only when center point cannot be plotted)

CC%

Percentage of cloud cover

DR

Look direction:

N - North
NE - Northeast
NW - Northwest
S - South
SE - Southeast
SW - Southwest
E - East
W - West

TL

Tilt of the camera from Shuttle nadir:

HO - High oblique (includes the horizon)
LO - Low oblique
NV - Near vertical

FL

Focal length of lens used:

50 mm
90 mm
100 mm
250 mm

E

Photographic exposure:

O - Overexposed
N - Normal exposure
U - Underexposed
F - Focus problems

S

Possibility of a stereopair:

N - No
Y - Yes

TABLE A-2.- EXPLANATION OF COLUMN HEADINGS USED IN TABLES A-3 AND A-4

(Concluded)

DATE

Year and Julian day the photograph was taken

GMT

Greenwich mean time of photographic acquisition

ALT

Shuttle altitude in nautical miles

AZI

Inertial azimuth of Shuttle measured clockwise from north

ELE

Sun elevation angle at Shuttle nadir

ORB

Orbit number

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY

ROLL	FRAME	GEO-NAME	FEATURE	CENTER LAT	CENTER LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
31	2	CANADA-NWT	BELCHER ISLANDS	56.0N	79.0W	55.9N	77.2W	50	W	LO	50	N	N	84 279	14:22:24	197	75	21	3
31	3	CANADA-O	CLEARWATER LAKE	56.0N	74.5W	56.1N	75.8W	60	W	LO	50	N	N	84 279	14:22:36	197	77	21	3
31	4	CANADA-O	HUDSON & JAMES BAYS	54.0N	83.0W	56.8N	69.5W	70	SW	HO	50	N	N	84 279	14:23:33	197	82	23	3
31	5	CANADA-Q	QUEBEC & ONTARIO	56.0N	75.0W	56.9N	67.4W	70	SW	HO	50	N	N	84 279	14:23:51	197	84	24	3
31	6	SPAIN	PORTUGAL/SPAIN/ATLANTIC	38.0N	7.0W	44.7N	13.0W	80	SE	HO	50	N	N	84 279	14:33:12	196	130	34	3
31	7	SPAIN	PORTUGAL/SPAIN/ATLANTIC	36.0N	5.5W	42.8N	10.2W	80	SE	HO	50	N	N	84 279	14:33:56	195	132	34	3
31	8	MOROCCO	STRAIT OF GIBRALTAR	35.5N	6.5W	41.6N	8.4W	80	SE	HO	50	N	N	84 279	14:34:25	195	133	34	3
31	9	MOROCCO	STRAIT OF GIBRALTAR	35.5N	5.5W	40.5N	7.1W	80	SE	HO	50	N	N	84 279	14:34:48	195	134	34	3
31	10	MOROCCO	STRAIT OF GIBRALTAR	35.5N	5.0W	39.5N	5.8W	60	SE	HO	50	N	N	84 279	14:35:10	195	135	34	3
31	11	MOROCCO	STRAIT OF GIBRALTAR	36.0N	4.5W	38.9N	5.1W	60	S	HO	50	N	N	84 279	14:35:23	195	135	34	3
31	12	MOROCCO	STRAIT OF GIBRALTAR	36.0N	5.0W	38.1N	4.2W	60	SW	HO	50	N	N	84 279	14:35:40	195	136	34	3
31	13	MOROCCO	STRAIT OF GIBRALTAR	35.5N	5.0W	37.3N	3.4W	60	SW	HO	50	N	N	84 279	14:35:56	194	136	34	3
31	14	MOROCCO	STRAIT OF GIBRALTAR	35.5N	5.0W	36.9N	2.9W	60	SW	HO	50	N	N	84 279	14:36: 4	194	137	34	3
31	15	MOROCCO	STRAIT OF GIBRALTAR	35.5N	6.0W	36.1N	2.1W	60	SW	HO	50	N	N	84 279	14:36:21	194	137	34	3
31	16	MOROCCO	POINT SOURCE DUST STORM	33.0N	2.5W	35.8N	1.8W	20	SW	HO	50	N	N	84 279	14:36:27	194	137	34	3
31	17	MOROCCO	POINT SOURCE DUST STORM	32.5N	2.5W	35.0N	0.9W	10	SW	HO	50	N	N	84 279	14:36:44	194	138	34	3
31	18	MOROCCO	POINT SOURCE DUST STORM	33.0N	4.0W	34.6N	0.5W	50	SW	HO	50	N	N	84 279	14:36:53	194	138	34	3
31	19	MOROCCO	POINT SOURCE DUST STORM	31.5N	6.0W	34.3N	0.3W	50	SW	HO	50	N	N	84 279	14:36:58	194	138	34	3
31	20	ENGLAND	THE WASH	54.0N	0.5W	55.1N	0.8W	50	S	LO	100	U	N	84 280	8:40:21	197	71	17	15
31	21	ENGLAND	THE WASH	53.0N	0.0	55.4N	0.5E	60	S	LO	100	N	N	84 280	8:40:34	197	73	18	15
31	22	ENGLAND	THE WASH	54.0N	0.5W	55.6N	1.7E	60	SW	LO	100	N	N	84 280	8:40:45	197	74	18	15
31	23	POLAND	BALTIC SEA/GRAVITY WAVES	55.0N	16.0E	57.0N	14.9E	30	S	LO	100	N	Y	84 280	8:42:43	197	85	22	15
31	24	POLAND	BALTIC SEA/GRAVITY WAVES	55.0N	16.0E	57.0N	15.6E	30	S	LO	100	N	Y	84 280	8:42:49	197	86	23	15
31	25	POLAND	BALTIC SEA/GRAVITY WAVES	55.0N	15.0E	57.1N	17.7E	40	SW	LO	100	N	N	84 280	8:43: 7	197	87	23	15
31	26	USSR	RYBINSKOYE RESERVOIR	58.5N	38.5E	55.9N	36.4E	15	NE	LO	100	N	N	84 280	8:45:52	197	104	28	15
31	27	USSR	RYBINSKOYE RESERVOIR	58.5N	38.5E	55.7N	38.2E	15	N	LO	100	N	N	84 280	8:46: 8	197	105	28	15
31	28	USSR	VOLGA RIVER/ROSTOV/LAKES	57.0N	39.0E	55.5N	39.3E	15	N	LO	100	N	N	84 280	8:46:19	197	108	29	15
31	29	USSR	KUYBYSHEV RES/VOLGA R	56.0N	49.0E	54.3N	44.9E	60	NE	LO	100	N	N	84 280	8:47:13	197	111	30	15
31	30	USSR	KUYBYSHEV RES/VOLGA R	55.5N	49.0E	54.0N	46.3E	60	NE	LO	100	N	N	84 280	8:47:27	197	112	30	15
31	31	USSR	KUYBYSHEV RES/VOLGA R	55.0N	49.0E	53.1N	49.5E	70	N	LO	100	N	N	84 280	8:48: 0	197	115	31	15
31	32	USSR	ARAL SEA	44.0N	58.5E	49.1N	60.2E	70	SE	LO	100	N	N	84 280	8:50: 4	197	123	34	15
31	33	USSR	KARATAU MTS/SYRDARYA R	44.0N	68.0E	44.5N	68.5E	30		NV	100	N	Y	84 280	8:52: 0	196	130	35	15
31	34	USSR	KARATAU MTS/SYRDARYA R	44.0N	68.0E	44.2N	69.0E	30		NV	100	N	Y	84 280	8:52: 7	196	130	35	15
31	35	USSR	LK KARAKUL/ZAALAYSKI MTS	39.0N	74.0E	39.7N	75.0E	30		NV	100	N	Y	84 280	8:53:48	195	135	36	15
31	36	USSR	LK KARAKUL/ZAALAYSKI MTS	39.0N	74.0E	39.2N	75.5E	30		NV	100	N	Y	84 280	8:53:57	195	135	36	15
31	37	CHINA	TARIM BASIN/YARKANT R	39.5N	78.5E	38.4N	76.5E	3		NV	100	N	N	84 280	8:54:15	195	136	36	15
31	38	CHINA	TARIM BASIN/YARKANT R	38.5N	77.5E	38.2N	76.8E	2		NV	100	N	N	84 280	8:54:20	195	136	36	15
31	39	CHINA	TARIM BASIN/YARKANT R	38.0N	77.0E	37.9N	77.0E	15		NV	100	N	N	84 280	8:54:25	195	136	36	15
31	40	CHINA	KARAKORAM RANGE	36.0N	77.0E	37.2N	77.8E	30		NV	100	N	N	84 280	8:54:40	195	136	36	15
31	41	CHINA	KARAKORAM RANGE	35.5N	77.0E	36.7N	78.4E	30		NV	100	N	N	84 280	8:54:51	195	137	36	15
31	42	CHINA	KUN-LUN MOUNTAINS/LAKES	35.0N	80.5E	35.0N	80.1E	5		NV	100	N	Y	84 280	8:55:25	195	138	36	15
31	43	CHINA	KUN-LUN MOUNTAINS/LAKES	35.0N	81.0E	34.5N	80.6E	3		NV	100	N	Y	84 280	8:55:36	195	138	36	15
31	44	CHINA	KUN-LUN MOUNTAINS/LAKES	34.5N	82.0E	33.9N	81.2E	1		NV	100	N	Y	84 280	8:55:48	194	139	36	15
31	45	CHINA	KUN-LUN MOUNTAINS/LAKES	34.0N	82.5E	33.2N	81.8E	1		NV	100	N	Y	84 280	8:56: 1	194	139	36	15
31	46	CHINA	GANGDISE RANGE/PANGONG L	33.5N	79.5E	31.9N	83.0E	1	NW	LO	100	N	N	84 280	8:56:27	194	140	36	15
31	47	NEPAL	GREAT HIMALAYA RANGE	29.0N	84.0E	31.1N	83.8E	0		NV	100	N	N	84 280	8:56:44	194	140	36	15
31	48	CHINA	GREAT HIMALAYA RANGE	29.0N	85.5E	28.4N	85.2E	5		NV	100	N	Y	84 280	8:57:16	194	141	36	15
31	49	CHINA	GREAT HIMALAYA RANGE	28.5N	86.0E	28.8N	85.7E	5		NV	100	N	Y	84 280	8:57:28	194	141	36	15
31	50	NEPAL	GREAT HIMALAYA RANGE	27.5N	86.5E	28.0N	86.3E	1		NV	100	N	Y	84 280	8:57:43	194	141	36	15
31	51	NEPAL	GREAT HIMALAYA RANGE	27.0N	87.0E	27.4N	86.8E	1		NV	100	N	Y	84 280	8:57:55	194	142	36	15

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
31	52	CHINA	HIMALAYAS/TIBET PLATEAU	31.5N	80.5E	25.8N	88.0E	5	NW	HO	100	N	N	84 280	8:58:26	193	142	35	15
31	53	INDIA	BAY OF BENGAL/OCN STRUCT	21.0N	88.0E	23.0N	90.1E	60	SW	LO	100	N	N	84 280	8:59:20	193	143	35	15
31	54	INDIA	BAY OF BENGAL/OCN STRUCT	21.0N	87.5E	21.9N	80.8E	50	W	LO	100	N	N	84 280	8:59:40	193	144	35	15
31	55	INDIA	BAY OF BENGAL/OCN STRUCT	20.0N	87.5E	20.2N	92.1E	30	NW	LO	100	N	N	84 280	9: 0:12	193	144	34	15
31	56	BANGLADESH	BAY OF BENGAL/SEDIMENT	21.5N	89.0E	18.2N	93.4E	85	NW	LO	100	N	N	84 280	9: 0:48	193	145	34	15
31	57	AUSTRALIA-WA	EXMOUTH GULF/BARROW I	21.5S	114.5E	21.8S	117.6E	15	W	LO	100	U	N	84 280	9:13: 1	193	144	12	15
31	58	AUSTRALIA-WA	LAKE NABBERU/LAKE TEAGUE	25.5S	121.0E	26.8S	121.2E	0	N	LO	100	U	N	84 280	9:14:36	193	142	8	15
31	59	AUSTRALIA-WA	VERY DARK/GRT AUST BIGHT			35.1S	128.6E	0			100	U	N	84 280	9:17:21	195	138	2	15
31	60	IRELAND	DUNDALK BAY/INTERNAL WVS	53.5N	6.0W	56.8N	10.7W	60	SW	LO	100	N	N	84 280	10:13:55	197	83	22	16
31	61	IRELAND	DUNDALK BAY/INTERNAL WVS	54.0N	6.0W	57.0N	8.6W	40	SW	LO	100	N	N	84 280	10:14:13	197	85	22	16
31	62	ENGLAND	THE WASH	51.5N	1.0E	57.0N	1.1E	60	S	LO	100	N	N	84 280	10:15:38	197	83	25	16
31	63	USSR	KERCHENSKIY ST/BLACK SEA	44.5N	37.5E	47.7N	39.7E	40	SW	LO	100	N	N	84 280	10:22:13	196	128	34	16
31	64	TURKEY	BLACK SEA/OIL SLICKS	42.0N	38.0E	45.7N	43.2E	40	SW	LO	100	N	N	84 280	10:23: 3	196	128	35	16
31	65	TURKEY	BLACK SEA TO MEDITER SEA	41.0N	40.0E	43.7N	46.4E	40	SW	HO	100	N	N	84 280	10:23:51	196	131	36	16
31	66	TURKEY	BLACK SEA TO MEDITER SEA	38.0N	40.0E	43.3N	47.0E	30	SW	HO	100	N	N	84 280	10:24: 0	196	131	36	16
31	67	TURKEY	GUNEY DOGU TOROSULAR	37.0N	37.0E	42.0N	48.8E	50	SW	HO	100	N	N	84 280	10:24:30	196	132	36	16
31	68	IRAN	KOPPEH MOUNTAINS	36.0N	58.0E	34.3N	57.6E	5	N	LO	100	N	N	84 280	10:27:13	194	138	37	16
31	69	IRAN	LAHGAR GAH MOUNTAIN	34.0N	58.5E	33.5N	58.3E	5		NV	100	N	Y	84 280	10:27:29	194	139	37	16
31	70	IRAN	LAHGAR GAH MOUNTAIN	33.5N	59.0E	32.7N	59.0E	5		NV	100	N	Y	84 280	10:27:44	194	139	37	16
31	71	IRAN	BONEDAR MOUNTAIN	32.0N	59.5E	31.8N	59.8E	3		NV	100	N	Y	84 280	10:28: 0	194	140	36	16
31	72	IRAN	BONEDAR MOUNTAIN	32.0N	60.0E	31.2N	60.4E	2		NV	100	N	Y	84 280	10:28:14	194	140	36	16
31	73	IRAN	LK SABERI/DARYCHEH LK	31.5N	61.0E	30.5N	61.0E	1		NV	100	N	Y	84 280	10:28:28	194	140	36	16
31	74	IRAN	LK SABERI/DARYCHEH LK	30.5N	61.0E	29.9N	61.6E	0		NV	100	N	Y	84 280	10:28:41	194	141	36	16
31	75	IRAN	MAKRAN RANGE/ARABIAN SEA	26.5N	61.5E	28.5N	62.7E	0	SW	LO	100	N	N	84 280	10:29: 7	194	141	36	16
31	76	IRAN	GULF OF OMAN/ARABIAN SEA	24.5N	60.5E	26.4N	64.3E	0	SW	LO	100	N	N	84 280	10:29:47	193	142	36	16
31	77	IRAN	INTERNAL WVS/FRONTAL DIS	24.5N	61.5E	26.0N	64.6E	0	SW	LO	100	N	N	84 280	10:29:55	193	142	36	16
31	78	OMAN	INTERNAL WVS/FRONTAL DIS	24.0N	62.0E	25.3N	65.1E	0	SW	LO	100	N	N	84 280	10:30: 8	193	142	36	16
31	79	OMAN	GULF OF OMAN/ARABIAN SEA	23.0N	62.0E	24.6N	65.7E	0	SW	LO	100	N	N	84 280	10:30:22	193	143	35	16
31	80	OMAN	GULF OF OMAN/ARABIAN SEA	23.0N	62.0E	24.1N	66.0E	0	SW	LO	100	N	N	84 280	10:30:31	193	143	35	16
31	81	OMAN	GULF OF OMAN/ARABIAN SEA	23.0N	62.0E	23.6N	66.5E	0	W	LO	100	N	N	84 280	10:30:42	193	143	35	16
31	82	OMAN	GULF OF OMAN/ARABIAN SEA	23.0N	62.0E	23.1N	66.8E	0	W	LO	100	N	N	84 280	10:30:50	193	143	35	16
31	83	INDIA	ARABIAN SEA/GUL OF KUTCH	22.5N	68.0E	19.6N	69.2E	10	N	LO	100	N	N	84 280	10:31:56	193	144	34	16
31	84	INDIA	RANN OF KUTCH/KUTCH PEN	23.0N	69.5E	19.5N	69.3E	15	N	LO	100	N	N	84 280	10:31:59	193	144	34	16
31	85	INDIA	GULF OF KHAMBHAT	21.0N	72.5E	18.5N	70.0E	60	NW	LO	100	N	N	84 280	10:32:17	193	144	34	16
31	86	INDIA	COASTLINE/ARABIAN SEA	22.5N	69.5E	17.0N	70.9E	20	NW	HO	100	N	N	84 280	10:32:45	192	145	33	16
31	87	INDIA	ARABIAN SEA/SHIP WAKES	20.0N	68.0E	18.4N	71.3E	40	NW	HO	100	N	N	84 280	10:32:56	192	145	33	16
31	88		VERY DARK			45.1N	73.7W				100	U		84 280	11:38:18	195	50	5	17
31	89		VERY DARK			45.6N	73.0W				100	U		84 280	11:38:29	195	50	6	17
31	90		VERY DARK			46.2N	71.8W				100	U		84 280	11:38:45	195	51	6	17
31	91		VERY DARK			46.7N	71.1W				100	U		84 280	11:38:56	195	52	7	17
31	92		VERY DARK			46.9N	70.7W				100	U		84 280	11:39: 1	195	52	7	17
31	93		VERY DARK			47.5N	69.5W				100	U		84 280	11:39:18	195	53	8	17
31	94		VERY DARK			47.9N	68.7W				100	U		84 280	11:39:28	195	54	8	17
31	95		VERY DARK			48.5N	67.6W				100	U		84 280	11:39:43	195	55	9	17
31	96	ATLANTIC OCEAN	OCCLUDED CYCLONE	54.7N	49.1W	54.7N	49.1W	90		NV	100	N	Y	84 280	11:43: 9	197	70	16	17
31	97	ATLANTIC OCEAN	OCCLUDED CYCLONE	54.9N	48.5W	54.9N	48.5W	90		NV	100	N	Y	84 280	11:43:15	197	70	17	17
31	98	ATLANTIC OCEAN	OCCLUDED CYCLONE	55.2N	48.9W	55.2N	48.9W	95		NV	100	N	Y	84 280	11:43:31	197	72	17	17
31	99	ATLANTIC OCEAN	OCCLUDED CYCLONE	55.4N	48.0W	55.4N	48.0W	95		NV	100	N	Y	84 280	11:43:38	197	72	18	17
31	100	ICELAND	CLOUDS/GREENLAND	66.0N	21.0W	57.1N	24.6W	80	NE	HO	100	N	N	84 280	11:48:49	197	91	24	17
31	101	ICELAND	CLOUDS/GREENLAND	65.0N	17.0W	57.1N	23.5W	90	NE	HO	100	N	N	84 280	11:48:59	197	92	24	17

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
31	102	SCOTLAND	MULL OF KINTYRE/CLOUDS	55.5N	5.5W	55.2N	5.7W	85		NV	100	N	Y	84 280	11:49:38	197	107	29	17
31	103	SCOTLAND	MULL OF KINTYRE/CLOUDS	55.5N	5.0W	55.0N	4.9W	85		NV	100	N	Y	84 280	11:49:46	197	108	29	17
31	104	SCOTLAND	MULL OF KINTYRE/CLOUDS	55.5N	5.5W	54.9N	4.3W	85		NV	100	N	Y	84 280	11:49:52	197	109	29	17
31	105	NORTHERN IRELAND	CLOUDS	55.0N	6.0W	54.6N	2.6W	80	W	LO	100	N	N	84 280	11:50: 8	197	110	30	17
31	106	ENGLAND	THE WASH	53.0N	0.5E	53.8N	0.5E	75		NV	100	N	N	84 280	11:50:41	197	113	31	17
31	107	ENGLAND	STRAIT OF DOVER	52.0N	2.0E	53.4N	2.0E	60	S	LO	100	N	N	84 280	11:50:56	197	114	31	17
31	108	NETHERLANDS	CLOUDS	52.4N	5.2E	52.4N	5.2E	80		NV	100	N	Y	84 280	11:51:30	197	117	32	17
31	109	NETHERLANDS	CLOUDS	52.2N	5.7E	52.2N	5.7E	80		NV	100	N	Y	84 280	11:51:36	197	117	32	17
31	110	YUGOSLAVIA	ADRIATIC SEA/OCN STRUCT	44.0N	14.5E	47.9N	16.0E	70	SW	LO	100	N	N	84 280	11:53:41	196	125	34	17
31	111	YUGOSLAVIA	ADRIATIC SEA/OCN STRUCT	44.0N	15.0E	47.6N	16.7E	70	SW	LO	100	N	N	84 280	11:53:50	196	126	34	17
31	112	YUGOSLAVIA	ADRIATIC SEA/OCN STRUCT	43.5N	15.5E	47.1N	17.6E	75	SW	LO	100	N	N	84 280	11:54: 2	196	127	35	17
31	113	YUGOSLAVIA	ADRIATIC SEA/OCN STRUCT	43.5N	16.5E	46.2N	19.1E	80	SW	LO	100	N	N	84 280	11:54:24	196	128	35	17
32	2	IRAN	PERSIAN GULF/ZAGROS MTS	27.5N	53.0E	24.3N	54.5E	20	E	LO	100	N	N	84 279	11:37: 8	193	143	31	1
32	3	IRAN	STRAIT OF HORMUZ/ISLANDS	26.5N	56.0E	22.7N	55.6E	25	E	LO	100	N	N	84 279	11:37:39	192	143	31	1
32	4		PAYLOAD BAY			52.6N	6.6W				100	U		84 279	12:58: 6	197	116	31	2
32	5		PAYLOAD BAY			52.1N	5.2W				100	U		84 279	12:58:21	197	117	32	2
32	6		PAYLOAD BAY			50.3N	0.5W				100	N		84 279	12:59:16	197	121	32	2
32	7	GREECE	PELOPONNISOS	37.0N	22.0E	34.8N	22.4E	3	N	LO	100	N	Y	84 279	13: 5:17	194	138	34	2
32	8	GREECE	SOUTHERN PELOPONNISOS	37.0N	22.0E	34.4N	22.7E	1	N	LO	100	N	Y	84 279	13: 5:24	194	138	34	2
32	9	EGYPT	NILE DELTA/LIBYAN DESERT	31.0N	30.5E	28.6N	28.0E	0	NE	LO	100	N	N	84 279	13: 7:20	193	141	33	2
32	10	EGYPT	NILE RIVER/RED SEA	23.5N	33.5E	26.9N	29.3E	30	SE	HO	100	N	N	84 279	13: 7:52	193	142	32	2
32	11	EGYPT	SINAI PENINSULA	30.0N	34.5E	28.1N	29.9E	5	N	HO	100	N	N	84 279	13: 8: 7	193	142	32	2
32	12	ETHIOPIA	AFAR TRIANGLE	13.0N	41.0E	18.0N	35.6E	8	SE	HO	100	N	N	84 279	13:10:39	192	145	30	2
32	13	ETHIOPIA	AFAR TRIANGLE	13.0N	41.0E	15.2N	37.4E	5	SE	LO	100	N	N	84 279	13:11:32	192	145	28	2
32	14	ETHIOPIA	VOLCANOS/AFRERA LAKE	13.0N	40.5E	12.2N	39.2E	1	NE	LO	100	N	N	84 279	13:12:27	192	146	27	2
32	15	ETHIOPIA	VOLCANOS/AFRERA LAKE	12.5N	41.0E	11.3N	39.8E	1	NE	LO	100	N	N	84 279	13:12:43	191	146	27	2
32	16	DJIBOUTI	ABHE BID L/TADJOURA GULF	11.5N	42.0E	9.9N	40.6E	3	NE	LO	100	N	N	84 279	13:13: 8	191	146	26	2
32	17	CANADA-NWT	BELCHER ISLANDS	56.5N	79.5W	55.7N	78.9W	50		NV	100	N	Y	84 279	14:22:10	197	74	20	3
32	18	CANADA-NWT	BELCHER ISLANDS	56.5N	79.5W	55.8N	78.4W	50		NV	100	N	Y	84 279	14:22:15	197	74	21	3
32	19	CANADA-NWT	BELCHER ISLANDS	56.5N	79.5W	55.8N	77.8W	50		NV	100	N	Y	84 279	14:22:20	197	75	21	3
32	20	CANADA-Q	CLEARWATER LAKE	56.0N	74.5W	56.3N	74.7W	50		NV	100	N	N	84 279	14:22:48	197	78	22	3
32	21	CANADA-Q	CLEARWATER LAKE	56.0N	74.5W	56.7N	70.5W	50	W	LO	100	N	N	84 279	14:23:26	197	81	23	3
32	22	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.0W	37.6N	3.6W	50	SW	LO	100	N	N	84 279	14:35:53	195	136	34	3
32	23		VERY DARK			53.4N	8.3W				100	U		84 280	8:39: 8	196	65	15	15
32	24		VERY DARK			53.7N	7.2W				100	U		84 280	8:39:19	196	66	15	15
32	25		VERY DARK			54.1N	5.3W				100	U		84 280	8:39:38	197	68	16	15
32	26		VERY DARK			54.8N	2.4W				100	U		84 280	8:40: 7	197	70	17	15
33	2	ITALY	BARI	41.0N	17.0E	41.0N	17.4E	0		NV	250	F	N	84 283	11:26:11	125	133	41	65
33	3	ITALY	TARANTO	40.5N	17.0E	40.6N	17.9E	5	W	LO	250	N	N	84 283	11:26:20	125	134	41	65
33	4	ITALY	SAN PANCRAZIO SALENTINO	40.5N	18.0E	40.2N	18.4E	5		NV	250	N	N	84 283	11:26:28	125	134	41	65
33	5	GREECE	KEFALLINIA/ITHAKI IS	38.0N	20.5E	38.2N	20.7E	0		NV	250	N	Y	84 283	11:27: 9	125	136	43	65
33	6	GREECE	KEFALLINIA/ITHAKI IS	38.0N	20.5E	38.0N	20.9E	0		NV	250	N	Y	84 283	11:27:13	125	136	43	65
33	7	GREECE	PELOPONNISOS/ARGOLIKOS B	37.5N	23.0E	36.6N	22.5E	0	NE	LO	250	F	Y	84 283	11:27:42	125	137	44	65
33	8	GREECE	PELOPONNISOS/ARGOLIKOS B	37.5N	23.0E	36.4N	22.7E	0	NE	LO	250	N	Y	84 283	11:27:46	125	137	44	65
33	9	GREECE	KITHIRO ISLAND	36.0N	23.0E	35.9N	23.2E	0		NV	250	N	N	84 283	11:27:56	124	137	44	65
33	10	MEDITERRANEAN SEA	EDDIES NEAR GREECE	35.0N	24.5E	34.8N	24.3E	0		LO	250	N	N	84 283	11:28:17	124	138	44	65
33	11	LIBYA	MEDITERRANEAN SEA EDDIES	33.0N	23.0E	34.0N	25.1E	0	SW	LO	250	N	N	84 283	11:28:33	124	138	45	65
33	12	LIBYA	MEDITERRANEAN SEA EDDIES	32.5N	23.5E	33.7N	25.3E	0	SW	LO	250	N	N	84 283	11:28:39	124	139	45	65
33	13	LIBYA	MEDITERRANEAN SEA EDDIES	32.5N	24.0E	33.0N	26.0E	0	SW	LO	250	N	N	84 283	11:28:53	124	139	45	65
33	14	EGYPT	ASWAN/LAKE NASSER	24.0N	33.0E	23.4N	33.8E	0	NW	LO	250	N	Y	84 283	11:31:53	123	143	48	65

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
33	15	EGYPT	ASWAN/LAKE NASSER	24.0N	33.0E	23.2N	34.0E	0	NW	LO	250	N	Y	84	283	11:31:58	122	143	48	65
33	16	ATLANTIC OCEAN	SHIPWAKES/OCN STRUCTURE	43.5N	8.6W	43.5N	8.6W	0		LO	250	F	N	84	283	12:54:13	126	131	39	66
33	17	PORTUGAL	LISBOA/N ATLANTIC GYRE	38.5N	9.0W	41.9N	6.3W	0	SW	LO	250	F	N	84	283	12:54:49	126	133	40	66
33	18	MOROCCO	ATLANTIC INTERNAL WVS	35.0N	7.0W	40.2N	4.1W	10	SW	LO	250	F	N	84	283	12:55:25	125	134	42	66
33	19	SPAIN	GULF OF CADIZ INTERN WVS	36.5N	7.0W	38.7N	3.5W	1	SW	LO	250	F	N	84	283	12:55:38	125	135	42	66
33	20	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.5W	36.6N	2.3W	10	SW	LO	250	F	N	84	283	12:55:57	125	135	42	66
33	21	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.5W	37.7N	1.3W	10	SW	LO	250	F	N	84	283	12:56:18	125	138	43	66
33	22	ZAMBIA	LAKE BANGWEULU	11.5S	30.0E	11.0S	32.1E	30	W	LO	250	F	N	84	283	13:11: 2	121	148	37	66
33	23	CANADA-BC	CANADIAN ROCKY MOUNTAINS	57.1N	128.6W	57.1N	126.6W	20		LO	250	F	N	84	283	17:12:22	128	89	18	69
33	24	CANADA-BC	CANADIAN ROCKY MOUNTAINS	57.0N	122.8W	57.0N	122.8W	0		NV	250	N	Y	84	283	17:12:54	128	93	18	69
33	25	CANADA-BC	CANADIAN ROCKY MOUNTAINS	57.0N	122.3W	57.0N	122.3W	2		NV	250	N	Y	84	283	17:12:58	128	93	18	69
33	26	CANADA-BC	CANADIAN ROCKY MOUNTAINS	57.0N	121.9W	57.0N	121.9W	10		NV	250	N	Y	84	283	17:13: 1	128	93	18	69
33	27	CANADA-BC	CANADIAN ROCKY MOUNTAINS	57.0N	121.5W	57.0N	121.5W	1		NV	250	N	Y	84	283	17:13: 5	128	94	18	69
33	28	CANADA-A	GRANDE PRAIRIE/SMOKY R	55.0N	118.5W	56.7N	118.9W	10	SW	LO	250	F	Y	84	283	17:13:44	128	98	20	69
33	29	CANADA-A	GRANDE PRAIRIE/SMOKY R	55.0N	118.5W	56.7N	118.5W	10	SW	LO	250	F	Y	84	283	17:13:47	128	98	20	69
33	30	CANADA-A	LESSER SLAVE LAKE	55.5N	116.0W	56.6N	115.4W	0	SW	LO	250	F	N	84	283	17:13:57	128	99	21	69
33	31	CANADA-A	LESSER SLAVE LAKE	55.5N	116.5W	56.5N	114.8W	0	SW	LO	250	F	N	84	283	17:14: 2	128	99	21	69
33	32	CANADA-A	EDMONTON/BEAVERHILL LAKE	54.0N	113.0W	56.3N	112.8W	0	SW	LO	250	N	N	84	283	17:14:19	128	101	22	69
33	33	CANADA-A	BEAVERHILL LAKE	53.5N	112.5W	56.2N	112.1W	0	SW	LO	250	N	N	84	283	17:14:25	128	102	22	69
33	34	CANADA-A	MOOSE LAKE/MURIEL LAKE	54.0N	111.0W	56.1N	110.9W	0	S	LO	250	N	N	84	283	17:14:36	128	103	23	69
33	35	CANADA-S	SQUAW RAPIDS DAM	53.5N	103.5W	55.0N	104.5W	0	SE	LO	250	U	N	84	283	17:15:34	128	108	25	69
33	36	CANADA-S	DEEP BAY IMPACT CRATER	56.5N	103.0W	54.5N	102.2W	0	NW	LO	250	N	N	84	283	17:15:56	128	110	26	69
33	37	CANADA-M	SIMONHOUSE LAKE	54.5N	101.0W	54.0N	100.1W	0	NW	LO	250	U	N	84	283	17:16:16	128	112	27	69
33	38	CANADA-M	CANADIAN SHIELD LAKES	52.3N	94.4W	52.3N	94.4W	0		LO	250	F	N	84	283	17:17:15	127	117	30	69
33	39	CANADA-M	RIVER DRAINAGE PATTERNS	52.2N	94.0W	52.2N	94.0W	1		NV	250	N	N	84	283	17:17:19	127	117	30	69
33	40	USA-MASSACHUSETTS	NANTUCKET ISLAND	41.5N	70.0W	40.1N	71.9W	50	NW	LO	250	N	N	84	283	17:22:17	125	134	42	69
33	41	USA-MASSACHUSETTS	MARTHAS VINEYARD	41.5N	70.5W	39.8N	71.5W	70	NW	LO	250	N	N	84	283	17:22:23	125	134	42	69
33	42	USA-ALASKA	ANIAKCHAK CRATER	57.0N	158.0W	56.7N	159.0W	30		NV	250	F	Y	84	283	18:39:56	128	81	12	70
33	43	USA-ALASKA	ANIAKCHAK CRATER	57.0N	158.0W	56.7N	158.5W	30		NV	250	U	Y	84	283	18:40: 0	128	81	12	70
33	44	USA-ALASKA	ANIAKCHAK CRATER	57.0N	158.0W	56.7N	158.1W	20		NV	250	U	Y	84	283	18:40: 4	128	82	12	70
33	45	USA-ALASKA	ALEUTIAN RANGE	57.0N	157.5W	56.8N	157.7W	10		NV	250	U	Y	84	283	18:40: 7	128	82	12	70
33	46	USA-ALASKA	MOUNT CHIGINAGAK	57.0N	157.0W	56.8N	156.7W	0		NV	250	U	N	84	283	18:40:16	128	83	13	70
33	47	USA-ALASKA	MOUNT PEULIK/UGASHIK LK	57.5N	156.5W	58.9N	155.1W	0		NV	250	U	N	84	283	18:40:29	128	84	13	70
33	48	USA-ALASKA	MOUNT MEGUIK	57.0N	155.0W	57.0N	153.9W	10	W	LO	250	U	Y	84	283	18:40:39	128	85	14	70
33	49	USA-ALASKA	MOUNT MEGUIK	57.0N	155.0W	57.0N	153.5W	20	W	LO	250	U	Y	84	283	18:40:43	128	86	14	70
33	50	CANADA-A	SMOKY RIVER	54.0N	119.5W	53.1N	119.8W	30	N	LO	250	U	Y	84	283	18:45:44	128	115	29	70
33	51	CANADA-A	SMOKY RIVER	54.0N	119.5W	53.0N	119.2W	10	N	LO	250	U	Y	84	283	18:45:48	128	115	29	70
33	52	CANADA-A	SMOKY RIVER	54.0N	119.0W	52.9N	119.0W	10	N	LO	250	U	N	84	283	18:45:51	128	115	29	70
33	53	USA-MISSOURI	ST LUIS	38.0N	90.0W	37.1N	91.0W	80	NE	LO	250	N	N	84	283	18:52:18	125	137	44	70
33	54	USA-FLORIDA	PENSACOLA BAY	30.5N	87.0W	31.9N	85.8W	60	SW	LO	250	N	N	84	283	18:53:59	124	140	46	70
33	55	USA-FLORIDA	CAPE SAN BLAS	30.0N	85.0W	31.0N	85.1W	40	S	LO	250	N	N	84	283	18:54:16	124	140	47	70
33	56	USA-FLORIDA	KENNEDY SPACE CENTER	28.5N	80.5W	29.8N	84.0W	60	SE	LO	250	F	N	84	283	18:54:39	124	141	47	70
33	57	USA-FLORIDA	KENNEDY SPACE CENTER	28.5N	80.5W	27.7N	82.3W	60	NE	LO	250	F	N	84	283	18:55:18	123	142	48	70
33	58	USA-FLORIDA	COASTLINE	26.5N	80.0W	26.8N	81.6W	80	E	LO	250	F	N	84	283	18:55:35	123	142	48	70
33	59	USA-FLORIDA	COASTLINE	26.0N	80.0W	26.7N	81.5W	80	E	LO	250	F	N	84	283	18:55:37	123	142	48	70
33	60	USA-FLORIDA	MIAMI	25.5N	80.0W	25.5N	80.6W	80		NV	250	F	N	84	283	18:56: 0	123	142	48	70
33	61	USA-FLORIDA	MIAMI	25.5N	80.5W	25.3N	80.4W	40		NV	250	F	N	84	283	18:56: 4	123	143	48	70
33	62	USA-FLORIDA	FLORIDA BAY	25.0N	80.5W	24.8N	80.0W	30		NV	250	F	N	84	283	18:56:13	123	143	49	70
33	63	CUBA	GUANTANAMO BAY	20.0N	75.0W	18.8N	75.9W	20	N	LO	250	F	N	84	283	18:58: 2	122	144	49	70
33	64	VENEZUELA	COASTLINE/SUNGLINT	10.4N	70.6W	10.4N	70.6W	0	SW	LO	250	F	N	84	283	19: 0:31	121	146	48	70

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
33	65	USA-OREGON	CASCADE RANGE/MOUNT HOOD	45.5N	122.0W	45.7N	125.0W	80	E	LO	250	F	N	84 283	20:18: 7	126	128	37	71
33	66	USA-OREGON	CASCADE RA/MT JEFFERSON	44.5N	122.0W	45.5N	124.7W	80	SE	LO	250	F	N	84 283	20:18:11	126	129	37	71
33	67	USA-OREGON	CASCADE RA/THREE SISTERS	44.0N	122.0W	45.2N	124.2W	70	SE	LO	250	F	N	84 283	20:18:18	126	129	38	71
33	68	USA-CALIFORNIA	OWENS VALLEY/MONO LAKE	36.5N	118.0W	42.5N	120.2W	30	SE	HO	250	F	N	84 283	20:19:19	126	132	40	71
33	69	USA-ARIZONA	LAKE MEAD/COLORADO RIVER	36.0N	114.0W	37.2N	113.6W	0	SW	LO	250	F	N	84 283	20:21:12	125	136	44	71
33	70	USA-ARIZONA	COLORADO RIVER	36.0N	113.5W	36.8N	113.2W	2	S	LO	250	F	N	84 283	20:21:20	125	137	44	71
33	71	USA-ARIZONA	COLORADO RIVER	36.0N	113.5W	36.5N	112.9W	2	SW	LO	250	F	N	84 283	20:21:26	125	137	44	71
33	72	MEXICO	RIO DE CASAS GRANDES	31.5N	108.0W	31.7N	108.3W	30		NV	250	F	N	84 283	20:22:59	124	140	47	71
33	73	MEXICO	AGUAS TERMALES	31.0N	107.0W	30.8N	107.5W	30		NV	250	F	N	84 283	20:23:17	124	140	47	71
33	74	CHILE	ANDES MOUNTAINS	31.5S	70.0W	28.4S	68.8W	0	SW	LO	250	N	Y	84 283	20:41: 3	123	141	25	71
33	75	ARGENTINA	ANDES MOUNTAINS	31.5S	70.0W	28.7S	68.6W	0	SW	LO	250	N	Y	84 283	20:41: 8	123	141	25	71
33	76	ARGENTINA	ANDES MOUNTAINS	31.5S	70.0W	28.9S	68.4W	0	SW	LO	250	N	Y	84 283	20:41:13	123	141	24	71
33	77	ARGENTINA	ANDES MOUNTAINS	31.0S	70.0W	29.7S	67.8W	0	SW	LO	250	N	N	84 283	20:41:27	123	141	24	71
33	78	ARGENTINA	ANDES MOUNTAINS	32.5S	70.0W	30.1S	67.4W	0	SW	LO	250	N	N	84 283	20:41:34	123	141	23	71
33	79	ISLA DE PASCUA	EASTER ISLAND	27.0S	109.5W	28.8S	113.7W	50	NE	LO	250	F	N	84 283	23:39: 4	123	141	25	73
33	80	ISLA DE PASCUA	EASTER ISLAND	27.0S	109.5W	29.2S	113.4W	50	NE	LO	250	F	N	84 283	23:39:11	123	141	25	73
33	81	INDIA	BANGANGA RIVER	27.0N	76.0E	26.7N	75.0E	0	NE	LO	250	N	Y	84 284	8:16: 9	123	142	50	79
33	82	INDIA	JAIPUR/BANGANGA RIVER	27.0N	76.0E	26.5N	75.2E	0	NE	LO	250	N	Y	84 284	8:16:14	123	142	50	79
33	83	INDIA	BANGANGA RIVER	27.0N	76.0E	26.3N	75.3E	0	NE	LO	250	N	Y	84 284	8:16:17	123	142	50	79
33	84	INDIA	DHUND RIVER	26.5N	76.5E	26.0N	75.6E	0	NE	LO	250	N	Y	84 284	8:16:22	123	142	50	79
33	85	AUSTRALIA	PERTH/FIRES	32.0S	116.0E	33.5S	114.8E	0	NE	LO	250	U	Y	84 284	8:34:16	124	139	23	79
33	86	AUSTRALIA	PERTH/FIRES	31.5S	116.0E	33.8S	115.1E	0	NE	LO	250	U	Y	84 284	8:34:22	124	139	22	79
33	87	AUSTRALIA	COASTLINE/VERY DARK	35.0S	117.0E	35.4S	116.7E	10		NV	250	U	N	84 284	8:34:54	124	138	21	79
33	88	AUSTRALIA	COASTLINE/VERY DARK	34.5S	118.5E	36.0S	117.3E	20	NE	LO	250	U	N	84 284	8:35: 5	124	137	20	79
33	89	IRAN	KHARK & KHARKU ISLANDS	29.0N	50.5E	29.7N	50.0E	10	SE	LO	250	U	Y	84 284	9:44:10	124	141	49	80
33	90	IRAN	KHARK & KHARKU ISLANDS	29.0N	50.5E	29.0N	50.6E	10	NW	LO	250	U	Y	84 284	9:44:23	124	141	49	80
33	91	SWITZERLAND	BRIENZER & THUNER LAKES	47.0N	7.5E	47.1N	6.5E	30	E	LO	250	F	Y	84 284	11: 7: 3	126	127	36	81
33	92	SWITZERLAND	BRIENZER & THUNER LAKES	46.5N	8.0E	46.9N	6.8E	10	E	LO	250	F	Y	84 284	11: 7: 7	126	127	36	81
33	93	SWITZERLAND	BRIENZER & THUNER LAKES	46.5N	8.0E	46.8N	7.1E	20	E	LO	250	F	Y	84 284	11: 7:10	126	127	36	81
33	94	SWITZERLAND	THE ALPS	46.5N	9.0E	46.2N	8.1E	0	E	LO	250	F	Y	84 284	11: 7:24	126	128	37	81
33	95	SWITZERLAND	THE ALPS	46.5N	9.0E	46.0N	8.4E	0	E	LO	250	F	Y	84 284	11: 7:29	126	128	37	81
33	96	SWITZERLAND	THE ALPS	46.5N	9.0E	45.8N	8.8E	0	NE	LO	250	F	Y	84 284	11: 7:34	126	128	37	81
33	97	SWITZERLAND	THE ALPS	46.0N	9.5E	45.6N	9.1E	0	NE	LO	250	F	Y	84 284	11: 7:38	126	129	37	81
33	98	SWITZERLAND	THE ALPS	46.0N	10.0E	45.5N	9.4E	0	NE	LO	250	F	Y	84 284	11: 7:42	126	129	37	81
33	99	ITALY	THE ALPS/LAGO DI GARDA	46.0N	11.0E	45.0N	10.1E	0	NE	LO	250	F	Y	84 284	11: 7:52	126	129	38	81
33	100	ITALY	THE ALPS/LAGO DI GARDA	46.0N	11.0E	44.9N	10.2E	0	NE	LO	250	F	Y	84 284	11: 7:54	126	129	38	81
33	101	ITALY	LAGO DI BOLSENA	42.0N	12.0E	42.4N	14.0E	10	SW	LO	250	F	N	84 284	11: 8:52	126	132	40	81
33	102	ITALY	GULFO DI SALERNO	40.5N	14.5E	41.7N	14.9E	40	S	LO	250	F	N	84 284	11: 9: 7	125	133	41	81
33	103	ITALY	GULFO DI SALERNO	40.5N	15.0E	41.4N	15.2E	30	S	LO	250	F	N	84 284	11: 9:12	125	133	41	81
33	104	ITALY	GULFO DI SALERNO	40.5N	15.0E	41.2N	15.6E	30	S	LO	250	F	N	84 284	11: 9:17	125	133	41	81
33	105	SPAIN	AGRICULTURE	39.8N	5.2W	39.8N	5.2W	0		LO	250	F	N	84 284	12:38:41	123	134	42	82
33	106	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.0W	39.2N	4.5W	10	SW	LO	250	F	N	84 284	12:38:53	123	135	43	82
33	107	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.5W	38.9N	4.1W	10	SW	LO	250	F	N	84 284	12:38:59	123	135	43	82
33	108	CANARY ISLANDS	HIERRO IS/ATLANTIC STRUC	27.5N	18.0W	29.0N	17.0W	10	SW	LO	250	F	N	84 284	14:11: 8	121	141	49	83
33	109	WESTERN SAHARA	ATLANTIC OCEAN/SHIPWAKES	24.5N	15.5W	25.4N	14.2W	15	SW	LO	250	F	N	84 284	14:12:14	121	142	51	83
33	110	MAURITANIA	RICHAT RING DIKE	21.0N	11.5W	22.0N	11.7W	0	S	LO	250	F	N	84 284	14:13:17	120	144	52	83
33	111	CANADA-M	LAKE WINNIPEG	53.0N	100.0W	56.8N	96.7W	10	SW	LO	250	F	N	84 284	15:27:40	125	97	17	84
33	112	CANADA-M	LAKE WINNIPEG	52.5N	99.0W	56.7N	95.5W	30	SW	LO	250	F	N	84 284	15:27:50	125	98	18	84
33	113	CANADA-NWT	BELCHER ISLANDS	56.5N	80.0W	55.0N	83.7W	20	NW	LO	250	F	N	84 284	15:29:35	125	108	23	84
34	2	TURKEY	SINOP/BLACK SEA EDDIES	42.0N	34.0E	44.0N	34.2E	10	S	LO	100	0	N	84 284	9:39:18	126	130	39	80

