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Approved For Release 2005/04/28 : CIA-RDP78B04560A005600010061-0

PHOTOGRAPHIC INTERPRETATION REPORT



GLASS LAMP MISSION G-936
16 DECEMBER 1966

Declass Review By NIMA/DOD

NPIC/R-396/66
DECEMBER 1966

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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GL MISSION G-936, 16 DEC 66

R-396/66

PREFACE

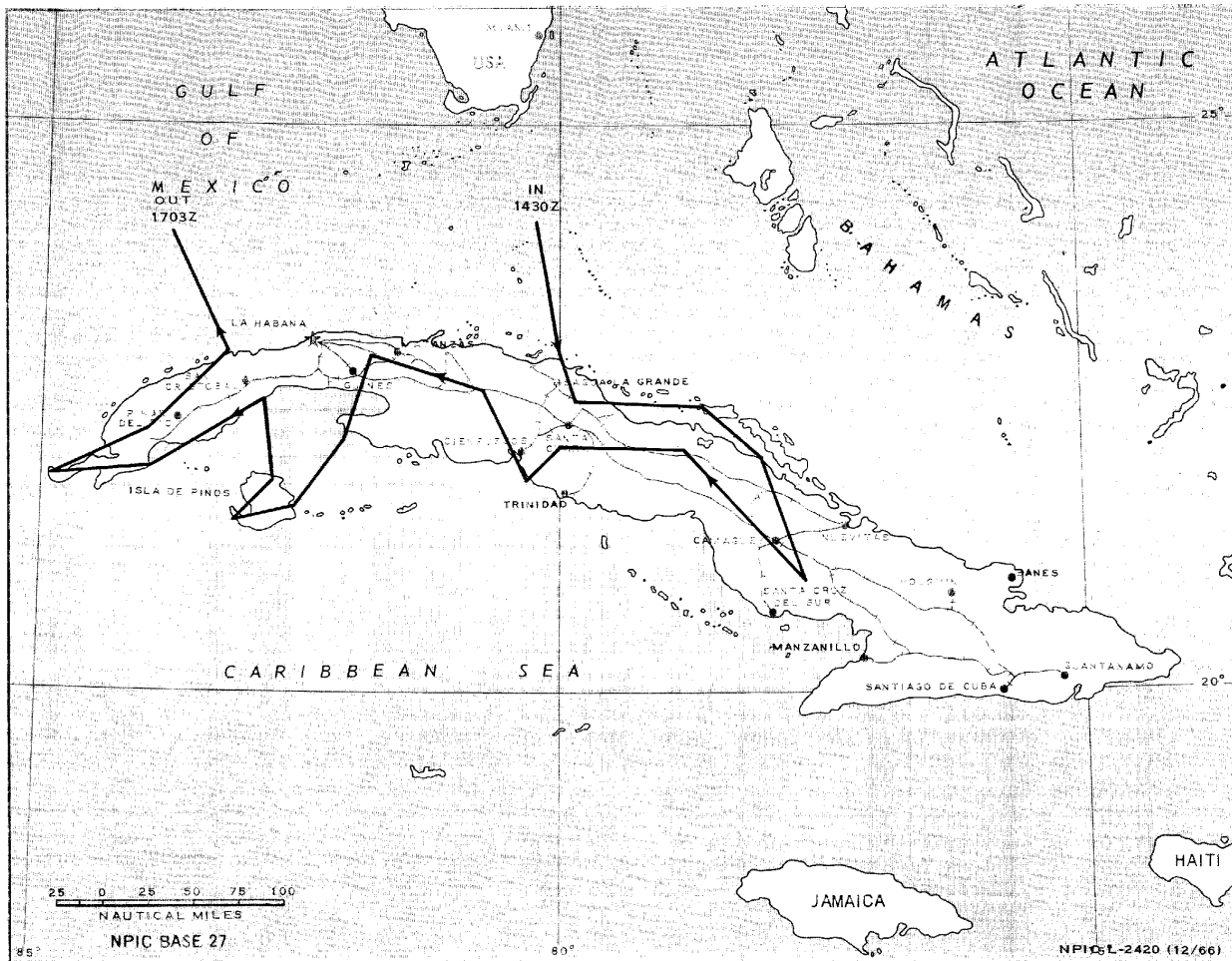
THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-936, 16 DEC 66. THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE COMOR TARGET NUMBER.

