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BYE-41833-65

10 September 1965

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MEMORANDUM FOR: Director, National Reconnaissance Office

ATTENTION: Brigadier General Stewart

SUBJECT: Review of Gemini 5 Photography by NPIC

1. The purpose of this memorandum is to summarize the results of the subject project.

2. Imagery derived from photographic experiments 10, 11, and 12 was reviewed by NPIC. Several potentially sensitive areas both foreign and domestic were imaged. A summary listing of those areas covered by the three experiments is included as Enclosure 1.

3. As indicated in Enclosure 1 not all areas photographed could be accurately located. The primary factors involved in this problem were as follows:

- a. Lack of a photo numbering system.
- b. Failure to log photographs accurately to include the following:
 - (1) Failure of log to correlate with film sequence.
 - (2) Lack of specific target area identification, i.e., coordinates or other location data.

4. Recommendations: In order to preclude the problems indicated above in future experiments, the following recommendations are submitted.

a. Devise a photo numbering system which automatically numbers each frame and is visible on the camera as well.

b. Require specific target location data be logged to include coordinates, direction from vehicle, and depression angle, where possible.

c. Clearly identify all film packs and camera backs and require film changes to be logged.

5. Analysis of those areas which remain unidentified indicates that most can probably be identified through pilot debriefing and subsequent mission data correlation.

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GROUP 1
Excluded from automatic
downgrading and
declassification

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BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

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SUBJECT: Review of Gemini 5 Photography by NPIC

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for ROBERT M. WHITTENPON
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Enclosures: 1

1. Listing of Areas covered on GT-5

Distribution:

- 1 & 2 - Addressee (DNRO)
- 3 - PAG/NPIC
- 4 - Asst/Ops/NPIC

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Enclosure 1 - Listing of Areas Covered on GT-5

Photographic Experiments 10, 11, & 12

1. Experiment 10 (Plus X Aero-3401 - B & W)

Those photographs of military areas which reveal information of intelligence value are indicated by an asterisk.

| <u>Frame No.</u> | <u>Area</u> |
|------------------|-------------------------------------------------------------|
| 1 - 4 | The moon |
| 5 | Blank |
| 6 | Dallas Metropolitan Area, Texas |
| 7 | Low Field, Dallas, Texas |
| 8 - 9 | *Dallas Naval Air Station and Mountain Creek Power Plant |
| 10 | Missile in Flight |
| 11 - 13 | Sky Area |
| 14 | Possible contrail |
| 15 | Sky-scattered clouds |
| 16 - 23 | *Holloman AFB, New Mexico |
| 24 - 28 | *Bergstrom AFB, Texas |
| 29 - 31 | NASA Industrial Area, Cape Kennedy, Fla. |
| 32 - 35 | Las Palmas Airfield, Canary Islands |
| 36 - 41 | Mombasa Airfield, Kenya Africa |
| 42 - 48 | White Sands Area, New Mexico (unconfirmed) |
| 49, 51 - 54 | Aircraft Carrier Lake - Champlain and escort vessel. |
| 50 | Blank |
| 55 | Unidentified Area |
| 56 - 59 | Rocas Island, (Brazil) |
| 60 - 63 | Fernando de Noronha Airfield and Island, (Brazil) |

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2. Experiment 11 (E.K. Infrared Film 8443)

- A. The four areas imaged on this film include:
1. The moon
 2. Venus
 3. An unidentified partially cloud-covered area possibly along coast of southeast Africa or shoreline of Lake Shirwa near Blantrye, Malawi.
 4. Complex northeast of Savannah, Georgia, including Parris Island Airfield, Beaufort Marine Corps Air Station, Hilton Head Airfield, and the area of Beaufort County Airfield. However, no facilities are discernible at the latter location. Intelligence information can be derived from these images both with regard to the installations covered and the sensor (camera and film) capability.

3. Experiment 12 (2 rolls color film)

Those photos revealing identifiable cultural features from which general intelligence information can be derived were located and are indicated by an asterisk.

The potentially sensitive photos of China (indicated in log on day 5 hour 060000) were not identified. However, several photos are listed as possible China images in the following listings.

| <u>Roll/Frame No.</u> | <u>Area</u> |
|-----------------------|-----------------------------------------------------------------------|
| A-1 - 6 | Possibly China |
| 7 | U/I River |
| 8 | Blank |
| 9 | U/I Land mass |
| 10 - 11 | U/I Sphere |
| 12 | Poor Quality |
| 13 | U/I Island or Peninsula |
| 14 | Possible wrine ice (log report) |
| 15 | U/I Island or Peninsula |
| 16 - 17 | U/I Arid Land mass |
| 18 | *Alexandria, Egypt area and upper Nile (Rozetta & Damietta Branch) |
| 19 | *Kafr Ed Da Uwar (10 miles SE of Alexandria) Egypt |
| 20 | *Port Said & upper Suez Canal, Egypt. |
| 21 | *Dead Sea (south end), Isreal, Jordanian Border, Salt extraction |
| 22 | Persian Gulf coastal area, Saudi Arabia (27 15 49 15E) |
| 23 | *Doha Airfield & town, Dawhat, Al Ostar, Saudi Arabia. |
| 24 - 26 | U/I areas |
| 27 | Cloud covered |
| 28 | Water & scattered clouds |
| 29 - 31 | U/I coastal land area |

| <u>Roll/Frame No.</u> | <u>Area</u> |
|-----------------------|------------------------------------------------------------------------|
| | 32 Small storm |
| 33 - 34 | Sky, Target undetermined |
| | 35 U/I land mass |
| 36 - 38 | Weather |
| | 39 No image |
| 40 - 41 | U/I River |
| 42 - 43 | Haze & clouds |
| 44 - 45 | No image |
| | 46 Scattered clouds |
| | 47 Ukiep Atoll, Emejiwan, Marshall Islands |
| | 48 *Pattoke West Pakistan (31N 74E) |
| 49 - 51 | U/I mountainous region probably Tibet |
| | 52 Coastal view U/I land mass |
| 53 - 55 | U/I mountainous region probably Tibet |
| B-1 | No image |
| | 2 *Pulau-Pulau Alor Island, Indonesia (Flores Sea) |
| 3 - 5 | U/I Island or coastal area |
| | 6 *River and road network, villages possibly China or South America |
| | 7 U/I coastal area |
| 8 - 9 | U/I areas in scattered clouds |
| 10 - 21 | U/I arid mountainous areas probably Middle East |
| 22 - 25 | U/I Coral Islands |
| | 26 Poor quality, scattered clouds |
| | 27 No image |
| 28 - 52 | Mountains and lakes of Great Himalayan Range |
| | 53 U/I Island |