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
34	3	TURKEY	SINOP/BLACK SEA EDDIES	42.0N	35.0E	43.8N	34.6E	20	S	LO	100	N	Y	84 284	9:39:24	126	131	39	80
34	4	TURKEY	SINOP/BLACK SEA EDDIES	42.0N	35.5E	43.5N	35.0E	30	S	LO	100	N	Y	84 284	9:39:30	126	131	39	80
34	5	TURKEY	SINOP/BLACK SEA EDDIES	42.0N	35.5E	43.2N	35.4E	30	S	LO	100	N	N	84 284	9:39:36	126	131	40	80
34	6	TURKEY	NORTH ANATOLIAN FAULT	40.0N	38.0E	41.5N	37.7E	40	S	LO	100	N	N	84 284	9:40:13	126	133	41	80
34	7	TURKEY	NORTH ANATOLIAN FAULT	40.0N	38.0E	41.2N	38.2E	20	SE	LO	100	N	N	84 284	9:40:21	126	133	41	80
34	8	TURKEY	KEBAN RESERVOIR	39.0N	39.0E	40.8N	38.6E	0	SE	LO	100	N	N	84 284	9:40:28	126	134	42	80
34	9	UNITED ARAB EMIRATES	ABU DHABI	24.5N	54.5E	24.4N	54.1E	0		NV	100	N	N	84 284	9:45:48	123	143	51	80
34	10	OMAN	FAHUD OIL FIELD	22.5N	56.5E	22.4N	56.6E	1	E	LO	100	N	N	84 284	9:46:26	123	143	51	80
34	11	OMAN	GHABA CENTRAL	21.5N	57.0E	21.4N	58.3E	0	E	LO	100	N	N	84 284	9:46:44	123	144	51	80
34	12	CELTIC SEA	CLOUDS AND WATER	52.8N	7.0W	52.8N	7.0W	60	SW	LO	100	N	N	84 284	11: 4:22	127	116	28	81
34	13	ENGLAND	THE WASH/HUMBER	53.0N	1.0W	49.0N	2.7E	70	NW	HO	100	N	N	84 284	11: 6:13	127	124	33	81
34	14	FRANCE	CLOUDS	47.8N	5.8E	47.8N	5.6E	95			100	N	N	84 284	11: 6:50	127	126	35	81
34	15	GERMANY	BODENSEE LAKE	48.0N	9.5E	48.8N	7.1E	85	E	LO	100	N	N	84 284	11: 7:10	126	127	36	81
34	16	ITALY	CLOUDS	45.9N	8.8E	45.8N	8.6E	95			100	N	N	84 284	11: 7:31	126	128	37	81
34	17	SWITZERLAND	BRIENZER & THUNER LAKES	47.0N	8.0E	45.5N	9.2E	85	NW	LO	100	N	N	84 284	11: 7:40	126	129	37	81
34	18	AUSTRIA	THE ALPS	47.5N	14.0E	44.6N	10.7E	70	NE	HO	100	N	N	84 284	11: 8: 2	126	130	38	81
34	19	AUSTRIA	AUSTRIA/YUGOSLAVIA/ITALY	46.5N	15.0E	42.7N	13.5E	70	NE	HO	100	N	N	84 284	11: 8:44	126	132	40	81
34	20	ALBANIA	PINDUS MTS/LAKE OHRID	41.0N	20.5E	38.6N	18.7E	30	NE	LO	100	N	N	84 284	11:10:12	125	135	43	81
34	21	MADAGASCAR	FIRES/SUNGLINT/CLOUDS	13.0S	49.0E	13.0S	54.4E	50	W	HO	100	N	N	84 284	11:25:51	121	146	41	81
34	22	PORTUGAL	SIERRA MONCHIQUE	38.0N	9.0W	38.5N	3.8W	30	E	HO	100	N	N	84 284	12:39: 8	123	136	43	82
34	23	SPAIN	MEDITERRANEAN EDDIES	36.5N	2.5W	38.1N	3.2W	5	S	LO	100	N	N	84 284	12:39:15	123	136	44	82
34	24	SPAIN	MEDITERRANEAN EDDIES	36.5N	2.5W	37.8N	3.0W	5	S	LO	100	N	N	84 284	12:39:20	123	136	44	82
34	25	SPAIN	MEDITERRANEAN EDDIES	36.0N	2.5W	37.7N	2.7W	5	S	LO	100	N	N	84 284	12:39:24	122	136	44	82
34	26	SPAIN	PENIBETICO MOUNTAINS	36.5N	3.5W	37.0N	2.0W	1	SW	LO	100	N	N	84 284	12:39:38	122	137	45	82
34	27	INDIAN OCEAN	CLOUDS AND WATER	27.3S	41.7E	27.3S	41.7E	60		HO	100	N	N	84 284	12:59: 4	122	142	28	82
34	28	WESTERN SAHARA	SANDSTORM	21.5N	17.0W	26.4N	15.0W	20	SW	HO	100	N	N	84 284	14:11:55	121	142	50	83
34	29	CANADA-M	HIGH ROCK & OTHER LAKES	55.0N	101.0W	57.0N	100.7W	0	S	LO	100	N	N	84 284	15:27: 6	125	93	16	84
34	30	CANADA-NWT	BELCHER ISLANDS/EDDY	56.5N	81.0W	55.1N	83.9W	20	NE	LO	100	N	N	84 284	15:29:33	125	108	23	84
34	31	CANADA-NWT	BELCHER ISLANDS	56.0N	80.0W	54.8N	83.1W	30	NE	LO	100	N	N	84 284	15:29:41	125	109	24	84
34	32	CANADA-NWT	BELCHER ISLANDS	56.0N	80.0W	54.6N	81.7W	20	NE	LO	100	N	N	84 284	15:29:54	125	110	24	84
34	33	CANADA-NWT	BELCHER ISLANDS	56.0N	79.5W	54.3N	80.4W	20	NE	LO	100	N	N	84 284	15:30: 6	125	111	25	84
34	34	CANADA-NWT	BELCHER ISLANDS	56.0N	79.0W	54.1N	79.3W	30	NE	LO	100	N	N	84 284	15:30:17	125	112	26	84
34	35	PACIFIC OCEAN	EARTH LIMB SUNRISE	37.0N	174.1E	37.0N	174.1E	0	SE	HO	100	N	N	84 284	16:44:26	123	42	-21	85
34	36	PACIFIC OCEAN	EARTH LIMB SUNRISE	38.3N	175.5E	38.3N	175.5E	0	SE	HO	100	N	N	84 284	16:44:53	123	43	-19	85
34	37	CANADA-O	GREAT LAKES CLOUDS/GLINT	46.0N	84.5W	47.8N	85.0W	40	S	LO	100	N	N	84 284	17: 2:21	124	128	35	85
34	38	USA-NORTH CAROLINA	COASTLINE/CLOUDS	36.0N	76.0W	40.2N	73.5W	80	SW	HO	100	N	N	84 284	17: 5:12	123	134	42	85
34	39	ATLANTIC OCEAN	HURRICANE JOSEPHINE	36.8N	69.3W	36.8N	69.3W	100		HO	100	N	N	84 284	17: 6:26	123	137	45	85
34	40	ATLANTIC OCEAN	HURRICANE JOSEPHINE	32.8N	65.5W	32.8N	65.5W	95		HO	100	N	N	84 284	17: 7:42	122	139	48	85
34	41	USA-NEBRASKA	NIOBRARA RIVER/WHITE R	42.5N	103.5W	44.4N	101.8W	80	SE	LO	100	N	N	84 284	18:32:34	124	130	38	86
34	42	USA-KANSAS	OTTAWA/TOPEKA RESERVOIRS	38.5N	95.5W	40.0N	95.8W	80	S	LO	100	N	N	84 284	18:34:10	123	134	42	86
34	43	USA-FLORIDA	CAPE SAN BLAS/COASTLINE	30.0N	85.5W	33.0N	88.3W	60	SE	HO	100	N	N	84 284	18:36:31	122	139	48	86
34	44	USA-FLORIDA	MOBILE BAY/COASTLINE	30.0N	87.5W	31.7N	87.1W	70	S	LO	100	N	N	84 284	18:36:56	122	140	48	86
34	45	USA-FLORIDA	CAPE SAN BLAS/FIRE	30.0N	85.5W	29.4N	85.1W	15		NV	100	N	N	84 284	18:37:40	122	141	50	86
34	46	USA-FLORIDA	KENNEDY SPACE CENTER	28.0N	80.5W	26.5N	82.8W	80	NW	LO	100	N	N	84 284	18:38:35	121	142	51	86
34	47	USA-CALIFORNIA	SALTON SEA/PINTO MTS	34.0N	115.5W	36.3N	114.1W	15	SW	LO	100	N	N	84 284	20: 4:21	123	137	45	87
34	48	PACIFIC OCEAN	CLOUDS AND WATER	9.4S	105.7W	9.4S	105.7W	50		HO	100	N	N	84 284	21:47: 3	120	148	46	88
34	49	PACIFIC OCEAN	TEXTURAL DISCONTINUITY	10.8S	105.0W	10.8S	105.0W	30		LO	100	N	N	84 284	21:47:24	120	148	45	88
34	50	PACIFIC OCEAN	TOWERING CUMULUS	24.5S	95.9W	24.5S	95.9W	80		HO	100	N	N	84 284	21:51:34	122	143	34	88
34	51	ARGENTINA	PATAGONIA/GULF SAN JORGE	46.0S	68.0W	46.1S	72.7W	40	E	LO	100	N	N	84 284	21:58:51	126	128	11	88
34	52	ARGENTINA	PATAGONIA/GULF SAN JORGE	45.5S	67.5W	46.5S	72.0W	40	NE	HO	100	N	N	84 284	21:59: 0	128	127	11	88

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
34	53	ARGENTINA	PATAGONIA/CERRO PIEDRA	46.5S	69.5W	47.0S	71.0W	30	E	LO	100	N	N	84 284	21:59:13	126	127	10	88
34	54	ATLANTIC OCEAN	MOONRISE	50.3S	64.0W	50.3S	64.0W	30	E	HO	100	N	N	84 284	22: 0:41	126	121	5	88
34	55	FALKLAND ISLANDS	JASON ISLANDS/CARCASS I	51.5S	60.0W	51.2S	61.9W	70	E	LO	100	N	N	84 284	22: 1: 5	126	119	4	88
34	56	PACIFIC OCEAN	SPIRAL EDDIES	30.7N	154.0W	30.7N	154.0W	10	SW	LO	100	N	N	84 284	23: 3:57	122	140	49	89
34	57		UNEXPOSED			53.8S	76.2W				100	U	N	84 284	23:31:27	127	113	-0	89
34	58	SCOTLAND	GRAMPIAN	57.5N	2.0W	56.1N	1.4W	15	N	LO	100	N	N	84 285	9:15:20	126	102	19	96
34	59	SCOTLAND	FIRTH OF FORTH	56.0N	3.0W	56.0N	0.6W	20	W	LO	100	N	N	84 285	9:15:27	126	103	19	96
34	60	SCOTLAND	BORDERS	55.5N	2.5W	55.8N	0.6E	30	W	LO	100	N	N	84 285	9:15:39	126	104	20	96
34	61	NETHERLANDS	IJSSELMEER/CLOUDS/HAZE	53.0N	5.5E	54.9N	6.0E	50	SW	LO	100	N	N	84 285	9:16:28	125	109	22	96
34	62	USSR	CARPATHIAN MOUNTAINS	49.6N	22.6E	49.6N	22.6E	30			100	N	N	84 285	9:19:23	125	122	31	96
34	63	USSR	CARPATHIAN MOUNTAINS	48.3N	25.5E	48.3N	25.5E	20			100	N	N	84 285	9:19:59	124	125	33	96
34	64	USSR	CARPATHIAN MOUNTAINS	48.1N	25.9E	48.1N	25.9E	20			100	N	N	84 285	9:20: 4	124	125	34	96
34	65	EGYPT	LIBYAN DESERT/NILE RIVER	29.0N	28.0E	35.1N	43.7E	0	SW	HO	100	O	N	84 285	9:24:48	122	138	47	96
34	66	EGYPT	LIBYAN DESERT/NILE RIVER	29.0N	26.0E	34.6N	44.3E	0	SW	HO	100	O	N	84 285	9:24:59	122	138	47	96
34	67	SAUDI ARABIA	RAS TANNURAH/BAHRAIN	25.5N	50.0E	26.4N	51.3E	0	SW	LO	100	O	N	84 285	9:27:34	121	142	52	96
34	68	ENGLAND	ISLE OF WIGHT	50.5N	2.0W	50.4N	1.8W	15		NV	100	U	Y	84 285	10:47:55	125	121	30	97
34	69	ENGLAND	ISLE OF WIGHT	51.0N	1.0W	50.3N	1.3W	10		NV	100	U	Y	84 285	10:48: 0	125	121	31	97
34	70	ENGLAND	STRAIT OF DOVER	51.0N	1.0E	49.3N	0.7E	15	N	LO	100	N	N	84 285	10:48:26	125	123	32	97
34	71	ITALY	CLOUDS	42.5N	12.5E	42.5N	12.4E	95		NV	100	N	N	84 285	10:51: 8	123	132	40	97
34	72	ITALY	CLOUDS	43.0N	12.0E	42.8N	12.1E	90		NV	100	N	N	84 285	10:51: 3	123	132	40	97
34	73	SICILY	TYRRHENIAN SEA SUNGLINT	39.0N	15.0E	40.5N	15.1E	70	SW	LO	100	N	N	84 285	10:51:52	123	134	42	97
34	74	ATLANTIC OCEAN	MATURE CYCLONE	51.0N	25.7W	51.0N	25.7W	90		HO	100	N	N	84 285	12:16:33	125	120	29	98
34	75	PORTUGAL	COASTLINE/CLD VORTICIES	38.0N	10.0W	40.9N	7.9W	40	SW	HO	100	N	N	84 285	12:20:37	123	134	42	98
34	76	SPAIN	GULF OF CADIZ/CLD EDDIES	35.5N	7.0W	39.7N	8.4W	0	SW	HO	100	N	N	84 285	12:21: 2	123	135	43	98
34	77	SPAIN	ST OF GIBRALTAR EDDIES	36.0N	6.5W	39.2N	5.8W	0	SW	LO	100	N	N	84 285	12:21:13	123	135	43	98
34	78	SPAIN	ST OF GIBRALTAR EDDIES	36.0N	6.0W	38.9N	5.4W	0	SW	LO	100	N	N	84 285	12:21:19	123	135	43	98
34	79	SPAIN	ST OF GIBRALTAR EDDIES	36.0N	6.0W	38.9N	5.4W	0	SW	LO	100	N	N	84 285	12:21:20	123	135	43	98
34	80	SPAIN	ST OF GIBRALTAR EDDIES	36.0N	5.5W	38.0N	4.4W	0	SW	LO	100	N	N	84 285	12:21:38	123	136	44	98
34	81	SPAIN	ST OF GIBRALTAR EDDIES	36.0N	5.0W	37.5N	3.8W	0	SW	LO	100	N	N	84 285	12:21:48	123	136	45	98
34	82	SPAIN	STRAIT OF GIBRALTAR	36.0N	6.0W	37.2N	3.5W	0	SW	LO	100	N	N	84 285	12:21:54	123	136	45	98
34	83	MOROCCO	AL HOCEIMA	35.5N	4.0W	36.5N	2.8W	0	SW	LO	100	N	N	84 285	12:22: 7	122	137	46	98
34	84		UNEXPOSED			37.6S	6.6E				100	U	N	84 285	23:28:26	124	43	-45	105
34	85	ENGLAND	STRAIT OF DOVER	51.0N	1.5E	49.1N	0.0	50	NE	LO	250	F	N	84 286	10:30:46	124	123	31	113
34	86	FRANCE	CHARTRES	48.5N	1.0E	47.8N	2.5E	40	NW	LO	250	F	N	84 286	10:31:18	124	125	32	113
34	87	ITALY	NAPOLI/MOUNT VESUVIUS	41.0N	14.0E	40.8N	13.4E	40		NV	250	N	Y	84 286	10:33:59	123	134	41	113
34	88	ITALY	NAPOLI/MOUNT VESUVIUS	41.0N	14.0E	40.6N	13.7E	40		NV	250	N	Y	84 286	10:34:03	123	134	41	113
34	89	ITALY	NAPOLI/MOUNT VESUVIUS	41.0N	14.5E	40.2N	14.3E	40		NV	250	N	Y	84 286	10:34:13	123	134	42	113
34	90	ITALY	NAPOLI/MOUNT VESUVIUS	41.0N	14.5E	40.0N	14.4E	50		NV	250	N	Y	84 286	10:34:16	123	134	42	113
34	91	ITALY	NAPOLI/MOUNT VESUVIUS	40.5N	14.5E	39.9N	14.6E	50		NV	250	N	Y	84 286	10:34:19	123	134	42	113
34	92	SICILY	MOUNT ETNA SMOKE/CATANIA	37.5N	15.0E	38.7N	16.0E	20		NV	250	N	Y	84 286	10:34:44	123	135	43	113
34	93	SICILY	MOUNT ETNA SMOKE/CATANIA	37.5N	15.0E	38.4N	16.3E	20		NV	250	N	Y	84 286	10:34:49	123	136	44	113
34	94	IONIAN SEA	WATER AND CLOUDS	38.1N	16.6E	38.1N	16.6E	10		NV	250	N	N	84 286	10:34:55	123	136	44	113
34	95	MADAGASCAR	BANC INTERMEDIARE EDDIES	12.5S	48.5W	12.7S	51.7E	10	SW	LO	250	N	N	84 286	10:50:20	120	146	52	113
34	96	PORTUGAL	LISBOA	38.5N	9.0W	38.7N	6.5W	5	E	LO	250	F	N	84 286	12: 3:36	123	135	43	114
34	97	SPAIN	SHIP WAKE/OCN STRUCTURE	36.5N	6.5W	38.0N	5.6W	0	SW	LO	250	F	N	84 286	12: 3:52	122	136	44	114
34	98	SPAIN	STRAIT OF GIBRALTAR EDDY	36.0N	5.0W	37.3N	4.9W	15	SW	LO	250	F	N	84 286	12: 4: 6	122	136	45	114
34	99	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.5W	35.9N	3.5W	5	W	LO	250	F	N	84 286	12: 4:33	122	137	46	114
34	100	AZORES	ILHA DE SAO MIGUEL	38.0N	25.5W	36.7N	26.8W	20	NE	LO	250	F	Y	84 286	13:33:11	122	137	45	115
34	101	AZORES	ILHA DE SAO MIGUEL	38.0N	26.0W	36.4N	26.6W	15	NE	LO	250	F	Y	84 286	13:33:16	122	137	46	115
34	102	AZORES	ILHA DE SAO MIGUEL	38.0N	26.0W	36.2N	26.3W	20	N	LO	250	F	N	84 286	13:33:21	122	137	46	115

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
34	103	AZORES	ILHA DE SAO MIGUEL	38.0N	26.0W	35.1N	25.2W	30	NW	LO	250	F	N	84 286	13:33:43	122	138	47	115
34	104	AZORES	ILHA DE SAO MIGUEL	38.0N	25.5W	34.5N	24.6W	30	NW	LO	250	F	N	84 286	13:33:54	122	138	47	115
34	105		FILE			26.1N	17.3W				250	N	N	84 286	13:36:35	121	142	55	115
34	106	MAURITANIA	DHAR ADRAR	20.0N	13.0W	19.9N	12.9W	0		NV	250	N	Y	84 286	13:38:28	120	144	58	115
34	107	MAURITANIA	DHAR ADRAR	20.0N	13.0W	19.7N	12.8W	0		NV	250	N	Y	84 286	13:38:31	120	144	58	115
34	108	IVORY COAST	ABIDJAN/TREICHVILLE/CLDS	5.0N	4.0W	3.6N	2.9W	80	NW	LO	250	N	N	84 286	13:43:17	119	148	61	115
34	109	CANADA-Q	PIPMUACAN RESERVOIR	49.5N	70.5W	50.4N	70.6W	30		NV	100	U	Y	84 286	14:56:50	124	121	28	116
34	110	CANADA-Q	PIPMUACAN RESERVOIR	49.5N	70.5W	50.2N	70.3W	30		NV	100	U	Y	84 286	14:56:54	124	121	29	116
34	111	CANADA-Q	PIPMUACAN RESERVOIR	49.5N	70.5W	50.0N	69.7W	30		NV	100	U	Y	84 286	14:57: 1	124	122	29	116
34	112	CANADA-PEI	PRINCE EDWARD ISLAND	46.5N	63.5W			30	SW	LO	100	N	N						116
34	113	CANADA-NS	CHIGNECTO BAY SUNGLINT	46.0N	64.5W			50	SW	LO	100	N	N						116
35	2	EQUADOR	ISLA PUNA/GUAYAQUIL GULF	3.0S	80.5W	3.6S	79.0W	50	NW	LO	250	F	N	84 280	21:18: 0	139	148	26	23
35	3	EQUADOR	ANDES MTS/VERY DARK	4.2S	78.7W	4.2S	78.7W	70		NV	250	F	Y	84 280	21:18:10	139	148	26	23
35	4	PERU	ANDES MTS/VERY DARK	4.7S	78.4W	4.7S	78.4W	70		NV	250	F	Y	84 280	21:18:18	139	148	26	23
35	5	PERU	ANDES MTS/VERY DARK	4.9S	78.3W	4.9S	78.3W	70		NV	250	F	Y	84 280	21:18:22	139	148	25	23
35	6	PERU	RIO MARANON/RIO SANTIAGO	4.5S	77.5W	5.7S	77.8W	5	N	LO	250	U	N	84 280	21:18:37	138	148	25	23
35	7	PERU	COAST/RIO CHUQUICARA	8.5S	78.5W	7.9S	78.5W	40	SW	LO	250	F	N	84 280	21:19:15	138	148	24	23
35	8	PERU	CORD ORIENTAL/FIRES	9.6S	75.5W	9.6S	75.5W	30		NV	250	F	Y	84 280	21:19:45	138	148	23	23
35	9	PERU	CORD ORIENTAL/FIRES	9.8S	75.4W	9.8S	75.4W	30		NV	250	F	Y	84 280	21:19:49	138	148	23	23
35	10	PERU	CORD ORIENTAL/FIRES	10.0S	75.3W	10.0S	75.3W	30		NV	250	F	Y	84 280	21:19:53	139	148	22	23
35	11	PERU	CORDILLERA ORIENTAL	10.8S	74.8W	10.8S	74.8W	30		NV	250	F	N	84 280	21:20: 8	139	148	22	23
35	12	PERU	CORDILLERA VILCABAMBA	12.1S	74.0W	12.1S	74.0W	25		NV	250	F	Y	84 280	21:20:30	139	148	21	23
35	13	PERU	CORDILLERA VILCABAMBA	12.2S	73.9W	12.2S	73.9W	25		NV	250	F	Y	84 280	21:20:33	139	148	21	23
35	14	PERU	CORDILLERA VILCABAMBA	13.2S	73.3W	13.2S	73.3W	25		NV	250	F	Y	84 280	21:20:51	140	145	20	23
35	15	PERU	CORDILLERA VILCABAMBA	13.4S	73.2W	13.4S	73.2W	40		NV	250	F	Y	84 280	21:20:54	140	145	20	23
35	16	PERU	CORDILLERA VILCABAMBA	13.6S	73.1W	13.6S	73.1W	30		NV	250	F	Y	84 280	21:20:57	140	145	20	23
35	17	PERU	NEVADO COROPUNA	15.5S	72.5W	14.2S	72.7W	30	S	LO	250	F	N	84 280	21:21: 8	140	145	20	23
35	18	PERU	NEVADO AMPATO	16.0S	72.0W	15.2S	72.1W	30	S	LO	250	F	Y	84 280	21:21:26	140	145	19	23
35	19	PERU	NEVADO AMPATO	16.0S	72.0W	15.4S	72.0W	20	S	LO	250	F	Y	84 280	21:21:30	140	145	19	23
35	20	PERU	NEVADO AMPATO	16.0S	72.0W	15.7S	71.8W	20		NV	250	F	Y	84 280	21:21:35	140	145	19	23
35	21	PERU	NEVADO CHACHANI/AREQUIPA	16.0S	71.5W	16.6S	71.2W	10		NV	250	F	Y	84 280	21:21:52	140	145	18	23
35	22	PERU	NEVADO CHACHANI/AREQUIPA	16.0S	71.5W	16.8S	71.1W	5		NV	250	F	Y	84 280	21:21:55	140	145	18	23
35	23	PERU	AREQUIPA	16.5S	71.5W	17.0S	71.0W	1		NV	250	F	Y	84 280	21:2 :58	140	.5	18	23
35	24	BOLIVIA	VOLCANOS AND SALARS	21.0S	68.0W	20.7S	68.5W	10		NV	250	F	Y	84 280	21:23: 6	140	144	15	23
35	25	BOLIVIA	VOLCANOS AND SALARS	21.0S	68.0W	20.9S	68.3W	10		NV	250	F	Y	84 280	21:23:10	140	144	15	23
35	26	BOLIVIA	VOLCANOS AND SALARS	21.5S	68.0W	21.2S	68.2W	5		NV	250	F	Y	84 280	21:23:14	140	144	15	23
35	27	BOLIVIA	VOLCANOS AND SALARS	21.5S	68.0W	21.3S	68.1W	5		NV	250	F	Y	84 280	21:23:17	140	144	15	23
35	28	BOLIVIA	VOLCANOS AND SALARS	21.5S	68.5W	21.5S	67.8W	5		NV	250	F	Y	84 280	21:23:21	140	144	15	23
35	29		UNDEREXPOSED			32.5S	59.2W				250	U	N	84 280	21:26:48	142	139	6	23
35	30		UNDEREXPOSED			33.2S	58.6W				250	U	N	84 280	21:27: 1	142	139	6	23
35	31		UNDEREXPOSED			33.7S	58.1W				250	U	N	84 280	21:27:12	142	139	5	23
35	32	URUGUAY	PUNTA DEL ESTE	35.0S	55.0W	36.7S	55.1W	0	NW	LO	250	F	N	84 280	21:28:11	142	137	3	23
35	33	URUGUAY	CABO SANTA MARIA	34.5S	54.0W	37.2S	54.6W	0	NW	LO	250	F	N	84 280	21:28:21	143	138	2	23
35	34	USSR	KAMCHATKA PEN/VOLCANOS	56.5N	159.9E	56.5N	159.9E	0		NV	250	F	N	84 280	22:22:26	145	79	19	24
35	35	USSR	KAMCHATKA PEN/VOLCANOS	56.8N	161.1E	56.8N	161.1E	0		NV	250	F	N	84 280	22:22:38	145	80	19	24
35	36	USSR	KAMCHATKA PEN/KAVACHA B	57.0N	157.0E	56.8N	163.3E	30	W	LO	250	F	N	84 280	22:22:55	145	82	20	24
35	37	PRIBILOF ISLANDS	SAINT GEORGE ISLAND	56.5N	170.0W	55.8N	170.8W	40	NE	LO	250	F	N	84 280	22:26:38	145	104	28	24
35	38	SHUMAGIN ISLANDS	NAGAI ISLAND/BIRD ISLAND	55.0N	160.0W	54.0N	162.0W	60	NE	LO	250	F	N	84 280	22:28: 0	145	112	30	24
35	39	SHUMAGIN ISLANDS	NAGAI,BIRD,CHERNABURA IS	55.0N	160.0W	53.9N	161.5W	50	NE	LO	250	F	N	84 280	22:28: 5	145	112	30	24
35	40	PACIFIC OCEAN	CLOUDS AND WATER	47.5N	144.8W	47.5N	144.8W	60			250	F	N	84 280	22:31:15	144	126	35	24

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
35	41	PACIFIC OCEAN	CLOUDS AND WATER	45.2N	140.8W	45.2N	140.8W	15			250	N	N	84 280	22:32:11	144	129	36	24
35	42	PACIFIC OCEAN	CLOUDS AND WATER	36.6N	129.8W	36.6N	129.8W	60			250	N	N	84 280	22:35:16	142	137	38	24
35	43	USSR	GORA KONDER CRATER	57.5N	134.5E	56.8N	137.9E	10	NW	LO	250	N	N	84 280	23:52: 9	145	80	19	25
35	44	SCOTLAND	ARBROATH/COAST	56.5N	2.5W	56.8N	2.4W	40		NV	250	N	Y	84 281	10:22: 4	146	96	24	32
35	45	SCOTLAND	ARBROATH/COAST	56.5N	2.5W	56.8N	1.5W	50		NV	250	N	Y	84 281	10:22:11	146	97	24	32
35	46	SCOTLAND	ABERDEEN/GRAMPIAN MTS	57.0N	2.5W	56.7N	0.7W	10	W	LO	250	N	N	84 281	10:22:18	146	98	25	32
35	47	ROMANIA	DANUBE RIVER MOUTH	45.0N	29.0E	47.5N	33.0E	40		LO	250	O	Y	84 281	10:28: 6	144	126	35	32
35	48	ROMANIA	DANUBE RIVER MOUTH	44.5N	28.5E	47.4N	33.2E	40		LO	250	O	Y	84 281	10:28: 9	144	126	35	32
35	49	ROMANIA	DANUBE RIVER MOUTH	44.0N	28.5E	47.2N	33.4E	40		LO	250	O	Y	84 281	10:28:12	144	126	35	32
35	50	USSR	BLACK SEA FRONTAL DISCON	44.5N	33.0E	46.7N	34.4E	0	SE	LO	250	F	N	84 281	10:28:25	144	127	36	32
35	51	TURKEY	BLACK SEA EDDIES	41.5N	37.5E	43.7N	39.2E	15	SE	LO	250	F	N	84 281	10:29:35	144	131	37	32
35	52	TURKEY	BLACK SEA EDDIES	41.0N	38.0E	43.4N	39.8E	1	SE	LO	250	F	N	84 281	10:29:43	144	131	37	32
35	53	TURKEY	LAKE VAN EDDIES	38.5N	43.0E	40.8N	43.3E	0	S		LO 250	U	N	84 281	10:30:40	143	134	38	32
35	54	TURKEY	LAKE VAN EDDIES	38.5N	43.0E	40.1N	44.2E	0	S		LO 250	U	N	84 281	10:30:55	143	134	38	32
35	55	IRAN	LAKE ORUMIYEH/REZAIYEH	37.5N	45.5E	39.4N	45.0E	0	S		LO 250	U	N	84 281	10:31: 9	143	135	39	32
35	56	IRAN	COAST/PERSIAN GULF	29.0N	50.5E	32.3N	52.3E	0	SW	LO	250	O	N	84 281	10:33:32	142	139	40	32
35	57	IRAN	PERSIAN G OIL FIRE-SLICK	30.0N	50.0E	31.9N	52.7E	1	SW	LO	250	O	N	84 281	10:33:40	142	140	40	32
35	58	IRAN	PERSIAN GULF OIL SLICKS	29.0N	50.5E	30.9N	53.6E	0	SW	LO	250	O	N	84 281	10:34: 0	142	140	40	32
35	59	UNITED ARAB EMIRATES	COAST/PERSIAN GULF/FIRES	24.5N	52.5E	29.6N	54.7E	0	SW	LO	250	O	N	84 281	10:34:25	141	141	40	32
35	60	UNITED ARAB EMIRATES	COAST/PERSIAN GULF	24.5N	52.0E	29.1N	55.1E	0	SW	LO	250	O	N	84 281	10:34:35	141	141	40	32
35	61	OMAN	RUUS AL JIBAL/HORMUZ STR	26.5N	56.5E	28.2N	55.8E	0	SE	LO	250	F	N	84 281	10:34:51	141	141	40	32
35	62	OMAN	RUUS AL JIBAL/HORMUZ STR	26.0N	56.0E	28.0N	56.0E	10	S	LO	250	N	N	84 281	10:34:56	141	141	40	32
35	63	SAUDI ARABIA	PERSIAN GULF OIL SLICKS	26.5N	54.5E	27.6N	56.3E	0	SW	LO	250	F	N	84 281	10:35: 3	141	142	40	32
35	64	IRAN	QESHM/STR OF HORMUZ STRU	26.5N	55.0E	27.1N	56.7E	0	SW	LO	250	F	N	84 281	10:35:12	141	142	40	32
35	65	SIRRI ISLAND	PERSIAN GULF OIL PATCHES	25.5N	54.5E	26.7N	57.0E	0	SW	LO	250	F	N	84 281	10:35:19	141	142	40	32
35	66	OMAN	COASTLINE	25.4N	58.0E	25.4N	58.0E	0		LO	250	N	N	84 281	10:35:44	141	142	40	32
35	67	OMAN	METRAH/SHIPS IN OMAN GUL	24.0N	58.5E	24.7N	58.6E	0	S	LO	250	F	N	84 281	10:35:57	141	143	40	32
35	68	OMAN	SAND DUNES	23.4N	59.5E	23.4N	59.5E	0		LO	250	F	Y	84 281	10:36:21	141	143	40	32
35	69	OMAN	COAST/AL MASIRAH	20.5N	58.5E	22.5N	60.2E	0	SW	LO	250	F	N	84 281	10:36:38	140	143	39	32
35	70	OMAN	MASIRAH GULF	20.0N	58.0E	22.1N	60.4E	0	SW	LO	250	F	N	84 281	10:36:45	140	144	39	32
35	71	OMAN	AL MASIRAH/ARABIAN SEA	20.5N	59.0E	21.6N	60.8E	0	SW	LO	250	F	N	84 281	10:36:54	140	144	39	32
35	72	OMAN	SHIPWAKES OFF AL MASIRAH	20.5N	59.0E	21.2N	61.0E	0	SW	LO	250	F	N	84 281	10:37: 1	140	144	39	32
35	73	OMAN	AL MASIRAH/MASIRAH GULF	20.0N	58.5E	21.0N	61.2E	0	W	LO	250	F	N	84 281	10:37: 6	140	144	39	32
35	74	OMAN	KURIA MURIA BAY/ISLANDS	16.0N	55.0E	19.7N	62.1E	10	SW	HO	250	F	N	84 281	10:37:29	140	144	39	32
35	75	MALDIVES	HADDUMMATI ATOLL	2.0N	73.5E	3.2N	72.1E	5		NV	250	F	N	84 281	10:42:24	139	146	33	32
35	76	CANADA-N	ISLAND OF NEWFOUNDLAND	48.5N	56.5W	51.9N	66.1W	50	SE	HO	250	F	N	84 281	11:45:29	141	61	9	33
35	77		OUT OF FOCUS			55.5N	52.0W				250	F	N	84 281	11:47:49	140	73	15	33
35	78	GREENLAND	KONG FREDERIK VI KYST	62.5N	43.0W	57.0N	36.5W	30	NW	LO	250	F	N	84 281	11:50: 4	139	86	20	33
35	79	GREENLAND	KONG FREDERIK VI KYST	63.5N	41.5W	57.0N	36.2W	50	NW	LO	250	F	N	84 281	11:50: 7	139	87	21	33
35	80	GREENLAND	KONG FREDERIK VI KYST	65.0N	40.0W	57.1N	35.5W	60	NW	HO	250	F	N	84 281	11:50:13	139	87	21	33
35	81	GREECE	MESSINIAKOS BAY EDDIES	36.5N	22.0E	38.0N	23.8E	0	SW	LO	250	F	N	84 281	12: 1:12	129	136	39	33
35	82	ANDIKTHIRON CHANNEL	EDDIES NEAR GREECE	37.6N	24.3E	37.6N	24.3E	0	SW	LO	250	F	N	84 281	12: 1:21	129	136	39	33
35	83	GREECE	ANDIKITHIRON CHAN EDDIES	35.5N	23.0E	37.1N	24.8E	0	SW	LO	250	F	N	84 281	12: 1:30	128	136	39	33
35	84	GREECE	ANDIKITHIRON CHAN EDDIES	35.5N	23.0E	36.9N	25.1E	0	SW	LO	250	F	N	84 281	12: 1:35	128	137	39	33
35	85	GREECE	MEDITERRANEAN EDDIES	35.0N	23.5E	36.7N	25.3E	0	SW	LO	250	F	N	84 281	12: 1:39	128	137	39	33
35	86	GREECE	MEDITERRANEAN EDDIES	34.5N	24.0E	36.4N	25.5E	0	SW	LO	250	F	N	84 281	12: 1:44	128	137	39	33
35	87	MEDITERRANEAN SEA	EDDIES NEAR LIBYAN COAST	34.0N	21.0E	36.2N	25.8E	0	SW	LO	250	F	N	84 281	12: 1:49	128	137	39	33
35	88	MEDITERRANEAN SEA	EDDIES NEAR LIBYAN COAST	33.5N	21.5E	35.8N	26.2E	0	SW	LO	250	F	N	84 281	12: 1:57	128	137	40	33
35	89	MEDITERRANEAN SEA	EDDIES NEAR LIBYAN COAST	33.5N	22.5E	35.3N	26.7E	0	SW	LO	250	F	N	84 281	12: 2: 6	128	138	40	33
35	90	MEDITERRANEAN SEA	EDDIES NEAR LIBYAN COAST	33.0N	22.5E	35.0N	27.0E	0	SW	LO	250	F	N	84 281	12: 2:12	128	138	40	33

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
35	91	LIBYA	MEDITER SPIRAL EDDY FLD	32.0N	25.0E	34.6N	27.4E	0	SW	LO	250	F	N	84 281	12: 2:20	128	138	40	33
35	92	EGYPT	MEDITER SPIRAL EDDY FLD	32.0N	25.5E	34.3N	27.7E	0	SW	LO	250	F	N	84 281	12: 2:28	127	138	40	33
35	93	EGYPT	MEDITER SPIRAL EDDY FLD	32.0N	26.5E	33.9N	28.1E	0	SW	LO	250	F	N	84 281	12: 2:35	127	139	40	33
35	94	EGYPT	MEDITER SPIRAL EDDY FLD	32.0N	26.0E	33.5N	28.5E	0	SW	LO	250	F	N	84 281	12: 2:43	127	139	40	33
35	95	EGYPT	MEDITER SPIRAL EDDY FLD	31.5N	27.0E	32.8N	29.1E	0	SW	LO	250	F	N	84 281	12: 2:55	127	139	40	33
35	96	EGYPT	ABUHASHIFA BAY EDDIES	31.5N	27.5E	32.5N	29.4E	0	SW	LO	250	F	N	84 281	12: 3: 2	127	139	40	33
35	97	EGYPT	NILE RIVER-LUXOR BEND	26.0N	32.5E	26.7N	34.3E	2	SW	LO	250	F	N	84 281	12: 4:51	125	142	40	33
35	98	EGYPT	GULF OF SUEZ/RED SEA	27.5N	34.0E	22.0N	37.7E	5	NW	HO	250	F	N	84 281	12: 6:18	124	144	40	33
35	99	SUDAN	RED SEA OIL SLICKS	19.5N	37.5E	19.8N	39.2E	0	W	LO	250	F	N	84 281	12: 6:57	123	144	39	33
35	100	SAUDI ARABIA	COAST/QUTU I/SUBSURF STR	19.0N	41.0E	17.6N	40.7E	2	NE	LO	250	F	N	84 281	12: 7:38	122	145	39	33
35	101	ETHIOPIA	ISLANDS/CORAL REEFS	15.5N	40.5E	15.5N	42.1E	0	W	LO	250	F	N	84 281	12: 8:15	122	145	38	33
35	102	ETHIOPIA	AFAR DEPRESSION	12.0N	41.5E	11.8N	44.3E	5	W	LO	250	F	N	84 281	12: 9:18	121	146	37	33
35	103	DJIBOUTI	AFAR DEPRESSION	12.0N	42.0E	11.6N	44.5E	5	W	LO	250	F	N	84 281	12: 9:24	121	146	37	33
35	104	DJIBOUTI	AFAR DEPRESSION/LK ASSAL	11.5N	42.5E	11.5N	44.6E	5	W	LO	250	F	N	84 281	12: 9:27	121	146	37	33
35	105	ETHIOPIA	AFAR DEPRESSION/LK ABBE	11.5N	41.5E	11.2N	44.7E	5	W	LO	250	F	N	84 281	12: 9:31	121	146	37	33
35	106	DJIBOUTI	AFAR DEPRESSION/LK ABBE	11.0N	41.5E	11.1N	44.8E	10	W	LO	250	F	N	84 281	12: 9:34	121	146	37	33
35	107	DJIBOUTI	AFAR DEPRESSION	11.0N	42.0E	10.8N	44.8E	5	W	LO	250	F	N	84 281	12: 9:37	121	146	37	33
35	108	SOMALIA	AFAR DEPRESSION	10.5N	43.0E	10.7N	45.0E	1	W	LO	250	F	N	84 281	12: 9:40	121	146	37	33
35	109	ETHIOPIA	AFAR DEPRESSION	10.5N	42.0E	10.5N	45.1E	15	W	LO	250	F	N	84 281	12: 9:44	121	146	36	33
35	110	ETHIOPIA	AFAR DEPRESSION/AHMAR MT	9.5N	42.0E	10.3N	45.2E	20	W	LO	250	F	N	84 281	12: 9:47	121	146	36	33
35	111	ETHIOPIA	AFAR DEPRESSION/AHMAR MT	9.5N	43.0E	10.2N	45.3E	0	W	LO	250	F	N	84 281	12: 9:50	121	146	36	33
35	112	DJIBOUTI	AFAR DEPRESSION	11.5N	42.5E	7.9N	46.7E	15	NW	LO	250	F	N	84 281	12:10:30	121	146	35	33
35	113	MASCARENE ISLANDS	RODRIGUEZ I/LAGOON TOPOG	20.0S	63.5E	19.1S	62.8E	10	NW	LO	250	F	N	84 281	12:18:28	120	144	20	33
36	2		OUT OF FOCUS/VERY DARK			45.0N	73.9W				250	U	N	84 280	11:38:18	195	50	5	17
36	3		OUT OF FOCUS/VERY DARK			45.9N	72.3W				250	U	N	84 280	11:38:39	195	51	6	17
36	4		OUT OF FOCUS/VERY DARK			46.8N	71.1W				250	U	N	84 280	11:38:56	195	52	7	17
36	5	OUTER HEBRIDES	NORTH UIST	57.5N	7.5W	55.9N	9.8W	60	NE	LO	250	N	N	84 280	11:48: 1	197	104	28	17
36	6	SCOTLAND	CUMULUS WAVE PATTERN	56.0N	2.5W	55.3N	6.4W	80		LO	250	N	Y	84 280	11:49:33	197	107	29	17
36	7	SCOTLAND	CUMULUS WAVE PATTERN	56.5N	2.5W	55.1N	5.3W	80		LO	250	N	Y	84 280	11:49:43	197	108	29	17
36	8	IRELAND	DUBLIN/COASTLINE/CLOUDS	53.0N	6.0W	54.8N	3.8W	60	SW	LO	250	N	N	84 280	11:49:57	197	109	29	17
36	9	NORTHERN IRELAND	BELFAST	54.5N	5.5W	54.7N	3.1W	70	SW	LO	250	N	N	84 280	11:50: 4	197	109	30	17
36	10	SCOTLAND	CUMULUS WAVE PATTERN	56.0N	3.0W	54.4N	1.8W	80	NW	LO	250	N	N	84 280	11:50:17	197	111	30	17
36	11	ENGLAND	STRAIT OF DOVER	51.5N	1.5E	53.8N	0.3E	30	SE	LO	250	N	N	84 280	11:50:39	197	112	30	17
36	12	ENGLAND	STRAIT OF DOVER	51.0N	1.5E	53.6N	1.1E	30	SE	LO	250	N	N	84 280	11:50:48	197	113	31	17
36	13	ENGLAND	THE WASH	53.0N	0.5E	53.3N	2.1E	30	SW	LO	250	N	N	84 280	11:50:58	197	114	31	17
36	14	NETHERLANDS	IJSSELMEER/CLOUDS	53.0N	5.0E	52.3N	5.3E	70	N	LO	250	N	N	84 280	11:51:33	197	117	32	17
36	15	NETHERLANDS	COASTLINE/CLOUDS	52.0N	4.0E	52.0N	6.5E	80	W	LO	250	N	N	84 280	11:51:46	197	118	32	17
36	16	NETHERLANDS	COASTLINE/CLOUDS	51.7N	7.3E	51.7N	7.3E	90	W	LO	250	N	N	84 280	11:51:55	197	118	32	17
36	17	AUSTRIA	LAKE NEUSIEDLER	48.0N	17.0E	47.2N	17.4E	30	N	LO	250	N	N	84 280	11:54: 1	196	126	35	17
36	18	YUGOSLAVIA	ADRIATIC SEA EDDIES	43.0N	15.5E	46.3N	19.1E	30	SW	LO	250	N	N	84 280	11:54:24	196	128	35	17
36	19	GREECE	THERMAIKOS BAY EDDIES	40.0N	23.0E	42.9N	24.3E	5	SW	LO	250	N	N	84 280	11:55:43	196	132	36	17
36	20	GREECE	THERMAIKOS BAY EDDIES	40.0N	23.5E	41.8N	25.9E	5	SW	LO	250	N	N	84 280	11:56: 9	195	133	36	17
36	21	GREECE	AEGEAN SEA SPIRAL EDDIES	38.5N	24.5E	40.9N	27.0E	0	SW	LO	250	N	N	84 280	11:56:29	195	134	36	17
36	22	GREECE	AEGEAN SEA SPIRAL EDDIES	38.5N	26.0E	40.3N	27.7E	0	SW	LO	250	N	N	84 280	11:56:41	195	134	36	17
36	23	CRETE	MEDITER INTERNAL WAVES	34.0N	24.0E	36.5N	28.9E	0	SW	LO	250	N	N	84 280	11:57:21	195	136	37	17
36	24	CYPRUS	OLYMPUS MOUNTAIN	35.0N	32.5E	35.4N	33.2E	1	SW	LO	250	N	Y	84 280	11:58:24	195	138	37	17
36	25	CYPRUS	OLYMPUS MOUNTAIN	35.0N	33.0E	35.2N	33.4E	1	SW	LO	250	N	Y	84 280	11:58:29	194	138	37	17
36	26	CYPRUS	OLYMPUS MOUNTAIN	35.0N	33.0E	35.0N	33.6E	1	SW	LO	250	N	Y	84 280	11:58:33	194	138	37	17
36	27	LEBANON	BEIRUT/LEBANON MOUNTAINS	33.5N	35.5E	33.5N	35.1E	0		NV	250	N	Y	84 280	11:59: 3	194	139	37	17
36	28	LEBANON	BEIRUT/LEBANON MOUNTAINS	33.5N	35.5E	33.4N	35.2E	0		NV	250	N	Y	84 280	11:59: 6	194	139	37	17

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
36	29	LEBANON	LEBANON MOUNTAINS	33.5N	36.0E	33.2N	35.4E	0		NV	250	N	Y	84 280	11:59:10	194	139	37	17
36	30	SYRIA	ABAL AN NUSAYRIYAH/FIRES	36.0N	36.5E	32.0N	36.5E	2	N	LO	250	F	N	84 280	11:59:34	194	140	37	17
36	31	SYRIA	LAKE ASSAD	36.0N	38.5E	31.6N	36.9E	0	NE	LO	250	N	N	84 280	11:59:42	194	140	37	17
36	32	SAUDI ARABIA	AL HURRAH	31.0N	38.5E	30.2N	38.0E	0		NV	250	N	Y	84 280	12: 0: 8	194	140	37	17
36	33	SAUDI ARABIA	AL HURRAH	31.0N	38.5E	30.0N	38.2E	0		NV	250	N	Y	84 280	12: 0:12	194	141	37	17
36	34	SAUDI ARABIA	RED SEA INTERNAL WAVES	26.5N	36.0E	28.2N	39.7E	0		LO	250	N	N	84 280	12: 0:47	194	141	36	17
36	35	SOUTH YEMEN	WAHIDI/DISSECTED PLATEAU	15.5N	48.0E	15.9N	48.4E	0		NV	250	F	N	84 280	12: 4:39	192	145	33	17
36	36	SOUTH YEMEN	WAHIDI/DISSECTED PLATEAU	15.0N	48.5E	15.5N	48.6E	0		NV	250	N	N	84 280	12: 4:46	192	145	33	17
36	37	SOUTH YEMEN	WAHIDI/DISSECTED PLATEAU	15.0N	48.5E	15.2N	48.8E	0		NV	250	N	N	84 280	12: 4:52	192	145	33	17
36	38	SOUTH YEMEN	WAHIDI/DISSECTED PLATEAU	14.5N	49.0E	14.8N	49.1E	0		NV	250	N	N	84 280	12: 5: 0	192	145	33	17
36	39	SOMALIA	AL BARI	11.5N	51.0E	11.4N	51.1E	0		NV	250	N	N	84 280	12: 6: 1	192	146	32	17
36	40	SOMALIA	AL BARI	11.5N	51.0E	11.2N	51.3E	0		NV	250	N	N	84 280	12: 6: 6	192	146	32	17
36	41	SPAIN	RIO EBRO MOUTH/SEDIMENT	40.5N	1.0E	42.3N	1.9E	10	SW	LO	250	F	N	84 280	13:27:30	196	132	36	18
36	42	SPAIN	VALENCIA	39.5N	0.5E	41.4N	3.1E	1	SW	LO	250	N	N	84 280	13:27:50	195	133	36	18
36	43	BALEARIC ISLANDS	IBIZA/MEDITERRANEAN STRU	38.5N	1.5E	41.1N	3.6E	30	SW	LO	250	N	N	84 280	13:27:58	195	133	36	18
36	44	SPAIN	VALENCIA	39.5N	0.5E	40.3N	4.5E	2	SW	LO	250	N	N	84 280	13:28:14	195	134	36	18
36	45		OUT OF FOCUS			36.8N	8.6E				250	F	N	84 280	13:29:30	195	137	37	18
36	46	LIBYA	WAW AN NAMUS	25.0N	17.5E	25.7N	18.4E	0		NV	250	N	Y	84 280	13:33: 9	193	142	36	18
36	47	LIBYA	WAW AN NAMUS	25.0N	17.5E	25.5N	18.5E	0		NV	250	N	Y	84 280	13:33:12	193	142	36	18
36	48	LIBYA	SARIR OF SARRA/AIRSTRIP	21.0N	23.0E	20.1N	22.4E	0	N	LO	250	N	N	84 280	13:34:54	193	144	35	18
36	49	LIBYA	SARIR OF SARRA	19.5N	22.8E	19.5N	22.8E	0		LO	250	N	N	84 280	13:35: 6	193	144	35	18
36	50		VERY DARK			3.9N	32.3E				250	U	Y	84 280	13:39:52	192	146	29	18
36	51		VERY DARK			3.6N	32.5E				250	U	Y	84 280	13:39:56	192	146	28	18
36	52	USA-MONTANA	ROCKY MOUNTAINS/DARK	48.6N	113.9W	48.6N	113.9W	1		LO	250	U	Y	84 280	14:42:53	195	55	8	19
36	53	USA-MONTANA	ROCKY MOUNTAINS/DARK	48.7N	113.6W	48.7N	113.6W	10		LO	250	U	Y	84 280	14:42:57	195	55	9	19
36	54	GREENLAND	FREDERIKSHABS ICEFIELD	63.5N	49.0W	53.4N	44.6W	50		HO	250	N	N	84 280	14:54: 1	197	114	31	19
36	55	GREENLAND	SOUTHERN COASTLINE	60.5N	44.0W	53.0N	43.1W	70		LO	250	N	N	84 280	14:54:17	197	115	31	19
36	56	ATLANTIC OCEAN	WHITECAPS	30.0N	8.2W	30.0N	8.2W	2	W	LO	250	N	N	84 280	15: 3:19	194	141	37	19
36	57		VERY DARK			26.6S	28.1E				250	U	N	84 280	15:20:46	193	142	10	19
36	58		VERY DARK			28.0S	29.2E				250	U	N	84 280	15:21:13	193	141	9	19
36	59		VERY DARK			28.3S	29.5E				250	U	N	84 280	15:21:20	194	141	8	19
36	60		VERY DARK			28.6S	29.8E				250	U	N	84 280	15:21:26	194	141	8	19
36	61		VERY DARK			28.9S	30.0E				250	U	N	84 280	15:21:32	194	141	8	19
36	62		VERY DARK			29.2S	30.2E				250	U	N	84 280	15:21:37	194	141	8	19
36	63		VERY DARK			29.6S	30.4E				250	U	N	84 280	15:21:42	194	141	7	19
36	64		VERY DARK			54.8N	118.2W				250	U	N	84 280	16:17:56	187	70	16	20
36	65		SIR-B ANTENNA LATCH			56.5N	107.6W				250	N	N	84 280	16:19:34	197	78	20	20
36	66		OUT OF FOCUS			54.6N	95.8W				250	F	N	84 280	17:56:19	197	110	30	21
36	67		OUT OF FOCUS			51.6N	85.2W				250	F	N	84 280	17:58:11	197	119	32	21
36	68		OUT OF FOCUS			50.2N	81.7W				250	F	N	84 280	17:58:53	197	121	33	21
36	69		OUT OF FOCUS			46.4N	74.0W				250	F	N	84 280	18: 0:34	196	128	35	21
36	70		OUT OF FOCUS			45.3N	72.1W				250	F	N	84 280	18: 1: 1	196	129	36	21
36	71		OUT OF FOCUS			44.3N	70.5W				250	F	N	84 280	18: 1:25	196	130	36	21
36	72		OUT OF FOCUS			43.7N	69.7W				250	F	N	84 280	18: 1:37	196	131	36	21
36	73		OUT OF FOCUS			43.0N	68.7W				250	F	N	84 280	18: 1:53	196	131	36	21
36	74		OUT OF FOCUS			42.1N	67.4W				250	F	N	84 280	18: 2:14	196	132	37	21
36	75		OUT OF FOCUS			41.3N	66.4W				250	F	N	84 280	18: 2:32	195	133	37	21
36	76		OUT OF FOCUS			38.3N	62.7W				250	F	N	84 280	18: 3:37	195	136	37	21
36	77		OUT OF FOCUS			35.4N	59.6W				250	F	N	84 280	18: 4:37	195	138	37	21
36	78		OUT OF FOCUS			25.3N	50.9W				250	F	N	84 280	18: 7:56	193	143	37	21