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS-- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), SD (SEMIDARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), O (OBLIQUITY), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS SIGNIFIED BY ST (STEREO), NS (NONSTEREO), OR PS (PARTIAL STEREO).

AAA DEFENSES ARE DIVIDED INTO THREE BASIC CATEGORIES -- LIGHT (ZPU-2, ZPU-4, AND 37MM), MEDIUM (57MM AND 85MM), AND HEAVY (100MM AND LARGER). WHERE SUCH A CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER OF GUNS INDICATED (EXAMPLE 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED).

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APPROXIMATE TRACK OF GLASS LAMP MISSION G-936, 16 DECEMBER 1966.

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ITEMS OF SPECIAL INTEREST

ADJACENT TEMPORARY SITE AT SANTA FE SAM SITE VACATED, PERMANENT SITE OCCUPIED.

MISSILES

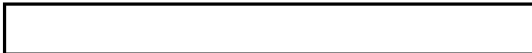
25X1A

MAJANA SAM SITE 2 A27-A2

CU 2241N 08249W

OB -- 6 EMPLACED LAUNCHERS (1 BEING LOADED/UNLOADED), 9 MISSILE TRANSPORTERS (8 WITH EXPOSED MISSILES), A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, A PROBABLE ACQUISITION RADAR WITH AN ASSOCIATED GENERATOR VAN, 6 AT-S TRACKED PRIME MOVERS, 5 ZIL-157V TRUCK TRACTORS, 11 CARGO TRUCKS, 2 VAN TRUCKS, AND 2 OTHER VAN TRAILERS.

ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



25X1D

SANTA CLARA SAM SITE A34-2

CU 2229N 08000W

PERMANENT SITE REMAINS UNDER CONSTRUCTION.
OB (AT ADJACENT TEMPORARY SITE) -- 6 EMPLACED LAUNCHERS (1 WITH MISSILE), AT LEAST 5 MISSILE TRANSPORTERS (1 WITH EXPOSED MISSILE) AN OCCUPIED GUIDANCE AREA, AND AT LEAST 15 OTHER VEHICLES/PIECES OF EQUIPMENT.
OBLIQUITY LIMITS INTERPRETATION.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



25X1D

LA CATALINA SAM SITE A34-2

CU 2258N 08200W

OB -- 6 EMPLACED LAUNCHERS (3 WITH MISSILES), 10 MISSILE TRANSPORTERS (4 WITH EXPOSED MISSILES), A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, 9 AT-S TRACKED PRIME MOVERS, 3 ZIL-157V TRUCK TRACTORS, AND 10 CARGO TRUCKS.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



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25X1A

CONSTANCIA SAM SITE A10-2

CU 2214N 08030W

OB -- AT LEAST 4 EMPLACED LAUNCHERS (1 WITH MISSILE), 7 MISSILE TRANSPORTERS, AND AN OCCUPIED CENTRAL GUIDANCE AREA OBSERVED IN CLOUD-FREE AREAS. NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



SANTA FE SAM SITE

CU 2147N 08250W

TEMPORARY ADJACENT SITE IS VACATED AND WILL NO LONGER BE REPORTED. OB (AT PERMANENT SITE) -- 6 EMPLACED LAUNCHERS (3 WITH MISSILES), 22 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, A PROBABLE ACQUISITION RADAR WITH AN ASSOCIATED GENERATOR VAN, 13 AT-S TRACKED PRIME MOVERS, 5 ZIL-157V TRUCK TRACTORS, 1 CARGO TRUCK, 2 VAN TRUCKS, AND 1 TRUCK-MOUNTED CRANE. ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE. NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

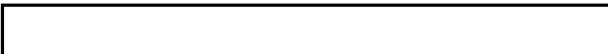


AIR FACILITIES

CAMILO CIENFUEGOS AIRFIELD

CU 2229N 07956W

OB -- 12 FAGOT/FRESCO AND 2 PROBABLE FAGOT/FRESCO OBSERVED IN CLOUD-FREE AREAS.



CAMAGUEY INTERNATIONAL AIRFIELD

CU 2125N 07750W

OB -- 1 C-54, 1 COKE, 2 C-46, 1 C-47, AND 18 HOUND. ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.



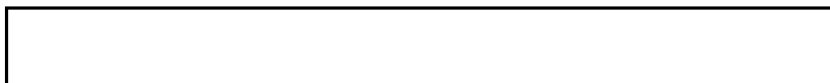
SIGUANEA AIRFIELD

CU 2138N 08257W

OB -- NONE OBSERVED.

