Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

TOP SECRET

25X1

MISSION COVERAGE STATISTICS

KH-4 MISSION 1109-2

12-23 MARCH 1970

25X1

APRIL 1970

COPY 209

15 PAGES

MCS-003/70

Declass Review by NIMA/DOD

25X1

GROUP 1: EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

TOP SECRET

25X1

25X1

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

INTRODUCTION

This publication provides preliminary mission data, Greenwich Mean Time of passes, correlation of photographic coverage with WAC Chart Areas, coverage plots, and preliminary data for Mission 1109-2, dated 12-23 March 1970.

Plot sheets are arranged by geographic areas as indicated by the index tabs. Coverage of the Eurasian land mass is divided into days to eliminate illegible overprinting.

Plots for the forward and aft cameras are portrayed as stereoscopic and/or monoscopic passes. Stereo passes will be shown with the forward-looking camera frame numbers inside the pass outline and the corresponding aft-looking camera frame numbers outside the pass outline. In the event of monoscopic coverage, only the frame numbers of the operative camera will appear. The relative location of photographs falling between the numbered frames may be approximated by interpolation.

All frames are indicated on the plot sheets, regardless of water coverage, total cloud cover, or a complete lack of imagery.

TABLE OF CONTENTS

Page

Preliminary Mission Data 2

Greenwich Mean Time of Passes. 3

25X1D [redacted]

Coverage of Eurasia and Adjacent Areas . . . . . 7 - 12

25X6 [redacted]

[redacted] 25X1A

PRELIMINARY MISSION DATA

Mission Number: 1109-2

Launch Date/Time (GMT): 4 March 1970/2215

Photo Dates (GMT): 12,13,14,15,16,17,18,19,20,21,22,23 March 1970

Recovery Date/Time (GMT): 23 March 1970/1844

Operational Photo Passes: 53

Operational Altitude Limits: 95 - 106 Nautical Miles

Photo Scale Range: 1:290,000 - 1:322,891

Operational Ground Coverage (Fwd and Aft):

a. Linear Nautical Miles: 47,112
b. Square Nautical Miles: 6,595,680

Frames:

a. Operational

Fwd-Looking 2,941
Aft-Looking 2,948

b. Stellar 5,576

c. Index 2,788

Operational Imagery Footage (Fwd and Aft): 14,587

Anomalies: No major anomalies occurred during this mission.

Vehicle Attitude: Normal

Image Quality:

A. The best image quality of Mission 1109-2 is not as good as that of Mission 1109-1; however, the overall image quality of both missions is comparable. The quality of the fwd and aft camera records is variable. At magnifications above 25X, most imagery has an out-of-focus appearance. The out-of-focus bands of imagery reported on Mission 1109-1 continued throughout Mission 1109-2 and are considered to be characteristic of the KH-4B camera system.

B. Index Camera: The index camera functioned properly throughout the mission and provided image quality comparable to that attained on recent missions.

C. Stellar Cameras: The stellar camera operated throughout the mission. Approximately 12 to 15 stellar images can be detected on each stellar frame of the mission.

Cloud Free Coverage: Approximately 85 percent of the entire mission is cloud free.

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

GREENWICH MEAN TIME

These times are derived from preliminary data and cannot be verified at this time. They are carried to the nearest whole minute.

