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MISSION COVERAGE STATISTICS

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Declass Review by NIMA/DOD

KH-4 MISSION 1116-2

29 APRIL - 8 MAY 1972

104805

Historical -Do not Destroy

FOR REFERENCE

Do Not Take From This Room

NRO review(s) completed.

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MAY 1972

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25 PAGES

MCS-015/72

NPIC MCS01572

MISSION COVERAGE STATISTICS KH-4 MISSION...

1972 [redacted] 9 DOCUMENT_REF

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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 1116-2, dated 29 April-8 May 1972 (GMT).

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, ragardless of water coverage, total cloud cover, or a complete lack of imagery.

Refer to the Mission Coverage Statistics (MCS) entitled Target Coverage Summary, [redacted] MCS-016/72, for additional information on Mission 1116-2. 25X1

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PRELIMINARY MISSION DATA

Mission Number: 1116-2

Launch Date/Time (GMT): 19 April 1972/2144

Photo Dates (GMT): 29 April 1972-8 May 1972

Recovery Date/Time (GMT): 8 May 1972/2223

Operational Photo Passes: 45

Operational Altitude Limits: 81-107 NM

Photo Scale Range: 1:249,144-1:325,512

Operational Ground Coverage (Fwd and Aft):

a. Linear Nautical Miles 47,848
b. Square Nautical Miles 6,220,240

Frames:

Operational

Fwd-Looking 2,991
Aft-Looking 2,990

Operational Imagery Footage (Fwd and Aft): 16,940

Anomalies: The port horizon camera shutter failed to close in three instances:

a. Pass D159, Frame 45
b. Pass D245, Frame 01
c. Pass D250, Frame 62

In each case, the shutter closed during the next programmed operation two main frames later. This anomaly caused two main frames to be severly fogged during each failure.

Vehicle Attitude: Normal.

Image Quality: The image quality is good and appears to be similar to that of recent KH-4B missions. Many frames maintain edge sharpness at 100X magnification.

In each case the shutter closed during the next programmed operation, two main frames later. During each failure the two succeeding frames were severly fogged.

Vehicle Attitude: Normal.

Image Quality: The image quality is good and is similar to the first bucket.

Cloud Free Coverage: 80 percent of the mission is cloud free.

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:

PASS	DATE	CAM ON HR (Z)	CAM ON MIN (Z)	CAM OFF HR (Z)	CAM OFF MIN (Z)
159D	29 April 1972	16	54	16	57
166D	30 April 1972	02	58	02	58
167D (1)	30 April 1972	04	18	04	19
167D (2)	30 April 1972	04	29	04	31
167D (3)	30 April 1972	04	42	04	43
167D (4)	30 April 1972	04	44	04	46
168D (1)	30 April 1972	05	54	05	56
168D (2)	30 April 1972	06	00	06	02
169D	30 April 1972	07	25	07	28
170D (1)	30 April 1972	08	46	08	47
170D (2)	30 April 1972	08	47	08	48
175D	30 April 1972	16	31	16	35
180D	30 April 1972	23	35	23	35
181D (1)	1 May 1972	01	00	01	02
181D (2)	1 May 1972	01	04	01	04
182D	1 May 1972	02	33	02	34
183D	1 May 1972	04	06	04	07
186D (1)	1 May 1972	08	23	08	24
186D (2)	1 May 1972	08	33	08	35
187D (1)	1 May 1972	09	54	09	55
187D (2)	1 May 1972	10	00	10	01
197D	2 May 1972	00	39	00	40
198D	2 May 1972	02	11	02	12
199D	2 May 1972	03	42	03	43
200D	2 May 1972	05	02	05	04
202D	2 May 1972	08	11	08	13
203D (1)	2 May 1972	09	31	09	32
203D (2)	2 May 1972	09	41	09	43
204D (1)	2 May 1972	11	17	11	19
204D (2)	2 May 1972	11	20	11	21
216D	3 May 1972	04	51	04	52
219D (1)	3 May 1972	09	15	09	16
219D (2)	3 May 1972	09	18	09	18
232D	4 May 1972	04	27	04	28
235D	4 May 1972	08	52	08	54
245D	4 May 1972	23	26	23	27
247D	5 May 1972	02	28	02	30
248D	5 May 1972	04	00	04	01
249D (1)	5 May 1972	05	24	05	25
249D (2)	5 May 1972	05	27	05	28
250D (1)	5 May 1972	06	50	06	51
250D (2)	5 May 1972	06	53	06	53
250D (3)	5 May 1972	06	54	06	55
250D (4)	5 May 1972	07	00	07	00
251D (1)	5 May 1972	08	17	08	18
251D (2)	5 May 1972	08	20	08	21
251D (3)	5 May 1972	08	27	08	29
251D (4)	5 May 1972	08	30	08	32
263D	6 May 1972	02	06	02	08
265D	6 May 1972	05	05	05	06
266D	6 May 1972	06	30	06	31
267D (1)	6 May 1972	07	55	07	56
267D (2)	6 May 1972	07	56	07	58
267D (3)	6 May 1972	07	58	08	01
268D (1)	6 May 1972	09	28	09	29
268D (2)	6 May 1972	09	43	09	44

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GREENWICH MEAN TIME (Continued)

PASS	DATE	CAM ON HR (Z)	CAM ON MIN (Z)	CAM OFF HR (Z)	CAM OFF MIN (Z)
278D	7 May 1972	00	12	00	14
279D	7 May 1972	01	42	01	44
281D	7 May 1972	04	38	04	39
283D (1)	7 May 1972	07	33	07	34
283D (2)	7 May 1972	07	37	07	37
283D (3)	7 May 1972	07	46	07	46
284D	7 May 1972	09	05	09	06
297D	8 May 1972	04	18	04	19
298D	8 May 1972	05	43	05	44
299D	8 May 1972	07	11	07	15
300D (1)	8 May 1972	08	41	08	43
300D (2)	8 May 1972	08	46	08	47
300D (3)	8 May 1972	08	56	08	56
301D	8 May 1972	10	29	10	30

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EURASIA

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AFRICA

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SOUTH AMERICA

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