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25X1D



25X1A

SAN JULIAN AIRFIELD

CU 2205N 08409W

OB -- 1 CRATE, 6 COLT, 23 ZLIN TRENNER, 1 LIAISON AND 1 HOUND.

ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.

25X1D

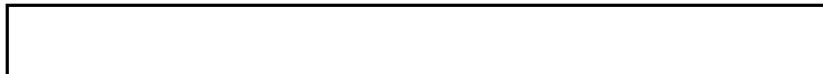


COLONEL MARTIN MARRERRO AIRFIELD

CU 2150N 08246W

OB -- 1 COLT.

25X1D



JAIME GONZALES AIRFIELD

CU 2209N 08024W

OB -- 1 COOT WITHOUT OUTER WING PANELS.

25X1D



NAVAL ACTIVITY/PORTS

MARIEL NAVAL BASE AND NAVAL AIR STATION

CU 2259N 08244W

OB -- 3 PROBABLE S.O.I-CLASS SC.
OTHER VESSELS -- 1 LARGE FREIGHTER.

25X1D

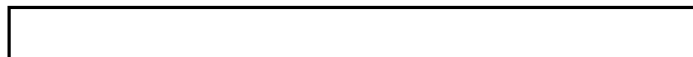


CABANAS NAVAL BASE

CU 2258N 08258W

OB -- 7 KOMAR-CLASS PTG (2 UNDERWAY OUTSIDE HARBOR).

25X1D



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25X1A

SIGUANEA NAVAL BASE

CU 2136N 08258W

OB -- 1 YP.

25X1D



CIENFUEGOS NAVAL BASE

CU 2208N 08027W

OB -- 2 KRONSTADT-CLASS PC, 5 P-6-CLASS PT, AND 2 YP.
OTHER VESSELS -- 2 LARGE FREIGHTERS.

25X1D



NUEVA GERONA PORT

CU 2153N 08248W

VESSELS -- NONE OBSERVED.

25X1D

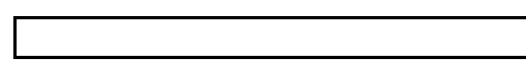


LA ISABELA PORT

CU 2256N 08000W

VESSELS -- NONE OBSERVED.

25X1D

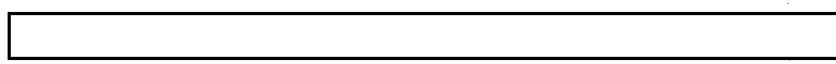


CARDENAS PORT

CU 2302N 08111W

VESSELS -- NONE OBSERVED IN CLOUD-FREE AREAS.

25X1D

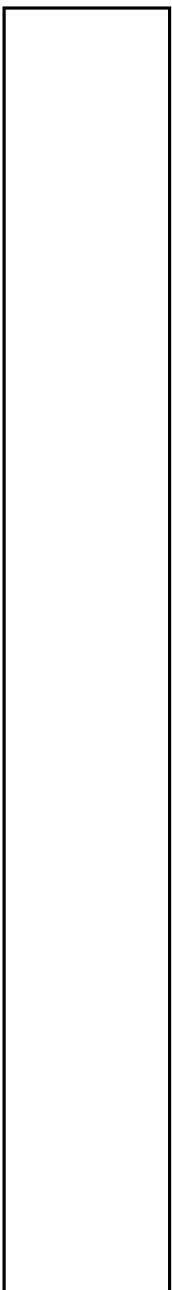
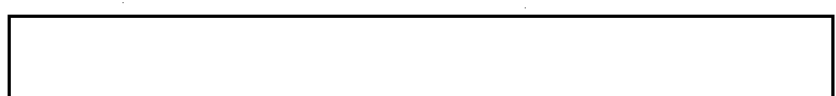


MATANZAS PORT

CU 2302N 08134W

VESSELS -- 4 LARGE FREIGHTERS OBSERVED IN CLOUD-FREE
AREAS.

25X1D



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25X1A

SURGIDERO DE BATABANO PORT CU 2241N 08217W

VESSELS -- NONE OBSERVED.

25X1D



BAHIA HONDA PORT CU 2255N 08310W

NO VESSELS OBSERVED.