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
36	79		OUT OF FOCUS			2.4N	36.4W				250	F	N	84	280	19:14:56	192	146	29	21
36	80	BRAZIL	SOUTH ATLANTIC/COASTLINE	5.0S	39.0W	2.6S	33.6W	50	SW	LO	250	F	N	84	280	19:16:29	192	146	26	21
36	81	BRAZIL	SOUTH ATLANTIC/COASTLINE	13.0S	38.5W	10.4S	29.0W	60	SW	HO	250	F	N	84	280	19:18:52	192	146	21	21
36	82	USA-ALASKA	HAGEMEISTER ISLAND	59.0N	160.5W	55.0N	164.4W	60	NE	LO	250	F	N	84	280	19:21: 5	197	71	18	22
36	83	USA-ALASKA	CP FAIRWEATHER/ELIAS MTS	59.0N	138.0W	57.1N	141.1W	80	NE	LO	250	F	N	84	280	19:24:33	197	91	23	22
36	84	USA-ALASKA	CP FAIRWEATHER/ELIAS MTS	59.0N	136.0W	57.0N	137.0W	80	NE	LO	250	F	N	84	280	19:25: 8	197	94	25	22
36	85		OUT OF FOCUS			56.5N	131.2W				250	F	N	84	280	19:25:59	197	98	26	22
36	86	CANADA-A	GULL LK/SYLVAN LK/AG	52.5N	114.0W	53.5N	114.6W	2	S	LO	250	F	N	84	280	19:28:37	197	113	31	22
36	87	CANADA-S	OLD WIVES LAKE/AG	50.0N	108.0W	51.0N	107.1W	2	S	LO	250	F	N	84	280	19:30: 0	197	120	33	22
36	88	USA-FLORIDA	INDIAN RIVER/STUART	27.0N	80.0W	28.3N	77.3W	60	SW	LO	250	F	N	84	280	19:38:12	192	141	38	22
36	89	BAHAMAS	MAYAGUANA ISLAND	22.5N	73.0W	24.6N	73.6W	30	S	LO	250	F	N	84	280	19:38:43	190	143	37	22
36	90	DOMINICAN REPUBLIC	BAHIA DE OCOA	18.0N	70.5W	21.2N	71.2W	20	S	LO	250	F	N	84	280	19:40:47	189	144	36	22
36	91	DOMINICAN REPUBLIC	BAHIA DE OCOA	18.0N	70.5W	21.0N	71.0W	10	S	LO	250	F	N	84	280	19:40:52	189	144	36	22
36	92	CARIBBEAN SEA	MOONRISE	17.7N	68.8W	17.7N	68.8W	40		HO	250	F	N	84	280	19:41:52	188	145	35	22
36	93		ORBITAL REFUELING SYSTEM			6.5S	54.5W				250	N	N	84	280	19:48:15	177	146	24	22
36	94	USA-IDAHO	ANDERSON RANCH RESERVOIR	43.5N	115.0W	43.4N	115.3W	50		NV	250	N	N	84	280	21: 3:24	143	131	36	23
36	95	USA-IDAHO	CRATERS OF MOON NATL MON	43.0N	113.5W	41.9N	113.3W	0		NV	250	N	N	84	280	21: 3:57	143	133	37	23
36	96	USA-UTAH	GREAT SALT LAKE (NORTH)	41.5N	113.0W	41.2N	112.4W	5		NV	250	N	N	84	280	21: 4:12	143	133	37	23
36	97	USA-UTAH	GREAT SALT LAKE (SOUTH)	41.0N	112.5W	40.4N	111.3W	10		NV	250	N	N	84	280	21: 4:30	143	134	37	23
36	98	USA-UTAH	SAN RAFAEL RIVER	38.5N	110.8W	38.7N	109.2W	5		NV	250	N	N	84	280	21: 5: 6	143	135	37	23
36	99	USA-UTAH	GREEN R,COLO R JUNCTION	38.0N	110.0W	38.3N	108.8W	1		NV	250	N	Y	84	280	21: 5:14	143	136	38	23
36	100	USA-UTAH	GREEN R,COLO R JUNCTION	38.0N	110.0W	38.0N	108.5W	2		NV	250	N	Y	84	280	21: 5:20	142	136	38	23
36	101	USA-UTAH	LAKE POWELL	37.0N	111.0W	37.3N	107.7W	20	SW	LO	250	N	N	84	280	21: 5:35	142	136	38	23
36	102	USA-TEXAS	PECOS/PECOS RIVER	31.0N	103.5W	32.6N	103.1W	40	S	LO	250	N	N	84	280	21: 7: 7	142	139	38	23
36	103	USA-TEXAS	OZONA/PECOS RIVER	30.5N	101.5W	30.9N	101.5W	15		NV	250	N	N	84	280	21: 7:40	141	140	38	23
36	104	USA-TEXAS	AMISTAD RESERVOIR	29.5N	101.0W	29.6N	100.4W	40		NV	250	N	N	84	280	21: 8: 6	141	141	38	23
36	105	USA-TEXAS	RIVERS/AGRICULTURE	28.8N	99.7W	28.8N	99.7W	70		NV	250	N	N	84	280	21: 8:21	141	141	38	23
36	106	MEXICO	SIERRA MADRE RANGE	27.5N	101.5W	27.8N	99.0W	30	SW	LO	250	N	N	84	280	21: 8:39	141	142	38	23
37	2	MEXICO	EFFLUENT & SEDIMENT DEP	18.5N	92.0W	18.2N	92.0W	15		NV	100	N	Y	84	280	21:11:37	140	145	36	23
37	3	MEXICO	EFFLUENT & SEDIMENT DEP	18.5N	92.0W	18.0N	91.9W	10		NV	100	N	Y	84	280	21:11:40	140	145	36	23
37	4	MEXICO	PUNTA FRONTERA	18.5N	91.0W	17.8N	91.7W	15	NW	LO	100	N	N	84	280	21:11:45	140	145	36	23
37	5	MEXICO	RIO SAN ANTONIO/BALANCAN	18.0N	91.5W	16.7N	91.1W	20		NV	100	N	N	84	280	21:12: 4	140	145	35	23
37	6	MEXICO	BAY OF CAMPECHE	22.0N	94.0W	15.7N	90.4W	40	NW	HO	100	N	N	84	280	21:12:23	140	145	35	23
37	7	GUATEMALA	LAGO DE IZABAL/MOTAGUA R	15.5N	89.5W	15.2N	90.1W	70		NV	100	N	N	84	280	21:12:32	140	145	35	23
37	8	HONDURAS	LAGO DE YOJOA	14.5N	88.5W	13.8N	89.2W	70	NE	LO	100	N	N	84	280	21:12:56	139	145	34	23
37	9	EL SALVADOR	RIO LEMPO/COASTLINE	13.5N	89.5W	13.2N	88.8W	80		NV	100	N	N	84	280	21:13: 8	139	146	34	23
37	10	MEXICO	BAY OF CAMPECHE			11.4N	87.7W	70	NW	HO	100	N	N	84	280	21:13:40	139	146	34	23
37	11	NICARAGUA	COASTLINE/NORTH PACIFIC	11.0N	86.5W	10.8N	87.3W	50		NV	100	N	N	84	280	21:13:53	139	146	33	23
37	12		SHUTTLE OVER N PACIFIC			7.1N	85.2W			HO	100	N	N	84	280	21:14:56	139	146	32	23
37	13	EQUADOR	GUAYAQUIL	2.0S	79.5W	2.5S	79.6W	70		NV	100	N	N	84	280	21:17:48	139	146	27	23
37	14	EQUADOR	ISLA PUNA/GUAYAQUIL GULF	3.0S	80.0W	2.8S	79.5W	50		NV	100	N	N	84	280	21:17:53	139	146	27	23
37	15	EQUADOR	ANDES MOUNTAINS	3.9S	78.8W	3.9S	78.6W	80		NV	100	N	N	84	280	21:18:13	139	146	26	23
37	16	PERU	RIO MARANON/RIO SANTIAGO	4.0S	78.0W	4.3S	78.6W	50		NV	100	N	Y	84	280	21:18:20	139	146	26	23
37	17	PERU	RIO MARANON/RIO SANTIAGO	4.5S	78.5W	5.6S	77.8W	40		NV	100	N	Y	84	280	21:18:43	139	146	25	23
37	18	PERU	RIO UCAYALI/CUSHABATAY R	7.0S	75.0W	8.3S	76.3W	60	NE	LO	100	N	N	84	280	21:19:31	139	146	23	23
37	19	PERU	CORD ORIENTAL/FIRES	10.7S	74.9W	10.7S	74.9W	80		NV	100	N	Y	84	280	21:20:13	139	146	22	23
37	20	PERU	CORD ORIENTAL/FIRES	11.0S	74.7W	11.0S	74.7W	70		NV	100	N	Y	84	280	21:20:19	139	146	22	23
37	21	PERU	CORD ORIENTAL/FIRES	11.3S	74.5W	11.3S	74.5W	70		NV	100	N	Y	84	280	21:20:25	139	146	22	23
37	22	PERU	CORD VILCABAMBA/FIRES	12.1S	74.0W	12.1S	74.0W	60		NV	100	N	Y	84	280	21:20:38	139	146	21	23
37	23	PERU	CORD VILCABAMBA/FIRES	12.4S	73.8W	12.4S	73.9W	80		NV	100	N	Y	84	280	21:20:43	139	146	21	23

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

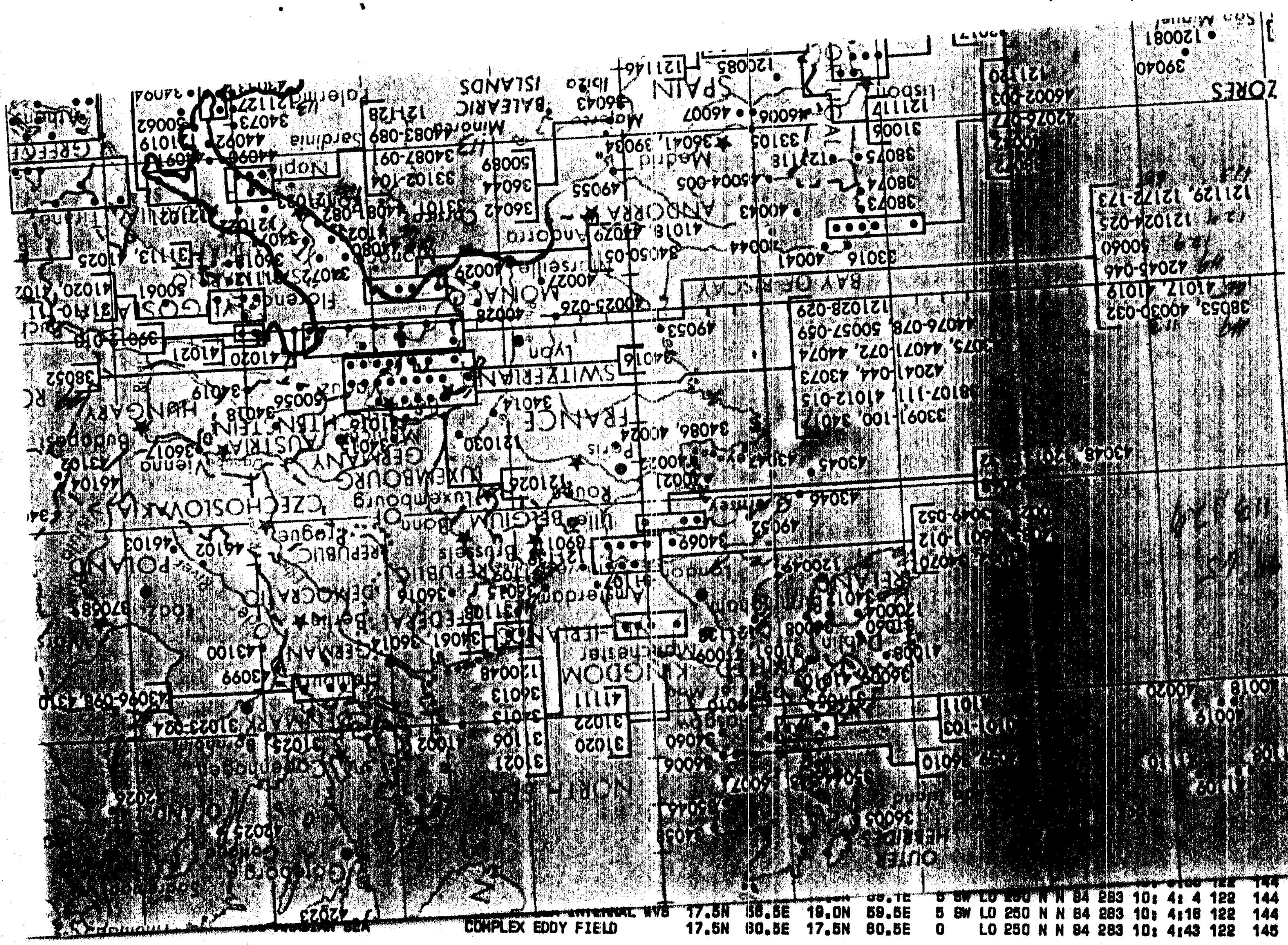
ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
37	24	PERU	CORD VILCABAMBA/FIRES	12.7S	73.7W	12.7S	73.7W	60		NV	100	N	Y	84 280	21:20:49	139	146	21	23
37	25	PERU	NEVADO AMPATO	16.0S	72.0W	15.3S	72.0W	60		NV	100	N	Y	84 280	21:21:36	140	145	19	23
37	26	PERU	NEVADO AMPATO	16.0S	72.0W	15.6S	71.9W	50		NV	100	N	Y	84 280	21:21:41	140	145	19	23
37	27	PERU	SOUTHERN LAKE TITICACA	16.0S	69.0W	16.4S	71.4W	70	SW	LO	100	N	N	84 280	21:21:55	140	145	18	23
37	28	BOLIVIA	SALAR DE COIPASA	19.0S	68.0W	20.1S	68.9W	70	NE	LO	100	N	Y	84 280	21:23: 3	140	144	16	23
37	29	BOLIVIA	SALAR DE COIPASA & UYUNI	19.5S	68.0W	20.4S	68.7W	70	NE	LO	100	N	Y	84 280	21:23: 8	140	144	15	23
37	30	BOLIVIA	SALAR DE COIPASA & UYUNI	20.5S	68.0W	20.7S	68.5W	60	NE	LO	100	N	Y	84 280	21:23:13	140	144	15	23
37	31	BOLIVIA	VOLCANOS AND SALARS	22.0S	68.0W	22.3S	67.4W	40		NV	100	N	Y	84 280	21:23:43	140	143	14	23
37	32	BOLIVIA	VOLCANOS AND SALARS	22.5S	67.0W	23.1S	66.9W	30		NV	100	N	Y	84 280	21:23:57	140	143	13	23
37	33	BOLIVIA	VOLCANOS AND SALARS	23.0S	67.0W	23.4S	66.6W	30		NV	100	N	Y	84 280	21:24: 3	141	143	13	23
37	34	ARGENTINA	NEVADO DE CHANI	24.5S	65.8W	24.5S	65.8W	70		NV	100	N	N	84 280	21:24:24	141	143	12	23
37	35		UNDEREXPOSED			31.0S	60.6W				100	U	N	84 280	21:26:26	142	140	7	23
37	36		UNDEREXPOSED			31.2S	60.4W				100	U	N	84 280	21:26:30	142	140	7	23
37	37		UNDEREXPOSED			32.7S	59.1W				100	U	N	84 280	21:27: 0	142	139	6	23
37	38		UNDEREXPOSED			32.9S	58.9W				100	U	N	84 280	21:27: 4	142	139	6	23
37	39		UNDEREXPOSED			36.3S	55.6W				100	U	N	84 280	21:28:10	142	137	3	23
37	40		UNDEREXPOSED			36.5S	55.3W				100	U	N	84 280	21:28:15	142	137	3	23
37	41	SAKHALIN ISLAND	TERPENIYA PENINSULA	50.0N	145.0E	52.2N	139.6E	50	SE	HO	100	O	N	84 280	22:19:20	145	62	11	24
37	42	SAKHALIN ISLAND	TERPENIYA PENINSULA	50.0N	145.0E	52.5N	140.6E	50	SE	HO	100	O	N	84 280	22:19:30	145	63	12	24
37	43	SAKHALIN ISLAND	KRILON PENINSULA	48.0N	142.5E	52.8N	141.3E	50	SE	HO	100	O	N	84 280	22:19:38	145	63	12	24
37	44	SAKHALIN ISLAND	SOUTH HALF OF ISLAND	46.5N	142.5E	52.9N	141.8E	40	SE	HO	100	O	N	84 280	22:19:43	145	64	12	24
37	45	USSR	KAMCHATKA PEN/VOLCANOS	56.0N	160.5E	56.5N	159.8E	80		NV	100	N	Y	84 280	22:22:33	145	79	19	24
37	46	USSR	KAMCHATKA PEN/VOLCANOS	56.0N	160.5E	56.6N	160.8E	80		NV	100	N	Y	84 280	22:22:42	145	80	19	24
37	47	BERING SEA	CLOUDS	57.1N	175.0E	57.1N	175.0E	95	NE	HO	100	N	N	84 280	22:24:42	145	92	24	24
37	48	USA-ALASKA	BERING SEA/CLOUDS	56.9N	178.3E	56.9N	178.3E	90	NE	HO	100	N	N	84 280	22:25:10	145	95	25	24
37	49	USA-ALASKA	BERING SEA/CLOUDS	56.8N	179.9W	56.8N	179.9W	90	NE	HO	100	N	N	84 280	22:25:25	145	97	25	24
37	50	USA-ALASKA	HAGEMEISTER ISLAND	59.5N	161.0W	55.6N	169.8W	80	NE	HO	100	N	N	84 280	22:26:54	145	105	28	24
37	51	USA-ALASKA	HAGEMEISTER I/BRISTOL B	59.5N	160.0W	53.9N	161.7W	70	NE	HO	100	N	N	84 280	22:28:11	145	112	30	24
37	52	USA-ALASKA	ALASKA PEN/ISLANDS	56.0N	159.0W	53.8N	160.4W	70	NE	LO	100	N	N	84 280	22:28:24	145	113	31	24
37	53	PACIFIC OCEAN	NORTH PACIFIC/CLOUDS	45.7N	141.6W	45.7N	141.6W	70		LO	100	N	N	84 280	22:32: 8	144	128	36	24
37	54	USSR	GORA KONDER CRATER	57.5N	134.5E	55.9N	132.5E	60	NE	LO	100	N	N	84 280	23:51:29	145	75	17	25
37	55	USSR	BOLSHOY SHANTAR ISLAND	55.0N	137.0E	56.2N	134.9E	10	SE	LO	100	N	N	84 280	23:51:51	145	77	18	25
37	56		ORBITER TAIL/CLOUDS			47.0S	136.8E			HO	100	N	N	84 281	9:28:56	144	127	-4	31
37	57		SIR B ANT-OUT OF FOCUS			51.0S	145.4E			HO	100	F	N	84 281	9:30:43	145	120	-8	31
37	58		ORBITER TAIL/CLOUDS	52.1N	22.2E	52.1N	22.2E			HO	100	N	N	84 281	10:26: 5	145	117	32	32
37	59	ROMANIA	DANUBE RIVER MOUTH	45.0N	29.0E	48.3N	31.4E	10		LO	100	N	N	84 281	10:27:53	144	125	35	32
37	60	USSR	DNEPR RIVER MOUTH	46.0N	32.0E	47.2N	33.4E	10	SW	LO	100	N	N	84 281	10:28:20	144	126	35	32
37	61	USSR	DNEPR RIVER	47.0N	33.0E	46.7N	34.4E	15	SE	LO	100	N	N	84 281	10:28:33	144	127	36	32
37	62	USSR	LAKE SIVASH	46.0N	34.0E	46.5N	34.8E	5		NV	100	N	N	84 281	10:28:39	144	127	36	32
37	63	USSR	LAKE MOLOCHNOYE	46.5N	35.5E	45.9N	35.8E	1		NV	100	N	N	84 281	10:28:52	144	128	36	32
37	64	USSR	BERDYANSK/SEA OF AZOV	46.5N	36.5E	45.7N	36.1E	0	N	LO	100	N	N	84 281	10:28:57	144	128	36	32
37	65	USSR	TAGANROGSKIY BAY	46.5N	38.0E	45.4N	36.6E	0	NE	LO	100	N	N	84 281	10:29: 4	144	129	36	32
37	66	USSR	KERCHENSKIY STRAIT	45.0N	37.0E	45.0N	37.3E	0		NV	100	N	N	84 281	10:29:14	144	129	37	32
37	67	USSR	CAUCASUS MOUNTAINS	44.5N	38.5E	44.6N	37.9E	2		NV	100	N	Y	84 281	10:29:23	144	130	37	32
37	68	USSR	CAUCASUS MOUNTAINS	44.5N	38.5E	44.4N	38.3E	5		NV	100	N	Y	84 281	10:29:29	144	130	37	32
37	69	USSR	CAUCASUS MOUNTAINS	44.5N	39.0E	44.0N	38.9E	10		NV	100	N	Y	84 281	10:29:38	144	130	37	32
37	70	USSR	CAUCASUS MOUNTAINS	44.0N	39.5E	43.7N	39.3E	20		NV	100	N	Y	84 281	10:29:44	144	131	37	32
37	71	USSR	CAUCASUS MOUNTAINS	44.0N	40.0E	43.4N	39.8E	30		NV	100	N	Y	84 281	10:29:51	144	131	37	32
37	72	USSR	CAUCASUS MOUNTAINS	43.5N	40.5E	43.1N	40.2E	30		NV	100	N	Y	84 281	10:29:58	143	131	37	32
37	73	USSR	CAUCASUS MOUNTAINS	43.5N	41.0E	42.8N	40.6E	30		NV	100	N	Y	84 281	10:30: 4	143	132	37	32

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
37	74	USSR	CAUCASUS MOUNTAINS	43.5N	41.0E	42.8N	40.9E	30		NV	100	N	Y	84 281	10:30: 9	143	132	38	32
37	75	USSR	CAUCASUS MOUNTAINS	43.0N	41.5E	42.3N	41.3E	40		NV	100	N	Y	84 281	10:30:15	143	132	38	32
37	76	USSR	CAUCASUS MOUNTAINS	43.0N	42.0E	42.0N	41.8E	40		NV	100	N	Y	84 281	10:30:21	143	132	38	32
37	77	USSR	CAUCASUS MOUNTAINS	42.0N	43.5E	41.1N	42.9E	70		NV	100	N	N	84 281	10:30:41	143	133	38	32
37	78	TURKEY	LAKE VAN	38.5N	43.0E	40.5N	43.7E	1	S	LO	100	N	N	84 281	10:30:55	143	134	38	32
37	79	TURKEY	LAKE VAN	38.5N	43.0E	40.1N	44.1E	1	S	LO	100	N	N	84 281	10:31: 2	143	134	38	32
37	80	TURKEY	LAKE VAN/LAVA FLOWS	39.5N	44.0E	38.7N	44.8E	5		NV	100	N	Y	84 281	10:31:11	143	135	39	32
37	81	TURKEY	LAVA FLOWS/ARAS R VALLEY	40.0N	44.0E	39.4N	45.0E	10		NV	100	N	Y	84 281	10:31:18	143	135	39	32
37	82	TURKEY	GREAT ZAB RIVER/ERCEK LK	38.5N	44.5E	38.9N	45.5E	5		NV	100	N	N	84 281	10:31:27	143	135	39	32
37	83	TURKEY	LAVA FLOWS/ARAS R VALLEY	40.0N	44.0E	38.8N	45.7E	10	NE	LO	100	N	N	84 281	10:31:30	143	135	39	32
37	84	IRAN	LAKE ORUMIYEH	38.0N	45.5E	38.5N	46.1E	5		NV	100	N	N	84 281	10:31:37	143	136	39	32
37	85	IRAN	LAKE ORUMIYEH	37.5N	45.5E	37.8N	46.8E	8	W	LO	100	N	N	84 281	10:31:51	143	136	39	32
37	86	IRAQ	NW ZAGROS MTS/TIGRES R	37.0N	44.0E	39.4N	45.0E	5	SE	LO	100	N	N	84 281	10:31:17	143	135	38	32
37	87	IRAQ	NW ZAGROS MTS/TIGRES R	36.5N	44.5E	37.2N	47.5E	15	E	LO	100	N	N	84 281	10:32: 4	142	136	39	32
37	88	IRAQ	NW ZAGROS MTS/TIGRES R	36.0N	45.0E	36.9N	47.8E	20	E	LO	100	N	N	84 281	10:32:10	142	137	39	32
37	89	IRAQ	NW ZABROS MTS/TIGRES R	36.0N	45.0E	36.6N	48.1E	25	E	LO	100	N	N	84 281	10:32:15	142	137	39	32
37	90	IRAQ	NW ZAGROS MTS/TIGRES R	36.0N	45.0E	36.3N	48.4E	30	E	LO	100	N	N	84 281	10:32:21	142	137	39	32
37	91	IRAQ	NW ZAGROS MTS/TIGRES R	35.5N	46.0E	36.0N	48.7E	30	W	LO	100	N	N	84 281	10:32:27	142	137	39	32
37	92	IRAQ	NW ZAGROS MTS/TIGRES R	35.0N	46.0E	35.7N	49.0E	30	W	LO	100	N	N	84 281	10:32:33	142	137	39	32
37	93	IRAQ	NW ZAGROS MOUNTAINS	34.8N	49.0E	34.9N	49.9E	60		LO	100	N	N	84 281	10:32:50	142	138	40	32
37	94	IRAN	DUST STORM/PERSIAN GULF	30.5N	49.5E	32.1N	52.5E	15	NW	LO	100	N	N	84 281	10:33:44	142	140	40	32
37	95	IRAN	DUST STORM/PERSIAN GULF	30.0N	49.5E	31.8N	52.7E	10	NW	LO	100	N	N	84 281	10:33:49	142	140	40	32
37	96	IRAN	DUST STORM/PERSIAN GULF	29.5N	50.5E	31.1N	53.4E	5	NW	LO	100	N	N	84 281	10:34: 3	142	140	40	32
37	97	IRAN	DUST STORM/PERSIAN GULF	29.0N	50.5E	30.6N	53.8E	1	NW	LO	100	N	N	84 281	10:34:13	142	140	40	32
37	98	IRAN	ZAGROS MOUNTAINS	29.0N	52.5E	29.6N	54.7E	20	SW	LO	100	N	Y	84 281	10:34:32	141	141	40	32
37	99	IRAN	ZAGROS MOUNTAINS	28.0N	53.0E	29.3N	54.9E	15	SW	LO	100	N	Y	84 281	10:34:38	141	141	40	32
37	100	IRAN	ZAGROS MOUNTAINS	28.5N	53.0E	28.0N	55.2E	10	SW	LO	100	N	Y	84 281	10:34:44	141	141	40	32
37	101	IRAN	ZAGROS MOUNTAINS	28.0N	53.5E	28.8N	55.5E	5	SW	LO	100	N	Y	84 281	10:34:52	141	141	40	32
37	102	IRAN	ZAGROS MOUNTAINS	28.0N	54.0E	28.3N	55.8E	1	SW	LO	100	N	Y	84 281	10:34:58	141	141	40	32
37	103	IRAN	ZAGROS MOUNTAINS	27.5N	54.0E	28.0N	56.0E	1	SW	LO	100	N	Y	84 281	10:35: 4	141	141	40	32
37	104	IRAN	ZAGROS MOUNTAINS	27.5N	54.5E	27.7N	56.3E	1	W	LO	100	N	Y	84 281	10:35: 9	141	142	40	32
37	105	IRAN	ZAGROS MOUNTAINS	27.0N	55.0E	27.4N	56.5E	1	W	LO	100	N	Y	84 281	10:35:14	141	142	40	32
37	106	IRAN	ZAGROS MOUNTAINS	27.0N	55.5E	27.2N	56.8E	1	W	LO	100	N	Y	84 281	10:35:18	141	142	40	32
37	107	IRAN	ZAGROS MOUNTAINS	27.0N	55.5E	27.0N	56.8E	1		NV	100	N	N	84 281	10:35:22	141	142	40	32
37	108	UNITED ARAB EMIRATES	PERSIAN GULF OIL SLICKS	25.5N	54.5E	26.7N	57.1E	0	SW	LO	100	N	N	84 281	10:35:28	141	142	40	32
38	2	MADAGASCAR	MANDRARE RIVER/LAC ANONY	25.0S	46.5E	29.2S	47.7E	30	NW	LO	250	F	N	84 281	13:50:35	122	141	12	34
38	4	CANADA-NF	ISLAND OF NEWFOUNDLAND	47.0N	56.0W	48.6N	55.8W	40		NV	250	N	N	84 281	18:24:55	125	127	36	36
38	5	CANADA-M	DAWSON BAY	46.5N	53.5W	45.9N	54.6W	50	NE	LO	250	N	N	84 281	18:25:11	125	128	36	36
38	6	CANADA-M	LAKE WINNIPEGOSIS	53.0N	101.0W	55.0N	101.6W	0	S	LO	250	F	N	84 281	17:49:32	127	108	28	37
38	7	CANADA-M	LAKE WINNIPEG	53.0N	100.0W	54.8N	100.7W	0	SE	LO	250	F	N	84 281	17:49:41	127	109	28	37
38	8	CANADA-M	LAKE WINNIPEG/LONG POINT	53.0N	99.0W	54.5N	99.5W	0	S	LO	250	F	N	84 281	17:49:52	127	110	28	37
38	9	CANADA-O	MONTREAL	53.0N	98.0W	53.8N	98.8W	0	SW	LO	250	F	N	84 281	17:50:18	127	112	30	37
38	10	CANADA-O	MONTREAL	45.5N	73.5W	45.1N	75.8W	10	NE	LO	250	F	Y	84 281	17:54:28	125	129	37	37
38	11	CANADA-O	MONTREAL	45.5N	73.5W	44.8N	75.4W	10	NE	LO	250	F	Y	84 281	17:54:32	125	129	37	37
38	12	CANADA-O	MONTREAL	46.0N	74.0W	44.8N	75.1W	10	NE	LO	250	F	Y	84 281	17:54:37	125	130	37	37
38	13	CANADA-O	MONTREAL	45.5N	74.0W	44.4N	74.8W	15	NE	LO	250	F	Y	84 281	17:54:41	125	130	37	37
38	14	CANADA-O	MONTREAL	45.5N	73.5W	44.3N	74.6W	15	NE	LO	250	F	Y	84 281	17:54:45	125	130	37	37
38	15	USA-NEW YORK	LAKE CHAMPLAIN	45.5N	73.5W	43.8N	74.0W	15	N	LO	250	F	Y	84 281	17:54:54	125	131	37	37
38	16	USA-NEW HAMPSHIRE	WHITE MOUNTAINS	44.0N	73.5W	43.3N	73.1W	10	NW	LO	250	F	N	84 281	17:55: 7	125	131	38	37
				44.0N	71.0W	42.8N	72.3W	10	NE	LO	250	F	N	84 281	17:55:19	124	132	38	37

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
38	17	USA-NEW YORK	LONG ISLAND	40.5N	73.5W	42.4N	71.9W	50	NW	LO	250	F	N	84 281	17:55:26	124	132	38	37
38	18	USA-MASSACHUSETTS	CAPE COD	42.0N	70.0W	42.1N	71.4W	0	E	LO	250	F	N	84 281	17:55:34	124	132	38	37
38	19	USA-MASSACHUSETTS	BOSTON	42.5N	71.0W	41.7N	71.0W	0	N	LO	250	F	Y	84 281	17:55:41	124	133	38	37
38	20	USA-MASSACHUSETTS	BOSTON	42.5N	71.0W	41.5N	70.7W	0	N	LO	250	F	Y	84 281	17:55:48	124	133	38	37
38	21	USA-MASSACHUSETTS	CAPE COD	42.0N	70.0W	41.1N	70.2W	0	N	LO	250	F	N	84 281	17:55:54	124	133	39	37
38	22	USA-MASSACHUSETTS	CAPE COD	41.5N	70.5W	41.0N	69.8W	0		NV	250	F	Y	84 281	17:55:58	124	133	39	37
38	23	USA-MASSACHUSETTS	NEW BEDFORD	41.5N	70.5W	40.8N	69.7W	0		NV	250	F	Y	84 281	17:56: 2	124	134	39	37
38	24	USA-MASSACHUSETTS	BOSTON	42.5N	71.0W	40.4N	69.3W	0	NW	LO	250	F	N	84 281	17:56: 9	124	134	39	37
38	25	MEXICO	AL VARADO/RIO SAN JUAN	19.0N	96.0W	20.1N	96.3W	5	N	LO	250	N	N	84 281	21: 0:30	121	144	41	39
38	26	MEXICO	PUNTA FRONTERA	18.5N	92.5W	18.0N	95.0W	10	E	LO	250	N	N	84 281	21: 1: 7	120	145	41	39
38	27	MEXICO	ISLA DEL CARMEN	18.5N	92.0W	17.6N	94.7W	15	E	LO	250	N	N	84 281	21: 1:14	120	145	40	39
38	28	MEXICO	LAGUNA INFERIOR	16.0N	95.0W	16.9N	94.3W	5		NV	250	N	N	84 281	21: 1:27	120	145	40	39
38	29	PERU	RIO ICA/ICA/SAND DUNES	14.0S	76.0W	15.4S	75.0W	2	NW	LO	250	N	N	84 281	21:10:59	120	145	24	39
38	30	PERU	RIO ICA/SAND DUNES	14.5S	76.0W	15.6S	74.9W	10	NW	LO	250	N	N	84 281	21:11: 3	120	145	24	39
38	31	ARGENTINA	LAVA FLOWS/SALARS	26.5S	67.5W	26.7S	67.2W	40		NV	250	N	Y	84 281	21:14:24	121	142	16	39
38	32	ARGENTINA	LAVA FLOWS/SALARS	26.5S	67.5W	26.8S	67.1W	40		NV	250	N	Y	84 281	21:14:26	121	142	16	39
38	33	ARGENTINA	LAVA FLOWS/SALARS	26.5S	67.5W	26.9S	67.0W	40		NV	250	N	Y	84 281	21:14:29	121	142	16	39
38	34	ARGENTINA	LAVA FLOWS/SALARS	26.5S	67.5W	27.0S	66.9W	40		NV	250	N	Y	84 281	21:14:31	121	142	16	39
38	35	ARGENTINA	BUENOS AIRES	34.5S	58.5W	35.3S	59.6W	0	NW	LO	250	F	N	84 281	21:17: 8	123	138	9	39
38	36	NORWAY	OSLO/TYRIFJORDEN	60.0N	10.5E	57.1N	11.6E	0	NW	LO	250	F	N	84 282	8:35:43	128	90	20	47
38	37	NORWAY	HAMAR/RANDSFJORDEN	61.0N	11.0E	57.1N	12.2E	0	NW	LO	250	F	N	84 282	8:35:48	128	91	20	47
38	38	NORWAY	OSLO/TYRIFJORDEN	60.0N	10.5E	57.1N	13.8E	0	NW	LO	250	F	N	84 282	8:36: 0	128	92	21	47
38	39	IRAN	PERSIAN GULF DYNAMICS	27.5N	52.0E	28.8N	53.8E	1	W	LO	250	F	N	84 282	10:18: 7	122	141	43	48
38	40	IRAN	SHEYKH SHOEYB I/EDDIES	26.5N	53.0E	27.9N	54.6E	0	W	LO	250	F	N	84 282	10:18:24	122	142	43	48
38	41	PERSIAN GULF	WATER STRUCTURES	26.0N	54.5E	26.8N	55.4E	0	SW	LO	250	F	N	84 282	10:18:43	122	142	44	48
38	42	IRAN	SIRRI/PERSIAN GULF	26.0N	55.5E	26.5N	55.7E	0		NV	250	F	N	84 282	10:18:50	122	142	44	48
38	43	IRAN	SIR BU NUARI/INTERNAL WV	25.5N	54.0E	26.1N	55.9E	0	SW	LO	250	F	N	84 282	10:18:56	122	142	44	48
38	44	UNITED ARAB EMIRATES	BAZM AL GHARBI	24.5N	53.5E	25.4N	56.5E	0	SW	LO	250	F	N	84 282	10:19:10	121	142	44	48
38	45	OMAN	COASTLINE/GULF OF OMAN	24.0N	57.5E	23.4N	57.9E	0		NV	250	F	N	84 282	10:19:46	121	143	44	48
38	46	OMAN	MUSCAT/SHIPS	23.5N	58.5E	22.9N	58.3E	0		NV	250	F	N	84 282	10:19:56	121	143	44	48
38	47	OMAN	RAS ABY DAUD/COASTLINE	23.0N	59.0E	22.0N	59.0E	1	N	LO	250	F	N	84 282	10:20:13	121	144	44	48
38	48	OMAN	CAPE MADRAKAH/INTERN WVS	19.0N	58.0E	20.1N	60.3E	0			250	F	N	84 282	10:20:47	121	144	43	48
38	49	OMAN	CAPE SHARBITHAT	18.0N	57.0E	19.5N	60.7E	0	SW	LO	250	F	N	84 282	10:20:58	121	144	43	48
38	50	ITALY	GULF OF GENOA EDDIES	44.0N	9.0E	46.9N	10.0E	0	SW	LO	250	F	N	84 282	11:40:46	125	127	36	49
38	51	ITALY	GULF OF GENOA EDDIES	44.0N	8.5E	46.5N	10.6E	0	SW	LO	250	F	N	84 282	11:40:54	125	127	36	49
38	52	GULF OF VENICE	CLOUDS AND WATER	45.2N	12.8E	45.2N	12.8E	20		LO	250	F	N	84 282	11:41:26	125	129	37	49
38	53	ITALY	PO RIVER MOUTH PLUME	45.0N	12.5E	44.0N	14.7E	10	SW	LO	250	F	N	84 282	11:41:54	124	130	38	49
38	54	GREECE	PELOPONNISOS/ARGOLIKOS B	37.5N	23.0E	39.1N	21.1E	0	SE	LO	250	F	N	84 282	11:43:38	124	135	41	49
38	55	IONIAN SEA	INTERNAL WAVES/EDDIES	37.0N	21.0E	38.2N	22.2E	5	SW	LO	250	F	N	84 282	11:43:58	123	136	41	49
38	56	IONIAN SEA	INTERNAL WAVES/EDDIES	36.5N	20.5E	38.1N	22.4E	5	SW	LO	250	F	N	84 282	11:44: 0	123	136	41	49
38	57	IONIAN SEA	INTERNAL WAVES/EDDIES	36.5N	20.5E	37.9N	22.5E	10	SW	LO	250	F	N	84 282	11:44: 3	123	136	41	49
38	58	IONIAN SEA	INTERNAL WAVES/EDDIES	36.0N	20.5E	37.8N	22.6E	15	SW	LO	250	F	N	84 282	11:44: 5	123	136	41	49
38	59	IONIAN SEA	EDDIES AND SHIPWAKES	35.5N	21.5E	37.1N	23.4E	0	SW	LO	250	F	N	84 282	11:44:20	123	137	42	49
38	60	IONIAN SEA	EDDIES AND SHIPWAKES	35.5N	22.0E	36.8N	23.7E	0	SW	LO	250	F	N	84 282	11:44:25	123	137	42	49
38	61	MEDITERRANEAN SEA	COMPLEX EDDY FIELD	35.3N	25.3E	35.3N	25.3E	10		LO	250	F	N	84 282	11:44:56	123	138	42	49
38	62	LIBYA	MEDITERRANEAN EDDY FIELD	32.5N	24.5E	34.7N	25.9E	5	SW	LO	250	F	N	84 282	11:45: 7	123	138	42	49
38	63	MEDITERRANEAN SEA	EDDY FIELD	32.5N	25.0E	34.0N	26.6E	5	SW	LO	250	F	N	84 282	11:45:21	123	138	43	49
38	64	MEDITERRANEAN SEA	EDDY FIELD	32.5N	25.0E	33.5N	27.1E	0	W	LO	250	F	N	84 282	11:45:32	122	139	43	49
38	65	EGYPT	CAPE ALAM EL RUM/EDDIES	31.5N	27.5E	32.2N	28.3E	0	SW	LO	250	F	N	84 282	11:45:57	122	140	43	49
38	66	ETHIOPIA	AFAR DEPRESSION/DUBBI V	13.5N	42.0E	13.3N	42.0E	0		NV	250	F	N	84 282	11:51:43	120	145	43	49



			... INTERNAL WVS	17.5N	58.5E	19.0N	59.5E	5	SW	LO	250	N	N	84	283	10: 4:16	122	144	48	64
		... ARABIAN SEA	COMPLEX EDDY FIELD	17.5N	60.5E	17.5N	60.5E	0		LO	250	N	N	84	283	10: 4:43	122	145	48	64
38	107	SWITZERLAND	THUNNER LAKE/BRIENZER LK	47.0N	8.0E	47.0N	8.3E	0		NV	250	F	Y	84	283	11:23:54	126	127	36	65
38	108	SWITZERLAND	BRIENZER LAKE/ THE ALPS	46.5N	8.0E	46.8N	8.6E	15		NV	250	F	Y	84	283	11:23:59	126	127	36	65
38	109	SWITZERLAND	BRIENZER LAKE/ THE ALPS	46.5N	8.0E	46.6N	8.0E	20		NV	250	F	Y	84	283	11:24: 4	126	127	37	65
38	110	ITALY	LAGO DI IDRO	46.0N	10.5E	45.8N	10.1E	10		NV	250	F	Y	84	283	11:24:19	126	128	37	65
38	111	ITALY	LAGO DI GARDA/THE ALPS	46.0N	10.5E	45.8N	10.4E	5		NV	250	F	Y	84	283	11:24:23	126	128	37	65
39	3	USA-MASSACHUSETTS	EAST COAST/CAPE COD	42.0N	71.0W	43.8N	82.5W	50	SE	HO	100	O	N	84	281	11:42: 3	141	48	0	33
39	4	USA-MASSACHUSETTS	EAST COAST/CAPE COD	42.0N	71.0W	44.2N	81.9W	50	SE	HO	100	O	N	84	281	11:42:12	141	49	0	33
39	5	CANADA-N	ISLAND OF NEWFOUNDLAND	48.0N	55.5W	51.6N	67.1W	80	SE	HO	100	N	N	84	281	11:45:23	141	60	9	33
39	6	CANADA-N	ISLAND OF NEWFOUNDLAND	50.0N	52.0W	52.3N	64.8W	80	SE	HO	100	N	N	84	281	11:45:47	141	62	10	33
39	7	CANADA-N	SANDWICH BAY/TILE DAMAGE	53.0N	58.0W	55.6N	50.0W	70	SW	HO	100	N	N	84	281	11:48:12	140	75	16	33