MISSION 1109-2

		CAM ON		CAM OFF	
PASS	DATE (Z)	HR (Z)	MIN (Z)	HR (Z)	MIN (Z)
118D	12 March 1970	04	54	04	57
119D	12 March 1970	06	23	06	24
120D	12 March 1970	07	54	07	55
121D (1)	12 March 1970	09	19	09	20
121D (2)	12 March 1970	09	22	09	24
122D	12 March 1970	10	48	10	50
134D	13 March 1970	04	36	04	38
135D	13 March 1970	06	03	06	04
136D	13 March 1970	07	31	07	32
137D (1)	13 March 1970	09	01	09	02
137D (2)	13 March 1970	09	02	09	04
150D (1)	14 March 1970	04	12	04	13
150D (2)	14 March 1970	04	15	04	15
151D	14 March 1970	05	39	05	44
152D	14 March 1970	07	14	07	14
153D (1)	14 March 1970	08	36	08	38
153D (2)	14 March 1970	08	42	08	44
154D	14 March 1970	10	10	10	12
155D	14 March 1970	11	43	11	45
165D	15 March 1970	02	24	02	25
167D	15 March 1970	05	25	05	26
169D (1)	15 March 1970	08	18	08	19
169D (2)	15 March 1970	08	24	08	26
170D	15 March 1970	09	54	09	55
171D	15 March 1970	11	25	11	27
183D (1)	16 March 1970	05	08	05	10
183D (2)	16 March 1970	05	11	05	12
184D (1)	16 March 1970	06	37	06	38
184D (2)	16 March 1970	06	42	06	43
185D (1)	16 March 1970	08	00	08	01
185D (2)	16 March 1970	08	04	08	07
186D	16 March 1970	09	34	09	36
187D (1)	16 March 1970	11	06	11	07
187D (2)	16 March 1970	11	10	11	11
188D	16 March 1970	12	36	12	37
199D (1)	17 March 1970	04	45	04	46
199D (2)	17 March 1970	04	46	04	47
199D (3)	17 March 1970	04	48	04	50
200D (1)	17 March 1970	06	17	06	18
200D (2)	17 March 1970	06	21	06	23
201D	17 March 1970	07	43	07	46
202D (1)	17 March 1970	09	10	09	11
202D (2)	17 March 1970	09	14	09	16

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

MISSION 1109-2 (Continued)

PASS	DATE (Z)	CAM ON HR (Z)	CAM ON MIN (Z)	CAM OFF HR (Z)	CAM OFF MIN (Z)
213D	18 March 1970	01	23	01	23
215D	18 March 1970	04	25	04	26
216D (1)	18 March 1970	05	51	05	52
216D (2)	18 March 1970	05	55	05	57
216D (3)	18 March 1970	05	58	05	59
217D	18 March 1970	07	22	07	25
218D	18 March 1970	08	51	08	53
230D	19 March 1970	02	30	02	32
231D	19 March 1970	03	59	04	00
232D (1)	19 March 1970	05	27	05	29
232D (2)	19 March 1970	05	34	05	36
233D (1)	19 March 1970	07	00	07	01
233D (2)	19 March 1970	07	02	07	04
234D (1)	19 March 1970	08	29	08	30
234D (2)	19 March 1970	08	32	08	33
237D	19 March 1970	12	59	13	00
247D	20 March 1970	03	43	03	44
249D	20 March 1970	06	42	06	43
252D (1)	20 March 1970	11	07	11	08
252D (2)	20 March 1970	11	11	11	13
264D (1)	21 March 1970	04	50	04	51
264D (2)	21 March 1970	04	53	04	53
265D	21 March 1970	06	21	06	22
268D (1)	21 March 1970	10	43	10	43
268D (2)	21 March 1970	10	45	10	46
268D (3)	21 March 1970	10	49	10	51
282D	22 March 1970	07	24	07	24
296D (1)	23 March 1970	04	00	04	01
296D (2)	23 March 1970	04	05	04	06
297D (1)	23 March 1970	05	30	05	30
297D (2)	23 March 1970	05	33	05	34
299D (1)	23 March 1970	08	23	08	24
299D (2)	23 March 1970	08	29	08	30
300D (1)	23 March 1970	09	53	09	54
300D (2)	23 March 1970	09	55	09	55
300D (3)	23 March 1970	09	57	09	58
301D	23 March 1970	11	25	11	27

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

25X1D

Next 1 Page(s) In Document Exempt

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

EURASIA

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

25X1

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0

Next 11 Page(s) In Document Exempt

Approved For Release 2003/05/15 : CIA-RDP99T01396R000600070001-0