25X1D

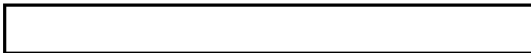


ELECTRONICS/COMMUNICATIONS

SANTA CLARA EW/GCI RADAR SITE CU 2229N 07956W

OB -- 1 PROBABLE TOKEN RADAR AND 1 PROBABLE ROCK
CAKE/STONE CAKE RADAR.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.

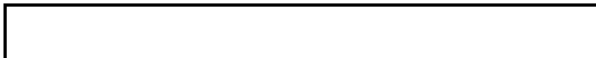
25X1D



BAHIA HONDA EW/GCI RADAR SITE 2 CU 2255N 08312W

OB -- 1 BAR LOCK RADAR AND 1 FLAT FACE RADAR.
ACTIVITY -- 1 CARGO TRUCK, 3 VAN TRAILERS, AND 1
UNOCCUPIED 3-GUN AAA SITE.

25X1D



SANTA FE EW/GCI RADAR SITE CU 2139N 08245W

OB -- NONE OBSERVED.
ACTIVITY -- 1 CARGO TRUCK, 7 VAN TRUCKS, 1 VAN TRAILER,
AND 2 OCCUPIED 3-GUN AAA SITES.

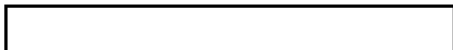
25X1D



CABANAS LOW SIEVE RADAR SITE CU 2259N 08259W

OB -- 1 LOW SIEVE RADAR.
ACTIVITY -- 2 OCCUPIED 3-GUN AAA SITES.

25X1D



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25X1A

MILITARY ACTIVITY

CAMAGUEY MILITARY CAMP CU 2126N 07753W

OB -- NONE OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT CHANGE IN FACILITIES

[REDACTED]

JURAGUA MILITARY ACTIVITY CU 2209N 08035W

OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

[REDACTED]

SAN DIEGO DE NUNEZ MILITARY CAMP CU 2254N 08305W

CONSTRUCTION CONTINUES AT SOUTH END OF CAMP.
OB -- 5 AAA PIECES, 1 TRUCK-MOUNTED CRANE, AND 18
VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

[REDACTED]

SANTA FE MILITARY CAMP LA CLARITA CU 2144N 08247W

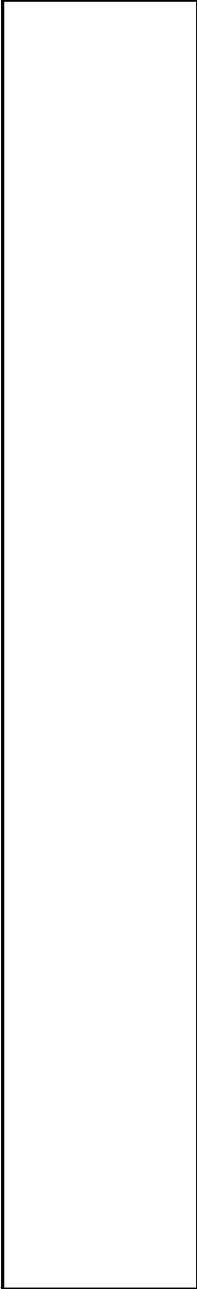
OB (MAIN CAMP) -- NONE OBSERVED.
OB (CAMP 1.5 NM WNW) -- 3 AAA PIECES AND 12 CARGO
TRUCKS.
OB (CAMP 4.8 NM NW) -- 16 MORTARS AND 36 CARGO TRUCKS.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

[REDACTED]

SANTA FE MILITARY CAMP LUMUMBA CU 2142N 08249W

OB -- 6 FA PIECES AND 6 MORTARS.
NO APPARENT CHANGE IN FACILITIES.

[REDACTED]



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25X1A

SANTA FE MILITARY CAMP EAST CU 2144N 08244W

OB -- 17 FA PIECES AND 27 CARGO TRUCKS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN FACILITIES.

25X1D

[Redacted]

SIGUANEA MILITARY ACTIVITY CU 2137N 08257W

OB -- 6 FA PIECES AND 6 MORTARS.
NO APPARENT CHANGE IN FACILITIES.

25X1D

[Redacted]

CIENFUEGOS MILITARY ACTIVITY CU 2209N 08027W

OB -- 8 FA PIECES AND 8 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

25X1D

[Redacted]

CIENFUEGOS LANDING BEACH CU 2202N 08036W

NO NEW MILITARY ACTIVITY OBSERVED.