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
39	8	ATLANTIC OCEAN	CLOUDS	56.9N	25.9W	56.9N	25.9W	80		HO	100	N	N	84 281	11:51:39	138	96	24	33
39	9		OUT OF FOCUS			56.4N	20.6W				100	F	N	84 281	11:52:24	138	100	25	33
39	10	SCOTLAND	COAST	54.5N	4.0W	53.3N	4.5W	80	N	LO	100	N	N	84 281	11:54:55	136	114	31	33
39	11	FRANCE	TILE DAMAGE ON OMS PODS	50.3N	4.1E	50.3N	4.1E	70		LO	100	N	N	84 281	11:56:30	134	121	33	33
39	12	ITALY	THE ALPS/CLOUDS	44.9N	14.6E	44.9N	14.6E	80	NW	HO	100	N	N	84 281	11:58:47	132	129	37	33
39	13	ITALY	THE ALPS/CLOUDS	44.8N	14.8E	44.8N	14.8E	80	NW	HO	100	N	N	84 281	11:58:50	131	129	37	33
39	14	ALBANIA	COAST/CLOUDS	41.0N	19.5E	40.2N	21.2E	70	SW	LO	100	N	N	84 281	12: 0:31	130	134	38	33
39	15	GREECE	ISLANDS/BAYS/TILE DAMAGE	39.0N	23.0E	39.2N	22.4E	1		NV	100	N	N	84 281	12: 0:52	129	135	39	33
39	16	GREECE	ISLANDS/BAYS/TILE DAMAGE	38.0N	24.0E	38.5N	23.3E	0		NV	100	N	N	84 281	12: 1: 8	129	136	39	33
39	17	GREECE	THESSALONIKI	40.5N	24.0E	37.7N	24.2E	15		LO	100	N	N	84 281	12: 1:23	129	136	39	33
39	18	GREECE	RODHOS I/SMOKE PLUME	36.0N	28.0E	34.3N	27.7E	0	N	LO	100	N	N	84 281	12: 2:32	127	138	40	33
39	19	TURKEY	RODHOS I/SMOKE PLUME	37.0N	28.0E	32.8N	29.1E	1	N	HO	100	N	N	84 281	12: 3: 1	127	139	40	33
39	20	TURKEY	RODHOS I/SMOKE PLUME	36.5N	28.0E	32.2N	29.7E	1	NW	HO	100	N	N	84 281	12: 3:12	127	139	40	33
39	21	CYPRUS	ISLAND/TURKEY/SYRIA	35.0N	33.0E	31.6N	30.2E	3	NE	HO	100	N	N	84 281	12: 3:24	126	140	40	33
39	22	CYPRUS	ISLAND/TURKEY/SYRIA	35.0N	33.0E	30.3N	31.4E	3	NE	HO	100	N	N	84 281	12: 3:49	126	140	40	33
39	23	EGYPT	SUEZ CANAL/MEDITERRANEAN	32.0N	32.0E	27.7N	33.5E	1	NW	HO	100	N	N	84 281	12: 4:39	125	142	40	33
39	24	EGYPT	SUEZ CANAL/SINAI PEN	30.5N	32.5E	28.9N	34.1E	0	NW	HO	100	N	N	84 281	12: 4:53	125	142	40	33
39	25	ISRAEL	GULF OF AQABA/DEAD SEA	30.0N	35.0E	25.8N	35.0E	0	N	HO	100	N	N	84 281	12: 5:14	125	142	40	33
39	26	EGYPT	SINAI P/SUEZ & AQABA GUL	28.5N	34.0E	25.0N	35.6E	1	NW	HO	100	N	N	84 281	12: 5:28	124	143	40	33
39	27	EGYPT	RED SEA/SAUDI ARABIA	27.0N	35.0E	22.1N	37.7E	0	NW	HO	100	N	N	84 281	12: 6:21	124	144	40	33
39	28	DJIBOUTI	SOMALIA/ETHIOPIA/RED SEA	11.5N	43.0E	13.5N	43.3E	0	N	HO	100	N	N	84 281	12: 8:56	122	145	38	33
39	29	SOUTH YEMEN	CAPE BAB EL MANDEB	13.0N	44.0E	12.6N	43.9E	0		NV	100	N	Y	84 281	12: 9:12	121	146	37	33
39	30	SOUTH YEMEN	CAPE BAB EL MANDEB	12.5N	44.0E	12.3N	44.1E	0		NV	100	N	Y	84 281	12: 9:18	121	146	37	33
39	31	SOUTH YEMEN	CAPE BAB EL MANDEB	12.5N	44.0E	12.0N	44.2E	0		NV	100	N	Y	84 281	12: 9:22	121	146	37	33
39	32	MASCARENE ISLANDS	RODRIGUEZ ISLAND	20.5S	63.5E	19.5S	63.0E	10		NV	100	N	Y	84 281	12:18:40	120	144	19	33
39	33	MASCARENE ISLANDS	RODRIGUEZ ISLAND	20.5S	63.5E	19.8S	63.3E	15		NV	100	N	Y	84 281	12:18:46	120	144	19	33
39	34	SPAIN	RIO EBRO MOUTH	40.5N	1.0E	39.8N	0.7W	0	N	LO	100	N	N	84 281	13:29:37	124	134	39	34
39	35	SPAIN	CABO DE PALOS/EDDIES	37.5N	0.0	38.6N	0.5E	1	S	LO	100	N	N	84 281	13:30: 0	124	135	39	34
39	36	SPAIN	MEDITERRANEAN SEA	36.0N	1.0W	37.7N	1.6E	10	SW	LO	100	N	N	84 281	13:30:20	123	136	39	34
39	37	ALGERIA	MEDITERRANEAN SEA	36.0N	1.0W	37.4N	2.0E	15	SW	LO	100	N	N	84 281	13:30:26	123	136	39	34
39	38	ALGERIA	MEDITERRANEAN SEA	36.0N	1.0W	36.6N	2.8E	30	SW	LO	100	N	N	84 281	13:30:41	123	137	40	34
39	39	ALGERIA	MEDITERRANEAN SEA	36.5N	1.0E	35.7N	3.7E	40	SW	LO	100	N	N	84 281	13:31: 0	123	137	40	34
39	40	AZORES	ATLANTIC OCEAN/CLOUDS	38.8N	21.9W	38.6N	21.9W	70	W	LO	100	N	N	84 281	14:58:57	124	135	39	35
39	41	CANARY ISLANDS	ATLANTIC OCEAN/CLOUDS	28.5N	18.0W	30.7N	14.1W	70	SW	HO	100	N	N	84 281	15: 1:32	122	140	41	35
39	42	CANARY ISLANDS	ATLANTIC OCEAN/CLOUDS	28.5N	18.0W	29.9N	13.4W	70	SW	HO	100	N	N	84 281	15: 1:47	122	141	41	35
39	43	AFRICA	CLOUDS & HAZE	11.1N	0.3W	11.1N	0.3W	80		HO	100	N	N	84 281	15: 7:29	120	146	37	35
39	44	AFRICA	CLOUDS & HAZE	10.5N	0.0	10.5N	0.0	80		HO	100	N	N	84 281	15: 7:41	120	146	37	35
39	45	AFRICA	CLOUDS & HAZE	10.1N	0.2E	10.1N	0.2E	80		HO	100	N	N	84 281	15: 7:47	120	146	37	35
39	46	NAMIBIA	ETOSHA PAN	19.0S	15.0E	17.7S	16.7E	1	SW	LO	100	N	N	84 281	15:16: 0	120	145	21	35
39	47	NAMIBIA	ETOSHA PAN/SIR-B ANTENNA	19.0S	16.5E	19.9S	18.2E	10	NW	LO	100	N	N	84 281	15:16:40	120	144	20	35
39	48	CANADA-S	LAKES	54.5N	108.0W	56.6N	111.9W	10	SE	LO	100	U	N	84 281	16:15:54	128	80	17	36
39	49	CANADA-S	LAKES	54.5N	107.0W	56.7N	110.2W	10	SE	LO	100	U	N	84 281	16:16: 8	128	81	18	36
39	50	CANADA-S	VERY DARK			56.8N	108.8W	0			100	U	N	84 281	16:16:20	128	82	18	36
39	51	CANADA-S	VERY DARK			57.0N	105.0W	0			100	U	N	84 281	16:16:52	128	86	20	36
39	52	CANADA-M	VERY DARK			57.1N	101.6W	0			100	U	N	84 281	16:17:21	128	89	21	36
39	53	CANADA-M	LAKE WINNIPEG	54.5N	99.5W	57.1N	99.5W	20		LO	100	U	N	84 281	16:17:38	128	91	22	36
39	54	CANADA-N	CLOUDS-DARK	46.4N	55.4W	46.4N	55.4W	80			100	U	N	84 281	16:25: 0	125	128	36	36
39	55	CANADA-N	CLOUDS-DARK	46.0N	54.7W	46.0N	54.7W	70			100	U	N	84 281	16:25:10	125	128	36	36
39	56	CANADA-N	CLOUDS-DARK	45.5N	54.0W	45.5N	54.0W	70			100	U	N	84 281	16:25:20	125	129	37	36
39	57	CANADA-S	VERY DARK			56.1N	108.5W	0			100	U	N	84 281	17:48:30	127	102	26	37

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
39	58	CANADA-S	LAKES	55.0N	107.0W	56.0N	107.3W	10	S	LO	100	U	N	84	281	17:48:40	127	103	28	37
39	59	CANADA-M	LAKES	54.0N	101.5W	55.3N	103.1W	1	SW	LO	100	U	N	84	281	17:48:18	127	107	28	37
39	60	CANADA-M	LAKE WINNIPEG	53.5N	98.5W	54.8N	100.9W	10	E	LO	100	U	N	84	281	17:48:39	127	109	28	37
39	61	CANADA-M	LAKE WINNIPEG	54.0N	98.5W	54.6N	99.7W	0	E	LO	100	U	N	84	281	17:48:50	127	110	28	37
39	62	CANADA-M	LAKE WINNIPEG	54.0N	100.0W	54.4N	98.8W	0		NV	100	U	N	84	281	17:49:59	127	111	28	37
39	63	CANADA-M	LAKE WINNIPEG	53.5N	98.0W	53.8N	96.8W	0	N	LO	100	U	N	84	281	17:50:18	127	112	30	37
39	64	CANADA-M	SANDY LAKE/SEVERN RIVER	52.5N	92.5W	52.0N	90.5W	10	W	LO	100	U	N	84	281	17:51:24	126	118	32	37
39	65	CANADA-M	LAKE WINNIPEG	54.0N	97.0W	51.8N	89.8W	20	NW	HO	100	U	N	84	281	17:51:31	126	118	32	37
39	66	CANADA-Q	MONTREAL	45.5N	74.0W	44.8N	75.4W	40	N	LO	100	U	N	84	281	17:54:32	125	129	37	37
39	67	CANADA-Q	MONTREAL	45.5N	73.5W	44.8N	75.1W	40	N	LO	100	U	N	84	281	17:54:37	125	130	37	37
39	68	CANADA-Q	MONTREAL	46.0N	73.0W	44.5N	74.8W	40	N	LO	100	U	N	84	281	17:54:40	125	130	37	37
39	69	CANADA-Q	MONTREAL	45.5N	74.0W	44.3N	74.6W	40	N	LO	100	U	N	84	281	17:54:44	125	130	37	37
39	70	USA-MASSACHUSETTS	CAPE COD	42.0N	70.5W	42.6N	72.2W	0	E	LO	100	U	N	84	281	17:55:22	124	132	38	37
39	71	USA-NEW YORK	LONG ISLAND	41.0N	73.0W	42.2N	71.6W	40	SW	LO	100	U	Y	84	281	17:55:31	124	132	38	37
39	72	USA-NEW YORK	LONG ISLAND	41.0N	73.0W	42.1N	71.5W	40	SW	LO	100	U	Y	84	281	17:55:33	124	132	38	37
39	73	USA-NEW YORK	LONG ISLAND	41.0N	72.5W	41.9N	71.2W	40	SW	LO	100	U	Y	84	281	17:55:37	124	133	38	37
39	74	USA-NEW YORK	LONG ISLAND	41.0N	72.0W	41.8N	71.0W	40	SE	LO	100	U	Y	84	281	17:55:40	124	133	38	37
39	75	USA-RHODE ISLAND	COAST/RHODE ISLAND SOUND	41.5N	71.5W	41.6N	70.8W	10	N	LO	100	U	Y	84	281	17:55:44	124	133	38	37
39	76	USA-MASSACHUSETTS	MARTHAS VINEYARD	41.5N	71.0W	41.5N	70.6W	0		NV	100	U	Y	84	281	17:55:47	124	133	38	37
39	77	USA-MASSACHUSETTS	CAPE COD	41.5N	70.5W	41.4N	70.5W	0		NV	100	U	Y	84	281	17:55:49	124	133	39	37
39	78	USA-MASSACHUSETTS	CAPE COD	41.5N	70.5W	41.3N	70.4W	0		NV	100	U	Y	84	281	17:55:51	124	133	39	37
39	79	USA-MASSACHUSETTS	CAPE COD	41.5N	70.0W	41.0N	70.0W	0	NW	LO	100	U	Y	84	281	17:55:57	124	133	39	37
39	80	USA-MASSACHUSETTS	CAPE COD	42.0N	71.0W	40.9N	69.8W	0	N	LO	100	U	Y	84	281	17:56: 0	124	134	39	37
39	81	USA-MASSACHUSETTS	CAPE COD	41.5N	70.5W	40.7N	69.8W	0	NW	LO	100	U	Y	84	281	17:56: 3	124	134	39	37
39	82	PACIFIC OCEAN	STORM IN NORTH PACIFIC	50.6N	177.3E	50.6N	177.3E	100		HO	100	N	N	84	281	19: 9:35	127	58	6	38
39	83	PACIFIC OCEAN	STORM IN NORTH PACIFIC	51.0N	178.4E	51.0N	178.4E	100		HO	100	N	N	84	281	19: 9:48	127	59	7	38
39	84	USA-ALASKA	HAGEMEISTER ISLAND	59.5N	161.0W	56.1N	161.1W	60	N	LO	100	N	N	84	281	19:13: 9	127	76	16	38
39	85	USA-ALASKA	AHKLUN MOUNTAINS/LAKES	60.5N	158.5W	56.2N	160.2W	70	NE	LO	100	N	N	84	281	19:13:17	127	77	16	38
39	86	USA-ALASKA	ALASKA PEN/NAKNEK LAKE	59.5N	158.5W	58.5N	157.9W	30	NE	LO	100	N	N	84	281	19:13:37	127	79	17	38
39	87	USA-ALASKA	ALASKA PEN/NAKNEK LAKE	60.0N	157.0W	58.6N	156.5W	40	N	LO	100	N	N	84	281	19:13:49	127	80	17	38
39	88	USA-ALASKA	ALASKA PEN/NAKNEK LAKE	58.5N	155.0W	58.8N	154.5W	30	NW	LO	100	N	N	84	281	19:14: 6	127	82	18	38
39	89	USA-ALASKA	ALASKA PEN/NAKNEK LAKE	58.5N	155.0W	58.9N	151.9W	40	NW	LO	100	N	N	84	281	19:14:28	127	84	19	38
39	90	CANADA-BC	TESLIN LAKE	60.0N	132.0W	58.2N	131.4W	80	NW	HO	100	N	N	84	281	19:17:22	127	102	28	38
39	91	CANADA-NT	MACKENZIE MOUNTAINS	61.5N	123.5W	55.1N	124.5W	60	NW	HO	100	N	N	84	281	19:18:24	127	108	28	38
39	92	CANADA-S	LAKE DIFFENBAKER	55.0N	106.0W	51.2N	110.9W	30	W	LO	100	N	N	84	281	19:20:43	126	119	33	38
39	93	USA-FLORIDA	PENSACOLA BAY/CLOUDS	30.5N	87.0W	33.8N	84.6W	80	SW	LO	100	N	N	84	281	19:27:19	123	139	41	38
39	94	USA-FLORIDA	CHOCTAWATCHEE BAY	30.5N	86.5W	33.0N	83.9W	70	SW	LO	100	N	N	84	281	19:27:33	123	139	41	38
39	95	USA-FLORIDA	LIGHTHOUSE POINT	30.0N	84.0W	31.4N	82.4W	60	SW	LO	100	N	N	84	281	19:29: 5	122	140	41	38
39	96	BAHAMAS	BAHAMA IS/SOUTH BIMINI	26.5N	78.5W	28.2N	79.7W	50	S	LO	100	N	N	84	281	19:29: 6	122	141	41	38
39	97	BAHAMAS	ANDROS IS/SOUTH BIMINI	25.0N	78.0W	27.8N	79.4W	50	S	LO	100	N	N	84	281	19:29:12	122	142	41	38
39	98	BAHAMAS	ANDROS ISLAND	24.0N	78.0W	27.1N	78.9W	80	S	LO	100	N	N	84	281	19:29:25	122	142	41	38
39	99	CUBA	ZAPATA PENINSULA/CLOUDS	22.0N	82.0W	24.8N	77.1W	30	SW	LO	100	N	N	84	281	19:30: 9	121	143	41	38
39	100	CUBA	CAYO ROMANO/CLOUDS	22.0N	78.0W	24.0N	76.5W	40	SW	LO	100	N	N	84	281	19:30:23	121	143	41	38
39	101	CUBA	GUANTANAMO BAY	20.0N	75.5W	20.4N	74.0W	30	W	LO	100	N	N	84	281	19:31:29	121	144	41	38
39	102	HAITI	NORTHWEST PENINSULA	19.5N	72.5W	19.6N	73.4W	80	E	LO	100	N	N	84	281	19:31:43	121	144	41	38
39	103	HAITI	NORTHWEST PENINSULA	19.0N	74.0W	19.2N	73.1W	80	SW	LO	100	N	N	84	281	19:31:51	120	144	41	38
39	104	HAITI	CARIBBEAN SEA EDDIES	19.0N	75.0W	17.9N	72.3W	40	SW	LO	100	N	N	84	281	19:32:15	120	145	40	38
39	105	PUERTO RICO	ISLA MONA/MONA PASSAGE	18.0N	67.0W	18.6N	70.8W	70	NW	HO	100	N	N	84	281	19:32:55	120	145	40	38
39	106	LESSER ANTILLES	BONAIRE	12.0N	68.0W	13.5N	69.5W	60	SW	LO	100	N	N	84	281	19:33:33	120	145	39	38
39	107	ATLANTIC OCEAN	CLOUDS AND WATER	27.8S	43.7W	27.8S	43.7W	20		HO	100	N	N	84	281	19:45:50	122	142	15	38

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
39	108	USA-UTAH	LAKE POWELL/CANYONLANDS	37.0N	111.0W	37.1N	110.6W	2		NV	100	N	N	84 281	20:55: 8	123	137	40	38
40	3	ARGENTINA	CLOUDS	50.4S	65.1W	50.4S	65.1W	99		NV	100	N	Y	84 285	21:42:56	126	121	9	104
40	4	ARGENTINA	CLOUDS	50.6S	64.7W	50.6S	64.7W	100		NV	100	N	Y	84 285	21:43: 1	126	121	9	104
40	5	ARGENTINA	CLOUDS	50.8S	64.2W	50.8S	64.2W	100		NV	100	N	Y	84 285	21:43: 7	126	120	8	104
40	6	FALKLAND ISLANDS	EAST FALKLAND	51.5S	58.5W	51.8S	61.5W	80		NV	100	N	N	84 285	21:43:37	127	118	7	104
40	7	USSR	STANOVOY MTS/GONAM RIVER	58.0N	125.0E	58.1N	125.1E	5		NV	100	N	Y	84 285	22:30:59	125	76	2	105
40	8	USSR	STANOVOY MTS/GONAM RIVER	56.0N	125.5E	56.2N	126.1E	5		NV	100	N	Y	84 285	22:31: 8	125	77	3	105
40	9	USSR	STANOVOY MTS/GONAM RIVER	56.0N	126.0E	56.3N	126.7E	5		NV	100	N	Y	84 285	22:31:13	125	78	3	105
40	10	USSR	STANOVOY MTS/GONAM RIVER	56.0N	127.5E	56.3N	127.2E	10		NV	100	N	Y	84 285	22:31:18	125	78	3	105
40	11	USSR	STANOVOY MTS/GONAM RIVER	56.5N	127.5E	56.4N	127.7E	20		NV	100	N	Y	84 285	22:31:22	125	78	4	105
40	12	PACIFIC OCEAN	CLOUDS & WATER	7.5S	131.0W	7.4S	130.8W	30			100	N	N	84 285	22:57:34	120	146	53	105
40	13		CARGO BAY/TAIL			34.3S	111.5W				100	F	N	84 285	23: 5:46	123	138	30	105
40	14	SAUDI ARABIA	PORT COMPLEX/AL JUBAYL	27.0N	49.5E	28.0N	48.8E	0		NV	100	N	Y	84 286	9: 9:15	121	141	53	112
40	15	SAUDI ARABIA	PORT COMPLEX/AL JUBAYL	27.0N	50.0E	27.6N	49.1E	0		NV	100	N	Y	84 286	9: 9:22	121	142	53	112
40	16	SAUDI ARABIA	RAS TANNURAH	26.5N	50.0E	27.3N	49.3E	0		NV	100	N	Y	84 286	9: 9:27	121	142	53	112
40	17	SAUDI ARABIA	COASTLINE/BAHRAIN/QATAR	26.5N	50.5E	26.6N	49.9E	0		NV	100	N	Y	84 286	9: 9:40	121	142	54	112
40	18	ATLANTIC OCEAN	STORM IN NORTH ATLANTIC	55.7N	22.6W	55.7N	22.6W	99		HO	100	N	N	84 286	10:26:47	125	105	17	113
40	19	ATLANTIC OCEAN	STORM IN NORTH ATLANTIC	55.7N	22.0W	55.7N	22.0W	99		HO	100	N	N	84 286	10:26:52	125	105	18	113
40	20	ATLANTIC OCEAN	STORM IN NORTH ATLANTIC	55.5N	21.1W	55.5N	21.1W	95		HO	100	N	N	84 286	10:27: 0	125	106	18	113
40	21	CHANNEL ISLANDS	GUERNSEY & JERSEY IS	49.5N	2.5W	50.0N	1.8W	50		NV	100	N	Y	84 286	10:30:17	124	122	29	113
40	22	CHANNEL ISLANDS	GUERNSEY & JERSEY IS	49.0N	2.0W	49.7N	1.3W	60		NV	100	N	Y	84 286	10:30:24	124	122	30	113
40	23	ENGLAND	LONDON/CLOUDS	51.0N	0.5E	48.9N	0.4E	60	N	LO	100	N	N	84 286	10:30:46	124	124	31	113
40	24	FRANCE	CHARTRES	48.5N	1.0E	48.2N	1.9E	70		NV	100	N	N	84 286	10:31: 5	124	125	32	113
40	25	FRANCE	MONTS AUVERGNE/MARY PEAK	45.0N	3.0E	46.8N	4.2E	70	SW	LO	100	N	N	84 286	10:31:36	124	127	34	113
40	26	FRANCE	MONTS AUVERGNE/MARY PEAK	45.0N	3.0E	46.5N	4.9E	70	SW	LO	100	N	N	84 286	10:31:45	124	127	34	113
40	27	FRANCE	CEVENNES/GULF OF LION	44.0N	3.5E	46.1N	5.7E	50	SW	LO	100	N	N	84 286	10:31:56	124	128	35	113
40	28	FRANCE	DURANCE R/MARITIME ALPS	44.5N	6.0E	45.6N	6.5E	20	SW	LO	100	N	N	84 286	10:32: 8	124	129	35	113
40	29	FRANCE	DURANCE R/MARITIME ALPS	44.0N	6.0E	45.4N	6.9E	5	SW	LO	100	N	N	84 286	10:32:13	124	129	36	113
40	30	FRANCE	THE ALPS	45.5N	7.0E	45.1N	7.3E	10		NV	100	N	Y	84 286	10:32:19	124	129	36	113
40	31	ITALY	TORINO/THE ALPS	45.0N	7.0E	44.9N	7.7E	0		NV	100	N	Y	84 286	10:32:24	124	129	36	113
40	32	ITALY	TORINO/THE ALPS	45.0N	8.0E	44.6N	8.1E	1		NV	100	N	Y	84 286	10:32:30	124	130	37	113
40	33	SICILY	MALTA CHANNEL STRUCTURES	36.5N	15.0E	38.6N	16.1E	20	SW	LO	100	N	N	84 286	10:34:41	123	135	43	113
40	34		PAYLOAD BAY/RMS/SIR-B AN			34.0N	20.9E				100	N	N	84 286	10:36:12	122	138	48	113
40	35	LIBYA	JABAL AL AKHDAR	32.5N	22.0E	31.3N	23.4E	10	SW	LO	100	N	N	84 286	10:37: 5	122	140	50	113
40	36		OMS PODS/RMS			27.9N	26.3E				100	N	N	84 286	10:38:10	121	142	53	113
40	37	CANADA-N	KOROC R/SAGLEK BAY	58.5N	64.0W	57.1N	62.2W	20	NW	LO	100	N	Y	84 286	11:53:14	126	90	8	114
40	38	CANADA-N	KOROC R/SAGLEK BAY	58.5N	63.0W	57.1N	61.6W	20	NW	LO	100	N	Y	84 286	11:53:19	126	90	9	114
40	39	CANADA-N	COASTLINE/PACK ICE	58.0N	61.5W	57.1N	60.6W	20	NW	LO	100	N	Y	84 286	11:53:27	126	91	9	114
40	40	CANADA-N	COASTLINE/PACK ICE	57.5N	61.5W	57.1N	60.2W	20	NW	LO	100	N	Y	84 286	11:53:31	126	92	9	114
40	41	SPAIN	NORTHWESTERN SPAIN	43.5N	7.5W	43.1N	12.1W	60	E	HO	100	N	N	84 286	12: 1:58	123	131	38	114
40	42	SPAIN	NORTHWESTERN SPAIN	43.0N	8.5W	42.3N	11.0W	30	NE	LO	100	N	N	84 286	12: 2:16	123	132	39	114
40	43	SPAIN	LEON PROVINCE	42.5N	6.5W	41.7N	10.2W	30	NE	LO	100	N	N	84 286	12: 2:28	123	133	40	114
40	44	SPAIN	CORDILLERA CANTABRICA	43.0N	5.5W	41.4N	8.8W	40	NE	LO	100	N	N	84 286	12: 2:35	123	133	40	114
40	45	SPAIN	GULF OF CADIZ INTERN WVS	37.0N	7.0W	38.6N	6.4W	0	SW	LO	100	N	N	84 286	12: 3:34	123	135	43	114
40	46	SPAIN	GULF OF CADIZ INTERN WVS	37.0N	7.0W	38.4N	6.1W	0	SW	LO	100	N	N	84 286	12: 3:38	123	136	44	114
40	47	SPAIN	GULF OF CADIZ INTERN WVS	36.5N	6.5W	37.9N	5.6W	0	SW	LO	100	N	N	84 286	12: 3:48	122	136	44	114
40	48	SPAIN	ST OF GIBRALTAR INT WVS	36.0N	6.5W	37.6N	5.3W	3	SW	LO	100	N	N	84 286	12: 3:54	122	136	44	114
40	49	MOROCCO	ST OF GIBRALTAR INT WVS	36.0N	6.0W	37.3N	4.9W	5	SW	LO	100	N	N	84 286	12: 4: 0	122	136	45	114
40	50	MOROCCO	MEDITERRANEAN SEA STRUCT	36.0N	5.5W	37.1N	4.7W	10	SW	LO	100	N	N	84 286	12: 4: 4	122	137	45	114
40	51	MOROCCO	MEDITERRANEAN SEA STRUCT	35.5N	5.0W	36.8N	4.5W	10	SW	LO	100	N	N	84 286	12: 4: 9	122	137	45	114

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
40	52	MOROCCO	MEDITERRANEAN SEA STRUCT	35.5N	4.5W	36.6N	4.1W	10	SW	LO	100	N	N	84 286	12: 4:15	122	137	45	114
40	53		SIR-B ANTENNA/LFC			33.3N	0.9W				100	U	N	84 286	12: 5:19	122	139	49	114
40	54	MOZAMBIQUE	CABORA BASSA RESERVOIR	16.0S	31.5E	15.2S	30.6E	5	SE	LO	100	N	N	84 286	12:19:52	120	145	51	114
40	55	MOZAMBIQUE	COAST/ISLANDS	22.0S	35.5E	22.2S	35.3E	50		NV	100	N	N	84 286	12:21:58	121	144	45	114
40	56		SIR-B ANTENNA/DARK			30.6S	41.8E				100	N	N	84 286	12:24:34	122	140	36	114
40	57		SIR-B ANTENNA/DARK			56.7N	95.2W				100	N	N	84 286	13:20:39	125	61	3	114
40	58	CANADA-BC	FIRES/UNDEREXPOSED	56.9N	122.8W	56.9N	122.8W	70			100	U	N	84 286	13:20:52	126	86	11	115
40	59	CANADA-BC	CLOUDS/MOUNTAINS/DARK	56.7N	120.7W	56.7N	120.7W	50			100	U	N	84 286	13:21:10	126	88	12	117
40	60	USA-MICHIGAN	MARQUETTE/SAWYER AFB	46.5N	87.5W	47.1N	88.3W	70	NW	LO	250	N	N	84 286	13:27: 4	124	127	33	117
40	61	CANADA-O	LONG POINT BAY	43.0N	80.5W	43.3N	80.2W	20		NV	250	N	Y	84 286	13:28:31	123	131	38	117
40	62	CANADA-O	LONG POINT BAY	42.5N	80.5W	43.1N	79.8W	30		NV	250	N	Y	84 286	13:28:37	123	131	38	117
40	63	USA-PENNSYLVANIA	ERIE/CONTRAILS	42.0N	80.0W	42.4N	78.9W	30	NW	LO	250	N	N	84 286	13:28:51	123	132	39	117
40	64	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	41.0N	78.0W	41.5N	77.8W	5	W	LO	250	N	Y	84 286	13:29:12	123	133	40	117
40	65	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	40.5N	78.0W	41.3N	77.4W	2	W	LO	250	N	Y	84 286	13:29:15	123	133	40	117
40	66	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	40.5N	78.0W	41.2N	77.3W	2	W	LO	250	N	Y	84 286	13:29:17	123	133	40	117
40	67	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	40.5N	78.0W	41.1N	77.1W	2	W	LO	250	N	Y	84 286	13:29:20	123	133	41	117
40	68	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	40.5N	77.0W	41.0N	76.8W	0	W	LO	250	N	Y	84 286	13:29:23	123	133	41	117
40	69	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	40.0N	77.5W	40.8N	76.8W	0	W	LO	250	N	Y	84 286	13:29:26	123	134	41	117
40	70	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	40.0N	77.5W	40.6N	76.5W	0	W	LO	250	N	Y	84 286	13:29:30	123	134	41	117
40	71	USA-DIST OF COLUMBIA	WASHINGTON DC	39.0N	77.0W	40.1N	75.8W	0	W	LO	250	N	N	84 286	13:29:42	123	134	42	117
40	72	USA-MARYLAND	BALTIMORE/CHESAPEAKE BAY	39.5N	76.5W	39.5N	75.1W	10	W	LO	250	N	Y	84 286	13:29:54	123	135	42	117
40	73	USA-MARYLAND	BALTIMORE/CHESAPEAKE BAY	39.0N	76.5W	39.2N	74.8W	10	W	LO	250	N	Y	84 286	13:30: 0	123	135	43	117
40	74	USA-NORTH CAROLINA	THE EYE OF JOSEPHINE	35.1N	70.4W	35.1N	70.4W	99			250	N	Y	84 286	13:31:22	122	138	47	117
40	75	USA-NORTH CAROLINA	THE EYE OF JOSEPHINE	34.9N	70.2W	34.9N	70.2W	95			250	N	Y	84 286	13:31:26	122	138	47	117
40	76		LARGE FORMAT CAMERA OPEN			32.5N	67.9W				250	N	N	84 286	13:32:13	122	139	49	117
40	77	SURINAME	COAST/ATLANTIC OCEAN	6.5N	57.0W	7.4N	50.3W	50	SW	LO	250	N	N	84 286	13:39:50	119	146	62	117
40	78	SURINAME	COAST/ATLANTIC OCEAN	6.0N	55.0W	7.2N	50.2W	60	SW	LO	250	N	N	84 286	13:39:54	119	146	62	117
40	79	FRENCH GUIANA	COAST/ATLANTIC OCEAN	5.5N	54.0W	7.0N	50.1W	50	SW	LO	250	N	N	84 286	13:39:57	119	146	62	117
40	80	FRENCH GUIANA	COAST/ATLANTIC OCEAN	5.5N	53.0W	6.9N	50.0W	60	SW	LO	250	N	N	84 286	13:40: 0	119	146	62	117
40	81	FRENCH GUIANA	COAST/ATLANTIC OCEAN	5.5N	53.0W	6.7N	49.9W	70	SW	LO	250	N	N	84 286	13:40: 3	119	146	62	117
40	82	BRAZIL	COAST/ATLANTIC OCEAN	4.0N	51.0W	5.2N	49.0W	40	SW	LO	250	N	N	84 286	13:40:29	119	146	62	117
40	83	BRAZIL	COAST/ATLANTIC OCEAN	4.0N	51.0W	5.1N	48.8W	50	SW	LO	250	N	N	84 286	13:40:32	119	146	62	117
40	84	BRAZIL	COAST/ATLANTIC OCEAN	3.0N	51.0W	4.7N	48.7W	60	SW	LO	250	N	N	84 286	13:40:38	119	146	62	117
40	85	ATLANTIC OCEAN	WATER AND CLOUDS	2.8N	47.8W	2.8N	47.8W	20			250	N	N	84 286	13:41:12	119	146	61	117
40	86	BRAZIL	COAST/ATLANTIC OCEAN	1.0S	46.5W	0.7S	45.6W	60	W	LO	250	N	N	84 286	13:42:15	119	147	60	117
40	87	BRAZIL	COAST/TURNACU BAY COLOR	1.5S	45.5W	1.3S	45.2W	60		NV	250	N	N	84 286	13:42:25	119	147	60	117
40	88	BRAZIL	COAST/SAN MARCOS B COLOR	2.0S	44.0W	2.8S	44.4W	20		NV	250	N	N	84 286	13:42:51	119	148	60	117
40	89	BRAZIL	COAST/SAN MARCOS B COLOR	2.5S	44.5W	2.9S	44.3W	40		NV	250	N	N	84 286	13:42:54	119	146	59	117
40	90	BRAZIL	COAST/SAN MARCOS B COLOR	3.0S	44.5W	3.6S	43.9W	70	NW	LO	250	F	N	84 286	13:43: 5	120	146	59	117
40	91	BRAZIL	RIO MEARIM	3.5S	44.5W	4.2S	43.5W	80	NW	LO	250	F	N	84 286	13:43:17	120	146	59	117
40	92	BRAZIL	SOBRADINHO RESERVOIR	9.0S	41.0W	8.3S	41.2W	30	S	LO	250	F	N	84 286	13:44:28	120	148	57	117
40	93	BRAZIL	SOBRADINHO RES/PETROLINA	9.5S	41.0W	8.5S	41.1W	50	S	LO	250	F	N	84 286	13:44:32	120	148	56	117
40	94	BRAZIL	FIRES	9.6S	40.4W	9.6S	40.4W	10			250	F	N	84 286	13:44:52	120	148	56	117
40	95	BRAZIL	SOBRADINHO RESERVOIR	9.5S	41.5W	10.6S	39.8W	30	NW	LO	250	F	N	84 286	13:45: 8	120	148	55	117
40	96	BRAZIL	SOBRADINHO RESERVOIR	10.0S	41.5W	10.7S	39.8W	30	NW	LO	250	F	N	84 286	13:45:11	120	148	55	117
40	97	BRAZIL	SOBRADINHO RESERVOIR	10.0S	42.0W	10.9S	39.6W	40	NW	LO	250	F	N	84 286	13:45:15	120	148	55	117
40	98	BRAZIL	SALVADOR/SANTOS BAY	13.0S	38.5W	13.2S	38.2W	50		NV	250	F	Y	84 286	13:45:56	120	145	53	117
40	99	BRAZIL	SALVADOR/SANTOS BAY	13.0S	38.5W	13.4S	38.1W	50		NV	250	F	Y	84 286	13:45:59	120	145	53	117
40	100	BRAZIL	SALVADOR/SANTOS BAY	13.0S	38.5W	13.6S	38.0W	50	NW	LO	250	F	Y	84 286	13:46: 3	120	145	53	117
40	101	BRAZIL	SALVADOR/SANTOS B COLOR	13.0S	38.5W	13.9S	37.8W	50	NW	LO	250	F	Y	84 286	13:46: 8	120	145	53	117

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
40	102	BRAZIL	ILHA DE TINHARE	13.5S	39.0W	14.2S	37.6W	10	NW	LO	250	F	N	84 286	16:46:13	120	145	52	117
40	103	BRAZIL	PONTA DO MUTA	14.0S	39.0W	14.4S	37.5W	50	W	LO	250	F	N	84 286	16:46:17	120	145	52	117
40	104	USA-NEBRASKA	GRAND ISLAND/PLATTE R	41.0N	98.5W	40.3N	98.7W	0		NV	250	F	N	84 286	17:58:30	123	134	41	118
40	105	USA-NEBRASKA	LINCOLN/CRETE	41.0N	97.0W	39.6N	97.8W	20	N	LO	250	F	N	84 286	17:58:45	123	135	42	118
40	106	USA-MISSISSIPPI	BAY ST LOUIS/GULFPORT	30.5N	89.5W	31.0N	89.0W	25		NV	250	F	N	84 286	18: 1:36	122	140	51	118
40	107	USA-ALABAMA	MOBILE BAY/BON SECOUR B	30.5N	88.0W	29.7N	88.0W	20		NV	250	F	N	84 286	18: 1:59	121	141	52	118
40	108	USA-FLORIDA	PENSACOLA/PENSACOLA BAY	30.5N	87.5W	29.2N	87.5W	25		NV	250	F	N	84 286	18: 2:10	121	141	52	118
40	109	USA-FLORIDA	CAPE CANAVERAL/CLOUDS	28.5N	80.5W	28.6N	85.5W	80	NE	LO	250	N	N	84 286	18: 2:58	121	142	54	118
40	110	USA-FLORIDA	TAMPA BAY/ST PETERSBERG	27.5N	82.5W	25.6N	84.7W	50	NE	LO	250	N	N	84 286	18: 3:17	121	142	55	118
40	111	USA-FLORIDA	LAKE OKEECHOBEE	27.0N	80.5W	24.3N	83.8W	80	NE	LO	250	N	N	84 286	18: 3:40	121	143	56	118
40	112	USA-FLORIDA	KEY WEST/BOCA GRANDE CH	24.5N	82.0W	23.8N	83.4W	10	NE	LO	250	N	N	84 286	18: 3:49	121	143	56	118
40	113	CUBA	VARADERO/CARDENAS BAY	23.0N	81.5W	23.1N	82.9W	50	E	LO	250	N	N	84 286	18: 4: 2	121	143	57	118
40	114	USA-FLORIDA	SOUTHEAST FLORIDA COAST	26.0N	80.0W	22.1N	82.2W	80	NE	LO	250	N	N	84 286	18: 4:20	121	144	57	118
41	2	DENMARK	JYLLAND COASTLINE/CLOUDS	55.0N	7.5E	54.6N	10.0E	85		NV	100	N	N	84 283	9:51: 4	128	110	27	64
41	3		OUT OF FOCUS			53.2N	15.5E				100	F	N	84 283	9:51:59	128	114	29	64
41	4	OMAN	INTERNAL WAVE PACKETS	18.5N	57.5E	19.5N	59.1E	10	W	LO	100	N	N	84 283	10: 4: 7	122	144	48	64
41	5	OMAN	INTERNAL WAVE PACKETS	17.5N	56.5E	19.2N	59.3E	10	W	LO	100	F	N	84 283	10: 4:12	122	144	48	64
41	6	OMAN	INTERNAL WAVE PACKETS	17.5N	57.0E	18.7N	59.6E	10	W	LO	100	F	N	84 283	10: 4:21	122	144	48	64
41	7	ARABIAN SEA	EDDIES NEAR OMAN COAST	17.6N	60.4E	17.6N	60.4E	0	W	LO	100	N	N	84 283	10: 4:42	122	145	48	64
41	8	IRELAND	LAKE CONN/COAST/CLOUDS	54.0N	9.0W	54.0N	9.9W	70		NV	100	Q	N	84 283	11:20:27	128	112	28	65
41	9	IRELAND	DUNDALK BAY/IRISH SEA	54.0N	6.0W	53.3N	7.4W	60	E	LO	100	Q	N	84 283	11:20:52	128	114	28	65
41	10	NORTHERN IRELAND	DUNDALK BAY/ISLE OF MAN	54.5N	5.5W	53.0N	6.1W	30	E	LO	100	Q	N	84 283	11:21: 5	128	115	29	65
41	11	NORTHERN IRELAND	ISLE OF MAN/NORTH CHAN	55.5N	6.5W	51.2N	0.7W	80	NW	HO	100	N	N	84 283	11:22: 3	127	119	32	65
41	12	SWITZERLAND	THE ALPS/LAKE GENEVA	46.0N	7.0E	47.5N	7.3E	40		NV	100	N	Y	84 283	11:23:42	127	126	36	65
41	13	SWITZERLAND	THE ALPS/THUNER LAKE	46.5N	7.5E	47.2N	7.9E	40		NV	100	N	Y	84 283	11:23:50	126	126	36	65
41	14	SWITZERLAND	THE ALPS/THUNER LAKE	47.0N	8.0E	47.0N	8.1E	30		NV	100	N	Y	84 283	11:23:53	126	127	36	65
41	15	SWITZERLAND	THE ALPS/ZURICH	47.0N	8.5E	46.9N	8.4E	30		NV	100	N	Y	84 283	11:23:57	126	127	36	65
41	16	SWITZERLAND	THE ALPS/ZURICH	47.5N	9.0E	46.2N	9.7E	50	NW	LO	100	N	N	84 283	11:24:14	126	128	37	65
41	17	ITALY	LAGO DI GARDA	45.5N	10.5E	45.7N	10.4E	10		NV	100	N	N	84 283	11:24:25	126	128	37	65
41	18	ITALY	LIGURIAN SEA EDDIES	44.0N	10.0E	45.1N	11.4E	0	SW	LO	100	N	N	84 283	11:24:39	126	129	38	65
41	19	ITALY	PO RIVER SEDIMENT	45.0N	12.5E	44.7N	12.0E	5		NV	100	N	N	84 283	11:24:48	126	130	38	65
41	20	YUGOSLAVIA	GULF OF VENICE	45.5N	13.5E	44.2N	12.8E	1		NV	100	N	N	84 283	11:25: 0	126	130	39	65
41	21	YUGOSLAVIA	RIJEKA/ISLANDS	45.0N	14.5E	43.9N	13.2E	1		NV	100	N	Y	84 283	11:25: 6	126	130	39	65
41	22	YUGOSLAVIA	VELEBIT PLANINA	44.5N	15.0E	43.8N	13.4E	1		NV	100	N	Y	84 283	11:25: 8	126	131	39	65
41	23	ITALY	TYRRHENIAN SEA	42.5N	11.5E	43.3N	14.2E	10	SW	LO	100	N	N	84 283	11:25:20	126	131	39	65
41	24	YUGOSLAVIA	DINARIC ALPS	44.0N	16.0E	42.6N	15.3E	15		NV	100	N	Y	84 283	11:25:37	126	132	40	65
41	25	YUGOSLAVIA	DINARIC ALPS	43.5N	16.5E	42.4N	15.4E	40		NV	100	N	Y	84 283	11:25:40	126	132	40	65
41	26	ITALY	BARI/TARANTO	41.0N	17.0E	41.5N	16.7E	5		NV	100	N	Y	84 283	11:26: 0	125	133	41	65
41	27	ITALY	TARANTO	40.5N	17.0E	40.7N	17.7E	15		NV	100	N	Y	84 283	11:26:17	125	134	41	65
41	28	CANADA-BC	ROCKY MOUNTAINS	57.0N	130.8W	57.0N	130.8W	50		HO	100	N	N	84 283	17:11:47	128	86	14	69
41	29	CANADA-BC	ROCKY MOUNTAINS	57.0N	130.3W	57.0N	130.3W	50		HO	100	N	N	84 283	17:11:51	128	86	15	69
41	30	CANADA-S	LAKE ATHABASCA	59.0N	109.0W	55.7N	108.6W	40	N	LO	100	N	N	84 283	17:14:56	128	105	24	69
41	31	CANADA-S	LAKE ATHABASCA	58.0N	106.5W	54.8N	104.2W	10	NW	LO	100	N	N	84 283	17:15:37	128	109	25	69
41	32	CANADA-S	DEEP BAY/REINDEER LAKE	56.5N	103.0W	54.8N	103.4W	0	N	LO	100	N	N	84 283	17:15:44	128	109	26	69
41	33	CANADA-M	PORCUPINE HILLS/LAKES	52.5N	101.5W	54.4N	101.9W	0	N	LO	100	N	N	84 283	17:15:59	128	111	26	69
41	34	CANADA-M	LAKE WINNIPEGOSIS/LAKES	52.5N	100.5W			0	N	LO	100	N	N	84 283					69
41	35	CANADA-M	CEDAR LAKE/LAKES	53.0N	99.5W			0	N	LO	100	N	N	84 283					69
41	36	CANADA-M	LAKE MANITOBA/LAKES	51.5N	98.5W			5		LO	100	N	N	84 283					69
41	37	CANADA-M	SOUTHERN LAKE WINNIPEG	51.0N	97.0W			10		LO	100	N	N	84 283					69
41	38	CANADA-M	LK WINNIPEG/LK OF WOODS	50.5N	96.0W			20		LO	100	N	N	84 283					69

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
41	39	CANADA-O	CANADIAN SHIELD LAKES	50.0N	93.5W	52.1N	93.6W	20	S	LO	100	N	N	84 283	17:17:23	127	117	30	69
41	40	CANADA-O	CANADIAN SHIELD LAKES	49.5N	92.0W	51.7N	92.6W	30	SE	LO	100	N	N	84 283	17:17:34	127	118	31	69
41	41	USA-NORTH CAROLINA	SPIRAL EDDY FIELD	36.5N	76.0W	41.8N	73.7W	60	SW	HO	100	N	N	84 283	17:21:48	126	133	41	69
41	42	USA-MARYLAND	SPIRAL EDDY FIELD	38.0N	74.0W	41.3N	73.3W	70	SW	LO	100	N	N	84 283	17:21:52	125	133	41	69
41	43	USA-DELAWARE	SPIRAL EDDY FIELD	38.5N	74.0W	41.1N	73.0W	70	SW	LO	100	N	N	84 283	17:21:57	125	133	41	69
41	44	ATLANTIC OCEAN	SPIRAL EDDY FIELD	38.5N	73.0W	40.7N	72.8W	60	SW	LO	100	N	N	84 283	17:22: 4	125	134	41	69
41	45	ATLANTIC OCEAN	SPIRAL EDDY FIELD	38.5N	73.0W	40.8N	72.4W	50	SW	LO	100	N	N	84 283	17:22: 7	125	134	41	69
41	46	ATLANTIC OCEAN	SPIRAL EDDY FIELD	38.5N	73.0W	40.4N	72.2W	50	SW	LO	100	N	N	84 283	17:22:11	125	134	42	69
41	47	ATLANTIC OCEAN	SPIRAL EDDY FIELD	38.0N	73.5W	40.2N	72.0W	50	SW	LO	100	N	N	84 283	17:22:15	125	134	42	69
41	48	ATLANTIC OCEAN	SPIRAL EDDY FIELD	39.0N	73.0W	40.0N	71.7W	20	SW	LO	100	N	N	84 283	17:22:19	125	134	42	69
41	49	ATLANTIC OCEAN	SPIRAL EDDY FIELD	39.0N	72.5W	39.8N	71.5W	15	SW	LO	100	N	N	84 283	17:22:23	125	134	42	69
41	50	ATLANTIC OCEAN	SPIRAL EDDY FIELD	38.5N	72.5W	39.6N	71.2W	15	SW	LO	100	N	N	84 283	17:22:28	125	135	42	69
41	51	ATLANTIC OCEAN	CLOUDS/DARK	38.0N	72.5W	38.7N	70.2W	20	W	LO	100	U	N	84 283	17:22:46	125	135	43	69
41	52	ATLANTIC OCEAN	CLOUDS/DARK	37.5N	72.5W	38.3N	69.7W	30	NW	LO	100	U	N	84 283	17:22:55	125	136	43	69
41	53	ATLANTIC OCEAN	CLOUDS/DARK	38.0N	73.0W	37.9N	69.2W	15	NW	LO	100	U	N	84 283	17:23: 4	125	136	43	69
41	54	BRAZIL	SAO LUIS/CLOUDS	2.5S	44.5W	0.7N	42.4W	80	SW	HO	100	N	N	84 283	17:34:26	121	147	45	69
41	55	BRAZIL	PONTA DO MANGUE/CLOUDS	3.0S	43.0W	0.2N	42.1W	75	SW	LO	100	N	N	84 283	17:34:34	121	147	44	69
41	56	BRAZIL	CAMOCIM/ACARCU/COAST	3.0S	40.5W	2.2S	40.8W	20		NV	100	N	N	84 283	17:35:19	121	146	43	69
41	57	BRAZIL	CLOUDS/LARGE LAKE	5.4S	38.6W	5.4S	38.8W	80		HO	100	N	N	84 283	17:36:15	121	146	41	69
41	58	BERING SEA	CLOUDS	53.3N	177.5W	53.3N	177.5W	95		HO	100	N	N	84 283	18:37: 5	128	65	3	70
41	59	USA-ALASKA	ANIAKCHAK CRATER	57.0N	156.5W	56.4N	161.7W	50	NE	LO	100	N	N	84 283	18:39:33	128	78	11	70
41	60	USA-ALASKA	ANIAKCHAK CRATER	57.0N	156.0W	56.5N	160.9W	40	NE	LO	100	N	N	84 283	18:39:40	128	79	11	70
41	61	USA-ALASKA	ANIAKCHAK CRATER	57.0N	157.0W	56.5N	160.2W	20	NE	LO	100	N	N	84 283	18:39:46	128	80	11	70
41	62	USA-ALASKA	MOUNT CHIGINAGAK	57.0N	157.0W	56.6N	159.4W	10	NE	LO	100	F	N	84 283	18:39:53	128	80	12	70
41	63	USA-ALASKA	ANIAKCHAK CRATER	57.0N	156.5W	56.9N	155.6W	40	W	LO	100	N	N	84 283	18:40:25	128	84	13	70
41	64	USA-ALASKA	ANIAKCHAK CRATER	57.0N	157.0W	56.9N	155.0W	10	W	LO	100	N	N	84 283	18:40:30	128	84	13	70
41	65	USA-ALASKA	MOUNT CHIGINAGAK	57.5N	156.5W	57.0N	154.4W	1	W	LO	100	F	N	84 283	18:40:35	128	85	14	70
41	66	USA-ALASKA	ALASKA PEN/KODIAK ISLAND	57.0N	154.5W	57.1N	148.6W	50	W	LO	100	N	N	84 283	18:41:24	128	90	16	70
41	67	USA-ALASKA	ALASKA PEN/KODIAK ISLAND	57.0N	157.0W	57.1N	147.1W	50	W	HO	100	N	N	84 283	18:41:38	128	91	17	70
41	68	USA-ALASKA	MALASPINA,BERING GLACIER	61.5N	144.0W	58.7N	139.1W	60	NW	HO	100	N	N	84 283	18:42:44	128	98	20	70
41	69	CANADA-BC	LAKES/GLACIERS/CLOUDS	60.0N	134.0W	58.3N	135.7W	50	N	LO	100	N	N	84 283	18:43:13	128	101	22	70
41	70	CANADA-YT	LAKES/GLACIERS/CLOUDS	61.0N	134.0W	55.9N	132.3W	50	NW	HO	100	N	N	84 283	18:43:43	128	104	23	70
41	71	USA-WYOMING	YELLOWSTONE NATL PARK	44.0N	110.0W	48.3N	107.1W	50	SW	LO	100	N	N	84 283	18:48: 7	127	125	35	70
41	72	USA-WYOMING	BIG HORN MOUNTAINS	44.0N	107.0W	48.0N	106.5W	15	S	HO	100	N	N	84 283	18:48:15	127	125	35	70
41	73	USA-FLORIDA	CLOUDS	27.0N	80.0W	34.1N	87.9W	90	SE	HO	100	N	N	84 283	18:53:16	124	138	45	70
41	74	USA-FLORIDA	PENSACOLA BAY	30.0N	86.5W	32.5N	86.4W	70	S	HO	100	F	N	84 283	18:53:48	124	139	46	70
41	75	USA-FLORIDA	PENSACOLA & MOBILE BAYS	30.0N	88.0W	32.0N	85.9W	70	SW	LO	100	N	N	84 283	18:53:57	124	140	46	70
41	76	USA-FLORIDA	CAPE CANAVERAL	28.5N	80.5W	31.2N	85.2W	90	SE	HO	100	N	N	84 283	18:54:13	124	140	47	70
41	77	CUBA	WEST END/ISLA JUVENTUD	22.5N	84.0W	25.8N	80.6W	60	SW	HO	100	N	N	84 283	18:55:58	123	142	48	70
41	78	BAHAMAS	HURRICANE JOSEPHINE	21.8N	77.9W	21.8N	77.9W	70	NE	HO	100	N	N	84 283	18:57: 7	122	144	49	70
41	79	BAHAMAS	HURRICANE JOSEPHINE	21.6N	77.8W	21.6N	77.8W	70	NE	HO	100	N	N	84 283	18:57:11	122	144	49	70
41	80	BAHAMAS	HURRICANE JOSEPHINE	21.4N	77.8W	21.4N	77.8W	60	NE	HO	100	N	N	84 283	18:57:15	122	144	49	70
41	81		UNEXPOSED			0.6S	103.7E				100	U	N	84 283	19:47:53	121	32	-45	70
41	82		UNEXPOSED			0.3N	104.3E				100	U	N	84 283	19:48:10	121	32	-45	71
41	83	USA-CALIFORNIA	NORTHERN CENTRAL VALLEY	39.0N	122.0W	41.9N	116.4W	30	SW	HO	100	F	N	84 283	20:19:32	126	133	40	71
41	84	USA-CALIFORNIA	CENTRAL VALLEY	37.5N	121.0W	37.3N	113.7W	10	W	HO	100	N	N	84 283	20:21:10	125	136	44	71
41	85	USA-CALIFORNIA	SOUTHERN CENTRAL VALLEY	35.5N	120.0W	36.6N	113.0W	20	SW	HO	100	N	N	84 283	20:21:24	125	137	44	71
41	86	GALAPAGOS ISLANDS	ISLAND WAKES/PACIFIC OCN	0.5S	91.5W	0.0	87.1W	60	SW	HO	100	N	N	84 283	20:32:33	121	147	45	71
41	87	GALAPAGOS ISLANDS	PACIFIC OCEAN/CLOUDS	0.0	90.5W	2.7S	85.8W	70	NW	HO	100	N	N	84 283	20:33:21	121	146	44	71
41	88	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	29.0S	69.5W	27.4S	69.6W	30	S	LO	100	N	N	84 283	20:40:44	123	142	26	71