25X1D

[Redacted]

ENSENADA COLORADO LANDING BEACH CU 2202N 08025W

NO NEW MILITARY ACTIVITY OBSERVED.

25X1D

[Redacted]

PLAYA COLOMBO LANDING BEACH CU 2154N 08246W

NO NEW MILITARY ACTIVITY OBSERVED.

25X1D

[Redacted]

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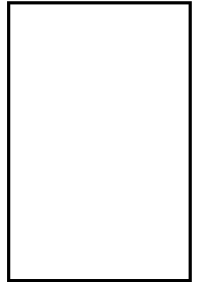
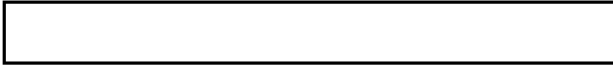
R-396/66

25X1A

PLAYA DE FLAMENCOS LANDING BEACH

CU 2153N 08243W

NO NEW MILITARY ACTIVITY OBSERVED.



ENSENADA DE PLAYUELAS LANDING BEACH

CU 2246N 08349W

NO MILITARY ACTIVITY OBSERVED.



25X1D

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-STATUS OF OTHER TARGETS-

THE FOLLOWING TARGETS SHOW NO APPARENT CHANGE SINCE LAST COVERAGE--

SIGUANEA CRUISE-MISSILE SITE	2137N 08258W
BAHIA HONDA EW/GCI RADAR SITE	2258N 08311W
SAN JULIAN EW/GCI RADAR SITE	2206N 08409W
CABO SAN ANTONIO LOW SIEVE RADAR SITE	2152N 08457W
RANCHO LUNA LOW SIEVE RADAR SITE	2202N 08025W

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

GUANABACOA SAM SITE A14-2	2305N 08216W
GUARA SAM SITE A29-2	2248N 08213W
MANAGUA SAM SITE A05-2	2259N 08215W
MARIEL SAM SITE 2 A30-2	2300N 08248W
RANCHUELO SAM SITE A33-2	2223N 08010W
SAN JOSE DE LAS LAJAS CRUISE-MSL STORAGE	2255N 08210W
CAMPO LIBERTAD AIRFIELD	2305N 08226W
CAIBARIEN PORT	2231N 07928W
CASILDA PORT	2145N 07959W
LA HABANA PORT FACILITIES	2307N 08220W
LA HABANA RADAR SITE COJIMAR	2308N 08219W
LA HABANA RADAR SITE EL MORRO NO 1	2309N 08221W
SAN MIGUEL EW/GCI RADAR SITE	2229N 07953W
RANCHO BOYEROS MIL TRAINING AREA A CAMP	2300N 08218W
REMEDIOS MILITARY AREA	2227N 07935W
CAMPO FLORIDO MILITARY CAMP EAST	2307N 08206W
CAMPO FLORIDO MILITARY CAMP WSW	2306N 08211W
GUANABACOA MILITARY AREA	2307N 08215W
MANAGUA MILITARY CAMP	2258N 08217W
MINAS MILITARY CAMP JESUS MARIA FINCA	2306N 08211W
NAZARENO MILITARY CAMP	2257N 08213W
SANTA CLARA ARTILLERY TRAINING AREA	2222N 08000W
LAS MERCEDES VEHICLE PARK	2224N 08001W
SPECIAL AREA VERMONT	2301N 08248W
SPECIAL AREA OREGON	2259N 08244W
TARARA LANDING BEACH	2310N 08211W
MATANZAS LANDING BEACH	2301N 08126W