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
41	88	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	29.0S	68.5W	27.8S	69.3W	20	S	LO	100	N	N	84 283	20:40:51	123	142	25	71
41	90	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	29.0S	69.0W	28.2S	69.0W	15		NV	100	N	N	84 283	20:40:59	123	141	25	71
41	91	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	29.5S	69.0W	28.5S	68.7W	10	SW	LO	100	N	N	84 283	20:41: 5	123	141	25	71
41	92	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	29.5S	70.0W	29.1S	68.3W	5	SW	LO	100	N	N	84 283	20:41:15	123	141	24	71
41	93	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	29.5S	70.0W	29.4S	68.0W	1	W	LO	100	N	N	84 283	20:41:21	123	141	24	71
41	94	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	30.0S	70.0W	29.7S	67.8W	1	W	LO	100	N	N	84 283	20:41:27	123	141	24	71
41	95	ARGENTINA	ANDES MOUNTAINS/VOLCANOS	30.5S	70.0W	30.1S	67.4W	1	W	LO	100	N	N	84 283	20:41:34	123	141	23	71
41	96	ARGENTINA	SAN LUIS/MERCEDES	33.0S	65.5W	32.8S	65.0W	2		NV	100	U	N	84 283	20:42:27	124	139	21	71
41	97	ARGENTINA	AGRICULTURE/MARSH	34.2S	63.7W	34.2S	63.7W	1		NV	100	U	N	84 283	20:42:54	124	138	20	71
41	98	ARGENTINA	SIERRA DE CURA MALAL	38.0S	62.0W	36.6S	61.2W	1	SW	LO	100	U	N	84 283	20:43:42	124	137	17	71
41	99	ARGENTINA	BAHIA BLANCA	39.0S	62.5W	37.5S	60.3W	30	SW	LO	100	N	N	84 283	20:44: 0	125	136	16	71
41	100	ATLANTIC OCEAN	EDDIES NEAR ARGENTINA	41.5S	55.5W	41.5S	55.5W	20	SW	LO	100	N	N	84 283	20:45:23	125	133	12	71
41	101	ATLANTIC OCEAN	EDDIES NEAR ARGENTINA	41.7S	55.2W	41.7S	55.2W	30	SW	LO	100	N	N	84 283	20:45:28	125	133	12	71
41	102	KOMANDORSKIYE ISLANDS	MEDNYY ISLAND/BERING SEA	55.0N	167.5E	54.4N	167.7E	10	NE	LO	100	N	N	84 283	23:11:47	128	111	26	73
41	103	USSR	KAFIRNIGAN RIVER	38.0N	68.0E	37.2N	65.5E	0	NE	LO	100	N	N	84 284	8:12:46	125	136	44	79
41	104	AFGHANISTAN	HINDU KUSH MOUNTAINS	37.0N	70.0E	36.4N	66.3E	0	N	HO	100	N	N	84 284	8:13:03	125	137	45	79
41	105	AFGHANISTAN	HINDU KUSH MOUNTAINS	35.8N	67.0E	35.8N	67.0E	30		HO	100	N	N	84 284	8:13:15	125	137	45	79
41	106	PAKISTAN	TARBELA DAM	34.0N	73.0E	33.0N	69.7E	40	NE	LO	100	N	N	84 284	8:14:10	124	139	47	79
41	107	INDIA	INDUS RIVER/HIMALAYAS	28.0N	81.0E	27.5N	74.4E	40	NE	HO	100	N	N	84 284	8:15:55	124	142	49	79
41	108	ATLANTIC OCEAN	CLOUD GYRE	56.8N	23.2W	56.8N	23.2W	80		LO	100	N	N	84 284	9:28:40	128	82	11	80
41	109	ATLANTIC OCEAN	CLOUD GYRE	56.8N	22.4W	56.8N	22.4W	80		LO	100	N	N	84 284	9:29:47	128	83	11	80
41	110	ATLANTIC OCEAN	CLOUD GYRE	56.9N	20.9W	56.8N	20.9W	80		LO	100	N	N	84 284	9:30: 0	128	84	12	80
41	111	ENGLAND	YORKSHIRE MOORS	54.0N	0.5W	56.0N	0.6E	30	SW	LO	100	N	N	84 284	9:33: 3	128	103	21	80
42	2	MEXICO	COASTLINE/GULF OF MEXICO	23.0N	98.0W	25.0N	99.9W	80	SW	HO	50	N	N	84 281	20:59: 0	121	143	41	39
42	3	MEXICO	SHUTTLE/GULF OF MEXICO	22.5N	98.0W	18.1N	95.0W	80	NE	HO	50	N	N	84 281	21: 1: 6	120	145	41	39
42	4	MEXICO	GULF OF TEHUANTEPEC	16.0N	96.0W	15.6N	93.4W	70	NE	HO	50	N	N	84 281	21: 1:51	120	145	40	39
42	5	MEXICO	GULF OF TEHUANTEPEC	15.5N	94.5W	15.1N	93.1W	70	NE	LO	50	N	N	84 281	21: 2: 0	120	145	40	39
42	6	HONDURAS	GULFO DE FONSECA	13.5N	87.0W	11.2N	90.7W	70	NE	HO	50	N	N	84 281	21: 3: 9	120	146	39	39
42	7	NICARAGUA	LAGO DE NICARAGUA/SMOKE	11.5N	85.0W	9.9N	89.9W	60	NE	HO	50	N	N	84 281	21: 3:32	120	146	38	39
42	8	PERU	ICA/ICA RIVER VALLEY	14.0S	76.0W	14.0S	75.9W	15		NV	50	N	N	84 281	21:10:35	120	145	25	39
42	9	PERU	ICA RIVER MOUTH	15.0S	76.0W	17.2S	73.9W	85	NW	LO	50	N	N	84 281	21:11:31	120	145	23	39
42	10	PERU	COASTLINE/CLOUDS	15.0S	76.0W	20.1S	72.0W	90	NW	HO	50	N	N	84 281	21:12:24	120	144	21	39
42	11	ARGENTINA	LAVA FLOWS/SALARS/CLOUDS	26.5S	67.5W	26.5S	67.3W	70		NV	50	U	Y	84 281	21:14:21	121	142	16	39
42	12	ARGENTINA	LAVA FLOWS/SALARS/CLOUDS	26.5S	67.5W	26.7S	67.2W	70		NV	50	U	Y	84 281	21:14:25	121	142	16	39
42	13	ARGENTINA	LAVA FLOWS/SALARS/CLOUDS	26.5S	67.5W	27.1S	66.9W	60		NV	50	U	Y	84 281	21:14:32	121	142	16	39
42	14	ARGENTINA	LAVA FLOWS/SALARS/CLOUDS	26.5S	67.5W	27.4S	66.7W	0		NV	50	U	Y	84 281	21:14:37	121	142	15	39
42	15	ARGENTINA	MAR DEL PLATA/COASTLINE	38.0S	58.0W	37.7S	57.1W	0		NV	50	N	N	84 281	21:17:58	123	136	7	39
42	16	ARGENTINA	INTERNAL WAVES	39.5S	59.0W	40.1S	54.2W	0	W	LO	50	N	N	84 281	21:18:48	124	134	4	39
42	17	ATLANTIC OCEAN	INTERNAL WAVES	39.5S	58.5W	40.4S	53.9W	0	SW	LO	50	N	N	84 281	21:18:54	124	134	4	39
42	18	ATLANTIC OCEAN	INTERNAL WAVES	39.0S	58.5W	43.3S	50.1W	1	SW	LO	50	N	N	84 281	21:19:56	124	131	1	39
42	19	ATLANTIC OCEAN	INTERNAL WAVES	39.0S	58.5W	43.9S	49.2W	1	SW	LO	50	N	N	84 281	21:20: 9	124	131	1	39
42	20	PACIFIC OCEAN	CLOUDS AND WATER	31.1S	86.1W	31.1S	86.1W	95		HO	50	N	N	84 281	22:44:44	122	140	13	40
42	21	MONGOLIA	HANGAYN MOUNTAIN	47.0N	102.0E	46.4N	101.0E	0		NV	50	U	Y	84 281	23:34:33	126	52	1	41
42	22	MONGOLIA	HANGAYN MOUNTAIN	47.0N	102.0E	46.6N	101.3E	0		NV	50	U	Y	84 281	23:34:38	126	52	1	41
42	23	SWEDEN	KATTEGAT	59.0N	12.0E	57.0N	6.2E	40	NE	HO	50	N	N	84 282	8:34:58	128	86	18	47
42	24	NORWAY	KATTEGAT AND SKAGERRAK	61.0N	10.0E	57.1N	9.6E	70	NE	HO	50	N	N	84 282	8:35:26	128	89	19	47
42	25	SWEDEN	OLAND/BALTIC SEA	57.0N	17.0E	56.9N	17.8E	80	W	LO	50	N	N	84 282	8:36:35	127	96	22	47
42	26	SWEDEN	SHUTTLE OVER BALTIC SEA	56.6N	20.8E	56.6N	20.8E	90		HO	50	N	N	84 282	8:37: 1	127	98	23	47
42	27	USSR	BARSAKEL MES SALT FLAT	44.0N	59.0E	44.0N	59.9E	60		NV	50	N	N	84 282	8:44: 3	125	130	38	47
42	28	USSR	AMUDARYA RIVER/ARAL SEA	44.0N	60.0E	43.7N	60.3E	60		NV	50	N	N	84 282	8:44: 9	125	131	38	47

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	ORB
42	29	USSR	BLACK SEA/DNEPR R MOUTH	46.0N	32.5E	46.0N	34.1E	20	W	LO	50	N	N	84	282	10:12:12	125	128	37	48
42	30	USSR	KERCHENSKIY STRAIT	45.0N	36.5E	45.2N	35.4E	30	W	LO	50	N	N	84	282	10:12:30	125	129	37	48
42	31	TURKEY	YASUN POINT/BLACK SEA	41.5N	37.5E	42.9N	38.9E	10	SW	LO	50	N	N	84	282	10:13:23	125	132	39	48
42	32	TURKEY	MOUNT ARARAT/LAKE VAN	39.5N	44.0E	39.3N	43.5E	1		NV	50	N	Y	84	282	10:14:39	124	135	41	48
42	33	TURKEY	MOUNT ARARAT/LAKE VAN	39.5N	44.5E	39.0N	43.9E	1		NV	50	N	Y	84	282	10:14:48	124	135	41	48
42	34	TURKEY	LAKE VAN	39.0N	43.0E	38.8N	44.3E	0		NV	50	N	N	84	282	10:14:54	124	135	41	48
42	35	IRAN	ZAGROS MOUNTAINS	35.0N	46.5E	35.6N	47.6E	0		NV	50	N	Y	84	282	10:15:56	123	138	42	48
42	36	IRAN	ZAGROS MOUNTAINS	35.0N	47.0E	35.3N	47.9E	1		NV	50	N	Y	84	282	10:16: 1	123	138	42	48
42	37	IRAN	ZAGROS MOUNTAINS	34.5N	47.0E	34.9N	48.3E	2		NV	50	N	Y	84	282	10:16: 8	123	138	42	48
42	38	IRAN	ZAGROS MTS/PERSIAN GULF	26.5N	53.5E	27.5N	54.9E	20	SW	LO	50	N	N	84	282	10:18:31	122	142	44	48
42	39	IRAN	COAST/CLOUDS/GUL OF OMAN	25.0N	59.0E	24.5N	57.1E	50		LO	50	N	N	84	282	10:19:26	121	143	44	48
42	40	GREENLAND	KONG FREDERIK VI KYST	60.5N	40.0W	57.1N	36.4W	75	NW	HO	50	N	N	84	282	11:33: 9	127	88	19	49
42	41	SWITZERLAND	THE ALPS	47.0N	9.0E	47.2N	9.4E	40		NV	50	N	Y	84	282	11:40:38	125	126	36	49
42	42	SWITZERLAND	THE ALPS	47.0N	10.0E	46.8N	10.0E	30		NV	50	N	Y	84	282	11:40:47	125	127	36	49
42	43	ITALY	THE ALPS	46.5N	10.5E	46.5N	10.7E	20		NV	50	N	Y	84	282	11:40:56	125	127	37	49
42	44	ITALY	THE ALPS	46.0N	11.0E	46.1N	11.3E	20		NV	50	N	Y	84	282	11:41: 4	125	128	37	49
42	45	ITALY	PO R MOUTH/GUL OF VENICE	45.0N	12.0E	45.8N	12.2E	30		NV	50	N	Y	84	282	11:41:17	125	129	37	49
42	46	ITALY	PO R MOUTH/GUL OF VENICE	45.0N	12.5E	45.3N	12.6E	30		NV	50	N	Y	84	282	11:41:23	125	129	37	49
42	47	GREECE	INTERNAL WAVES	38.0N	21.0E	38.6N	21.7E	20	SW	LO	50	N	Y	84	282	11:43:49	123	135	41	49
42	48	GREECE	INTERNAL WAVES	37.5N	21.0E	38.4N	22.0E	20	SW	LO	50	N	Y	84	282	11:43:54	123	136	41	49
42	49	GREECE	PELOPONNISOS/ATHENS	38.0N	22.5E	38.0N	22.4E	1		NV	50	N	Y	84	282	11:44: 1	123	136	41	49
42	50	GREECE	PELOPONNISOS/IONIAN SEA	37.5N	22.0E	37.8N	22.6E	1		NV	50	N	Y	84	282	11:44: 5	123	136	41	49
42	51	GREECE	PELOPONNISOS/ATHENS	37.5N	23.0E	37.8N	22.8E	0		NV	50	N	Y	84	282	11:44: 9	123	136	41	49
42	52	GREECE	PELOPONNISOS/IONIAN SEA	38.5N	23.0E	37.0N	23.5E	5		NV	50	N	N	84	282	11:44:21	123	137	42	49
42	53	LIBYA	SPIRAL EDDY FIELD	33.5N	24.0E	34.8N	25.8E	0	SW	LO	50	N	N	84	282	11:45: 6	123	138	42	49
42	54	LIBYA	SPIRAL EDDY FIELD	33.5N	24.0E	34.6N	26.0E	0	SW	LO	50	N	N	84	282	11:45: 9	123	138	42	49
42	55	LIBYA	SPIRAL EDDY FIELD	33.5N	24.0E	34.3N	26.3E	0	SW	LO	50	N	N	84	282	11:45:15	123	138	42	49
42	56	LIBYA	SPIRAL EDDY FIELD	34.0N	24.0E	33.8N	26.8E	0	SW	LO	50	N	N	84	282	11:45:25	123	139	43	49
42	57	LIBYA	MEDITERRANEAN SEA STRUCT	32.0N	26.5E	33.4N	27.2E	0	SW	LO	50	N	N	84	282	11:45:34	122	139	43	49
42	58	EGYPT	NILE RIVER DELTA	31.5N	30.0E	31.1N	29.2E	0	E	LO	50	N	Y	84	282	11:48:17	122	140	43	49
42	59	EGYPT	NILE RIVER DELTA	31.0N	30.5E	30.5N	29.8E	0	E	LO	50	N	Y	84	282	11:48:30	122	140	43	49
42	60	EGYPT	RED SEA/GULF OF SUEZ	28.0N	33.0E	27.5N	32.2E	0	NE	LO	50	N	N	84	282	11:47:25	121	142	44	49
42	61	EGYPT	LIBYAN & ARABIAN DESERTS	24.0N	33.5E	25.0N	34.2E	0	SW	LO	50	N	N	84	282	11:48:13	121	143	44	49
42	62	SUDAN	NUBIAN DESERT/JABAL IB	21.0N	35.0E	23.2N	35.5E	0	SW	LO	50	N	N	84	282	11:48:46	121	143	44	49
42	63	SUDAN	NUBIAN DESERT/JABAL IB	21.5N	36.0E	22.2N	36.2E	0	S	LO	50	N	N	84	282	11:49: 4	121	144	44	49
42	64	SUDAN	NUBIAN DESERT DUST STORM	20.0N	35.0E	20.4N	37.4E	1	W	HO	50	N	N	84	282	11:49:36	120	144	44	49
42	65	SUDAN	NUBIAN DESERT DUST STORM	20.0N	35.5E	20.1N	37.6E	1	W	HO	50	N	N	84	282	11:49:41	120	144	44	49
42	66	SUDAN	NUBIAN DESERT DUST STORM	18.0N	34.5E	18.4N	38.8E	2	W	HO	50	N	N	84	282	11:50:13	120	145	44	49
42	67	SUDAN	NUBIAN DESERT DUST STORM	19.0N	36.0E	17.2N	39.5E	1	NW	HO	50	N	N	84	282	11:50:33	120	145	43	49
42	68	ETHIOPIA	MITSIWA TO NUBIAN DESERT	16.0N	38.0E	16.4N	40.1E	10	NW	LO	50	N	N	84	282	11:50:48	120	145	43	49
42	69	ETHIOPIA	ETHIOPIOAN HIGHLANDS	14.5N	39.0E	15.0N	41.0E	15	W	LO	50	N	N	84	282	11:51:14	120	145	43	49
42	70	ETHIOPIA	AFAR DEPRESSION	14.0N	40.5E	13.2N	42.1E	10	W	HO	50	N	N	84	282	11:51:48	120	146	42	49
42	71	ETHIOPIA	AFAR DEPRESSION	12.5N	41.0E	12.4N	42.6E	15	W	HO	50	N	N	84	282	11:51:59	120	146	42	49
42	72	ETHIOPIA	AFAR DEPRESSION	11.0N	41.0E	11.7N	43.0E	20	W	LO	50	N	N	84	282	11:52:11	120	146	42	49
42	73	ETHIOPIA	AFAR DEPRESSION	10.5N	41.5E	11.4N	43.2E	20	SW	LO	50	N	N	84	282	11:52:18	120	146	42	49
42	74	DJIBOUTI	AFAR DEPRESSION	11.5N	42.5E	9.9N	44.1E	15	NW	HO	50	N	N	84	282	11:52:44	119	146	41	49
42	75	ETHIOPIA	AFAR DEPRESSION	10.0N	43.0E	9.1N	44.6E	60	NW	HO	50	N	N	84	282	11:52:58	119	146	41	49
42	76	SPAIN	NW COAST/ATLANTIC EDDIES	43.0N	11.0W	45.2N	9.7W	20	SW	LO	50	N	N	84	282	13:10:20	126	129	37	50
42	77	SPAIN	NW COAST/ATLANTIC EDDIES	43.0N	9.0W	44.6N	8.8W	1	SW	LO	50	N	N	84	282	13:10:34	126	130	38	50
42	78	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.0W	40.9N	3.5W	1	SW	HO	50	N	N	84	282	13:11:57	125	134	40	50

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
42	79	SPAIN	STRAIT OF GIBRALTAR	36.0N	6.5W	39.7N	2.1W	1	SW	HO	50	N	N	84 282	13:12:21	125	135	41	50
42	80	SPAIN	STRAIT OF GIBRALTAR	36.0N	4.0W	39.3N	1.6W	1	SW	HO	50	N	N	84 282	13:12:29	125	135	41	50
42	81	SPAIN	GIBRALTAR/MEDITER EDDIES	36.5N	3.5W	38.5N	0.6W	1	SW	HO	50	N	N	84 282	13:12:46	125	135	41	50
42	82	MOROCCO	GIBRALTAR/MEDITER EDDIES	35.0N	3.5W	37.4N	0.5E	1	SW	HO	50	N	N	84 282	13:13: 9	124	136	42	50
42	83	MOROCCO	SAHARAN ATLAS MOUNTAINS	33.0N	6.0W	33.8N	4.2E	15	W	HO	50	N	N	84 282	13:14:21	124	139	43	50
42	84	CANADA-O	CLOUDS/SUNGLINT	56.8N	88.1W	56.8N	88.1W	75		HO	50	N	N	84 282	14:30: 5	128	82	16	51
42	85		SIR-B ANTENNA			14.2S	13.1E				50	N	N	84 282	14:57:43	121	145	29	51
42	86		SIR-B ANTENNA			16.1S	14.2E				50	N	N	84 282	14:58:16	121	145	28	51
42	87	REPUBLIC SOUTH AFRICA	VERY DARK	34.0S	22.5E	27.8S	22.5E	30	S	HO	50	U	N	84 282	15: 1:50	123	142	19	51
42	88		SIR-B ANTENNA			28.5S	23.1E				50	N	N	84 282	15: 2: 3	123	141	18	51
42	89	CANADA-Q	MANICOUAGAN RESERVOIR	51.5N	69.0W	51.5N	67.9W	70		NV	50	N	Y	84 282	16: 5:30	127	119	32	52
42	90	CANADA-Q	MANICOUAGAN RESERVOIR	51.5N	69.0W	51.3N	67.3W	70		NV	50	N	Y	84 282	16: 5:36	127	119	32	52
42	91	CANADA-Q	SEPT-ILES	51.0N	67.0W	50.8N	66.2W	60		NV	50	N	Y	84 282	16: 5:49	127	120	33	52
42	92	CANADA-Q	SEPT-ILES	50.5N	66.5W	50.6N	65.6W	60		NV	50	N	Y	84 282	16: 5:56	127	121	33	52
42	93	CANADA-Q	ANTICOSTI ISLAND	49.5N	64.0W	49.6N	63.3W	50		NV	50	N	N	84 282	16: 6:23	127	122	34	52
42	94	CANADA-Q	ANTICOSTI ISLAND	49.5N	63.0W	49.2N	62.4W	60		NV	50	N	N	84 282	16: 6:34	126	123	34	52
42	95	CANADA-N	NOTRE DAME BAY	50.0N	55.0W	46.4N	56.8W	75		HO	50	N	N	84 282	16: 7:45	126	127	37	52
42	96	ATLANTIC OCEAN	EDDIES	43.2N	51.8W	43.2N	51.8W	60		HO	50	N	N	84 282	16: 8:59	125	131	39	52
42	97	ATLANTIC OCEAN	EDDIES	41.5N	49.4W	41.5N	49.4W	70		HO	50	N	N	84 282	16: 9:37	125	133	40	52
42	98		SIR-B ANTENNA			12.7S	10.4W			NV	50	N	N	84 282	16:26:12	121	146	31	52
42	99	CANADA-O	LAKE SUPERIOR SUNGLINT	48.5N	88.0W	50.0N	86.7W	80	SW	LO	50	N	N	84 282	17:35:10	127	122	34	53
42	100	CANADA-O	LAKE SUPERIOR SUNGLINT	48.0N	86.0W	49.8N	86.2W	80	S	LO	50	N	N	84 282	17:35:15	127	122	34	53
42	101		SIR-B ANTENNA FOLDING			32.8S	18.3W			HO	50	N	N	84 282	18: 1:19	124	139	15	53
42	102		SIR-B ANTENNA FOLDING			33.1S	18.0W			HO	50	N	N	84 282	18: 1:25	124	139	15	53
42	103	BRAZIL	AMAZON RIVER/RIO PURUS	4.8S	60.3W	4.8S	60.3W	60	NW	LO	50	N	N	84 282	19:21:46	121	146	36	54
42	104	BRAZIL	AMAZON RIVER	5.0S	60.1W	5.0S	60.1W	60	NW	LO	50	N	N	84 282	19:21:50	121	146	36	54
42	105	BRAZIL	RIO MADEIRA/RIO ARIPUANA	5.4S	59.9W	5.4S	59.9W	40	NW	LO	50	N	N	84 282	19:21:57	121	146	36	54
42	106	BRAZIL	RIO MADEIRA	6.0S	59.6W	6.0S	59.6W	70	NW	LO	50	N	N	84 282	19:22: 7	121	146	36	54
42	107	PACIFIC OCEAN	NORTH PACIFIC CYCLONE	52.9N	139.8W	52.9N	139.8W	95		HO	50	N	Y	84 282	20:31:36	127	115	30	55
42	108	PACIFIC OCEAN	NORTH PACIFIC CYCLONE	52.5N	138.6W	52.5N	138.6W	95		HO	50	N	Y	84 282	20:31:49	127	116	31	55
42	109	PACIFIC OCEAN	NORTH PACIFIC CYCLONE	52.1N	137.5W	52.1N	137.5W	95		HO	50	N	Y	84 282	20:32: 0	127	117	31	55
42	110	USA-CALIFORNIA	CENTRAL VALLEY	38.0N	122.0W	42.9N	119.2W	50	SW	HO	50	N	N	84 282	20:35:56	126	132	39	55
42	111	USA-NEVADA	SIERRA NEVADA MTS/LAKES	40.0N	119.5W	42.3N	118.3W	30	SW	LO	50	N	N	84 282	20:36:10	125	132	40	55
42	112	USA-CALIFORNIA	GREAT BASIN TO CA COAST	37.0N	121.0W	39.3N	114.5W	30	SW	HO	50	N	N	84 282	20:37:14	125	135	41	55
42	113	USA-CALIFORNIA	GREAT BASIN TO CA COAST	36.5N	118.5W	38.9N	114.0W	30	SW	HO	50	N	N	84 282	20:37:23	125	135	41	55
42	114	USA-CALIFORNIA	GREAT BASIN TO CA COAST	35.0N	117.5W	37.0N	111.9W	30	SW	HO	50	N	N	84 282	20:38: 2	125	137	42	55
42	115	MEXICO	SIERRA MADRE OCCIDENTAL	29.5N	109.0W	31.7N	106.8W	30	SW	LO	50	N	N	84 282	20:39:45	124	140	44	55
42	116	MEXICO	SIERRA MADRE OCCIDENTAL	29.0N	108.0W	31.1N	106.2W	30	SW	LO	50	N	N	84 282	20:39:56	124	140	44	55
42	117	MEXICO	SIERRA MADRE OCCIDENTAL	28.5N	108.5W	30.8N	106.0W	30	SW	LO	50	N	N	84 282	20:40: 2	124	140	44	55
42	118	MEXICO	SIERRA MADRE ORIENTAL	22.7N	99.6W	22.7N	99.6W	50		LO	50	N	N	84 282	20:42:33	122	143	45	55
42	119	MEXICO	SIERRA MADRE ORIENTAL	22.5N	99.4W	22.5N	99.4W	40		LO	50	N	N	84 282	20:42:38	122	143	45	55
42	120	MEXICO	SIERRA MADRE ORIENTAL	22.2N	99.2W	22.2N	99.2W	40		LO	50	N	N	84 282	20:42:43	122	144	45	55
43	2	CANADA-NWT	BELCHER ISLANDS	56.5N	79.5W	54.2N	79.9W	25	N	LO	250	N	Y	84 284	15:30:11	125	111	25	84
43	3	CANADA-NWT	BELCHER ISLANDS	56.0N	79.5W	54.1N	79.5W	2	N	LO	250	N	Y	84 284	15:30:15	125	112	25	84
43	4	CANADA-NWT	BELCHER ISLANDS	56.5N	79.0W	54.0N	79.2W	20	N	LO	250	N	Y	84 284	15:30:18	125	112	26	84
43	5	CANADA-NWT	BELCHER ISLANDS	56.0N	79.0W	53.9N	78.8W	10	N	LO	250	N	Y	84 284	15:30:22	125	112	26	84
43	6	CANADA-NWT	BELCHER ISLANDS	56.0N	79.5W	53.8N	78.3W	10	NW	LO	250	N	N	84 284	15:30:27	125	113	26	84
43	7	CANADA-NWT	BELCHER ISLANDS	56.0N	79.5W	53.4N	76.7W	25	NW	LO	250	N	N	84 284	15:30:43	125	114	27	84
43	8	CANADA-NWT	BELCHER ISLANDS	56.0N	79.5W	53.1N	75.8W	40	NW	LO	250	N	N	84 284	15:30:52	125	115	27	84
43	9	CANADA-NS	NORTHUMBERLAND STRAIT	46.0N	64.0W	47.2N	61.4W	50	SW	LO	250	U	N	84 284	15:33:40	124	126	35	84

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
43	10	CANADA-NS	COBEQUID BAY	45.5N	63.5W	46.8N	60.8W	50	SW	LO	250	U	N	84 284	15:33:50	124	127	36	84
43	11	CANADA-NS	BAY OF FUNDY	44.5N	65.5W	46.5N	60.1W	60	SW	LO	250	U	N	84 284	15:33:57	124	127	36	84
43	12	CANADA-NS	NORTHUMBERLAND STRAIT	46.0N	64.0W	45.7N	58.6W	75	W	LO	250	U	N	84 284	15:34:18	124	128	37	84
43	13	USA-ALASKA	BERING GLACIER	60.5N	143.0W	58.0N	143.7W	30	N	LO	250	U	N	84 284	16:53: 7	126	76	6	85
43	14	USA-ALASKA	BERING GLACIER	60.5N	142.5W	58.1N	143.1W	30	N	LO	250	U	N	84 284	16:53:12	126	76	6	85
43	15	USA-ALASKA	MALASPINA GLACIER	60.0N	141.0W	58.2N	142.2W	50	N	LO	250	U	N	84 284	16:53:20	126	77	7	85
43	16	USA-ALASKA	MALASPINA GLACIER	60.0N	140.5W	58.3N	141.3W	50	N	LO	250	U	N	84 284	16:53:28	126	78	7	85
43	17	NORTH AMERICA	CLOUDS	50.6N	91.2W	50.6N	91.2W	95		HO	250	N	N	84 284	17: 1: 4	125	121	31	85
43	18	CANADA-O	MANITOULIN ISLAND	46.0N	83.0W	47.7N	84.8W	30	SE	LO	250	N	N	84 284	17: 2:23	124	126	35	85
43	19	CANADA-O	MANITOULIN ISLAND	46.0N	82.5W	47.5N	84.4W	70	SE	LO	250	N	N	84 284	17: 2:28	124	126	35	85
43	20	CAYMAN ISLANDS	GRAND CAYMAN/SPIRAL EDDY	19.5N	80.0W	21.1N	78.8W	5	SW	LO	250	N	N	84 284	18:40:13	121	144	53	86
43	21	GALAPAGOS ISLANDS	ISLA SAN SALVADOR/WAKES	0.0	91.0W	0.7N	89.0W	10	W	LO	250	N	N	84 284	20:15:10	120	147	51	87
43	22	GALAPAGOS ISLANDS	ISLA SAN SALVADOR	0.0	91.0W	0.1S	88.5W	15	W	LO	250	N	N	84 284	20:15:25	120	147	50	87
43	23	GALAPAGOS ISLANDS	ISLA ISABELA	0.0	91.0W	1.4S	87.8W	35	NW	LO	250	N	N	84 284	20:15:48	120	147	50	87
43	24	ARGENTINA	ANDES MOUNTAINS	30.5S	70.0W	30.1S	68.8W	0		NV	250	N	Y	84 284	20:24:25	123	141	28	87
43	25	ARGENTINA	ANDES MOUNTAINS	30.5S	70.0W	30.3S	69.7W	0		NV	250	N	Y	84 284	20:24:29	123	140	28	87
43	26	ARGENTINA	ANDES MOUNTAINS	31.0S	69.5W	30.5S	68.5W	0		NV	250	N	Y	84 284	20:24:33	123	140	28	87
43	27	ARGENTINA	ANDES MOUNTAINS	31.0S	69.5W	30.7S	68.3W	0		NV	250	N	Y	84 284	20:24:37	123	140	28	87
43	28	ARGENTINA	ANDES MOUNTAINS	31.5S	69.5W	31.0S	68.1W	0		NV	250	N	Y	84 284	20:24:42	123	140	28	87
43	29	ARGENTINA	PAMPAS	32.1S	67.1W	32.1S	67.1W	0			250	N	Y	84 284	20:25: 4	123	140	26	87
43	30	ARGENTINA	PAMPAS	32.4S	66.8W	32.4S	66.8W	0			250	N	Y	84 284	20:25:10	123	139	26	87
43	31	CHILE	ARCHIPELAGO LOS CHONOS	45.0S	75.0W	45.1S	74.2W	15		NV	250	U	N	84 284	21:58:28	125	129	12	88
43	32	SOUTH AMERICA	VERY DARK	46.9S	71.2W	46.9S	71.2W	0			250	U	N	84 284	21:59:11	126	127	10	88
43	33	SOUTH AMERICA	VERY DARK	47.6S	69.9W	47.6S	69.9W	0			250	U	N	84 284	21:59:28	126	126	9	88
43	34	SOUTH AMERICA	VERY DARK	51.7S	60.6W	51.7S	60.6W	0			250	U	N	84 284	22: 1:20	127	118	3	88
43	35	AUSTRALIA-WA	SOUTHWESTERN TIP	34.0S	115.5W	34.5S	114.5E	30		NV	250	N	N	84 285	8:17: 2	124	138	26	95
43	36	PERSIAN GULF	BURNING OIL RIGS	29.3N	49.0E	29.3N	49.0E	2	N	NV	250	N	N	84 285	9:26:41	122	141	51	96
43	37	IRAN	JAZIREH-YE KHARK	29.5N	50.5E	28.6N	49.6E	15		NV	250	N	N	84 285	9:26:53	122	141	51	96
43	38	BAHRAIN	GULF OF BAHRAIN	26.0N	50.5E	26.7N	51.1E	0		NV	250	N	N	84 285	9:27:30	121	142	52	96
43	39	QATAR	PERSIAN G SUBSURFACE STR	25.5N	52.0E	25.5N	52.0E	0		NV	250	N	N	84 285	9:27:52	121	142	53	96
43	40	CHAGOS ARCHIPELAGO	DIEGO GARCIA	7.5S	72.5E	7.1S	72.2E	60		NV	250	N	Y	84 285	9:37:33	120	146	50	96
43	41	CHAGOS ARCHIPELAGO	DIEGO GARCIA	7.5S	72.5E	7.6S	72.5E	60		NV	250	N	Y	84 285	9:37:42	120	146	50	96
43	42	ATLANTIC OCEAN	CLOUDS	57.1N	39.4W	57.1N	39.4W	90		HO	250	N	N	84 285	10:42: 3	126	88	11	97
43	43	ATLANTIC OCEAN	CLOUDS	57.1N	38.2W	57.1N	38.2W	90		HO	250	N	N	84 285	10:42:13	126	90	12	97
43	44	ATLANTIC OCEAN	CLOUDS	57.1N	36.8W	57.1N	36.8W	80		LO	250	N	N	84 285	10:42:25	126	91	12	97
43	45	ISLES OF SCILLY	CELTIC SEA	49.5N	6.5W	52.9N	8.7W	30	SE	LO	250	N	N	84 285	10:48:38	125	115	26	97
43	46	ISLES OF SCILLY	CELTIC SEA	50.0N	6.0W	52.6N	7.7W	30	SE	LO	250	N	N	84 285	10:48:49	125	116	27	97
43	47	ENGLAND	ENGLISH CHAN/LIZZARD PT	49.5N	5.0W	52.3N	6.9W	30	SE	LO	250	N	N	84 285	10:48:58	125	117	27	97
43	48	ENGLAND	ISLE OF WIGHT	50.5N	1.5W	50.4N	1.8W	2		NV	250	N	N	84 285	10:47:55	125	121	30	97
43	49	ENGLAND	RIVER THAMES	51.5N	0.5E	49.9N	0.4W	2	NE	LO	250	N	N	84 285	10:48:11	125	122	31	97
43	50	ENGLAND	STRAIT OF DOVER SHIPPING	51.0N	1.5E	49.7N	0.1W	0	NE	LO	250	N	Y	84 285	10:48:15	125	122	31	97
43	51	FRANCE	STRAIT OF DOVER	51.0N	1.5E	49.6N	0.2E	5	NE	LO	250	N	Y	84 285	10:48:19	125	123	32	97
43	52	ENGLAND	LONDON	51.0N	0.0	49.1N	1.2E	5	N	LO	250	N	N	84 285	10:48:32	124	123	32	97
43	53	SICILY	MOUNT ETNA	38.0N	15.0E	39.7N	16.2E	75	SW	LO	250	N	Y	84 285	10:52:10	123	135	43	97
43	54	SICILY	MOUNT ETNA	37.5N	15.0E	39.5N	16.4E	80	SW	LO	250	N	Y	84 285	10:52:14	123	135	43	97
43	55	SICILY	MOUNT ETNA	37.5N	15.0E	39.3N	16.6E	90	SW	LO	250	N	Y	84 285	10:52:18	123	135	43	97
43	56	MEDITERRANEAN SEA	WATER	35.8N	20.5E	35.8N	20.5E	5			250	N	N	84 285	10:53:29	122	137	46	97
43	57	MEDITERRANEAN SEA	EDDIES	34.0N	22.2E	34.0N	22.2E	0			250	N	N	84 285	10:54: 4	122	138	48	97
43	58	LIBYA	MEDITERRANEAN SEA EDDIES	33.5N	22.7E	33.5N	22.7E	0			250	N	N	84 285	10:54:13	122	139	48	97
43	59	EGYPT	LAKE NASSER	22.5N	32.0E	22.4N	31.7E	0		NV	250	N	Y	84 285	10:57:42	121	143	54	97

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
43	60	EGYPT	LAKE NASSER	22.5N	31.5E	22.2N	31.9E	0		NV	250	N	Y	84 285	10:57:46	121	144	54	97
43	61	SUDAN	LAKE NASSER	22.0N	31.5E	21.8N	32.1E	0		NV	250	N	Y	84 285	10:57:53	121	144	55	97
43	62	SEYCHELLES	FARQUHAR GROUP	10.0S	51.0E	10.3S	51.5E	20		NV	250	N	N	84 285	11: 7:24	120	146	48	97
43	63	MASCARENE ISLANDS	REUNION	21.0S	55.5E	18.6S	56.7E	40	SW	LO	250	N	N	84 285	11: 9:52	121	144	42	97
43	64	MASCARENE ISLANDS	REUNION	21.0S	55.5E	19.9S	57.5E	50	SW	LO	250	N	N	84 285	11:10:14	121	144	41	97
43	65	MASCARENE ISLANDS	REUNION	21.5S	54.5E	21.5S	58.6E	25	W	LO	250	N	N	84 285	11:10:43	121	144	40	97
43	66	MASCARENE ISLANDS	REUNION	21.0S	55.5E	22.8S	59.5E	35	NW	LO	250	N	N	84 285	11:11: 7	122	143	38	97
43	67		BLANK			7.0N	117.8W							84 286	21: 6:41	120	146	63	120
43	68	PACIFIC OCEAN	CLOUDS & WATER	18.6S	102.5W	18.6S	102.5W	50			250	N	N	84 286	21:14:16	121	144	50	120
43	69	PACIFIC OCEAN	CLOUDS & WATER	19.0S	102.3W	19.0S	102.3W	40			250	N	N	84 286	21:14:23	121	144	49	120
43	70	PACIFIC OCEAN	CLOUDS & WATER	19.9S	101.7W	19.9S	101.7W	70		HO	250	N	N	84 286	21:14:39	121	144	49	120
43	71	SOUTH AMERICA	CLOUDS	48.1S	71.6W	48.1S	71.6W	90			250	N	N	84 286	21:24: 8	125	125	17	120
43	72	FALKLAND ISLANDS	CLOUDS	51.4S	63.9W	51.4S	63.9W	90			250	N	N	84 286	21:25:40	126	119	11	120
43	73	FALKLAND ISLANDS	CLOUDS	52.6S	60.3W	52.6S	60.3W	90			250	N	N	84 286	21:26:19	126	116	9	120
43	74	USSR	DZHUGDZHUR MOUNTAINS	55.5N	136.5E	57.1N	138.5E	25		NV	100	N	Y	84 286	22:15:19	126	89	7	121
43	75	USSR	DZHUGDZHUR MOUNTAINS	56.5N	138.0E	57.1N	139.2E	35		NV	100	N	Y	84 286	22:15:25	126	90	7	121
43	76	USSR	DZHUGDZHUR MOUNTAINS	57.0N	138.5E	57.1N	139.7E	30		NV	100	N	Y	84 286	22:15:29	126	90	7	121
43	77	USSR	DZHUGDZHUR MOUNTAINS	57.0N	139.0E	57.1N	140.2E	30		NV	100	N	Y	84 286	22:15:33	126	90	7	121
43	78	USSR	DZHUGDZHUR MOUNTAINS	57.5N	139.5E	57.1N	141.2E	30		NV	100	N	Y	84 286	22:15:41	126	91	8	121
43	79	USSR	URLINSKIY MOUNTAINS	58.5N	141.0E	57.1N	142.0E	25		NV	100	N	Y	84 286	22:15:48	126	92	8	121
43	80		CARGO BAY, RMS			48.4S	93.5W				100	N	N	84 286	22:53: 9	126	125	16	121
43	81	USSR	LENA RIVER	58.5N	114.5E	57.1N	115.4E	20	NW	LO	100	N	N	84 286	23:44: 7	126	88	6	122
43	82	USSR	GORA LONGDOR	59.0N	116.0E	57.1N	116.8E	20	NW	LO	100	N	Y	84 286	23:44:19	126	90	7	122
43	83	USSR	GORA LONGDOR	59.0N	116.5E	57.1N	117.5E	25	NW	LO	100	N	Y	84 286	23:44:25	126	90	7	122
43	84	USSR	CHARA/KALARSKIY MTS	57.0N	118.5E	57.1N	118.9E	10		NV	100	N	Y	84 286	23:44:37	126	91	8	122
43	85	USSR	CHARA/KALARSKIY MTS	57.0N	119.0E	57.1N	119.5E	10		NV	100	N	Y	84 286	23:44:42	126	92	8	122
43	86	USSR	CHARA/KALARSKIY MTS	57.0N	120.0E	57.0N	120.9E	2		NV	100	N	Y	84 286	23:44:53	126	93	9	122
43	87	USSR	KALARSKIY MOUNTAINS	57.0N	120.5E	57.0N	121.3E	2		NV	100	N	Y	84 286	23:44:57	126	94	9	122
43	88	USSR	STANOVOY MOUNTAINS	57.0N	121.0E	57.0N	121.8E	5		NV	100	N	Y	84 286	23:45: 1	126	94	9	122
43	89	USSR	STANOVOY MOUNTAINS	57.0N	121.5E	57.0N	122.3E	10		NV	100	N	Y	84 286	23:45: 5	126	94	10	122
43	90	USSR	STANOVOY MOUNTAINS	57.0N	122.0E	56.9N	122.8E	20		NV	100	N	Y	84 286	23:45: 9	126	95	10	122
43	91	USSR	SUTAMO-GONAMSKIY MTS	56.5N	126.5E	56.7N	125.9E	30		NV	100	N	N	84 286	23:45:36	126	98	11	122
43	92	USSR	LAKE BOL'SHOYE TOKO	56.0N	131.0E	56.4N	129.5E	25		NV	100	N	N	84 286	23:46: 7	126	101	13	122
43	93	USSR	UDSKAYA BAY	54.5N	135.5E	55.7N	134.6E	10		NV	100	U	N	84 286	23:46:52	126	105	16	122
43	94	USSR	UDSKAYA BAY	54.5N	137.0E	55.6N	135.3E	20		NV	100	U	N	84 286	23:46:58	125	106	16	122
43	95	USSR	UDSKAYA BAY	55.0N	136.5E	55.1N	137.9E	30		NV	100	U	N	84 286	23:47:22	125	108	18	122
43	96	EAST GERMANY	BALTIC SEA	54.0N	12.0E	52.2N	13.4E	60	N	LO	100	N	N	84 287	8:42:28	125	117	23	128
43	97	EAST GERMANY	BALTIC SEA	54.0N	12.5E	52.1N	13.8E	40	N	LO	100	N	N	84 287	8:42:32	125	117	24	128
43	98	EAST GERMANY	BALTIC SEA	54.0N	13.5E	52.0N	14.1E	40	N	LO	100	N	N	84 287	8:42:36	125	118	24	128
43	99	POLAND	BALTIC SEA	53.5N	14.5E	51.8N	14.5E	45	N	LO	100	N	N	84 287	8:42:40	125	118	24	128
43	100	POLAND	SZCZECIN/GORZOW	53.0N	15.0E	51.6N	15.2E	45	N	LO	100	N	N	84 287	8:42:47	125	118	25	128
43	101	EAST GERMANY	BALTIC SEA	54.0N	12.0E	49.2N	21.0E	80	NW	HO	100	N	N	84 287	8:43:55	125	123	29	128
43	102	USSR	MUKACHEVO	48.5N	22.5E	48.2N	23.1E	75		NV	100	N	N	84 287	8:44:21	124	125	30	128
43	103	TURKEY	BOSPORUS/BLACK SEA	41.0N	29.0E	43.8N	30.6E	50	SW	LO	100	N	N	84 287	8:46: 6	124	131	36	128
43	104	TURKEY	BLACK SEA COASTLINE	41.0N	31.0E	43.3N	31.4E	40	S	LO	100	N	N	84 287	8:46:17	124	131	37	128
43	105	TURKEY	BLACK SEA COASTLINE	42.0N	32.5E	42.2N	32.9E	35		NV	100	N	N	84 287	8:46:41	123	132	38	128
43	106	TURKEY	BLACK SEA COASTLINE	41.5N	36.0E	40.9N	34.7E	2		NV	100	N	N	84 287	8:47:11	123	134	40	128
43	107	IRAQ	TIGRIS RIVER	37.0N	44.0E	35.0N	41.3E	10	NE	HO	100	N	N	84 287	8:49:10	122	138	47	128
43	108	IRAQ	TIGRIS RIVER	32.0N	46.5E	30.3N	45.6E	0	NE	LO	100	N	N	84 287	8:50:41	122	140	51	128
44	2	DOMINICAN REPUBLIC	GOLFE DE LA GONAVE/CLDS	20.0N	72.0W	15.3N	77.6W	60	NE	HO	250	N	N	84 286	18: 6:50	120	145	61	118

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
44	3	VENEZUELA	PENINSULA PARAGUANA	12.0N	70.0W	11.3N	75.2W	50	NE	LO	250	N	N	84 288	18: 8: 1	120	146	62	118
44	4	COLOMBIA	RIO META/CANO LA HERMOSA	5.5N	70.5W	4.8N	71.3W	50		NV	250	N	N	84 288	18: 9:58	119	146	62	118
44	5	BRAZIL	CLOUDS	1.2S	67.9W	1.2S	67.9W	90			250	N	N	84 288	18:11:42	119	147	61	118
44	6	BRAZIL	CLOUDS	1.5S	67.7W	1.5S	67.7W	100			250	N	Y	84 288	18:11:47	119	147	60	118
44	7	BRAZIL	CLOUDS	2.6S	67.1W	2.6S	67.1W	98			250	N	Y	84 288	18:12: 8	119	146	60	118
44	8	BRAZIL	CLOUDS	2.8S	67.0W	2.8S	67.0W	95			250	N	Y	84 288	18:12:10	119	146	60	118
44	9	BRAZIL	AGRICULTURE	9.4S	63.1W	9.4S	63.1W	20		NV	250	N	N	84 288	18:14: 6	120	146	58	118
44	10	BRAZIL	AGRICULTURE	10.1S	62.7W	10.1S	62.7W	15		NV	250	N	N	84 288	18:14:18	120	146	58	118
44	11	BRAZIL	RIO PARAGUAY	20.0S	58.0W	20.5S	58.1W	20	W	LO	250	N	N	84 288	18:17:24	121	144	47	118
44	12	BRAZIL	AG/FIRE NE OF PONTA PORA	22.0S	55.5W	21.4S	55.5W	0	S	LO	250	N	N	84 288	18:17:40	121	144	47	118
44	13	BRAZIL	RIO PARANA/RIO PIQUIN	24.0S	54.5W	23.1S	54.3W	0	S	LO	250	N	Y	84 288	18:18:11	121	143	45	118
44	14	BRAZIL	RIO PARANA/RIO PIQUIN	24.0S	54.5W	23.7S	53.9W	0	W	LO	250	N	Y	84 288	18:18:23	121	143	44	118
44	15	BRAZIL	RIO IGUACU/RIO JORDAO	26.0S	52.0W	25.4S	52.6W	40	SW	LO	250	N	N	84 288	18:18:55	122	142	43	118
44	16	BRAZIL	AGRICULTURE	27.5S	50.9W	27.5S	50.9W	20		LO	250	N	N	84 288	18:19:34	122	142	41	118
44	17	USA-NEVADA	PYRAMID LAKE	40.0N	119.5W	40.0N	120.9W	40	E	LO	250	N	N	84 288	19:27:55	123	134	42	119
44	18	USA-CALIFORNIA	MONTEREY BAY	37.0N	122.0W	39.4N	120.2W	50	SW	LO	250	N	N	84 288	19:28: 7	123	135	42	119
44	19	USA-CALIFORNIA	MONO LAKE/SIERRA NEVADAS	38.0N	119.0W	39.1N	119.8W	0	SW	LO	250	N	N	84 288	19:28:13	123	135	43	119
44	20	USA-CALIFORNIA	TUOLUMNE R/SIERRA NEVADA	38.0N	119.5W	38.8N	119.5W	0		NV	250	F	N	84 288	19:28:19	123	135	43	119
44	21	USA-CALIFORNIA	DIABLO RANGE/FIRES	38.0N	121.0W	38.2N	118.8W	5	SW	LO	250	N	N	84 288	19:28:31	123	136	44	119
44	22	USA-CALIFORNIA	EDWARDS AFB	35.0N	118.0W	35.8N	116.2W	0	SW	LO	250	F	Y	84 288	19:29:20	122	137	46	119
44	23	USA-CALIFORNIA	EDWARDS AFB	35.0N	118.0W	35.4N	116.8W	0	SW	LO	250	F	Y	84 288	19:29:28	122	138	47	119
44	24	USA-CALIFORNIA	SOUTHERN CALIFORNIA	34.0N	117.0W	34.8N	116.0W	0	SW	LO	250	N	Y	84 288	19:29:44	122	138	47	119
44	25	USA-CALIFORNIA	SOUTHERN CALIFORNIA	33.5N	117.0W	34.3N	114.7W	1	SW	LO	250	N	Y	84 288	19:29:50	122	138	48	119
44	26	USA-CALIFORNIA	SOUTHERN CALIFORNIA	33.5N	117.0W	34.0N	114.4W	3	SW	LO	250	N	Y	84 288	19:29:55	122	138	48	119
44	27	USA-CALIFORNIA	SAN DIEGO	33.0N	117.0W	33.7N	114.2W	5	SW	LO	250	N	Y	84 288	19:30: 1	122	139	48	119
44	28	USA-CALIFORNIA	SAN DIEGO	33.0N	116.5W	33.5N	113.9W	5	SW	LO	250	N	Y	84 288	19:30: 6	122	139	48	119
44	29	MEXICO	LAGUNA SALADA	32.0N	115.5W	33.0N	113.4W	1	SW	LO	250	N	N	84 288	19:30:16	122	139	49	119
44	30	MEXICO	RIO COLORADO MOUTH	32.0N	115.0W	32.5N	113.0W	1	SW	LO	250	N	N	84 288	19:30:24	122	139	49	119
44	31	MEXICO	BAHIA DE ADUAR	31.5N	114.0W	31.4N	112.0W	30	W	LO	250	F	N	84 288	19:30:48	122	140	50	119
44	32	MEXICO	RIO COLORADO MOUTH	31.5N	114.5W	30.8N	111.5W	15	NW	LO	250	F	N	84 288	19:30:58	122	140	51	119
44	33	MEXICO	PUNTA TEPOCA	29.5N	112.5W	29.8N	110.4W	20	W	LO	250	N	N	84 288	19:31:21	121	141	52	119
44	34	MEXICO	RIO PAPAGAVO SEDIMENT	17.0N	100.0W	15.5N	100.3W	1	N	LO	250	N	N	84 288	19:35:39	120	145	61	119
44	35	MEXICO	RIO PAPAGAVO SEDIMENT	16.5N	100.0W	14.2N	99.6W	2	N	LO	250	N	N	84 288	19:36: 1	120	145	61	119
44	36	MEXICO	RIO VOLTEPEC SEDIMENT	16.0N	98.0W	13.1N	98.9W	20	N	LO	250	N	N	84 288	19:36:21	120	146	62	119
44	37	GALAPAGOS ISLANDS	ISLA FERNADINA/INT WAVES	0.5S	91.5W	0.1S	91.1W	2		NV	250	N	N	84 288	19:40:15	120	147	61	119
44	38	CHILE	ANDES/RIO HURTADO	30.5S	70.5W	29.1S	72.2W	15	SE	LO	250	N	N	84 288	19:48:57	122	141	39	119
44	39	ARGENTINA	ANDES/RIO COSTANO VIEJO	30.5S	70.0W	29.6S	71.8W	20	SE	LO	250	N	N	84 288	19:49: 6	122	141	39	119
44	40	CHILE	LOS VILOS/RIO CHOAPA	32.0S	71.5W	30.4S	71.2W	1	S	LO	250	N	N	84 288	19:49:21	122	140	38	119
44	41	CHILE	ANDES/EAST OF SANTIAGO	33.5S	70.0W	31.8S	69.9W	0	SW	LO	250	N	Y	84 288	19:49:48	123	140	37	119
44	42	CHILE	ANDES/EAST OF SANTIAGO	34.0S	70.0W	32.1S	69.7W	0	SW	LO	250	N	Y	84 288	19:49:53	123	140	36	119
44	43	ARGENTINA	RIO TUNUYAN	33.5S	69.0W	32.6S	69.2W	0	S	LO	250	F	N	84 288	19:50: 3	123	139	36	119
44	44	CHILE	SANTIAGO/ANDES MOUNTAINS	33.5S	70.5W	33.2S	68.7W	0	W	LO	250	N	N	84 288	19:50:14	123	139	35	119
44	45	ARGENTINA	DUNE FIELD	35.0S	68.0W	35.3S	66.8W	0	W	LO	250	U	N	84 288	19:50:56	123	138	33	119
44	46	ARGENTINA	BAHIA BLANCA/PUNTA ALTA	39.0S	62.0W	38.3S	63.4W	20	W	LO	250	N	N	84 288	19:51:58	124	136	29	119
44	47	ATLANTIC OCEAN	CLOUDS OVER S ATLANTIC	42.3S	58.4W	42.3S	58.4W	40		LO	250	F	Y	84 288	19:53:22	124	132	24	119
44	48	ATLANTIC OCEAN	CLOUDS OVER S ATLANTIC	42.4S	58.3W	42.4S	58.3W	50		LO	250	F	Y	84 288	19:53:24	125	132	24	119
44	49	ATLANTIC OCEAN	CLOUDS OVER S ATLANTIC	42.7S	57.9W	42.7S	57.9W	40		LO	250	F	Y	84 288	19:53:29	125	132	24	119
44	50	ATLANTIC OCEAN	CLOUDS OVER S ATLANTIC	42.8S	57.8W	42.8S	57.8W	40		LO	250	F	Y	84 288	19:53:32	125	132	24	119
44	51	ATLANTIC OCEAN	CLOUDS OVER S ATLANTIC	43.0S	57.6W	43.0S	57.5W	60		LO	250	F	Y	84 288	19:53:36	125	132	24	119
44	52	ATLANTIC OCEAN	CLOUDS OVER S ATLANTIC	43.2S	57.1W	43.2S	57.1W	30		LO	250	F	N	84 288	19:53:42	125	131	23	119

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
44	53	ATLANTIC OCEAN	VERY DARK	45.8S	53.2W	45.8S	53.2W	0		LO	250	U	N	84 286	19:54:40	125	128	20	119
44	54	ATLANTIC OCEAN	VERY DARK	46.1S	52.6W	46.1S	52.6W	0		LO	250	U	N	84 286	19:54:48	125	128	19	119
44	55		ORBITAL REFUELING SYSTEM			13.2N	121.5W				250	N	N	84 286	21: 5:13	120	146	62	120
44	56		SIR-B ANTENNA LATCH	10.3N	119.7W	10.3N	119.7W				250	N	N	84 286	21: 6: 4	120	146	63	120
44	57	ARGENTINA	CLOUDS & LAKES	50.2S	67.0W	50.2S	67.0W	60		LO	250	F	N	84 286	21:25:26	126	121	13	120
44	58	ARGENTINA	CLOUDS & LAKES	50.3S	66.7W	50.3S	66.7W	70		LO	250	N	N	84 286	21:25:29	126	121	13	120
44	59	FALKLAND ISLANDS	FALKLAND SOUND/CLOUDS	51.5S	59.5W	52.0S	62.2W	90	NE	LO	250	F	Y	84 286	21:26:20	126	118	10	120
44	60	FALKLAND ISLANDS	FALKLAND SOUND/CLOUDS	51.5S	59.5W	52.1S	61.8W	90	NE	LO	250	F	Y	84 286	21:26:24	126	117	10	120
44	61	FALKLAND ISLANDS	FALKLAND SOUND	51.5S	59.0W	52.2S	61.5W	85	NE	LO	250	F	Y	84 286	21:26:27	126	117	10	120
44	62	FALKLAND ISLANDS	CAPE DOLPHIN	51.5S	59.0W	52.3S	61.2W	85	NE	LO	250	F	Y	84 286	21:26:30	126	117	9	120
44	63	FALKLAND ISLANDS	CAPE DOLPHIN	51.5S	59.0W	52.6S	60.4W	80	NE	LO	250	N	Y	84 286	21:26:39	126	116	9	120
44	64	FALKLAND ISLANDS	N COAST OF EAST FALKLAND	51.5S	58.5W	52.7S	60.0W	80	NE	LO	250	N	N	84 286	21:26:43	126	116	9	120
44	65	FALKLAND ISLANDS	SEA LION ISLANDS	52.5S	59.0W	53.0S	59.0W	70	N	LO	250	U	N	84 286	21:26:53	126	115	8	120
44	66		RMS/TAIL			46.2S	97.5W				100	U	N	84 286	22:52:37	125	128	20	121
44	67		RMS/TAIL			48.0S	94.2W				100	U	N	84 286	22:53:21	126	125	17	121
44	68		RMS/TAIL			48.6S	93.0W				100	U	N	84 286	22:53:37	126	124	16	121
44	69	JOHNSTON ATOLL	ISLAND IN NORTH PACIFIC	16.5N	169.5W	15.5N	168.1W	20	NW	LO	100	F	N	84 287	0: 2:18	120	145	62	122
44	70	CHAGOS ARCHIPELAGO	EAGLE IS/THREE BROTHERS	6.0S	71.5E	6.9S	69.5E	40	NW	LO	100	N	N	84 287	9: 2:11	120	146	61	128
44	71	SWITZERLAND	THE ALPS	46.5N	8.5E	47.2N	2.4E	0	SE	LO	100	N	N	84 287	10:14: 0	124	126	32	129
44	72	ITALY	THE ALPS	46.0N	8.0E	46.8N	3.2E	0	SE	LO	100	N	N	84 287	10:14:11	124	127	32	129
44	73	SWITZERLAND	THE ALPS	46.5N	9.5E	46.5N	3.7E	0	E	LO	100	N	Y	84 287	10:14:17	124	127	33	129
44	74	SWITZERLAND	THE ALPS	46.5N	9.0E	46.3N	4.0E	0	E	LO	100	N	Y	84 287	10:14:22	124	128	33	129
44	75	SWITZERLAND	THE ALPS	46.5N	9.5E	46.0N	4.6E	20	NE	LO	100	N	N	84 287	10:14:29	124	128	33	129
44	76	ITALY	THE ALPS	46.0N	9.5E	45.8N	5.0E	20	E	LO	100	N	Y	84 287	10:14:35	124	128	34	129
44	77	ITALY	THE ALPS	46.0N	10.0E	45.6N	5.3E	30	NE	LO	100	F	Y	84 287	10:14:40	124	129	34	129
44	78	SWITZERLAND	THE ALPS	46.5N	9.0E	45.0N	6.3E	0	NE	LO	100	N	N	84 287	10:14:54	124	129	35	129
44	79	ITALY	NICE/DARK	44.0N	7.5E	43.8N	8.1E	1	E	LO	250	U	N	84 287	10:15:20	124	131	36	129
44	80	ITALY	GROSSETO	43.0N	11.0E	42.6N	9.8E	15	NE	LO	250	F	N	84 287	10:15:47	123	132	38	129
44	81	ITALY	LAGO DI BRACCIANO	42.0N	12.0E	42.1N	10.5E	0	E	LO	250	F	Y	84 287	10:15:58	123	132	38	129
44	82	ITALY	LAGO DI BRACCIANO	42.0N	12.0E	41.9N	10.8E	0	E	LO	250	F	Y	84 287	10:16: 2	123	133	39	129
44	83	ITALY	VESUVIUS/ISOLA DI ISCHIA	41.0N	14.0E	40.9N	12.1E	5	E	LO	250	N	Y	84 287	10:16:24	123	134	40	129
44	84	ITALY	VESUVIUS/NAPOLI	41.0N	14.0E	40.8N	12.3E	20	E	LO	250	N	Y	84 287	10:16:27	123	134	40	129
44	85	ITALY	VESUVIUS/NAPOLI	41.0N	14.5E	40.6N	12.5E	20	E	LO	250	N	Y	84 287	10:16:31	123	134	40	129
44	86	ITALY	VESUVIUS/NAPOLI	40.5N	14.5E	40.4N	12.7E	15	E	LO	250	N	Y	84 287	10:16:35	123	134	41	129
44	87	ITALY	VESUVIUS	40.5N	14.5E	40.2N	12.9E	15	E	LO	250	N	Y	84 287	10:16:38	123	134	41	129
44	88	ITALY	VESUVIUS/ISOLA DI CAPRI	40.5N	14.0E	40.0N	13.2E	15	NE	LO	250	N	Y	84 287	10:16:42	123	134	41	129
44	89	ITALY	VESUVIUS/ISOLA DI CAPRI	40.5N	14.5E	39.9N	13.4E	10	NE	LO	250	N	Y	84 287	10:16:46	123	134	41	129
44	90	ITALY	GULFO DI POLICASTRO	40.0N	15.5E	39.4N	13.9E	50	NE	LO	250	F	Y	84 287	10:16:55	123	135	42	129
44	91	ITALY	GULFO DI POLICASTRO	40.0N	16.0E	39.2N	14.1E	50	NE	LO	250	F	Y	84 287	10:16:59	123	135	42	129
44	92	ITALY	BELVEDERE MARITIMO	39.5N	16.0E	39.0N	14.4E	40	NE	LO	250	F	N	84 287	10:17: 3	123	135	42	129
44	93	ITALY	STRAIT OF MESSINA	38.0N	15.5E	38.5N	15.0E	50	SE	LO	250	N	N	84 287	10:17:14	123	135	43	129
44	94	ITALY	STRAIT OF MESSINA	38.5N	15.5E	38.3N	15.2E	60		NV	250	N	N	84 287	10:17:18	123	136	43	129
44	95	ITALY	SOUTHERN TIP	38.0N	16.0E	37.5N	16.1E	50	N	LO	250	N	N	84 287	10:17:35	123	136	44	129
44	96	LIBYA	AL BAYDA/NEW CITY	33.0N	21.5E	33.0N	20.7E	0	E	LO	250	N	N	84 287	10:19: 4	122	139	49	129
44	97	LIBYA	DARNAH/MARTUBAH AIRFIELD	23.5N	22.5E	32.3N	21.3E	0	E	LO	250	N	N	84 287	10:19:18	122	139	49	129
44	98	LIBYA	JAGHBUB/BIRAL ARASHIYAH	29.5N	25.0E	29.7N	23.8E	0	E	LO	250	N	N	84 287	10:20: 7	122	141	52	129
44	99	SUDAN	NILE RIVER	21.0N	30.5E	21.5N	29.8E	0	SE	LO	250	N	N	84 287	10:22:39	121	144	59	129
44	100	ETHIOPIA	TANA LAKE	12.0N	37.0E	13.9N	34.8E	0	SE	LO	250	N	N	84 287	10:24:56	120	145	63	129
44	101	ETHIOPIA	ETHIOPIAN HIGHLANDS	9.0N	38.0E	9.8N	37.2E	1	N	LO	250	N	Y	84 287	10:26: 8	120	146	65	129
44	102	ETHIOPIA	ETHIOPIAN HIGHLANDS	9.0N	38.0E	9.6N	37.4E	1	N	LO	250	N	Y	84 287	10:26:12	120	146	65	129

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
44	103	ETHIOPIA	ETHIOPIAN HIGHLANDS	8.5N	39.0E	8.9N	37.8E	0	E	LO	250	N	Y	84 287	10:26:24	120	148	65	129
44	104	ETHIOPIA	ETHIOPIAN HIGHLANDS	8.5N	39.0E	8.7N	37.9E	0	E	LO	250	N	Y	84 287	10:26:27	120	148	65	129
44	105	ETHIOPIA	DAWA RIVER	5.0N	40.5E	5.2N	40.0E	60		NV	250	N	Y	84 287	10:27:30	120	148	65	129
44	106	ETHIOPIA	DAWA RIVER	4.5N	40.5E	5.0N	40.1E	80		NV	250	N	Y	84 287	10:27:33	120	148	65	129
44	107	MADAGASCAR	NE COASTLINE	13.0S	50.0E	10.2S	48.9E	30	SE	LO	250	N	N	84 287	10:32: 2	120	148	59	129
44	108	MADAGASCAR	NE COASTLINE	13.0S	50.0E	10.5S	49.1E	30	SE	LO	250	N	N	84 287	10:32: 7	120	148	59	129
44	109	MADAGASCAR	CAPE D'AMBRE	12.0S	49.5E	13.0S	50.6E	20	SW	LO	250	N	N	84 287	10:32:51	120	148	57	129
45	2	CANADA-PEI	WESTERN PRINCE EDWARD I	46.5N	64.0W	46.4N	62.5W	60	W	LO	100	N	N	84 286	14:58:32	124	126	34	116
45	3	CANADA-NS	SABLE ISLAND	44.0N	60.0W	43.9N	58.4W	60	W	LO	100	N	N	84 286	14:59:30	124	131	37	116
45	4	PACIFIC OCEAN	OCCLUDED LOW	56.7N	139.7W	56.7N	139.7W	100		HO	100	N	N	84 286	16:18:34	126	81	3	117
45	5	PACIFIC OCEAN	OCCLUDED LOW	56.8N	138.3W	56.8N	138.3W	100		HO	100	N	N	84 286	16:18:48	126	83	4	117
45	6	PACIFIC OCEAN	OCCLUDED LOW	56.9N	138.8W	56.9N	138.8W	100		HO	100	N	N	84 286	16:18:59	126	84	4	117
45	7	PACIFIC OCEAN	OCCLUDED LOW	56.9N	138.3W	56.9N	138.3W	100		HO	100	N	N	84 286	16:19: 3	126	84	5	117
45	8	PACIFIC OCEAN	OCCLUDED LOW	57.0N	134.9W	57.0N	134.9W	100		HO	100	N	N	84 286	16:19:15	126	86	5	117
45	9	PACIFIC OCEAN	OCCLUDED LOW	57.0N	134.8W	57.0N	134.8W	100		HO	100	N	N	84 286	16:19:17	126	86	6	117
45	10	PACIFIC OCEAN	OCCLUDED LOW	57.0N	134.3W	57.0N	134.3W	100		HO	100	N	N	84 286	16:19:20	126	86	6	117
45	11	CANADA-BC	ST ELIAS MOUNTAINS	60.0N	137.0W	57.1N	131.9W	20	NW	LO	100	N	Y	84 286	16:19:40	126	88	7	117
45	12	CANADA-BC	ST ELIAS MOUNTAINS	60.0N	136.5W	57.1N	131.5W	20	NW	LO	100	N	Y	84 286	16:19:43	126	88	7	117
45	13	CANADA-BC	ST ELIAS MOUNTAINS	61.0N	136.5W	57.1N	131.0W	20	NW	LO	100	N	Y	84 286	16:19:47	126	89	7	117
45	14	CANADA-BC	CANADIAN ROCKIES	58.5N	126.5W	57.1N	129.5W	20	NE	LO	100	N	Y	84 286	16:20: 0	126	90	8	117
45	15	CANADA-BC	CANADIAN ROCKIES	58.5N	128.0W	57.1N	128.0W	20	NE	LO	100	N	Y	84 286	16:20: 4	126	91	8	117
45	16	CANADA-BC	CANADIAN ROCKIES	58.5N	127.5W	57.1N	128.4W	30	NE	LO	100	N	Y	84 286	16:20: 9	126	91	9	117
45	17	CANADA-BC	CANADIAN ROCKIES	58.5N	127.0W	57.1N	127.7W	30	NE	LO	100	N	Y	84 286	16:20:15	126	92	9	117
45	18	CANADA-BC	CANADIAN ROCKIES	58.5N	126.0W	57.1N	127.1W	40	NE	LO	100	N	Y	84 286	16:20:20	126	92	9	117
45	19	CANADA-BC	CANADIAN ROCKIES	58.5N	125.5W	57.0N	126.4W	30	NE	LO	100	N	Y	84 286	16:20:26	126	93	10	117
45	20	CANADA-BC	CANADIAN ROCKIES	58.5N	124.5W	57.0N	125.8W	20	NE	LO	100	N	Y	84 286	16:20:31	126	93	10	117
45	21	CANADA-BC	CANADIAN ROCKIES	58.5N	124.0W	57.0N	125.1W	10	NE	LO	100	N	Y	84 286	16:20:37	126	94	10	117
45	22	CANADA-BC	CANADIAN ROCKIES	57.5N	123.5W	56.9N	124.1W	20	NE	LO	100	U	Y	84 286	16:20:45	126	95	11	117
45	23	CANADA-BC	CANADIAN ROCKIES	57.0N	123.5W	56.8N	122.7W	20	NE	LO	100	U	Y	84 286	16:20:57	126	96	11	117
45	24	CANADA-BC	CANADIAN ROCKIES	59.0N	124.0W	56.7N	121.1W	20	NW	LO	100	N	N	84 286	16:21:11	126	98	12	117
45	25	USA-MICHIGAN	UPPER PEN/FOG FLOWS	46.5N	85.0W	46.5N	85.3W	30		NV	100	U	N	84 286	16:27:21	124	127	34	117
45	26	USA-NEW YORK	BUFFALO/FOG FLOWS	43.0N	79.0W	43.7N	80.7W	50	SE	LO	100	U	N	84 286	16:28:27	124	131	37	117
45	27	CANADA-O	TORONTO	43.5N	79.5W	43.3N	80.1W	50		NV	100	U	N	84 286	16:28:37	123	131	38	117
45	28	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	41.0N	77.0W	42.2N	78.5W	10	SE	LO	100	U	N	84 286	16:28: 1	123	132	39	117
45	29	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	41.0N	76.0W	42.0N	78.4W	20	SE	LO	100	U	N	84 286	16:28: 4	123	132	39	117
45	30	USA-DIST OF COLUMBIA	WASHINGTON DC/BALTIMORE	39.0N	77.0W	41.8N	77.7W	30	SE	LO	100	U	N	84 286	16:28:14	123	133	40	117
45	31	USA-PENNSYLVANIA	APPALACHIAN MOUNTAINS	42.0N	76.5W	40.7N	76.6W	30	N	LO	100	U	N	84 286	16:28:32	123	134	41	117
45	32	USA-MARYLAND	BALTIMORE/SUSQUEHANNA R	39.0N	76.0W	40.2N	76.1W	20	S	LO	100	N	N	84 286	16:28:42	123	134	41	117
45	33	USA-PENNSYLVANIA	PHILADELPHIA/DELAWARE R	40.0N	75.5W	40.1N	75.8W	30		NV	100	N	N	84 286	16:28:48	123	134	42	117
45	34	USA-MARYLAND	BALTIMORE/SUSQUEHANNA R	39.0N	76.0W	39.5N	75.1W	40	W	LO	100	N	N	84 286	16:28:58	123	135	42	117
45	35	ATLANTIC OCEAN	THE EYE OF JOSEPHINE	40.0N	71.0W	35.9N	71.1W	95		LO	100	N	N	84 286	16:31:12	122	137	48	117
45	36	BERMUDA ISLANDS	ISLANDS/NORTH ATLANTIC	32.0N	65.0W	31.5N	67.0W	30	NE	LO	100	N	N	84 286	16:32:37	122	140	50	117
45	37	ATLANTIC OCEAN	CLOUDS & WATER	29.3N	65.1W	29.3N	65.1W	60		NV	100	N	Y	84 286	16:33:19	121	141	52	117
45	38	ATLANTIC OCEAN	CLOUDS AND WATER	29.0N	64.8W	29.0N	64.8W	60		NV	100	N	Y	84 286	16:33:24	121	141	52	117
45	39	ATLANTIC OCEAN	CLOUDS AND WATER	28.7N	64.6W	28.7N	64.6W	60		NV	100	N	Y	84 286	16:33:30	121	141	53	117
45	40	ATLANTIC OCEAN	CLOUDS AND WATER	28.4N	64.4W	28.4N	64.4W	60		NV	100	N	Y	84 286	16:33:35	121	141	53	117
45	41		UNDEREXPOSED			56.2S	23.8E				100	U	N	84 286	17: 2:17	127	102	-0	117
45	42	CANADA-A	MOON/EARTH/ORBITER	50.3N	115.6W	50.3N	115.6W	90		HO	100	N	N	84 286	17:54:36	125	121	29	118
45	43	USA-WYOMING	BLACK HILLS	45.0N	105.0W	44.7N	104.8W	1		NV	100	N	Y	84 286	17:56:57	124	130	36	118
45	44	USA-WYOMING	BLACK HILLS	44.5N	104.5W	44.4N	104.4W	2		NV	100	N	Y	84 286	17:57: 3	124	130	36	118

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
45	45	USA-WYOMING	BLACK HILLS	44.5N	104.5W	44.2N	104.1W	2		NV	100	N	Y	84 286	17:57: 8	124	130	37	118
45	46	USA-SOUTH DAKOTA	BLACK HILLS/RAPID CITY	44.0N	103.5W	43.9N	103.6W	2		NV	100	N	Y	84 286	17:57:15	124	131	37	118
45	47	USA-SOUTH DAKOTA	BLACK HILLS/RAPID CITY	44.0N	103.5W	43.8N	103.1W	2		NV	100	N	Y	84 286	17:57:22	123	131	38	118
45	48	USA-NEBRASKA	THE SAND HILLS	42.5N	102.0W	42.7N	101.9W	20		NV	100	N	Y	84 286	17:57:41	123	132	39	118
45	49	USA-NEBRASKA	THE SAND HILLS	42.5N	102.0W	42.4N	101.5W	15		NV	100	N	Y	84 286	17:57:48	123	132	39	118
45	50	USA-NEBRASKA	THE SAND HILLS	42.0N	101.5W	42.1N	101.1W	5		NV	100	N	Y	84 286	17:57:54	123	132	39	118
45	51	USA-NEBRASKA	THE SAND HILLS	42.0N	101.0W	41.8N	100.6W	1		NV	100	N	Y	84 286	17:58: 2	123	133	40	118
45	52	USA-NEBRASKA	THE SAND HILLS/PLATTE R	41.5N	101.0W	41.5N	100.3W	5		NV	100	N	Y	84 286	17:58: 7	123	133	40	118
45	53	USA-LOUISIANA	MISSISSIPPI RIVER	31.5N	91.5W	33.2N	91.1W	60	S	LO	100	N	N	84 286	18: 0:57	122	139	49	118
45	54	USA-MISSISSIPPI	CHANDELEUR SOUND/GLINT	30.5N	89.5W	30.8N	89.0W	50		NV	100	N	N	84 286	18: 1:42	122	140	51	118
45	55	USA-LOUISIANA	MISSISSIPPI DELTA/GLINT	30.0N	89.5W	30.6N	88.7W	40		NV	100	N	N	84 286	18: 1:47	122	140	51	118
45	56	USA-LOUISIANA	MISSISSIPPI DELTA/GLINT	29.5N	90.0W	30.3N	88.5W	40	SW	LO	100	N	N	84 286	18: 1:52	121	140	51	118
45	57	USA-FLORIDA	CUMULUS FORMATION	28.5N	80.5W	26.8N	85.6W	80	NE	HO	100	N	N	84 286	18: 2:58	121	142	54	118
45	58	USA-FLORIDA	CUMULUS FORMATION	28.5N	80.5W	26.5N	85.4W	80	NE	HO	100	N	N	84 286	18: 3: 4	121	142	54	118
45	59	USA-FLORIDA	CUMULUS FORMATION	28.0N	83.0W	26.3N	85.2W	70	NE	LO	100	N	N	84 286	18: 3: 8	121	142	55	118
45	60	USA-FLORIDA	PINE ISLANDS/KEY WEST	24.5N	82.0W	24.1N	83.6W	30	E	LO	100	N	N	84 286	18: 3:49	121	143	56	118
45	61	CUBA	CORTES BAY/SAN FFLIPE IS	22.0N	84.0W	23.1N	82.8W	60	SW	LO	100	N	N	84 286	18: 4: 7	121	143	57	118
45	62	CUBA	BATABANO GULF	22.5N	83.0W	22.9N	82.7W	50	SW	LO	100	N	N	84 286	18: 4:10	121	143	57	118
45	63	CUBA	CAZONES GULF	22.0N	81.5W	21.6N	81.8W	60		NV	100	N	Y	84 286	18: 4:33	120	144	58	118
45	64	CUBA	CAZONES GULF	21.5N	81.5W	21.3N	81.6W	50		NV	100	N	Y	84 286	18: 4:39	120	144	58	118
45	65	ATLATNIC OCEAN	PACK ICE IN S ATLANTIC	56.5S	4.4E	56.5S	4.4E	0			100	U	N	84 286	18:31:36	127	99	-2	118
45	66	ATLATNIC OCEAN	PACK ICE IN S ATLANTIC	56.8S	6.8E	56.8S	6.8E	0			100	N	N	84 286	18:31:57	127	97	-3	118
45	67	ATLANTIC OCEAN	PACK ICE IN S ATLANTIC	56.8S	7.7E	56.8S	7.7E	0			100	U	N	84 286	18:32: 5	127	98	-3	118
45	68	USA-NEVADA	PYRAMID LAKE/RENO	40.0N	119.5W	40.1N	121.0W	60	E	LO	100	N	Y	84 286	19:27:31	123	134	42	119
45	69	USA-NEVADA	PYRAMID LAKE/RENO	40.0N	119.5W	39.9N	120.8W	80	E	LO	100	N	Y	84 286	19:27:34	123	134	42	119
45	70	USA-CALIFORNIA	SUTTER BUTTE/OROVILLE RE	39.0N	122.0W	39.5N	120.3W	40	W	LO	100	N	N	84 286	19:27:42	123	135	42	119
45	71	USA-CALIFORNIA	SIERRA NEVADA MTS/MONO L	38.0N	119.5W	38.7N	119.3W	10		NV	100	N	Y	84 286	19:28: 0	123	135	43	119
45	72	USA-CALIFORNIA	SIERRA NEVADA MTS/MONO L	38.0N	119.5W	38.3N	118.9W	10		NV	100	N	Y	84 286	19:28: 7	123	136	43	119
45	73	USA-CALIFORNIA	SIERRA NEVADA MTS/MONO L	37.5N	119.0W	38.1N	118.7W	5		NV	100	N	Y	84 286	19:28:12	123	136	44	119
45	74	MEXICO	GULF OF CALIFORNIA EDDY	31.5N	114.5W	34.7N	115.1W	30	S	HO	100	N	N	84 286	19:29:20	122	138	47	119
45	75	MEXICO	GULF OF CALIFORNIA EDDY	31.5N	113.5W	34.4N	114.8W	40	S	HO	100	N	N	84 286	19:29:26	122	138	48	119
45	76	USA-CALIFORNIA	SALTON SEA TO SAN DIEGO	32.5N	117.0W	33.9N	114.3W	10	E	LO	100	N	N	84 286	19:29:35	122	139	48	119
45	77	USA-CALIFORNIA	SALTON SEA TO SAN DIEGO	32.5N	117.0W	33.7N	114.2W	10	E	LO	100	N	N	84 286	19:29:39	122	139	48	119
45	78	USA-CALIFORNIA	SALTON SEA TO SAN DIEGO	33.0N	117.0W	33.4N	113.8W	10	E	LO	100	N	N	84 286	19:29:45	122	139	48	119
45	79	MEXICO	NORTHERN BAHA CALIFORNIA	32.0N	116.5W	33.0N	113.5W	10	NW	LO	100	N	N	84 286	19:29:53	122	139	49	119
45	80	MEXICO	GULF OF CALIFORNIA	31.5N	114.5W	32.3N	112.9W	2	NW	LO	100	N	N	84 286	19:30: 6	122	139	49	119
45	81	MEXICO	GULF OF CALIFORNIA EDDY	29.5N	113.0W	31.8N	112.4W	40	SW	LO	100	N	N	84 286	19:30:16	122	140	50	119
45	82	MEXICO	INTERNAL WAVES/GUL OF CA	29.0N	112.5W	31.0N	111.7W	50	SW	LO	100	N	N	84 286	19:30:31	122	140	51	119
45	83	MEXICO	GULF OF CALIFORNIA EDDY	29.0N	112.0W	30.8N	111.5W	50	SW	LO	100	N	N	84 286	19:30:35	122	140	51	119
45	84	MEXICO	GULF OF CALIFORNIA/CLDS	28.0N	110.5W	29.7N	110.6W	90		NV	100	N	N	84 286	19:30:56	121	141	52	119
45	85	MEXICO	BAJA CALIFORNIA/LIEBRE L	28.0N	114.0W	29.0N	109.9W	50	SW	LO	100	N	N	84 286	19:31:10	121	141	52	119
45	86	MEXICO	GULF OF CALIFORNIA	27.5N	110.5W	28.5N	109.6W	80	SW	LO	100	N	N	84 286	19:31:19	121	141	53	119
45	87	MEXICO	GULF OF CALIFORNIA EDDY	25.5N	109.0W	27.2N	108.5W	40	SW	LO	100	N	N	84 286	19:31:43	121	142	54	119
45	88	GALAPAGOS ISLANDS	PACIFIC OCEAN/CLOUDS	0.0	91.5W	1.4N	92.0W	50	S	LO	100	N	N	84 286	19:39:25	120	147	62	119
45	89	GALAPAGOS ISLANDS	PACIFIC OCEAN/CLOUDS	0.5S	91.5W	1.1N	91.8W	40	S	LO	100	N	Y	84 286	19:39:31	120	147	62	119
45	90	GALAPAGOS ISLANDS	PACIFIC OCEAN/CLOUDS	0.5S	91.0W	0.9N	91.7W	30	E	LO	100	N	Y	84 286	19:39:35	120	147	62	119
45	91	GALAPAGOS ISLANDS	PACIFIC OCEAN/CLOUDS	1.0S	91.5W	0.1N	91.2W	70	S	LO	100	N	N	84 286	19:39:49	120	147	61	119
45	92	GALAPAGOS ISLANDS	PACIFIC OCEAN/CLOUDS	0.0	90.5W	1.1S	90.5W	50	N	LO	100	N	N	84 286	19:40:11	120	147	61	119
45	93	GALAPAGOS ISLANDS	PACIFIC OCEAN/CLOUDS	0.5S	90.5W	1.2S	90.4W	60	N	LO	100	N	N	84 286	19:40:13	120	147	61	119
45	94	PACIFIC OCEAN	CLOUDS	2.3S	89.8W	2.3S	89.8W	80			100	N	N	84 286	19:40:32	120	146	60	119

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
45	95	PACIFIC OCEAN	CELLULAR CLOUD PATTERNS	7.3S	86.9W	7.3S	86.9W	80			100	N	N	84 288	19:42: 1	120	146	58	119
45	96	CHILE	COASTLINE/ANDES MTS	31.0S	71.5W	28.1S	73.1W	10	SE	LO	100	N	N	84 288	19:48:16	122	141	40	119
45	97	CHILE	RIO LIMARI/RESERVOIRS	30.5S	71.0W	29.5S	71.9W	10	SE	LO	100	N	N	84 288	19:48:42	122	141	39	119
45	98	CHILE	ANDES/RIO DE LAS LAGUNAS	31.5S	70.5W	30.3S	71.3W	5	S	LO	100	N	N	84 288	19:48:57	122	140	38	119
45	99	ARGENTINA	ANDES/RIO DE LAS LAGUNAS	31.5S	70.5W	30.6S	71.0W	10	S	LO	100	N	N	84 288	19:49: 3	123	140	38	119
45	100	ARGENTINA	ANDES/RIO DE LAS LAGUNAS	32.0S	70.0W	30.9S	70.7W	10	S	LO	100	N	N	84 288	19:49: 9	123	140	38	119
45	101	CHILE	ANDES/LAGUNA LLANCANELO	36.0S	70.5W	33.1S	68.7W	30	SW	LO	100	N	Y	84 288	19:49:51	123	139	35	119
45	102	CHILE	ANDES/LAGUNA LLANCANELO	36.0S	70.5W	33.4S	68.5W	30	SW	LO	100	N	Y	84 288	19:49:57	123	139	35	119
45	103	ARGENTINA	RIO COLORADO/SO PAMPAS	39.0S	63.5W	38.2S	63.8W	20		NV	100	N	N	84 288	19:51:52	124	136	28	119
45	104	ARGENTINA	PAMPAS/COASTLINE/CLOUDS	39.0S	59.0W	39.0S	62.6W	40	E	LO	100	N	N	84 288	19:51:50	124	135	28	119
45	105	ARGENTINA	PAMPAS/COASTLINE/CLOUDS	39.0S	58.0W	39.2S	62.4W	60	E	HO	100	N	N	84 288	19:51:53	124	135	28	119
45	106	ARGENTINA	PAMPAS/COASTLINE/CLOUDS	38.0S	57.0W	39.4S	62.2W	80	NE	HO	100	N	N	84 288	19:51:57	124	135	28	119
45	107	ARGENTINA	PAMPAS/COASTLINE/CLOUDS	38.0S	57.0W	39.8S	61.6W	80	NE	HO	100	N	N	84 288	19:52: 6	124	134	28	119
45	108	ARGENTINA	PAMPAS/COASTLINE/CLOUDS	37.5S	57.5W	40.9S	60.2W	60	NE	LO	100	N	N	84 288	19:52:30	124	133	26	119
45	109	ARGENTINA	PAMPAS/COASTLINE/CLOUDS	38.5S	56.5W	41.2S	59.9W	60	NE	LO	100	N	N	84 288	19:52:35	124	133	26	119
45	110	ATLANTIC OCEAN	CLOUDS/WATER/SUNGLINT	43.4S	56.9W	43.4S	56.9W	40			100	F	N	84 288	19:53:23	125	131	23	119
45	111	ATLANTIC OCEAN	CLOUDS AND WATER	44.9S	54.6W	44.9S	54.6W	15			100	U	N	84 288	19:53:57	125	129	21	119
45	112	ATLANTIC OCEAN	CLOUDS AND WATER	45.7S	53.3W	45.7S	53.3W	20			100	N	N	84 288	19:54:16	125	128	20	119
45	113	ATLANTIC OCEAN	DRIFT ICE/WAVE CLOUDS	55.9S	23.4W	55.9S	23.4W	70			100	U	N	84 288	19:59:43	127	104	0	119
45	114	ATLANTIC OCEAN	TRANSVERSE CLOUD WAKES	56.2S	21.4W	56.2S	21.4W	90			100	N	N	84 288	20: 0: 1	127	102	-0	119
45	115	ATLANTIC OCEAN	PACK ICE AND CLOUDS	56.7S	16.0W	56.7S	16.0W	50			100	N	N	84 288	20: 0:47	127	98	-3	119
45	116	ATLANTIC OCEAN	PACK ICE AND CLOUDS	56.8S	15.5W	56.8S	15.5W	50			100	N	N	84 288	20: 0:52	127	97	-3	119
45	117		SIR-B ANTENNA			57.1S	9.5W				100	N	N	84 288	20: 1:42	127	92	-6	119
45	118		SIR-B ANTENNA			57.1S	8.1W				100	N	N	84 288	20: 1:54	127	91	-7	119
45	119		SIR-B ANTENNA			57.1S	6.4W				100	N	N	84 288	20: 2: 8	127	89	-7	119
45	120		SIR-B ANTENNA			57.1S	5.7W				100	N	N	84 288	20: 2:14	127	89	-8	119
46	2	SPAIN	NORTHWESTERN COASTLINE	43.0N	8.5W	42.9N	7.7W	20		NV	100	N	N	84 283	12:54:25	126	132	40	66
46	3	SPAIN	NORTHWESTERN COASTLINE	43.0N	8.0W	42.6N	7.3W	20		NV	100	N	N	84 283	12:54:32	126	132	40	66
46	4	SPAIN	RICOBAYO RESERVOIR	41.5N	6.5W	41.5N	6.8W	0		NV	100	O	N	84 283	12:54:57	126	133	41	66
46	5	SPAIN	SANTA TERESA RESERVOIR	41.5N	5.5W	41.1N	5.3W	0		NV	100	N	N	84 283	12:55: 4	125	133	41	66
46	6	SPAIN	TAGUS RIVER	39.5N	5.0W	40.1N	4.1W	0		NV	100	N	N	84 283	12:55:25	125	134	42	66
46	7	SPAIN	TAGUS RIVER	39.5N	4.5W	39.8N	3.8W	0		NV	100	O	N	84 283	12:55:33	125	134	42	66
46	8	SPAIN	COSTA DEL SOL/GRANADA	37.5N	4.0W	37.7N	1.2W	25	W	LO	100	O	N	84 283	12:56:16	125	136	43	66
46	9	SPAIN	COSTA DEL SOL/GRANADA	37.5N	3.5W	37.2N	0.7W	30	W	LO	100	N	N	84 283	12:56:26	125	136	43	66
46	10	ALGERIA	IRARRARENE	26.5N	7.5E	26.4N	9.0E	5		NV	100	O	N	84 283	12:59:54	123	142	47	66
46	11	ZAIRE	ITIMBIRI RIVER/AKETI	2.5N	23.5E	2.0N	24.6E	85		NV	100	N	N	84 283	13: 7:11	121	146	44	66
46	12	ZAIRE	ZAIRE RIVER	2.0N	23.5E	1.4N	24.9E	90		NV	100	N	N	84 283	13: 7:22	121	147	44	66
46	13	ZAMBIA	LAKE BANGWEULU	12.0S	30.0E	10.4S	31.6E	90	SW	LO	100	O	N	84 283	13:10:51	121	148	37	66
46	14	ZAMBIA	LAKE BANGWEULU	11.5S	29.5E	10.6S	31.9E	90	SW	LO	100	O	N	84 283	13:10:54	121	148	37	66
46	15	MOZAMBIQUE	ZAMBEZI RIVER/FIRES	19.0S	36.5E	18.5S	36.9E	20		NV	100	N	N	84 283	13:13:15	122	144	31	66
46	16	MOZAMBIQUE	ZAMBEZI RIVER/FIRES	19.0S	36.5E	19.0S	37.2E	30		NV	100	U	N	84 283	13:13:24	122	144	31	66
46	17		UNEXPOSED			1.0N	103.2E							84 284	19:31:15	120	32	-60	87
46	18		UNEXPOSED			1.3N	103.4E							84 284	19:31:19	120	32	-60	87
46	19	SUDAN	KHASHM EL QIRBA DAM	15.5N	35.5E	11.8N	36.6E	50	NW	HO	100	N	N	84 285	11: 0:52	120	146	58	87
46	20	CANADA-NWT	AKIMISKI ISLAND	53.0N	82.0W	54.0N	81.9W	0		NV	250	U	Y	84 286	14:54:49	125	112	21	116
46	21	CANADA-NWT	AKIMISKI ISLAND	53.0N	81.5W	53.9N	81.4W	0		NV	250	U	Y	84 286	14:54:53	125	112	22	116
46	22	CANADA-NWT	AKIMISKI ISLAND	53.0N	81.0W	53.9N	81.1W	10		NV	250	U	Y	84 286	14:54:58	125	112	22	116
46	23	CANADA-NWT	AKIMISKI ISLAND/DARK	53.0N	80.5W	53.1N	78.5W	10	W	LO	250	U	N	84 286	14:55:23	125	115	23	116
46	24	CANADA-NWT	AKIMISKI ISLAND/DARK	53.0N	81.0W	53.0N	78.2W	0	W	LO	250	U	N	84 286	14:55:28	125	115	24	116
46	25	CANADA-NWT	AKIMISKI ISLAND/DARK	53.0N	81.5W	52.9N	77.7W	0	W	LO	250	U	N	84 286	14:55:31	125	115	24	116