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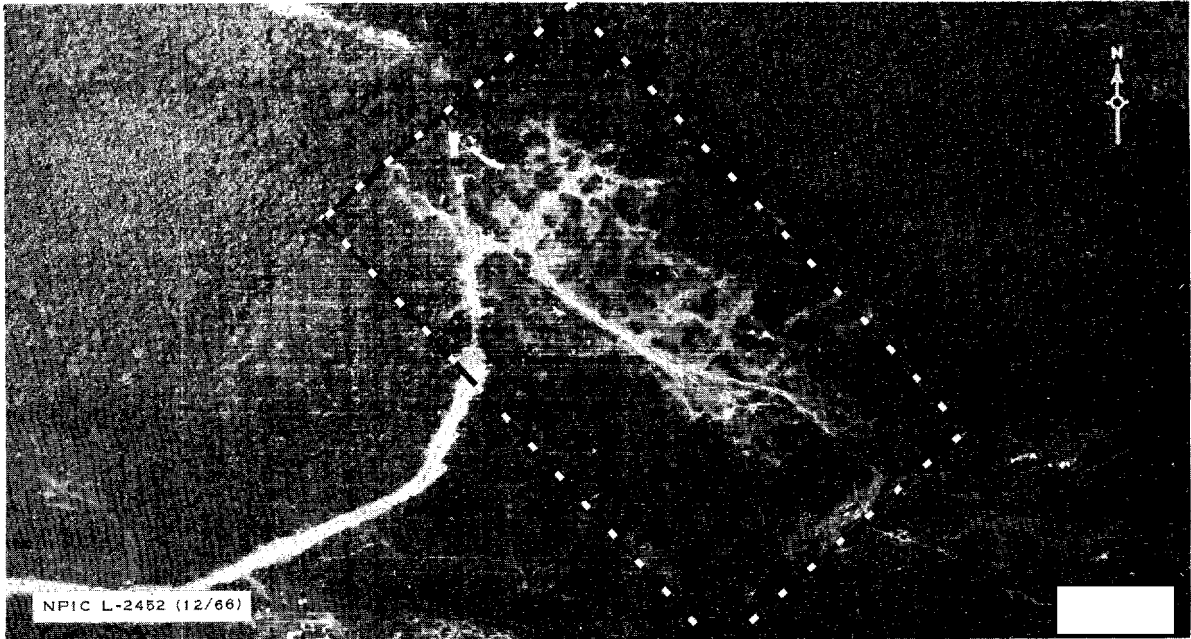
NAME

Ky Anh Field Deployed SAM Site BL7-2

COUNTRY	GEO COORDINATES	WAC	NPIC NO	COMOR NO
North Vietnam	17-52-54N 106-21-37E	0617	442E	

REFERENCES

Location: 12.1 nm SSE of Ky Anh Negation Date: Cannot be negated
 Configuration: Irregular First Observed:
 Status: Complete
 Launch Facilities: 6 positions, unrevetted, unoccupied
 Electronic Facilities: Central guidance area is unrevetted, unoccupied
 Site Support Facilities: No buildings; no missile-hold positions
 Security Measures: None
 Remarks: No AAA sites within 1 nm
 Vehicles & Equipment: The following bomb-damaged equipment is visible
 approximately 0.6 nm NW of the site (at 17-53-19N 106-21-11E): 2 destroyed
 and 1 heavily damaged loaded transporters; 6 undamaged loaded transporters
 are also noted



NPIC L-2452 (12/66)

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NAME

Hai Phong SAM Site A14-2

COUNTRY	GEO COORDINATES	WAC	NPIC NO	COMOR NO
North Vietnam	20-49-21N 106-43-36E	0616	109A1	

REFERENCES

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Location: 3.1 nm SE of Hai Phong Negation Date: Cannot be negated

First Observed:

Configuration: Irregular (aircraft revetments)

Status: Complete

Launch Facilities: 4 positions, revetted, occupied

Electronic Facilities: Central guidance area is revetted, occupied

Site Support Facilities: No buildings; no missile-hold positions

Security Measures: None

Remarks: 5 AAA sites within 1 nm



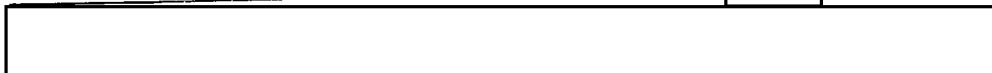
NPIC L-2453 (12/66)

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NAME

Ha Noi Field Deployed SAM Site C03-2

COUNTRY	GEO COORDINATES	WAC	NPIC NO	COMOR NO
North Vietnam	21-21-33N 106-00-10E	0616	02926	



Location: 22.2 nm NNE of Ha Noi Negation Date: Cannot be negated
 Configuration: Irregular First Observed: [REDACTED]
 Status: Complete
 Launch Facilities: 6 positions, 3 partially revetted, 3 unrevetted, all
 occupied by missiles on launchers
 Electronic Facilities: Central guidance area is unrevetted, camouflaged,
 occupied
 Site Support Facilities: No buildings; no missile-hold positions
 Security Measures: None
 Remarks: 1 AAA site within 1 nm



NPIC L-2454 (12/66)