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
46	26		VERY DARK			50.3N	70.5W				250	U	N	84 286	14:56:50	124	121	28	116
46	27		VERY DARK			50.2N	70.2W				250	U	N	84 286	14:56:54	124	121	29	116
46	28		VERY DARK			50.1N	70.1W				250	U	N	84 286	14:56:55	124	122	29	116
46	29		VERY DARK			50.1N	69.9W				250	U	N	84 286	14:56:57	124	122	29	116
46	30	CANADA-Q	SEPT-ILES/VERY DARK	50.0N	66.5W	49.0N	67.4W	0		NV	250	U	N	84 286	14:57:27	124	124	30	116
46	31	CANADA-Q	RESERVOIR MANICOUAGAN	51.5N	68.5W	48.7N	68.8W	60	NW	LO	250	U	N	84 286	14:57:35	124	124	31	116
46	32	CANADA-Q	ILE D'ANTICOSTI/DARK	50.0N	64.0W	48.1N	65.7W	0	NE	LO	250	U	Y	84 286	14:57:49	124	125	32	116
46	33	CANADA-Q	ILE D'ANTICOSTI/DARK	50.0N	63.5W	48.0N	65.5W	0	NE	LO	250	U	Y	84 286	14:57:52	124	125	32	116
46	34	CANADA-Q	ILE D'ANTICOSTI/DARK	49.5N	63.5W	47.8N	65.2W	2	NE	LO	250	U	Y	84 286	14:57:56	124	125	32	116
46	35	CANADA-Q	ILE D'ANTICOSTI/DARK	49.5N	63.5W	47.7N	64.8W	2	NE	LO	250	U	Y	84 286	14:57:59	124	126	32	116
46	36	CANADA-Q	ILE D'ANTICOSTI/DARK	49.5N	63.0W	47.6N	64.6W	2	NE	LO	250	U	Y	84 286	14:58: 3	124	126	32	116
46	37	CANADA-Q	ILE D'ANTICOSTI/DARK	49.0N	62.5W	47.4N	64.4W	1	NE	LO	250	U	Y	84 286	14:58: 6	124	126	33	116
46	38	CANADA-Q	ILE D'ANTICOSTI/DARK	49.0N	62.5W	47.3N	64.2W	1	NE	LO	250	U	Y	84 286	14:58: 9	124	126	33	116
46	39	CANADA-Q	ILE D'ANTICOSTI/DARK	49.0N	62.0W	47.2N	63.8W	3	NE	LO	250	U	Y	84 286	14:58:12	124	126	33	116
46	40	CANADA-Q	GASPE PENINSULA/DARK	48.5N	64.5W	46.8N	63.1W	5	NW	LO	250	U	Y	84 286	14:58:23	124	127	34	116
46	41	CANADA-Q	GASPE PENINSULA/DARK	48.5N	65.0W	46.6N	62.9W	10	NW	LO	250	U	Y	84 286	14:58:26	124	127	34	116
46	42	CANADA-Q	GASPE PENINSULA/DARK	48.0N	65.5W	46.5N	62.6W	10	NW	LO	250	U	Y	84 286	14:58:30	124	127	34	116
46	43	CANADA-NS	MINAS BASIN/VERY DARK	45.5N	63.5W	45.5N	61.0W	75	W	LO	250	U	N	84 286	14:58:53	124	129	35	116
46	44	CANADA-NS	HALIFAX/VERY DARK	44.5N	63.5W	45.3N	60.6W	50	W	LO	250	U	N	84 286	14:58:58	124	129	36	116
46	45	CANADA-NS	SABLE ISLAND	44.0N	60.0W	44.6N	59.5W	50		NV	250	U	Y	84 286	14:59:14	124	130	36	116
46	46	CANADA-NS	SABLE ISLAND	44.0N	60.0W	44.1N	58.8W	40		NV	250	U	Y	84 286	14:59:25	124	130	37	116
46	47	BRAZIL	COASTLINE/VERY DARK	4.0N	51.0W	8.0N	50.6W	80	S	HO	100	U	N	84 286	16:39:44	120	146	62	117
46	48	BRAZIL	COASTLINE/VERY DARK	1.0N	49.5W	5.7N	49.3W	70	S	HO	100	U	N	84 286	16:40:25	119	146	62	117
46	49	BRAZIL	COASTLINE	3.5N	50.5W	4.2N	48.4W	75	SW	LO	100	N	Y	84 286	16:40:51	119	146	62	117
46	50	BRAZIL	COASTLINE	4.0N	51.0W	4.0N	48.3W	85	W	LO	100	N	Y	84 286	16:40:54	119	146	62	117
46	51	BRAZIL	COASTLINE	4.0N	51.0W	3.8N	48.2W	85	W	LO	100	N	Y	84 286	16:40:58	119	146	62	117
46	52	BRAZIL	COASTLINE	3.0N	50.5W	3.5N	48.0W	85	W	LO	100	N	Y	84 286	16:41: 3	119	146	62	117
46	53	BRAZIL	COASTLINE	4.0N	51.0W	3.2N	47.9W	85	NW	LO	100	N	N	84 286	16:41: 8	119	146	62	117
46	54	BRAZIL	ILHA DE MARAJO	1.5S	48.5W	2.3N	47.4W	90	SW	HO	100	N	N	84 286	16:41:24	119	146	61	117
46	55	BRAZIL	ILHA DE MARAJO	1.5S	49.0W	2.1N	47.2W	90	SW	HO	100	N	N	84 286	16:41:28	119	146	61	117
46	56	BRAZIL	ILHA DE MARAJO	1.5S	49.5W	1.9N	47.1W	90	SW	HO	100	N	N	84 286	16:41:32	119	146	61	117
46	57	BRAZIL	BAIA DE MARAJO	1.5S	49.5W	1.0N	46.6W	90	SW	HO	100	N	N	84 286	16:41:47	119	147	61	117
46	58	BRAZIL	BAIA DE MARAJO	2.0S	49.5W	0.8N	46.5W	90	SW	HO	100	N	N	84 286	16:41:50	119	147	61	117
46	59	BRAZIL	AMAZON RIVER	0.0	50.0W	0.5N	46.3W	80	W	HO	100	N	N	84 286	16:41:56	119	147	61	117
46	60	BRAZIL	AMAZON RIVER	0.5S	50.5W	0.3N	46.2W	85	W	HO	100	N	N	84 286	16:41:59	119	147	61	117
46	61	BRAZIL	AMAZON RIVER	1.0S	51.0W	0.1N	46.1W	90	W	HO	100	N	N	84 286	16:42: 3	119	147	61	117
46	62	BRAZIL	BAIA DE MARAJO	1.0S	48.5W	0.4S	45.7W	85	W	LO	100	N	N	84 286	16:42:14	119	147	61	117
46	63	BRAZIL	RIO TOCANTINS, RIO PARA	1.5S	47.5W	0.8S	45.5W	85	W	LO	100	N	N	84 286	16:42:21	119	147	60	117
46	64	BRAZIL	COASTLINE	2.5S	43.0W	3.3S	44.1W	60		NV	100	N	N	84 286	16:43: 5	119	146	59	117
46	65	BRAZIL	RIO PARNAIBA	4.0S	43.0W	4.0S	43.7W	95		NV	100	N	N	84 286	16:43:17	120	148	59	117
46	66	BRAZIL	TERESINA	5.0S	43.0W	4.8S	43.2W	95		NV	100	N	N	84 286	16:43:31	120	146	59	117
46	67	BRAZIL	SOBRADINHO RESERVOIR	9.5S	41.0W	8.2S	41.3W	60		NV	100	N	Y	84 286	16:44:30	120	146	57	117
46	68	BRAZIL	SOBRADINHO RESERVOIR	9.5S	41.5W	8.5S	41.1W	50		NV	100	N	Y	84 286	16:44:36	120	146	56	117
46	69	BRAZIL	SERRA DA JACOBINA	10.5S	40.5W	8.8S	40.9W	40		NV	100	N	Y	84 286	16:44:41	120	146	56	117
46	70	BRAZIL	SERRA DA JACOBINA	10.5S	40.0W	9.1S	40.7W	50		NV	100	N	Y	84 286	16:44:47	120	146	56	117
46	71	BRAZIL	SALVADOR	13.5S	39.0W	11.6S	39.2W	70	S	LO	100	N	N	84 286	16:45:30	120	146	54	117
46	72	BRAZIL	SALVADOR	13.0S	38.0W	12.9S	38.4W	70		NV	100	N	N	84 286	16:45:54	120	146	53	117
46	73	COLOMBIA	RIO MAGDALENA	9.5N	74.5W	9.9N	74.3W	90		NV	100	N	N	84 286	18: 8: 4	120	146	62	118
46	74	COLOMBIA	RIO MAGDALENA	8.0N	74.0W	8.4N	73.4W	90		NV	100	N	Y	84 286	18: 8:30	120	146	62	118
46	75	COLOMBIA	RIO MAGDALENA	7.5N	73.5W	7.8N	73.1W	90		NV	100	N	Y	84 286	18: 8:40	119	146	62	118

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	ALT	NADIR AZI	NADIR ELE	NADIR ORB
46	76	COLOMBIA	RIO CHICAMOCHA	6.5N	73.0W	7.2N	72.7W	90		NV	100	N	Y	84 286	18: 6:51	119	146	62	118
46	77	COLOMBIA	RIVER AND CLOUDS	4.1N	71.0W	4.1N	71.0W	90			100	N	N	84 286	18: 9:45	119	146	62	118
46	78	BRAZIL	AMAZON RIVER	2.5S	67.5W	2.3S	67.2W	90		NV	100	N	Y	84 286	18:11:39	118	146	60	118
46	79	BRAZIL	AMAZON RIVER	2.0S	67.0W	2.7S	67.0W	90		NV	100	N	Y	84 286	18:11:46	119	146	60	118
46	80	BRAZIL	RIO MADEIRA	8.5S	64.0W	8.2S	63.8W	90		NV	100	N	N	84 286	18:13:23	120	146	57	118
46	81	BRAZIL	LAND CLEARING	10.0S	62.8W	10.0S	62.6W	90			100	N	Y	84 286	18:13:55	120	146	56	118
46	82	BRAZIL	LAND CLEARING	10.4S	62.5W	10.4S	62.5W	80			100	N	Y	84 286	18:14: 2	120	146	55	118
46	83	BRAZIL	LAND CLEARING	10.8S	62.3W	10.8S	62.3W	70			100	N	Y	84 286	18:14: 9	120	146	55	118
46	84	BRAZIL	LAND CLEARING	11.2S	62.0W	11.2S	62.0W	70			100	N	Y	84 286	18:14:16	120	146	55	118
46	85	BRAZIL	LAND CLEARING	11.9S	61.6W	11.9S	61.6W	90			100	N	Y	84 286	18:14:28	120	146	54	118
46	86	BRAZIL	LAND CLEARING	12.0S	61.5W	12.0S	61.5W	90			100	N	Y	84 286	18:14:31	120	146	54	118
46	87	BRAZIL	LAND CLEARING	13.8S	60.4W	13.8S	60.4W	80			100	N	N	84 286	18:15: 3	120	145	53	118
46	88	BOLIVIA	CORIXA GRANDE	17.0S	58.5W	16.8S	58.6W	40		NV	100	N	N	84 286	18:15:56	120	145	51	118
46	89	BRAZIL	RIO LOURENCO	17.5S	57.0W	18.0S	57.8W	15		NV	100	N	N	84 286	18:16:17	121	145	50	118
46	90	BRAZIL	MATO GROSSO DO SUL	20.0S	56.5W	20.0S	56.5W	40			100	N	N	84 286	18:16:53	121	144	48	118
46	91	BRAZIL	PONTA PORA	22.0S	55.5W	21.5S	55.4W	35		NV	100	N	N	84 286	18:17:21	121	144	46	118
46	92	BRAZIL	PONTA PORA	22.0S	55.5W	21.9S	55.1W	30		NV	100	N	Y	84 286	18:17:28	121	144	46	118
46	93	BRAZIL	RIO PARANA	20.0S	51.0W	22.3S	54.6W	40	NE	HO	100	N	N	84 286	18:17:38	121	143	46	118
46	94	BRAZIL	RIO PARANA	21.5S	52.0W	22.6S	54.7W	7	NE	LO	100	N	N	84 286	18:17:40	121	143	46	118
46	95	BRAZIL	RIO PARANA	22.5S	52.5W	22.8S	54.5W	0	NE	LO	100	N	N	84 286	18:17:44	121	143	45	118
46	96	PARAGUAY	ITAIPU RESERVOIR	24.0S	54.5W	23.3S	54.1W	0		NV	100	N	Y	84 286	18:17:54	121	143	45	118
46	97	PARAGUAY	ITAIPU RESERVOIR	25.0S	54.5W	23.5S	54.0W	20	S	LO	100	N	Y	84 286	18:17:58	121	143	45	118
46	98	PARAGUAY	ITAIPU RESERVOIR	24.5S	54.5W	24.7S	53.1W	10	W	LO	100	N	Y	84 286	18:18:20	121	143	43	118
46	99	PARAGUAY	ITAIPU RESERVOIR	25.0S	54.5W	25.0S	52.9W	30	W	LO	100	N	Y	84 286	18:18:24	121	143	43	118
46	100	BRAZIL	RIO IGUACU/RIO CHOPIM	26.0S	52.0W	25.6S	52.4W	60		NV	100	N	N	84 286	18:18:36	122	142	43	118
46	101	BRAZIL	SMOKE	27.5S	50.9W	27.5S	50.9W	60			100	N	N	84 286	18:19:12	122	142	41	118
46	102	POLAND	CLOUDS	50.9N	17.0E	50.9N	17.0E	60			100	U	N	84 287	8:43: 7	125	120	26	128
46	103	POLAND	CLOUDS	50.5N	18.1E	50.5N	18.1E	85			100	U	N	84 287	8:43:19	125	121	27	128
46	104	POLAND	CLOUDS	48.6N	22.3E	48.6N	22.3E	85			100	U	N	84 287	8:44:10	124	124	30	128
46	105	TURKEY	BLACK SEA COASTLINE	42.0N	33.0E	41.9N	33.4E	25		NV	100	N	N	84 287	8:48:48	123	133	39	128
46	106	TURKEY	NORTH CENTRAL	41.5N	33.9E	41.5N	33.9E	0			100	N	N	84 287	8:48:57	123	133	39	128
46	107	TURKEY	BLACK SEA COASTLINE	41.5N	35.5E	40.9N	34.8E	0		NV	100	N	N	84 287	8:47:12	123	134	40	128
46	108	TURKEY	LAKE VAN/LAKE URMIA	38.5N	43.5E	38.4N	37.7E	20	E	HO	100	N	N	84 287	8:48: 1	123	136	43	128
46	109	TURKEY	LAKE VAN/MT ARARAT	39.5N	44.0E	38.0N	38.2E	25	NE	HO	100	N	N	84 287	8:48:10	123	136	43	128
46	110	TURKEY	DIYARBAKIR	38.0N	40.5E	37.6N	38.5E	0		NV	100	N	N	84 287	8:48:17	123	136	44	128
46	111	TURKEY	SYRIAN BORDER	37.0N	40.0E	36.7N	39.5E	0		NV	100	N	N	84 287	8:48:35	123	137	45	128
46	112	SYRIA	EUPHRATES RIVER	35.0N	40.5E	35.5N	40.8E	10		NV	100	N	N	84 287	8:48:59	122	138	46	128
46	113	IRAQ	BAGHDAD	33.5N	44.0E	32.6N	43.6E	0		NV	100	N	N	84 287	8:49:56	122	139	48	128
46	114	IRAQ	AN NAJAF	32.0N	44.5E	31.9N	44.3E	0		NV	100	N	N	84 287	8:50:11	122	140	50	128
46	115	KUWAIT	AL KUWAYT/SMOKE PLUMES	29.5N	48.0E	29.2N	48.5E	0		NV	100	N	N	84 287	8:51: 1	122	141	52	128
46	116	SAUDI ARABIA	PERSIAN GULF/SMOKE	28.0N	49.0E	27.4N	48.0E	0		NV	100	N	N	84 287	8:51:36	121	142	54	128
46	117	SAUDI ARABIA	DHAHRAN/BAHRAIN	26.5N	50.0E	25.8N	49.2E	10		NV	100	N	N	84 287	8:52: 5	121	142	55	128
46	118	OMAN	KURIA MURIA BAY	17.5N	55.0E	17.7N	54.9E	2		NV	100	N	N	84 287	8:54:33	120	145	61	128
47	1	CANADA-NWT	BELCHER ISLANDS	56.0N	80.0W			40		NV	250	N	N						67
47	2	CANADA-NWT	BELCHER ISLANDS	56.0N	79.5W			40		NV	250	N	N						67
47	3		SUN GLINT								250	N	N						67
47	4	NAMIBIA	BRANDBERG	21.0S	14.5E			0		NV	250	N	N						67
47	5	USA-NEW YORK	LONG ISLAND	40.5N	73.0W			2		NV	250	N	Y						69
47	6	USA-NEW YORK	LONG ISLAND	40.5N	73.5W			2		NV	250	N	Y						69
47	7	USA-NEW JERSEY	NORTHERN COASTLINE	40.5N	74.0W			60		NV	250	N	Y						69

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
47	8	USA-NEW YORK	LONG ISLAND	41.0N	72.0W			25	N	LO	250	N	N						69
47	9		SULLIVAN/LEESTMA-ORS EXP								250	U	N						69
47	10		SULLIVAN/LEESTMA-ORS EXP								250	U	N						69
47	11		SULLIVAN/LEESTMA-ORS EXP								250	U	N						69
47	12		SULLIVAN/LEESTMA-ORS EXP								250	U	N						69
47	13		SULLIVAN/LEESTMA-ORS EXP								250	U	N						69
47	14		SULLIVAN/LEESTMA-ORS EXP								250	N	N						69
47	15		SULLIVAN/LEESTMA-ORS EXP								250	N	N						69
47	16		SULLIVAN/LEESTMA-ORS EXP								250	N	N						69
47	17		SULLIVAN/LEESTMA-ORS EXP								250	N	N						69
47	18	GREENLAND	CLOUDS	64.0N	50.0W			90	NE	HO	250	N	N						130
47	19	GREENLAND	CLOUDS	60.0N	45.0W			90	NE	HO	250	N	N						130
47	20	ATLANTIC OCEAN	CLOUDS					70		HO	250	N	N						130
47	21	ATLANTIC OCEAN	CLOUDS					70			250	N	N						130
47	22	SPAIN						80		LO	250	N	N						130
47	23	SPAIN						80		LO	250	N	N						130
47	24	SPAIN						15			250	N	N						130
47	25	SPAIN						10			250	N	N						130
47	26	PORTUGAL	LISBON	38.5N	9.0W			10	SE	LO	250	N	N						130
47	27	PORTUGAL	BAIA DE SETUBAL	38.5N	8.5W			20	SE	LO	250	N	N						130
47	28	SPAIN	ROTA/CADIZ	37.0N	6.5W			20	SE	LO	250	N	N						130
47	29	SPAIN	STRAIT OF GIBRALTAR	36.5N	6.0W			20	SE	LO	250	N	N						130
47	30	MOROCCO	STRAIT OF GIBRALTAR	35.5N	5.0W			20	SE	LO	250	N	N						130
47	31	SPAIN	GULF OF CADIZ	37.0N	7.0W			20		NV	250	N	N						130
47	32	SPAIN	GULF OF CADIZ	37.0N	6.5W			15		NV	250	N	N						130
47	33	SPAIN	ROTA/CADIZ	36.5N	6.0W			10		NV	250	N	N						130
47	34	SPAIN	SAN FERNANDO	36.0N	6.0W			10		NV	250	N	N						130
47	35	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.5W			5		NV	250	N	N						130
47	36	MOROCCO	MEDITERRANEAN COASTLINE	35.5N	4.0W			10		NV	250	N	N						130
47	37	MOROCCO	MEDITERRANEAN COASTLINE	35.0N	2.5W			10		NV	250	N	N						130
47	38	SPAIN	STRAIT OF GIBRALTAR	36.0N	5.5W			30	NW	LO	250	N	N						130
47	39	MOROCCO	CAP DE TROIS FOURCHES	35.5N	3.0W			25	NW	LO	250	N	N						130
47	40	ALGERIA	PLATEAU EL GOLEA	33.0N	5.0E			1	NE	LO	250	N	N						130
47	41	ALGERIA	GRAND ERG ORIENTAL	28.5N	6.0E			0	E	LO	250	N	N						130
47	42	ALGERIA	HAMADA DE TINRHERT	27.5N	6.0E			0	E	LO	250	N	N						130
47	43	NIGER	PLATEAU DU DJADO	23.0N	15.0E			0	NE	LO	250	N	N						130
47	44	CAMEROON	LAKE CHAD	13.0N	14.5E			0	SE	LO	250	N	N						130
47	45	AFRICA						15			250	N	N						130
47	46	AFRICA						90			250	N	N						130
47	47	AFRICA						30			250	N	N						130
47	48	AFRICA						25			250	N	N						130
47	49	ZAMBIA	MITA HILLS DAM	14.0S	29.0E			25		NV	250	N	N						130
47	50	AFRICA						0			250	N	N						130
47	51	MOZAMBIQUE	CABORA BASSA RESERVOIR	15.5S	31.0E			8	SE	LO	250	N	Y						130
47	52	MOZAMBIQUE	CABORA BASSA RESERVOIR	16.0S	31.0E			2	SE	LO	250	N	Y						130
47	53	MOZAMBIQUE	CABORA BASSA RESERVOIR	16.0S	31.5E			2	SE	LO	250	N	Y						130
47	54	MOZAMBIQUE	CABORA BASSA RESERVOIR	15.5S	32.0E			2	SE	LO	250	N	Y						130
47	55	MOZAMBIQUE	CABORA BASSA RESERVOIR	15.5S	32.5E			10	SE	LO	250	N	Y						130
47	56		UNEXPOSED								250	U	N						130
47	57	MOZAMBIQUE	INHAMBANE	23.5S	35.5E			20		NV	250	N	N						130

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
47	58	CANADA-Q	LABRADOR FOLD BELT	56.5N	68.0W			0		NV	250	N	Y						
47	59	CANADA-Q	LABRADOR FOLD BELT	56.0N	68.0W			0		NV	250	N	Y						131
47	60	CANADA-Q	LABRADOR FOLD BELT	56.0N	67.5W			0		NV	250	N	Y						131
47	61	CANADA-Q	LABRADOR FOLD BELT	56.0N	67.5W			0		NV	250	N	Y						131
47	62	CANADA-Q	LABRADOR FOLD BELT	56.0N	67.0W			0		NV	250	N	Y						131
47	63	CANADA-N	KIGLAPAIT MOUNTAINS	57.0N	61.5W			20	NE	LO	250	N	N						131
47	64	CANADA-N	KIGLAPAIT MOUNTAINS	57.0N	61.5W			20	NE	LO	250	N	N						131
47	65	CANADA-N	SOUTH AULATSIVIK ISLAND	56.5N	61.5W			15	NE	LO	250	N	N						131
47	66	CANADA-N	PAUL ISLAND, DOG ISLAND	56.5N	61.0W			20	NE	LO	250	N	N						131
47	67	CANADA-N	HARP LAKE	55.0N	62.0W			5		NV	250	N	Y						131
47	68	CANADA-N	HARP LAKE, SHAPIO LAKE	55.0N	61.5W			2		NV	250	N	Y						131
47	69	CANADA-N	SHAPIO LAKE	55.0N	61.0W			1		NV	250	N	Y						131
47	70	CANADA-N	KANAIRIKTOK RIVER	55.0N	61.0W			0		NV	250	N	Y						131
47	71	CANADA-N	KANAIRIKTOK RIVER	55.0N	60.5W			2		NV	250	N	Y						131
47	72	CANADA-N	DOUBLE MER	54.0N	59.5W			8		NV	250	N	Y						131
47	73	CANADA-N	DOUBLE MER	54.0N	59.5W			8		NV	250	N	Y						131
47	74	AZORES	ILHA DE SAO JORGE	38.5N	28.5W			5		NV	250	N	Y						131
47	75	AZORES	ILHA DO PICO	38.5N	28.5W			8		NV	250	N	Y						131
47	76	AZORES	ILHA DE SAO JORGE	38.5N	28.0W			20		NV	250	N	Y						131
47	77		CLOUDS							HO	250	N	N						131
47	78	AFRICA	CLOUDS																131
47	79	AFRICA	CLOUDS					85		LO	250	N	N						
47	80	REPUBLIC SOUTH AFRICA	ATLANTIC COASTLINE	30.5S	17.5E			85		LO	250	N	N						131
47	81	REPUBLIC SOUTH AFRICA	ATLANTIC COASTLINE	32.0S	18.0E			70	NW	LO	250	N	N						131
47	82	REPUBLIC SOUTH AFRICA	ATLANTIC COASTLINE	32.0S	18.5E			30	NW	LO	250	N	N						131
47	83	REPUBLIC SOUTH AFRICA	CAPE COLUMBINE	33.0S	18.0E			30	NW	LO	250	N	N						131
47	84	REPUBLIC SOUTH AFRICA	ATLANTIC COASTLINE	32.0S	18.0E			30	NW	LO	250	N	N						131
47	85	REPUBLIC SOUTH AFRICA	SOUTHERN COASTLINE	34.5S	20.5E			60	NW	LO	250	N	N						131
47	86	REPUBLIC SOUTH AFRICA	SOUTHERN COASTLINE	34.5S	21.0E			40	NW	LO	250	N	N						131
47	87	REPUBLIC SOUTH AFRICA	SOUTHERN COASTLINE	34.5S	21.5E			50	NW	LO	250	N	N						131
47	88	REPUBLIC SOUTH AFRICA	SOUTHERN COASTLINE	34.5S	22.0E			70	NW	LO	250	N	N						131
47	89	INDIAN OCEAN	SUN GLINT					85	NW	LO	250	N	N						
47	90	INDIAN OCEAN	SUN GLINT					60		LO	250	N	N						131
47	91		ATMOSPHERIC LIMB					60		LO	250	N	N						131
47	92		ATMOSPHERIC LIMB							HO	250	N	N						131
47	93	CANADA-O	AKIMISKI ISLAND	53.0N	82.0W					HO	250	N	N						
47	94	CANADA-O	AKIMISKI ISLAND	53.0N	82.5W			10	SE	LO	250	N	N						132
47	95	CANADA-O	AKIMISKI ISLAND	52.5N	81.5W			25	SE	LO	250	N	N						132
47	96	CANADA-O	JAMES BAY	52.5N	81.5W			35	SE	LO	250	N	N						132
47	97	CANADA-O	AKIMISKI ISLAND	52.5N	80.5W			75	SE	LO	250	N	N						132
47	98	CANADA-Q	CHARLTON ISLAND	51.5N	79.0W			25	SE	LO	250	N	N						132
47	99	CANADA-Q	NOTTAWAY RIVER	51.0N	78.0W			90	SE	LO	250	N	N						
47	100	CANADA-Q	LAC EVANS	50.5N	77.0W			90	SE	LO	250	N	N						132
47	101	CANADA-Q	LAC PUSTICAMICA	48.5N	76.0W			90	SE	LO	250	N	N						132
47	102	CANADA-Q	LAC GUEGUEN	47.5N	77.5W			85	SE	LO	250	N	N						132
47	103	CANADA-Q	ST LAWRENCE RIVER	47.5N	68.5W			75	SE	LO	250	N	N						132
47	104	CANADA-NS	CHIGNECTO BAY	44.5N	63.5W			30	SE	LO	250	N	N						132
47	105	CANADA-NS	BAY OF FUNDY	44.0N	65.0W			50	SE	HO	250	N	N						132
47	106	CANADA-NS	BAY OF FUNDY	43.5N	65.5W			50	SE	LO	250	N	N						132
47	107	CANADA-NS	BAY OF FUNDY	44.5N	66.0W			60	SE	LO	250	N	N						132
								40	SE	LO	250	N	N						132

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
47	108	CANADA-NS	CHIGNECTO BAY	45.5N	64.0W			30	SE	LO	250	N	N						132
48	1	GHANA	COASTLINE	5.0N	2.0W			35		NV	100	N	N						67
48	2	NAMIBIA	BRANDBERG	21.0S	14.5E			0		NV	100	N	N						67
48	3	REPUBLIC SOUTH AFRICA	GROOT-SWARTBERGREEKS	33.5S	22.0E			30		NV	100	N	Y						67
48	4	REPUBLIC SOUTH AFRICA	GROOT-SWARTBERGREEKS	33.5S	22.5E			30		NV	100	N	Y						67
48	5	REPUBLIC SOUTH AFRICA	GROOT-SWARTBERGREEKS	33.5S	23.0E			30		NV	100	N	Y						67
48	6	REPUBLIC SOUTH AFRICA	KOUGABERGE	33.5S	23.0E			30		NV	100	N	Y						67
48	7	REPUBLIC SOUTH AFRICA	PLETTENBERG BAY	33.5S	23.5E			25		NV	100	N	Y						67
48	8	REPUBLIC SOUTH AFRICA	PLETTENBERG BAY	33.5S	24.0E			10		NV	100	N	Y						67
48	9	REPUBLIC SOUTH AFRICA	SAINT FRANCIS BAY	34.0S	24.5E			1		NV	100	N	N						67
48	10	REPUBLIC SOUTH AFRICA	PORT ELIZABETH	34.0S	25.5E			15		NV	100	N	N						67
48	11		UNDEREXPOSED								50	U	N						
48	12		UNDEREXPOSED								50	U	N						
48	13		RMS								50	U	N						
48	14		RMS								50	U	N						
48	15		LIGHTS								50	U	N						
48	16		SULLIVAN/LEESTMA-ORS EXP								50	N	N						
48	17	USA-MASSACHUSETTS	CAPE COD	41.5N	70.0W			30	NE	HO	50	N	N						69
48	18	USA-NEW YORK	LONG ISLAND	41.0N	72.5W			30	NE	HO	50	N	N						69
48	19	USA-NEW YORK	LONG ISLAND	41.0N	72.5W			30	NE	HO	50	N	N						69
48	20	USA-MASSACHUSETTS	CAPE COD	42.0N	70.0W			30	NE	HO	50	N	N						69
48	21		SULLIVAN/LEESTMA-ORS EXP								50	N	N						69
48	22		SULLIVAN/LEESTMA-ORS EXP								50	N	N						69
48	23		SULLIVAN/LEESTMA								50	N	N						69
48	24		SULLIVAN/LEESTMA								50	N	N						69
48	25		SULLIVAN/LEESTMA								50	N	N						69
48	26		SULLIVAN/LEESTMA								50	N	N						69
48	27		SULLIVAN/LEESTMA								50	N	N						69
48	28		SULLIVAN/LEESTMA								50	N	N						69
48	29		SULLIVAN/LEESTMA								50	N	N						69
48	30		SULLIVAN/LEESTMA								50	N	N						69
48	31		SULLIVAN/LEESTMA								50	N	N						69
48	32		SULLIVAN/LEESTMA								50	N	N						69
48	33		SULLIVAN/LEESTMA								50	N	N						69
48	34		SULLIVAN/LEESTMA								50	N	N						
48	35		SULLIVAN/LEESTMA								50	N	N						
48	36		SULLIVAN/LEESTMA								50	N	N						
48	37		SULLIVAN/LEESTMA								50	N	N						
48	38		SULLIVAN								50	N	N						
48	39		SULLIVAN								50	N	N						
48	40		SULLIVAN								50	N	N						
48	41		WATER/CLOUDS/PENINSULA								50	N	N						
49	1		CARGO BAY								100	N	N						
49	2	CANADA-N	NOTRE DAME BAY	48.5N	56.0W			85	S	LO	100	N	N						4
49	3	AZORES	ILHA DE SAO JORGE	38.5N	28.5W			40		NV	100	N	Y						4
49	4	AZORES	ILHA TERCEIRA	38.5N	27.5W			30		NV	100	N	Y						4
49	5	AZORES	ILHA DE SAO MIGUEL	37.5N	25.5W			25		NV	100	N	N						4
49	6	AZORES	ILHA DE SAO JORGE	38.0N	28.0W			50	NW	LO	100	N	N						4
49	7	CANARY ISLANDS	ISLA DE LA PALMA	28.5N	18.0W			80		NV	100	N	N						4
49	8	CANARY ISLANDS	GRAN CANARIA	27.5N	15.5W			80		NV	100	N	N						4

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
49	9	NAMIBIA	BRANDBERG	21.0S	14.5E			15		NV	100	U	N						4
49	10	NAMIBIA	NAMIB DESERT	24.5S	15.0E			0		NV	100	U	N						4
49	11		UNEXPOSED																
49	12		CARGO BAY								50	N	N						
49	13		CARGO BAY								50	N	N						
49	14	CANADA-O	SANDY LAKE/ISLAND LAKE	53.0N	84.0W			80	S	HO	50	N	N						5
49	15	CANADA-NS	NOVA SCOTIA	44.5N	65.0W			80	SE	LO	50	N	N						5
49	16	CANADA-NS	NOVA SCOTIA	44.0N	65.5W			80	NW	LO	50	N	N						5
49	17		ERBS ATTACHED TO ARM								100	N	N						
49	18		ERBS ATTACHED TO ARM								100	N	N						
49	19		ERBS ATTACHED TO ARM								100	N	N						
49	20		ERBS ATTACHED TO ARM								100	N	N						
49	21	USSR	SHUMSHU ISLAND	50.5N	157.0E			80	SE	LO	100	N	N						10
49	22		CLOUDS							HO	100	N	N						
49	23	TURKEY	BLACK SEA	42.0N	37.0E			5		NV	100	N	Y						17
49	24	TURKEY	AEGEAN SEA/DARDANELLES	41.0N	26.5E			1		NV	100	N	Y						17
49	25	TURKEY	BOSPORUS/BLACK SEA	41.5N	28.0E			2		NV	100	N	Y						17
49	26	TURKEY	MARMARA SEA	40.5N	28.0E			1		NV	100	N	Y						17
49	27	TURKEY	DARDANELLES/AEGEAN SEA	40.0N	27.0E			1		NV	100	N	Y						17
49	28	TURKEY	MARMARA SEA/BOSPORUS	41.0N	29.5E			2		NV	100	N	Y						17
49	29	TURKEY	MARMARA SEA/BOSPORUS	40.5N	28.0E			1		NV	100	N	Y						17
49	30	TURKEY	MARMARA SEA	39.5N	28.5E			1		NV	100	N	Y						17
49	31	TURKEY	LAKE IZNIK/BLACK SEA	40.0N	30.5E			10		NV	100	N	Y						17
49	32	TURKEY	AFYON/KUTAHYA	39.0N	30.0E			5		NV	100	N	Y						17
49	33	TURKEY	AFYON/LAKE EGRIDIR	38.0N	30.5E			5		NV	100	N	Y						17
49	34	TURKEY	LAKE EGRIDIR	38.0N	31.0E			0		NV	100	N	Y						17
49	35	TURKEY	ANTALYA BAY	37.5N	31.5E			0		NV	100	N	Y						17
49	36	TURKEY	ANTALYA BAY	37.0N	32.5E			1		NV	100	N	Y						17
49	37	CYPRUS	FAMAGUSTA BAY	35.5N	33.5E			1		NV	100	N	Y						17
49	38	CYPRUS	TROODOS MOUNTAINS	35.0N	33.0E			1		NV	100	N	Y						17
49	39	CYPRUS	TROODOS MOUNTAINS	35.0N	34.0E			5		NV	100	N	Y						17
49	40	LEBANON	BEIRUT/HAIFA	33.5N	35.5E			1		NV	100	N	N						17
49	41	JORDAN	SYRIAN DESERT	32.0N	37.5E			3		NV	100	N	N						17
49	42	SAUDI ARABIA	AN NAFUD DESERT	30.0N	39.0E			2		NV	100	N	N						17
49	43	SAUDI ARABIA	JABAL AJA	28.0N	41.0E			35		NV	100	N	Y						17
49	44	SAUDI ARABIA	JABAL SALMA	27.0N	41.5E			30		NV	100	N	Y						17
49	45	SAUDI ARABIA	RED SEA	19.5N	39.5E			20	SW	HO	100	N	N						17
49	46	YEMEN	RED SEA	15.5N	41.0E			25	SW	HO	100	N	N						17
49	47	DEMOCRATIC YEMEN	HADRAMAWT	16.0N	49.5E			0		NV	100	N	Y						17
49	48	DEMOCRATIC YEMEN	GULF OF ADEN	15.0N	50.0E			0		NV	100	N	Y						17
49	49	SOMALIA	NORTHEASTERN TIP	11.5N	51.0E			15		NV	100	N	N						17
49	50	OMAN	ARABIAN SEA	18.0N	58.0E			10	NE	HO	100	N	N						17
49	51	OMAN	ARABIAN SEA	18.0N	58.0E			10	NE	HO	100	N	N						17
49	52	ENGLAND	ENGLISH CHANNEL	50.5N	4.0W			90	N	HO	100	N	N						18
49	53	FRANCE	BAY OF BISCAY/BORDEAUX	45.5N	1.0W			90	SE	LO	100	N	N						18
49	54	SPAIN	STRAIT OF GIBRALTAR	36.5N	1.0W			70	SW	HO	100	N	N						18
49	55	SPAIN	MALLORCA	41.0N	0.5E			80	NW	HO	100	N	N						18
49	56	AFRICA	SAHARA DESERT					50		HO	100	N	N						18
49	57	AFRICA	SAHARA DESERT					0		LO	100	N	N						18
49	58	NIGER	PLATEAU DU DJADO	22.5N	13.0E			30	SW	HO	100	N	N						18

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
49	59	AFRICA	SAHARA DESERT					40		LO	100	N	N						18
49	60	SUDAN	NILE RIVER	13.0N	32.0E			85	NE	LO	100	N	N						18
49	61	AFRICA	CLOUDS					90			100	N	N						18
49	62	AFRICA	CLOUDS					90			100	N	N						18
49	63	MADAGASCAR	CAP SAINT-ANDRE	16.0S	44.5E			50		NV	100	N	N						18
49	64		CLOUDS								100	N	N						
49	65	CANADA-M	SPLIT LAKE	56.0N	96.0W			40	N	LO	100	N	Y						19
49	66	CANADA-M	STEPHENS LAKE	56.5N	94.5W			40	N	LO	100	N	Y						19
49	67	CANADA-M	NELSON RIVER	57.0N	93.0W			30	N	LO	100	N	Y						19
49	68	CANADA-M	CHURCHILL RIVER	58.0N	94.5W			50	N	LO	100	N	Y						19
49	69	CANADA-O	HUDSON BAY	56.5N	88.0W			35	N	LO	100	N	N						19
49	70	CANADA-O	HUDSON STRAIT	61.0N	72.0W			50	N	LO	100	N	N						19
49	71	CANADA-NT	BAFFIN ISLAND	64.0N	65.0W			75	N	HO	100	N	N						19
49	72	CANADA-N	NORTHERN COASTLINE	58.0N	63.0W			60	NE	LO	100	N	N						19
49	73		CLOUDS							HO	100	N	N						19
49	74		CLOUDS							HO	100	N	N						19
49	75	PORTUGAL	CAPE SAINT VINCENT	38.0N	9.5W			30	NE	LO	100	N	N						19
49	76	PORTUGAL	CAPE SAINT VINCENT	37.5N	9.0W			20	NE	LO	100	N	N						19
49	77	MOROCCO	STRAIT OF GIBRALTAR	35.5N	6.5W			10	NE	LO	100	N	N						19
49	78	MOROCCO	ATLAS MOUNTAINS	32.5N	6.5W			0		NV	100	N	N						19
49	79	MOROCCO	ATLAS MOUNTAINS	31.0N	8.5W			0		NV	100	N	Y						19
49	80	MOROCCO	ATLAS MOUNTAINS	31.0N	9.0W			0		NV	100	N	Y						19
49	81	MOROCCO	ATLAS MOUNTAINS	31.5N	7.0W			0		NV	100	N	N						19
49	82	MOROCCO	ATLAS MOUNTAINS	28.5N	8.5W			0		NV	100	N	N						19
49	83		CARGO BAY								100	N	N						
49	84	CANADA-A	ROCKY MOUNTAINS	52.0N	116.5W			60	SW	HO	100	N	N						20
49	85	CANADA-M	LAKE WINNIPEG	55.0N	98.0W			50	SW	HO	100	N	N						20
49	86	CANADA-Q	LAC MISTASSINI	51.0N	72.0W			70	SE	LO	100	N	N						20
49	87	CANADA-Q	ST LAWRENCE RIVER	49.5N	67.5W			70	S	LO	100	N	N						20
49	88	CAPE VERDE ISLANDS	FOGO/SANTIAGO/MAIO	15.5N	24.5W			30	W	LO	100	N	N						20
49	89	CAPE VERDE ISLANDS	SAO NICOLAU/SANTO ANTAO	16.5N	24.5W			40	W	LO	100	N	N						20
49	90	CAPE VERDE ISLANDS	FOGO/SANTIAGO/MAIO	15.0N	24.5W			30	W	LO	100	N	N						20
49	91	SENEGAL	DAKAR	14.0N	16.5W			60	NE	LO	100	N	N						20
49	92	GUINEA BISSAU	ARQUIPELAGO DOS BIJAGOS	11.5N	16.0W			70	NE	LO	100	N	N						20
49	93		SUN GLINT								100	N	N						
49	94	CANADA-A	ATHABASCA RIVER	57.0N	111.5W			40		NV	100	N	N						21
49	95	CANADA-S	PETER POND LAKE	56.0N	108.5W			40		NV	100	N	N						21
49	96		CLOUDS							LO	100	N	N						
49	97		CLOUDS							HO	100	N	N						
49	98		CLOUDS							LO	100	N	N						
49	99	USA-ALASKA	BRISTOL BAY	59.0N	160.5W			90	N	HO	100	N	N						22
49	100	USA-ALASKA	ALASKA PENINSULA	56.0N	159.5W			90		NV	100	N	N						22
49	101	CANADA-YT	ST ELIAS MOUNTAINS	61.5N	140.5W			70	NE	LO	100	N	N						22
49	102	CANADA-YT	ST ELIAS MOUNTAINS	61.5N	140.5W			70	NE	LO	100	N	N						22
49	103	CANADA-YT	ST ELIAS MOUNTAINS	61.0N	139.0W			70	NE	LO	100	N	N						22
49	104	USA-ALASKA	ST ELIAS MOUNTAINS	59.0N	138.0W			95	NE	LO	100	N	N						22
49	105	USA-MICHIGAN	GREAT LAKES	44.0N	83.0W			65	NE	HO	100	N	N						22
49	106	BAHAMAS	ANDROS ISLANDS	25.0N	78.5W			70	S	HO	100	N	N						22
49	107	BAHAMAS	ACKLINS ISLAND	22.5N	74.0W			70	S	LO	100	N	N						22
49	108	TURKS AND CAICOS IS	CAICOS ISLANDS	21.5N	71.5W			70	SE	LO	100	N	N						22

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	B	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
49	109		CLOUDS							HO	100	N	N						
49	110	USA-ALASKA	ALASKA PENINSULA	55.5N	159.5W			85	SE	LO	100	N	N						
49	111		CLOUDS							HO	100	N	N						23
49	112		CLOUDS							LO	100	N	N						23
49	113	USA-UTAH	GREAT SALT LAKE	41.5N	113.0W			40		NV	100	N	Y						23
49	114	USA-UTAH	GREAT SALT LAKE	41.5N	112.5W			50		NV	100	N	Y						23
49	115	USA-UTAH	GREAT SALT LAKE	41.0N	112.5W			50		NV	100	N	Y						23
49	116	USA-UTAH	GREAT SALT LAKE	41.0N	112.0W			50		NV	100	N	Y						23
49	117	USA-UTAH	UTAH LAKE/SALT LAKE CTY	40.5N	112.0W			60		NV	100	N	Y						23
49	118	USA-NEW MEXICO	SAN JUAN RIVER	36.5N	109.0W			65		NV	100	N	N						23
49	119	USA-NEW MEXICO	RIO GRANDE	37.0N	106.0W			95		NV	100	N	N						23
49	120	USA-NEW MEXICO	ALBUQUERQUE/RIO GRANDE	35.5N	106.5W			65		NV	100	N	N						23
50	1		CARGO BAY								50	N	N						
50	2	CANADA-Q	JAMES BAY	51.0N	78.0W			85	SE	HO	50	N	N						4
50	3	CANADA-Q	ILE D'ANTICOSTI	48.5N	63.0W			85	S	HO	50	N	N						4
50	4	CANARY ISLANDS	ISLA DE LA PALMA	28.5N	18.0W			80		NV	250	N	Y						4
50	5	CANARY ISLANDS	ISLA DE LA PALMA	28.5N	18.0W			80		NV	250	N	Y						4
50	6	CANARY ISLANDS	ISLA DE LA PALMA	28.5N	17.5W			85		NV	250	N	Y						4
50	7	CANARY ISLANDS	TENERIFE	28.5N	16.5W			50		NV	250	N	Y						4
50	8	CANARY ISLANDS	TENERIFE	28.0N	16.5W			40		NV	250	N	Y						4
50	9	CANADA-A	ZAMA LAKE	58.5N	119.0W			25	N	LO	250	N	N						5
50	10	CANADA-A	LAKE CLAIRE	58.5N	112.0W			15	N	LO	250	N	N						5
50	11	CANADA-A	ATHABASCA RIVER	57.0N	111.5W			5		NV	250	N	N						5
50	12	CANADA-H	SOUTHERN INDIAN LAKE	57.0N	99.0W			20		NV	250	N	N						5
50	13	CANADA-O	WINISK RIVER	55.5N	85.0W			20		NV	250	N	Y						5
50	14	CANADA-O	WINISK RIVER	55.5N	85.0W			25		NV	250	N	Y						5
50	15	CANADA-O	MOOSE RIVER	51.5N	80.5W			10	S	LO	250	N	N						5
50	16		ERBS ATTACHED TO ARM								50	N	N						
50	17		ERBS ATTACHED TO ARM								50	N	N						
50	18		ERBS ATTACHED TO ARM								50	N	N						
50	19		ERBS ATTACHED TO ARM								50	N	N						
50	20		ERBS ATTACHED TO ARM								50	N	N						
50	21		ERBS ATTACHED TO ARM								50	N	N						
50	22		ERBS ATTACHED TO ARM								50	N	N						
50	23		ERBS ATTACHED TO ARM								50	N	N						
50	24		ERBS ATTACHED TO ARM								50	N	N						
50	25		CLOUDS							HO	50	N	N						
50	26		CLOUDS							HO	50	N	N						
50	27		CLOUDS							HO	50	N	N						
50	28		ERBS ATTACHED TO ARM								50	N	N						
50	29		ERBS ATTACHED TO ARM								50	N	N						
50	30		ERBS ATTACHED TO ARM								50	N	N						
50	31		ERBS ATTACHED TO ARM								50	N	N						
50	32		ERBS ATTACHED TO ARM								50	N	N						
50	33		ERBS RELEASED								50	N	N						
50	34		ERBS RELEASED								50	N	N						6
50	35		ERBS RELEASED								50	N	N						6
50	36		ERBS RELEASED								50	N	N						6
50	37		ERBS RELEASED								50	N	N						6
50	38		ERBS RELEASED								50	N	N						6

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
											50	N	N						6
50	39		ERBS RELEASED								50	N	N						6
50	40		ERBS RELEASED																128
50	41	OMAN	JABAL SAMHAN	16.5N	54.5E			1		NV	100	N	N						128
50	42	SOCOTRA	ARABIAN SEA	13.5N	54.0E			20	SE	LO	100	N	N						128
50	43	INDIAN OCEAN	SUN GLINT					5			100	N	N						128
50	44	INDIAN OCEAN	SUN GLINT					10			100	N	N						128
50	45	INDIAN OCEAN	SUN GLINT					10			100	N	N						128
50	46	INDIAN OCEAN	SUN GLINT					10			100	N	N						128
50	47	INDIAN OCEAN	SUN GLINT					35			100	N	N						128
50	48	INDIAN OCEAN	SUN GLINT					45			100	N	N						128
50	49	INDIAN OCEAN	SUN GLINT					45			100	N	N						128
50	50	INDIAN OCEAN	SUN GLINT					45			100	N	N						128
50	51	INDIAN OCEAN	SUN GLINT					35			100	N	N						128
50	52	INDIAN OCEAN	SUN GLINT					25			100	N	N						128
50	53	INDIAN OCEAN	SUN GLINT					25			100	N	N						128
50	54	CHAGOS ARCHIPELAGO	INDIAN OCEAN	5.0S	72.0E			60	NE	LO	100	N	N						
50	55		CLOUDS							HO	100	N	N						129
50	56	ITALY	ALPS	46.5N	13.0E			50	SE	HO	100	N	N						129
50	57	ITALY	ALPS	46.5N	11.0E			50	SE	HO	100	N	N						129
50	58	SWITZERLAND	ALPS	46.5N	10.0E			50	SE	HO	100	N	N						129
50	59	ITALY	ALPS	46.5N	10.5E			50	SE	HO	100	N	N						129
50	60	ITALY	LIGURIAN SEA	45.0N	9.0E			50	NW	HO	100	N	N						129
50	61	YUGOSLAVIA	ADRIATIC SEA	44.0N	18.0E			80	NE	HO	100	N	N						129
50	62	ITALY	IONIAN SEA	38.5N	17.0E			40		NV	100	N	N						129
50	63	GREECE	PELOPONNESUS	38.0N	24.5E			40	NE	HO	100	N	N						129
50	64	EGYPT	NILE RIVER/RED SEA	26.5N	31.5E			20	E	HO	100	N	N						129
50	65	EGYPT	NILE RIVER/RED SEA	25.0N	32.5E			20	E	HO	100	N	N						129
50	66	EGYPT	LAKE NASSER	23.5N	35.0E			20	NE	HO	100	N	N						129
50	67	SUDAN	RED SEA	21.0N	37.0E			10	E	HO	100	N	N						129
50	68	SUDAN	NILE RIVER	22.0N	31.5E			2	NW	HO	100	N	N						129
50	69	SUDAN	NILE RIVER	20.5N	31.5E			2	N	HO	100	N	N						129
50	70	SUDAN	NILE RIVER	19.5N	33.0E			2	N	HO	100	N	N						129
50	71	SUDAN	NILE RIVER	18.0N	33.0E			0	NE	LO	100	N	N						129
50	72	SUDAN	NILE RIVER	17.0N	34.0E			1	NE	LO	100	N	N						129
50	73	SUDAN	NEW HALFA IRRIGATION	15.5N	35.5E			5	NE	LO	100	N	N						129
50	74	SUDAN	RED SEA	17.0N	36.0E			2	NE	LO	100	N	N						129
50	75	ETHIOPIA	LAKE T'ANA	12.0N	37.5E			20		NV	100	N	N						129
50	76	ETHIOPIA	RED SEA	14.5N	39.5E			5	NE	HO	100	N	N						129
50	77	ETHIOPIA	AFAR DEPRESSION	13.5N	40.0E			5	NE	HO	100	N	N						129
50	78	ETHIOPIA	ADDIS ABABA	10.0N	40.0E			30	NE	LO	100	N	N						129
50	79	DJIBOUTI	AFAR DEPRESSION	11.5N	42.5E			40	NE	HO	100	N	N						129
50	80	SOMALIA	COASTLINE	6.0N	48.0E			80	NE	HO	100	N	N						130
50	81	GREENLAND	CLOUDS	60.0N	45.0W			90	NE	HO	100	N	N						130
50	82	ATLANTIC OCEAN	CLOUDS					100		HO	100	N	N						130
50	83		CARGO BAY								100	N	N						130
50	84	SPAIN						95		HO	100	N	N						130
50	85	SPAIN						80		HO	100	N	N						130
50	86	SPAIN						50		HO	100	N	N						130
50	87	SPAIN						40		HO	100	N	N						130
50	88	SPAIN	MEDITERRANEAN COASTLINE	37.0N	1.5W			30	NE	LO	100	N	N						130

TABLE A-3.- LIST OF STS 41-G HASSELBLAD PHOTOGRAPHY (Concluded)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
50	89	SPAIN	MEDITERRANEAN COASTLINE	39.5N	0.5E			30	NE	HO	100	N	N						130
50	90	ALGERIA	COASTLINE	36.0N	2.0E			40	NE	HO	100	N	N						130
50	91	ALGERIA	GRAND ERG ORIENTAL	30.0N	9.0E			20	NE	HO	100	N	N						130
50	92	NIGER	AIR PLATEAU	19.0N	9.5E			0		NV	100	N	N						130
50	93	AFRICA						95			100	N	N						130
50	94	AFRICA						90			100	N	N						130
50	95	AFRICA						80			100	N	N						130
50	96	AFRICA						90			100	N	N						130
50	97	AFRICA						90			100	N	N						130
50	98	AFRICA						90			100	N	N						130
50	99	AFRICA						90			100	N	N						130
50	100	AFRICA						80			100	N	N						130
50	101	AFRICA						40		HO	100	N	N						130
50	102	MOZAMBIQUE	CABORA BASSA RESERVOIR	15.5S	31.0E			50	SE	LO	100	N	N						130
50	103	MOZAMBIQUE	CABORA BASSA RESERVOIR	15.5S	32.0E			60	SE	HO	100	N	N						130
50	104	CANADA-N	LABRADOR	55.5N	61.5W			20		NV	100	N	N						131
50	105	CANADA-N	LABRADOR	54.5N	62.5W			30		NV	100	N	N						131
50	106	CANADA-N	LABRADOR	55.0N	60.5W			25	NE	LO	100	N	N						131
50	107	CANADA-N	LABRADOR	57.0N	64.0W			50	NW	HO	100	N	N						131
50	108	CANADA-N	LAKE MELVILLE	54.5N	60.0W			60	NW	LO	100	N	N						131
50	109	CANADA-N	LAKE MELVILLE	54.0N	59.5W			70	NW	LO	100	N	N						131
50	110	NAMIBIA	NAMIB DESERT	24.5S	15.0E			70	NW	HO	100	N	N						131
50	111	NAMIBIA	NAMIB DESERT	25.0S	17.0E			70	NW	HO	100	N	N						131
50	112	NAMIBIA	COASTLINE	27.5S	16.5E			70	NW	HO	100	N	N						131
50	113	REPUBLIC SOUTH AFRICA	CAPE COLUMBINE	31.5S	18.0E			70	NW	HO	100	N	N						131
50	114	REPUBLIC SOUTH AFRICA	SOUTHWESTERN TIP	32.5S	18.5E			70	NW	HO	100	N	N						131
50	115	REPUBLIC SOUTH AFRICA	SOUTHERN COASTLINE	34.0S	22.0E			80	NW	HO	100	N	N						131
50	116		CLOUDS							HO	100	N	N						
50	117		CLOUDS							HO	100	N	N						
50	118		CLOUDS							HO	100	N	N						
50	119		CLOUDS							HO	100	N	N						
50	120		CLOUDS							HO	100	N	N						

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
120	1		-TEST-JOHNSON SPACE CTR																
120	2	USA-MAINE	LAKE CHAMPLAIN	43.0N	70.0W			70	E	HO	90	N	N						6
120	3	USA-MASSACHUSETTS	CAPE COD/BOSTON	41.5N	70.0W			70	E	HO	90	N	N						6
120	4	IRELAND	ENGLAND	53.0N	8.0W			80	SW	HO	90	N	N						15
120	5	USSR	ARAL SEA	45.5N	60.0E			80	SE	HO	90	N	N						15
120	6	USSR	ARAL SEA	44.5N	58.0E			70	S	HO	90	N	N						15
120	7	CHINA	TAKLIMAKAN DESERT	38.0N	76.5E			30		NV	90	N	N						15
120	8	CHINA	TIBET/HIMALAYAS	31.0N	80.0E			10	S	HO	90	N	N						15
120	9	INDIA	HIMALAYAS	32.0N	76.5E			20	SW	HO	90	N	N						15
120	10	CHINA	TIBET	34.5N	81.5E			1		NV	90	N	Y						15
120	11	CHINA	TIBET	34.0N	82.0E			1		NV	90	N	Y						15
120	12	CHINA	TIBET	33.0N	83.0E			1		NV	90	N	Y						15
120	13	CHINA	TIBET	33.0N	83.0E			0		NV	90	N	Y						15
120	14	CHINA	TIBET	32.0N	82.5E			0		NV	90	N	Y						15
120	15	NEPAL	TIBET/HIMALAYAS	30.0N	81.5E			20	SW	LO	90	N	N						15
120	16	CHINA	TIBET/HIMALAYAS	31.0N	85.0E			1		NV	90	N	Y						15
120	17	CHINA	TIBET/HIMALAYAS	29.5N	84.5E			1		NV	90	N	Y						15
120	18	CHINA	TIBET/HIMALAYAS	29.5N	86.0E			1		NV	90	N	Y						15
120	19	CHINA	TIBET/HIMALAYAS	29.0N	86.5E			2		NV	90	N	Y						15
120	20	CHINA	TIBET/HIMALAYAS	28.5N	87.0E			5		NV	90	N	Y						15
120	21	INDIA	GANGES RIVER/HIMALAYAS	26.5N	86.5E			20		NV	90	N	Y						15
120	22	CHINA	TIBET/HIMALAYAS	32.0N	82.0E			10	NW	HO	90	N	N						15
120	23	CHINA	TIBET/HIMALAYAS	32.0N	82.0E			10	NW	HO	90	N	N						15
120	24	BANGLADESH	GANGES RIVER	25.0N	89.5E			80		NV	90	N	N						15
120	25	BANGLADESH	GANGES RIVER	23.5N	90.5E			90		NV	90	N	N						15
120	26	INDIA	MOUTHS OF THE GANGES	22.5N	88.5E			90	W	LO	90	N	N						15
120	27	BURMA	MOUTHS OF THE IRRAWADDY	16.0N	95.0E			80	SE	LO	90	N	N						15
120	28	BURMA	MOUTHS OF THE IRRAWADDY	16.0N	95.0E			80	SE	LO	90	N	N						15
120	29	BURMA	RANGOON	17.0N	96.5E			80	E	LO	90	N	N						15
120	30	BURMA	MOUTHS OF THE IRRAWADDY	16.5N	94.5E			80		NV	90	N	N						15
120	31	MALAYSIA	KUALA LUMPUR	3.5N	101.5E			80		NV	90	N	Y						15
120	32	MALAYSIA	KUALA LUMPUR	3.5N	101.5E			80		NV	90	N	Y						15
120	33	INDONESIA	SUMATRA	1.5N	98.5E			80	W	LO	90	N	N						15
120	34	INDONESIA	SUMATRA/BANGKA	3.0S	106.0E			80		NV	90	N	N						15
120	35	INDONESIA	SUMATRA	3.5S	102.0E			80	W	LO	90	N	N						15
120	36	AUSTRALIA-WA	NORTHWEST COASTLINE	20.0S	116.5E			10		NV	90	N	N						15
120	37	AUSTRALIA-WA	NORTHWEST CAPE	23.0S	114.0E			50	SW	LO	90	N	N						15
120	38	AUSTRALIA-WA	NORTHWEST CAPE	21.5S	114.0E			40	W	LO	90	N	N						15
120	39	AUSTRALIA-WA	NORTHWEST CAPE	23.0S	116.0E			50	NW	LO	90	N	N						15
120	40	PAKISTAN	KARACHI/INDUS RIVER	25.5N	66.0E			1	SE	LO	90	N	N						16
120	41	PAKISTAN	INDUS RIVER	29.5N	70.5E			10	NE	HO	90	N	N						16
120	42	OMAN	GULF OF OMAN	22.5N	57.5E			5	W	HO	90	N	N						16
120	43	PAKISTAN	INDUS RIVER	30.0N	69.0E			5	N	HO	90	N	N						16
120	44	PAKISTAN	INDUS RIVER	30.0N	67.0E			5	N	HO	90	N	N						16
120	45	UNITED ARAB EMIRATES	ARABIAN SEA	24.0N	55.0E			25	NW	HO	90	N	N						16
120	46		CLOUDS OVER OCEAN							HO	90	N	N						
120	47		CLOUDS OVER OCEAN							HO	90	N	N						
120	48	ENGLAND	STRAIT OF DOVER	53.0N	1.0E			80	SW	LO	90	N	N						17
120	49	ENGLAND	CLOUDS	52.0N	5.0W			90	W	HO	90	N	N						17
120	50	GREECE	IONIAN SEA	40.5N	21.0E			35	SW	LO	90	N	N						17

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
120	51	GREECE	EASTERN MEDITERRANEAN	37.0N	25.5E			5	SW	LO	90	N	N						17
120	52	GREECE	AEGEAN SEA	41.0N	22.0E			25	NW	HO	90	N	N						17
120	53	TURKEY	GULF OF ANTALYA	37.0N	31.0E			2		NV	90	N	N						17
120	54	CYPRUS	TURKEY/SYRIA/LEBANON	35.5N	33.0E			2		NV	90	N	N						17
120	55	EGYPT	NILE DELTA	32.0N	31.0E			5	SW	LO	90	N	N						17
120	56	ISRAEL	LEBANON/SYRIA/JORDAN	32.5N	35.5E			1		NV	90	N	N						17
120	57	TURKEY	CYPRUS/GULF OF ANTALYA	40.0N	28.0E			10	NW	HO	90	N	N						17
120	58	EGYPT	SINAI PENINSULA	28.5N	33.0E			15	SW	LO	90	N	N						17
120	59	IRAQ	TIGRIS&EUPHARATES RIVERS	34.0N	44.0E			40	NE	HO	90	N	N						17
120	60	IRAN	PERSIAN GULF	27.0N	53.0E			15	E	HO	90	N	N						17
120	61	TURKEY	EASTERN MEDITERRANEAN	37.0N	29.0E			1	NW	HO	90	N	N						17
120	62	TURKEY	EASTERN MEDITERRANEAN	38.0N	28.0E			20	NW	HO	90	N	N						17
120	63	IRAN	PERSIAN GULF	28.0N	56.0E			5	E	HO	90	N	N						17
120	64	IRAN	PERSIAN GULF	27.0N	57.0E			5	E	HO	90	N	N						17
120	65	DEMOCRATIC YEMEN	COASTLINE/SOCOTRA	16.5N	53.0E			5	SE	HO	90	N	N						17
120	66	ETHIOPIA	AFAR DEPRESSION	10.0N	40.0E			40	SW	HO	90	N	N						17
120	67	ETHIOPIA	GULF OF ADEN	10.0N	43.0E			50	SW	HO	90	N	N						17
120	68	SOMALIA	COASTLINE	2.0N	46.0E			80	SW	HO	90	N	N						17
120	69	SOMALIA	INDIAN OCEAN SUNGLINT	4.0N	47.0E			80	W	HO	90	N	N						17
120	70	SPAIN	STRAIT OF GIBRALTAR	37.0N	2.0W			70	SW	HO	90	N	N						18
120	71	GREECE	CRETE/PELOPONNESUS	39.0N	22.0E			50	NE	HO	90	N	N						18
120	72	GREECE	CRETE/NORTH LIBYA	37.0N	25.0E			20	NE	HO	90	N	N						18
120	73	SUDAN	NILE RIVER	18.0N	30.0E			40	NE	HO	90	N	N						18
120	74	MADAGASCAR	MOZAMBIQUE CHANNEL	16.0S	44.0E			60	SE	HO	90	N	N						18
120	75	MOZAMBIQUE	MOZAMBIQUE CH SUNGLINT	17.0S	40.0E			50	W	HO	90	N	N						18
120	76	MADAGASCAR	MOZAMBIQUE CH SUNGLINT	20.0S	41.0E			60	W	HO	90	N	N						18
120	77	MADAGASCAR	MOZAMBIQUE CH SUNGLINT	24.0S	42.0E			60	W	HO	90	N	N						18
120	78	MADAGASCAR	MOZAMBIQUE CH SUNGLINT	25.0S	42.0E			60	W	HO	90	N	N						18
120	79	MADAGASCAR	MOZAMBIQUE CH SUNGLINT	26.0S	42.0E			60	W	HO	90	N	N						18
120	80	MOROCCO	STRAIT OF GIBRALTAR	33.0N	9.0W			80	SE	HO	90	N	N						19
120	81	AZORES	SUN GLINT/SANTA MARIA	38.0N	23.0W			70	SW	LO	90	N	N						19
120	82	SPAIN	STRAIT OF GIBRALTAR	37.5N	0.0			20	NE	HO	90	N	N						19
120	83	MOROCCO	ATLAS MOUNTAINS	30.5N	9.5W			5		NV	90	N	Y						19
120	84	MOROCCO	ATLAS MOUNTAINS	30.0N	9.0W			1		NV	90	N	Y						19
120	85	SPAIN	STRAIT OF GIBRALTAR	36.5N	6.0W			25	N	HO	90	N	N						19
120	86	MOROCCO	STRAIT OF GIBRALTAR	34.5N	3.5W			20	N	HO	90	N	N						19
120	87	ANGOLA	NAMIBIA BORDER	16.0S	17.0E			70	SW	LO	90	N	N						19
120	88	AFRICA						50	SE	HO	90	N	N						19
120	89	CANADA-NS	BAY OF FUNDY	43.0N	65.0W			70	S	HO	90	N	N						20
120	90	CANADA-Q	ST LAWRENCE RIVER	47.0N	74.0W			70	SW	HO	90	N	N						20
120	91	USA-MASSACHUSETTS	COASTLINE	42.0N	71.0W			80	SW	HO	90	N	N						20
120	92		CLOUDS							HO	90	N	N						
120	93		CLOUDS							HO	90	N	N						
120	94		CLOUDS							HO	90	N	N						
120	95	CUBA	WESTERN HALF/BAHAMAS	22.5N	77.5W			80	SW	HO	90	N	N						22
120	96	CUBA	EASTERN HALF/BAHAMAS	21.0N	75.5W			80	S	HO	90	N	N						22
120	97	BAHAMAS	ANDROS ISLAND/CUBA	24.0N	77.0W			80	SW	HO	90	N	N						22
120	98	CUBA	WESTERN HALF/BAHAMAS	21.5N	78.5W			70	SW	HO	90	N	N						22
120	99	CUBA	EASTERN HALF/BAHAMAS	20.5N	75.0W			70	SW	HO	90	N	N						22
120	100	BAHAMAS	CROOKED ISLAND/CUBA	22.0N	74.0W			80	SW	LO	90	N	Y						22

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
120	101	BAHAMAS	MAYAGUANA/ACKLINS	22.0N	73.0W			60	SW	LO	90	N	Y						22
120	102	BAHAMAS	GREAT INAGUA/CAICOS IS	20.5N	73.0W			70	S	HO	90	N	N						22
120	103	HAITI	CAICOS ISLANDS	19.0N	72.5W			70	S	HO	90	N	N						22
120	104	HAITI	SUN GLINT	18.0N	73.5W			70	SW	HO	90	N	N						22
120	105	DOMINICAN REPUBLIC	SUN GLINT	18.0N	71.0W			70	SW	LO	90	N	N						22
120	106	HAITI	SUN GLINT	17.5N	72.5W			70	SW	HO	90	N	N						22
120	107	VENEZUELA	COASTLINE	11.0N	69.0W			70	SW	HO	90	N	N						22
120	108	VENEZUELA	COASTLINE	10.5N	70.0W			70	SW	HO	90	N	N						22
120	109	VENEZUELA	COASTLINE	10.5N	67.0W			60	S	HO	90	N	N						22
120	110	VENEZUELA	COASTLINE	10.0N	66.5W			60	S	HO	90	N	N						22
120	111	VENEZUELA	ORINOCO RIVER	7.0N	65.0W			80	S	HO	90	N	N						22
120	112	SOUTH AMERICA	CLOUDS					90	S	HO	90	N	N						22
120	113	USA-TEXAS	LAGUNA MADRE	26.0N	96.0W			60		NV	90	N	N						23
120	114	MEXICO	SUN GLINT/COASTLINE	20.5N	97.5W			70	SW	HO	90	N	N						23
120	115	MEXICO	SUN GLINT/COASTLINE	19.0N	97.0W			70	SW	HO	90	N	N						23
120	116	MEXICO	SUN GLINT/COASTLINE	18.0N	97.5W			70	SW	HO	90	N	N						23
120	117	MEXICO	BAY OF CAMPECHE	17.0N	97.0W			70	SW	HO	90	N	N						23
120	118	MEXICO	GULF OF MEXICO	25.0N	96.0W			70	NW	HO	90	N	N						23
120	119	MEXICO	BAY OF CAMPECHE	18.0N	92.5W			60		NV	90	N	N						23
120	120	MEXICO	BAY OF CAMPECHE	17.0N	91.5W			80	NW	LO	90	N	N						23
120	121	PERU	COASTLINE/ANDES MTNS	12.5S	74.5W			80	S	HO	90	N	N						23
120	122	PERU	COASTLINE/ANDES MTNS	13.5S	73.5W			80	S	HO	90	N	N						23
120	123	PERU	COASTLINE/ANDES MTNS	12.0S	75.5W			70	SW	LO	90	N	Y						23
120	124	PERU	COASTLINE/ANDES MTNS	13.0S	74.0W			70	SW	LO	90	N	Y						23
120	125	PERU	COASTLINE/ANDES MTNS	16.5S	73.0W			70	S	HO	90	N	N						23
120	126	SOUTH AMERICA	CLOUDS					80		HO	90	N	N						23
120	127	ARGENTINA	COASTLINE	36.5S	56.0W			30	SE	HO	90	U	N						23
120	128	ARGENTINA	COASTLINE	38.0S	56.5W			30	SE	HO	90	U	N						23
120	129	ARGENTINA	COASTLINE	39.0S	58.5W			60	SW	HO	90	U	N						23
120	130	ARGENTINA	COASTLINE	40.0S	60.0W			70	SW	HO	90	U	N						23
120	131	ARGENTINA	COASTLINE	34.5S	58.0W			30	NW	HO	90	U	N						23
120	132	ARGENTINA	COASTLINE	36.0S	57.5W			40	NW	HO	90	U	N						23
120	133	ARGENTINA	COASTLINE	34.0S	59.0W			40	NW	HO	90	U	N						23
120	134		UNEXPOSED																
120	135	USSR	SAKHALIN	52.5N	142.0E			50		NV	90	N	N						24
120	136	USSR	SAKHALIN	53.5N	142.5E			60		NV	90	N	N						24
120	137	USA-CALIFORNIA	COASTLINE	38.0N	120.0W			70	NE	HO	90	N	N						24
120	138	USA-CALIFORNIA	COASTLINE	35.0N	115.0W			80	NE	HO	90	N	N						24
120	139	USA-ARIZONA	CALIFORNIA COASTLINE	34.0N	114.0W			80	NE	HO	90	N	N						24
120	140	MEXICO	BAJA CALIFORNIA	27.0N	110.0W			70	SE	HO	90	N	N						24
120	141	USA-ARIZONA	BAJA CALIFORNIA	33.0N	113.0W			60	NE	HO	90	N	N						24
120	142	MEXICO	BAJA CALIFORNIA	30.0N	110.0W			50	NE	HO	90	N	N						24
120	143	MEXICO	BAJA CALIFORNIA	24.0N	109.0W			50	E	HO	90	N	N						24
120	144		UNEXPOSED																
120	145		CLOUDS							HO	90	N	N						24
120	146		UNEXPOSED																24
120	147		MOON							HO	90	N	N						24
120	148		MOON							HO	90	N	N						24
120	149		CLOUDS							HO	90	N	N						24
120	150		CLOUDS							HO	90	N	N						24

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	NADIR ORB
120	151		CLOUDS								90	N	N						
120	152		CLOUDS								90	N	N						24
120	153	USSR	SAKHALIN	48.0N	142.0E			70	SE	HO	90	O	N						24
120	154	USSR	SAKHALIN	48.0N	142.0E			40	SE	HO	90	O	N						25
120	155	USSR	SAKHALIN	47.0N	144.0E			40	SE	HO	90	O	N						25
120	156	USSR	SAKHALIN	47.0N	144.0E			50	SE	HO	90	O	N						25
120	157	TURKEY	BLACK SEA/TAURUS MTNS	40.5N	39.5E			20	SW	HO	90	N	N						25
120	158	IRAN	LAKE URMIA	35.0N	46.0E			30	SE	HO	90	N	N						32
120	159	IRAN	LAKE URMIA	35.5N	46.5E			40	SE	HO	90	N	N						32
120	160	USSR	BLACK SEA/CAUCASUS MTNS	43.0N	42.0E			60	NW	HO	90	N	N						32
120	161	TURKEY	LAKE URMIA	40.0N	43.0E			40	NW	HO	90	N	N						32
120	162	TURKEY	LAKE URMIA/ZAGROS MTNS	40.0N	43.0E			60	NW	HO	90	N	N						32
120	163	IRAN	QESHM/STRAIT OF HORMUZ	27.5N	55.5E			10		NV	90	N	N						32
120	164	IRAN	STRAIT OF HORMUZ	35.0N	50.0E			20	NW	HO	90	N	N						32
120	165	UNITED ARAB EMIRATES	STRAIT OF HORMUZ	26.0N	56.0E			5	NW	HO	90	N	N						32
120	166	ALBANIA	ADRIATIC SEA	41.0N	20.5E			90		NV	90	N	N						32
120	167	GREECE	RHODOPE MOUNTAINS	40.0N	22.5E			60		NV	90	N	N						33
120	168	GREECE	AEGEAN SEA	38.5N	23.5E			1		NV	90	N	Y						33
120	169	GREECE	AEGEAN SEA	38.0N	24.0E			1		NV	90	N	Y						33
120	170	BULGARIA	DARDANELLES	44.0N	27.5E			30	NE	HO	90	N	N						33
120	171	TURKEY	DARDANELLES	41.0N	28.0E			20	NE	HO	90	N	N						33
120	172	GREECE	SEA OF CRETE	37.0N	26.0E			30	NW	HO	90	N	N						33
120	173	GREECE	SEA OF CRETE	36.5N	26.5E			25	NW	HO	90	N	N						33
120	174	EGYPT	NILE DELTA	31.0N	31.0E			0		NV	90	N	Y						33
120	175	EGYPT	NILE DELTA	31.0N	31.5E			0		NV	90	N	Y						33
120	176	EGYPT	SUEZ CANAL	29.5N	32.0E			0		NV	90	N	N						33
120	177	EGYPT	NILE DELTA	31.5N	31.5E			10	N	HO	90	N	N						33
120	178	EGYPT	RED SEA	26.5N	34.5E			2		NV	90	N	N						33
120	179	EGYPT	NILE DELTA	29.5N	33.0E			1	NW	HO	90	N	N						33
120	180	EGYPT	SINAI PENINSULA	28.0N	34.0E			1	N	HO	90	N	N						33
120	181	EGYPT	SINAI PENINSULA	32.5N	32.5E			10	NW	HO	90	N	N						33
120	182	EGYPT	SINAI PENINSULA	31.0N	33.0E			15	NW	HO	90	N	N						33
120	183	SAUDI ARABIA	RED SEA	31.0N	36.0E			30	N	HO	90	N	N						33
120	184	ETHIOPIA	RED SEA	13.5N	38.5E			35	SW	HO	90	N	N						33
120	185	ETHIOPIA	AFAR DEPRESSION	12.0N	39.0E			30	SW	HO	90	N	N						33
120	186	DEMOCRATIC YEMEN	GULF OF ADEN	15.0N	53.0E			40	NE	HO	90	N	N						33
120	187	DEMOCRATIC YEMEN	GULF OF ADEN	13.5N	48.0E			60	NW	HO	90	N	N						33
120	188	SOMALIA	COASTLINE	10.5N	53.5E			60	N	HO	90	N	N						33
120	189	NORTH AMERICA	CLOUDS/VERY DARK					80		HO	90	U	N						
120	190	NORTH AMERICA	CLOUDS/VERY DARK					70		HO	90	U	N						
120	191	NORTH AMERICA	CLOUDS/VERY DARK					70		HO	90	U	N						
120	192	NORTH AMERICA	CLOUDS/VERY DARK					70		HO	90	U	N						
120	193	CANADA-M	LAKE WINNIPEG/VERY DARK	52.0N	99.5W			60	SW	HO	90	U	N						
121	1	MADAGASCAR	NORTHEAST COASTLINE	12.5S	50.5E			80	NW	HO	90	N	N						35
121	2	MADAGASCAR	NORTHEAST COASTLINE	11.0S	50.0E			85	NW	HO	90	N	N						129
121	3	SOMALIA	COASTLINE	2.0N	42.5E			70	NW	HO	90	N	N						129
121	4	SOMALIA	COASTLINE	7.0N	50.0E			70	NE	HO	90	N	N						129
121	5	DEMOCRATIC YEMEN	GULF OF ADEN	15.0N	51.0E			35	NE	HO	90	N	N						129
121	6	SOMALIA	GULF OF ADEN	12.0N	48.0E			15	NE	HO	90	N	N						129
121	7	EGYPT	NILE RIVER/RED SEA	22.0N	34.5E			10	NE	HO	90	N	N						129
																			129

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
121	8	EGYPT	NILE RIVER/GULF OF SUEZ	32.0N	31.0E			30	NE	HO	90	N	N						129
121	9	EGYPT	NILE RIVER/GULF OF SUEZ	31.0N	34.0E			30	NE	HO	90	N	N						129
121	10	SAUDI ARABIA	RED SEA	27.0N	37.0E			30	E	HO	90	N	N						129
121	11	SAUDI ARABIA	RED SEA	29.0N	36.0E			30	NE	HO	90	N	N						129
121	12	LIBYA	COASTLINE	33.0N	23.0E			30	NW	HO	90	N	N						129
121	13	EGYPT	NILE DELTA	31.0N	34.0E			50	E	HO	90	N	N						129
121	14	EGYPT	NILE DELTA	31.0N	34.0E			70	E	HO	90	N	N						129
121	15	GREECE	PELOPONNESUS PENINSULA	38.5N	22.5E			50	NE	HO	90	N	N						129
121	16	TURKEY	CRETE	36.0N	32.0E			50	E	HO	90	N	N						129
121	17	TURKEY	PELOPONNESUS PENINSULA	40.5N	26.0E			50	NE	HO	90	N	N						129
121	18	TURKEY	PELOPONNESUS PENINSULA	40.5N	26.0E			50	NE	HO	90	N	N						129
121	19	ITALY	SOUTHERN TIP/SICILY	39.0N	16.5E			80	NW	HO	90	N	N						129
121	20	ITALY	TYRRHENIAN SEA	45.0N	10.0E			80	NW	HO	90	N	N						129
121	21	ITALY	NAPLES/VESUVIUS	41.5N	16.0E			80	E	HO	90	N	N						129
121	22	ITALY	NAPLES/VESUVIUS	41.5N	15.0E			80	E	HO	90	N	N						129
121	23	ITALY	ROME	41.5N	14.0E			70	SE	HO	90	N	N						129
121	24	ITALY	ALPS	45.0N	11.0E			60	N	HO	90	N	N						129
121	25	ITALY	ALPS/TORINO	45.0N	7.0E			30		NV	90	N	N						129
121	26	SWITZERLAND	ALPS	47.5N	7.5E			60	NE	HO	90	N	N						129
121	27	AUSTRIA	ALPS	47.0N	10.0E			70	NE	HO	90	N	N						129
121	28	ITALY	ALPS	46.0N	8.0E			70	E	HO	90	N	N						129
121	29	SWITZERLAND	ALPS	46.5N	6.5E			70	SE	HO	90	N	N						129
121	30	FRANCE	ALPS	48.0N	7.0E			90	SE	HO	90	N	N						129
121	31	ENGLAND	ENGLISH CHANNEL	50.5N	0.0			90	NE	HO	90	N	N						129
121	32	ENGLAND	ENGLISH CHANNEL	50.5N	2.0W			90	NE	LO	90	N	N						
121	33		CLOUDS							HO	90	N	N						128
121	34	IRAN	PERSIAN GULF	30.0N	50.5E			20	SE	HO	90	N	N						128
121	35	IRAN	ZAGROS MOUNTAINS	36.0N	50.0E			25	NE	HO	90	N	N						128
121	36	IRAQ	TIGRIS & EUPHRATES RIVER	33.5N	45.0E			10	E	HO	90	N	N						
121	37		CLOUDS							HO	90	N	N						
121	38		CLOUDS							HO	90	N	N						
121	39	ARGENTINA	PUNTA RASA/RIO NEGRO	41.0S	61.5W			30	NW	LO	90	N	N						119
121	40	ARGENTINA	BAHIA BLANCA	39.0S	62.0W			25		NV	90	N	N						119
121	41	CHILE	ANDES MOUNTAINS	32.0S	71.0W			20	NW	HO	90	N	N						119
121	42	CHILE	ANDES MOUNTAINS	36.0S	70.5W			40	SW	HO	90	N	N						119
121	43	ARGENTINA	ANDES MOUNTAINS	36.5S	70.5W			40	SW	HO	90	N	N						119
121	44	CHILE	SANTIAGO/ANDES MOUNTAINS	33.5S	70.0W			2		LO	90	N	N						119
121	45	ARGENTINA	ANDES MOUNTAINS/SANTIAGO	33.0S	70.0W			2		NV	90	N	N						119
121	46	GALAPAGOS ISLANDS	ISABELA/SAN SALVADOR	3.0N	93.0W			80	NW	HO	90	N	N						119
121	47	GALAPAGOS ISLANDS	ISABELA/FERNANDINA	0.0	91.0W			65		NV	90	N	Y						119
121	48	GALAPAGOS ISLANDS	SAN SALVADOR/ISABELA	0.5N	91.5W			75		NV	90	N	Y						119
121	49	GALAPAGOS ISLANDS	FERNANDINA/ISABELA	1.0N	92.0W			85		NV	90	N	Y						119
121	50	MEXICO	PACIFIC OCEAN	17.0N	100.0W			70	NW	HO	90	N	N						119
121	51	USA-NEVADA	SOUTHERN CALIFORNIA	38.0N	118.0W			40	NW	HO	90	N	N						119
121	52	USA-CALIFORNIA	SOUTHERN CALIFORNIA	38.0N	119.0W			30	NW	HO	90	N	N						119
121	53	MEXICO	BAJA CALIFORNIA	30.5N	117.5W			50	SW	HO	90	N	N						119
121	54	USA-CALIFORNIA	LOS ANGELES	32.5N	119.0W			40	SW	HO	90	N	N						119
121	55	USA-CALIFORNIA	LOS ANGELES	33.0N	119.0W			40	SW	HO	90	N	N						119
121	56	MEXICO	IMPERIAL VALLEY	30.0N	117.5W			50	S	HO	90	N	N						119
121	57	MEXICO	IMPERIAL VALLEY	31.0N	118.0W			50	S	HO	90	N	N						119

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
121	58	USA-CALIFORNIA	LOS ANGELES	33.5N	120.5W			40	SW	HO	90	N	N						116
121	59	USA-CALIFORNIA	LOS ANGELES	33.5N	118.5W			40	SW	HO	90	N	N						116
121	60	MEXICO	SOUTHERN CALIFORNIA	29.0N	116.0W			50	S	HO	90	N	N						116
121	61	USA-CALIFORNIA	LOS ANGELES	33.0N	120.0W			50	SW	HO	90	N	N						116
121	62	USA-CALIFORNIA	SAN JOAQUIN VALLEY	34.0N	121.0W			50	SW	HO	90	N	N						116
121	63	USA-CALIFORNIA	SAN JOAQUIN VALLEY	36.0N	123.0W			50	SW	HO	90	N	N						116
121	64	USA-CALIFORNIA	SAN JOAQUIN VALLEY	35.0N	121.0W			45	SW	HO	90	N	N						116
121	65	USA-CALIFORNIA	SAN JOAQUIN VALLEY	36.0N	119.5W			25	S	HO	90	N	N						116
121	66	USA-CALIFORNIA	SIERRA NEVADA	31.0N	117.0W			35	SE	HO	90	N	N						116
121	67	USA-CALIFORNIA	COAST RANGE	36.0N	122.5W			70	SW	HO	90	N	N						116
121	68	USA-CALIFORNIA	SACRAMENTO VALLEY	38.5N	122.5W			70	SW	HO	90	N	N						116
121	69	USA-CALIFORNIA	SIERRA NEVADA	37.0N	119.5W			60	SE	HO	90	N	N						116
121	70	USA-CALIFORNIA	SIERRA NEVADA	38.0N	119.0W			60	SE	HO	90	N	N						116
121	71	USA-CALIFORNIA	SACRAMENTO VALLEY	36.0N	121.0W			70	S	HO	90	N	N						116
121	72	BRAZIL	RIO PARANA	24.5S	54.0W			30		NV	90	N	Y						116
121	73	BRAZIL	RIO PARANA	23.5S	54.0W			15		NV	90	N	Y						116
121	74	BRAZIL	RIO PARANA	23.5S	54.0W			10		NV	90	N	Y						116
121	75	CUBA	WESTERN END	22.0N	83.5W			70	SW	LO	90	N	N						116
121	76	USA-FLORIDA	FLORIDA KEYS	24.5N	82.0W			70	NE	LO	90	N	N						116
121	77	USA-FLORIDA	GULF OF MEXICO	26.0N	82.5W			70	NE	LO	90	N	N						116
121	78	MEXICO	YUCATAN PENINSULA	24.0N	88.0W			70	SW	HO	90	N	N						116
121	79	USA-GEORGIA	SOUTHERN GEORGIA	31.0N	80.5W			35	NE	HO	90	N	N						116
121	80	USA-FLORIDA	GULF OF MEXICO	29.0N	80.0W			70	SE	HO	90	N	N						116
121	81	USA-FLORIDA	GULF OF MEXICO	30.0N	80.0W			60	SE	HO	90	N	N						116
121	82	USA-FLORIDA	GULF OF MEXICO	30.0N	80.0W			50	SE	HO	90	N	N						116
121	83	USA-FLORIDA	GULF OF MEXICO	30.0N	83.5W			60	SE	HO	90	N	N						116
121	84	USA-LOUISIANA	MISSISSIPPI RIVER	30.0N	91.5W			85	SW	HO	90	N	N						116
121	85	USA-LOUISIANA	MISSISSIPPI RIVER	30.5N	92.0W			90	SW	HO	90	N	N						116
121	86	USA-TEXAS	GULF OF MEXICO	29.5N	94.0W			90	SW	HO	90	N	N						116
121	87	USA-LOUISIANA	MISSISSIPPI RIVER	30.5N	93.5W			90	SW	HO	90	N	N						116
121	88	USA-LOUISIANA	MISSISSIPPI RIVER	30.5N	92.0W			90	S	HO	90	N	N						116
121	89	USA-COLORADO	ARKANSAS RIVER	37.0N	103.0W			75	SW	HO	90	N	N						116
121	90	USA-COLORADO	ARKANSAS RIVER	37.0N	103.0W			70	SW	HO	90	N	N						116
121	91	USA-COLORADO	PLATTE RIVER/AGRICULTURE	40.0N	103.0W			70	SW	HO	90	N	N						116
121	92	USA-KANSAS	PLATTE RIVER/AGRICULTURE	39.0N	101.5W			60	SE	HO	90	N	N						116
121	93	USA-UTAH	GREAT SALT LAKE	40.0N	110.0W			90	SW	HO	90	N	N						116
121	94	USA-WYOMING	BLACK HILLS	43.0N	105.5W			70	SE	HO	90	N	N						116
121	95	BRAZIL	SALVADOR/ARACAJU	12.0S	37.0W			60	NE	LO	90	N	N						117
121	96	BRAZIL	BAIA DE MARAJO	0.0	47.0W			70	W	LO	90	N	N						117
121	97	BRAZIL	ILHA DE MARAJO	0.0	47.5W			70	SW	LO	90	N	N						117
121	98	ATLANTIC OCEAN	TROPICAL STORM JOSEPHINE					80		HO	90	N	N						117
121	99	ATLANTIC OCEAN	TROPICAL STORM JOSEPHINE					80		HO	90	N	N						117
121	100	ATLANTIC OCEAN	TROPICAL STORM JOSEPHINE					90		HO	90	N	N						117
121	101	ATLANTIC OCEAN	TROPICAL STORM JOSEPHINE					90		HO	90	N	N						117
121	102	ATLANTIC OCEAN	TROPICAL STORM JOSEPHINE					90		HO	90	N	N						117
121	103	ATLANTIC OCEAN	TROPICAL STORM JOSEPHINE					90		HO	90	N	N						117
121	104	ATLANTIC OCEAN	TROPICAL STORM JOSEPHINE					90		HO	90	N	N						117
121	105	USA-GEORGIA	ATLANTIC COASTLINE	32.0N	81.0W			90	SW	HO	90	N	N						117
121	106	USA-PENNSYLVANIA	ALLEGHENY MOUNTAINS	41.0N	79.0W			70	NW	HO	90	N	N						117
121	107	USA-PENNSYLVANIA	ALLEGHENY MOUNTAINS	41.0N	79.0W			70	NW	HO	90	N	N						117

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY (Continued)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
121	108	USA-WEST VIRGINIA	ALLEGHENY MOUNTAINS	39.0N	79.5W			60	SW	HO	90	N	N						117
121	109	CANADA-PEI	PRINCE EDWARD ISLAND	47.0N	64.0W			70	NW	HO	90	N	N						116
121	110	CANADA-NB	PRINCE EDWARD ISLAND	46.0N	64.5W			65	NW	HO	90	N	N						116
121	111	CANADA-NS	BAY OF FUNDY	44.5N	65.0W			55	W	HO	90	N	N						116
121	112	CANADA-Q	ST LAWRENCE RIVER	50.0N	64.0W			85	SW	HO	90	N	N						115
121	113	MOROCCO	STRAIT OF GIBRALTAR	34.5N	4.0W			20	NW	HO	90	N	N						114
121	114	MOROCCO	ATLAS MOUNTAINS	31.5N	5.5W			25	W	HO	90	N	N						114
121	115	SPAIN	STRAIT OF GIBRALTAR	36.5N	5.0W			30	NW	HO	90	N	N						114
121	116	SPAIN	STRAIT OF GIBRALTAR	36.5N	5.5W			30	NW	HO	90	N	N						114
121	117	SPAIN	SIERRA MORENA	38.0N	7.0W			25	NW	LO	90	N	N						114
121	118	PORTUGAL	NORTHERN COASTLINE	41.0N	8.0W			50	N	HO	90	N	N						114
121	119	PORTUGAL	LISBOA	38.0N	10.0W			60	SW	HO	90	N	N						114
121	120	SPAIN	NORTHWESTERN COASTLINE	43.0N	9.5W			70	N	HO	90	N	N						114
121	121	GREENLAND	CLOUDS	64.0N	38.0W			70	NE	HO	90	N	N						114
121	122	GREENLAND	CLOUDS	60.0N	50.0W			80	NE	LO	90	N	N						114
121	123	GREENLAND	CLOUDS	62.5N	50.0W			80	NE	HO	90	N	N						114
121	124	GREENLAND	CLOUDS	62.5N	50.0W			80	NE	HO	90	N	N						114
121	125	GREENLAND	CLOUDS	64.0N	44.0W			80	NE	HO	90	N	N						114
121	126	LIBYA	MEDITERRANEAN SEA	32.5N	22.0E			25		NV	90	N	N						113
121	127	ITALY	SICILY	38.5N	15.0E			60	SW	LO	90	N	N						113
121	128	ITALY	NAPLES/VESUVIUS	41.0N	14.0E			80		NV	90	N	N						113
121	129	ITALY	MILAN/ALPS	45.5N	9.0E			35	E	LO	90	N	N						113
121	130	SYRIA	EUPHRATES RIVER	36.5N	38.0E			0	NW	HO	90	N	N						112
121	131	ISRAEL	MEDITERRANEAN SEA	31.0N	35.0E			25	SW	HO	90	N	N						112
121	132	TURKEY	BLACK SEA	42.0N	35.0E			20	NW	HO	90	N	N						112
121	133	CYPRUS	MEDITERRANEAN SEA	33.0N	32.0E			5	SW	HO	90	N	N						112
121	134	TURKEY	MEDITERRANEAN SEA	35.0N	29.0E			2	SW	HO	90	N	N						112
121	135	TURKEY	MEDITERRANEAN SEA	37.0N	26.0E			15	SW	HO	90	N	N						112
121	136	TURKEY	ISTANBUL/MARMARA SEA	39.5N	26.0E			30	SW	HO	90	N	N						112
121	137	LIBYA	MEDITERRANEAN SEA	33.0N	12.0E			60	S	HO	90	N	N						97
121	138	ENGLAND	ENGLISH CHANNEL	53.0N	4.0W			65	NW	HO	90	N	N						97
121	139	FRANCE	ENGLISH CHANNEL	51.5N	2.5E			65	N	LO	90	N	N						97
121	140		CLOUDS							HO	90	N	N						
121	141	MEXICO	SOUTHERN CALIFORNIA	31.5N	115.5W			50	S	HO	90	N	N						87
121	142		CLOUDS							HO	90	N	N						
121	143		VERY DARK							HO	90	U	N						
121	144		VERY DARK							HO	90	U	N						
121	145		VERY DARK							HO	90	U	N						
121	146	MOROCCO	MEDITERRANEAN SEA	36.0N	3.0W			70	NW	HO	90	U	N						82
121	147	SOMALIA	COASTLINE	5.0N	48.5E			70	NE	HO	90	N	N						81
121	148	SOMALIA	COASTLINE/DARK	9.0N	48.0E			90	NE	HO	90	U	N						81
121	149		VERY DARK							HO	90	U	N						
121	150		VERY DARK							HO	90	U	N						
121	151		VERY DARK							HO	90	U	N						
121	152	MEXICO	GOLFO DE CALIFORNIA-DARK	30.0N	113.0W			70	SW	HO	90	U	N						71
121	153	MEXICO	GOLFO DE CALIFORNIA	31.5N	112.5W			60	SW	HO	90	N	N						71
121	154	MEXICO	GOLFO DE CALIFORNIA	32.0N	114.0W			30	S	HO	90	N	N						71
121	155	USA-CALIFORNIA	SALTON SEA	34.0N	115.5W			30	SW	HO	90	N	N						71
121	156	USA-CALIFORNIA	MOJAVE DESERT	35.0N	119.0W			20	W	HO	90	N	N						71
121	157	USA-ALASKA	KODIAK ISLAND	57.0N	153.0W			65		NV	90	N	N						70

TABLE A-4.- LIST OF STS 41-G LINHOF PHOTOGRAPHY (Concluded)

ROLL	FRAME	GEO-NAME	FEATURE	CENTER POINT LAT	CENTER POINT LON	NADIR LAT	NADIR LON	CC%	DR	TL	FL	E	S	DATE	GMT	NADIR ALT	NADIR AZI	NADIR ELE	ORB
121	158	USA-ALASKA	ALASKA PENINSULA	58.5N	158.0W			50	NW	LO	90	N	N						70
121	159	USA-ALASKA	ALASKA PENINSULA	57.0N	157.5W			40		NV	90	N	N						70
121	160	USA-ALASKA	ALASKA PENINSULA	57.0N	158.5W			50		NV	90	N	N						70
121	161	BRAZIL	AMAZON RIVER	1.0S	50.0W			80	SW	HO	90	N	N						69
121	162	BRAZIL	AMAZON RIVER	1.0S	49.5W			80	SW	HO	90	N	N						69
121	163	USA-NEW HAMPSHIRE	MASSACHUSETTS BAY/BOSTON	43.0N	70.5W			70	NE	HO	90	N	N						69
121	164	USA-NEW HAMPSHIRE	MASSACHUSETTS BAY/BOSTON	43.0N	72.0W			70	NE	HO	90	N	N						69
121	165	CANADA-Q	ST LAWRENCE RIVER	46.5N	70.5W			70	NE	HO	90	N	N						69
121	166	CANADA-O	HUDSON BAY	54.5N	89.5W			20	NE	HO	90	N	N						69
121	167	CANADA-M	HUDSON BAY	57.5N	93.5W			15	NE	HO	90	N	N						69
121	168	CANADA-YT	SAINT ELIAS MOUNTAINS	60.5N	138.5W			70	NW	HO	90	N	N						69
121	169	CANARY ISLANDS	GRAN CANARIA/TENERIFE	28.5N	17.0W			40	NW	HO	90	N	N						67
121	170	MADAGASCAR	SOUTHERN TIP	24.0S	45.5E			35	NE	HO	90	N	N						66
121	171	ALGERIA	STRAIT OF GIBRALTAR	36.0N	2.0W			75	NW	HO	90	N	N						66
121	172	ITALY	ADRIATIC SEA	45.0N	11.0E			40	NW	HO	90	N	N						65
121	173	ITALY	ADRIATIC SEA	45.0N	11.0E			50	NW	HO	90	N	N						65
121	174	OMAN	COASTLINE	17.0N	54.0E			10	SW	HO	90	N	N						64
121	175	OMAN	AR RUB AL KHALI BASIN	22.5N	55.5E			1	SW	HO	90	N	N						64
121	176	QATAR	PERSIAN GULF	26.0N	51.5E			10	W	HO	90	N	N						64
121	177	KUWAIT	PERSIAN GULF	29.0N	49.0E			35	W	HO	90	N	N						64
121	178	USSR	CASPIAN SEA/ZAGROS MTNS	40.0N	47.0E			30	NW	HO	90	N	N						64
121	179	MEXICO	SIERRA GRANDE	29.0N	105.0W			70		NV	90	N	N						55
121	180	USA-NEW MEXICO	RIO GRANDE/WHITE SANDS	32.5N	106.5W			80	SE	HO	90	N	N						55
121	181	USA-ARIZONA	GRAND CANYON/LAKE MEAD	36.0N	113.0W			2	SW	LO	90	N	N						55
121	182	USA-NEVADA	SOUTHERN NEVADA	36.5N	114.5W			15	S	HO	90	N	N						55
121	183	USA-NEVADA	SOUTHERN NEVADA	39.0N	117.0W			10	SW	HO	90	N	N						55
121	184	USA-NEVADA	SOUTHERN NEVADA	39.0N	117.0W			5	SW	LO	90	N	N						55
121	185	USA-NEVADA	SIERRA NEVADA	40.5N	118.0W			20	SW	HO	90	N	N						55
121	186		CLOUDS							HO	90	N	N						55
121	187	REPUBLIC SOUTH AFRICA	SOUTHERN COASTLINE	35.5S	23.5E			45	SW	HO	90	N	N						51
121	188	REPUBLIC SOUTH AFRICA	CAPE OF GOOD HOPE	35.0S	18.0E			60	SW	HO	90	N	N						51
121	189	REPUBLIC SOUTH AFRICA	KALAHARI DESERT	31.0S	21.0E			60	S	HO	90	N	N						51
121	190		CLOUDS							HO	90	N	N						47
121	191	CHINA	HIMALAYAS	32.0N	80.5E			15	NE	HO	90	N	N						47
121	192	NEPAL	HIMALAYAS	29.5N	80.5E			25	E	HO	90	N	N						

APPENDIX B

STS 41-G EARTH OBSERVATIONS PHOTOGRAPHY SUMMARY MAP

APPENDIX B

STS 41-G EARTH OBSERVATIONS PHOTOGRAPHY SUMMARY MAP

The Earth Observations Photography Summary Map contains the center point positions and frame numbers, printed in red, for Earth observations photographs aquired on the STS 41-G mission. Nadir latitude and longitude coordinates are shown for photographs that could not be located. These coordinates, printed in blue, reflect the position of the Shuttle Orbiter at the time the photograph was taken. Where a large number of photographs were acquired over a small area, the points are enclosed within a box with the frame numbers bracketed outside; the textual index must be used to obtain the center point latitude and longitude for each individual frame number.

The scale of the map is 1:40,000,000 at the Equator.

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
JSC-20639		

4. Title and Subtitle	5. Report Date
Catalog of Space Shuttle Earth Observations Hand-Held Photography: Space Transportation System (STS) 41-G Mission	July 1985
	6. Performing Organization Code

7. Author(s)	8. Performing Organization Report No.
Barbara S. Nowakowski and Wesley F. Palmer Lockheed Engineering and Management Services Company, Inc.	LEMSCO-21761
	10. Work Unit No.
9. Performing Organization Name and Address Lockheed Engineering and Management Services Company, Inc. 2400 NASA Road 1 Houston, Texas 77058	11. Contract or Grant No. NAS 9-15800
	13. Type of Report and Period Covered Technical Report
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, Texas 77058 JSC Technical Monitor: C. A. Wood	14. Sponsoring Agency Code

15. Supplementary Notes

16. Abstract

This document catalogs Space Shuttle hand-held Earth observations photography which was collected on the Space Transportation System (STS) 41-G mission of October 1984. The catalog includes the following data for each of 2480 frames: identification number, geographical name, feature description, latitude and longitude, percentage of cloud cover, look direction and tilt, lens focal length, exposure evaluation, stereopairs, and orbit number. The catalog is a product of the Space Shuttle Earth Observations Project, Solar System Exploration Division, Space and Life Sciences Directorate, of the National Aeronautics and Space Administration, Lyndon B. Johnson Space Center.

17. Key Words (Suggested by Author(s))	18. Distribution Statement
Hand-held photography STS 41-G Space Shuttle Earth Observations Project	Unclassified - Unlimited

19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of Pages	22. Price*
Unclassified	Unclassified	77	

*For sale by the National Technical Information Service, Springfield, Virginia 22161

NASA — JSC

U.S. GOVERNMENT PRINTING OFFICE 1985— 569-014/20711