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NEWSLETTER NO. 4

RESEARCH ON PHOTOINTERPRETER PERFORMANCE

26 January 1965

Prepared

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TO:

NGA review(s) completed.

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On 17 December 1964 a report, prepared by DNB, FS, and AH entitled "Aircraft Image Analysis as a Function of Photographic Ground Resolution" was submitted to JWC. An oral presentation of this research was also given on that date.

As a result of (1); the work described in the above mentioned report; (2) a memo from FS to JWC requesting guidance in determining the factors (affecting PI performance) to be studied in 1965; and (3) the requirement to determine by mid-March 1965 the optimum stereo convergence throughout the range of practical obliquity angles, discussions held on 17 December 1964 and a conference on 9 January 1965 were directed at determining the goals of research of the immediate future. It was concluded that

1. Attempts should be made to answer the stereo/obliquity angle question by mid-March 1965, and
2. That FS, DNB and AH should prepare a statement of the first research to be performed on a long-range basis for review by JWC, after which such a research program should begin.

Consequently, discussions on various procedures for answering the stereo/obliquity angle question resulted in a decision, made on 13 January 1965 by DNB, AH, BJ, RdC and FS, to request  to make photographs of their terrain model and to ask PIs to make pair-comparisons (or judgments by other similar methods) of the photographs. On 19 January 65 BJ, FF and RdC visited  and made arrangements to obtain the following photographs:

Using a camera with a 90mm F.L. lens with type 4401 film at 55 feet above the 87:1 scale model, photographs will be made with these stereo convergence angles at each of these obliquities:

	<u>Stereo Convergence Angle</u>	<u>Obliquity</u>	
Each combination at each of 4 sun azimuths and camera position relative to the model at 60° sun elevation	20	0)	To be
	25	20)	Completed
	30	45)	about
		60)	5 February 65
	10	10)	To be completed
	15	30)	about 15 February 65

Present plans are to use photographs made at one sun azimuth and camera position. Photographs with other sun azimuths and camera positions are being made to give a selection of azimuth/position combination and to enable use of more than one azimuth/position combination if necessary. Pretesting will begin between the 5th and 15th of February and the final testing will begin on or shortly after 15 February. With this schedule it appears feasible to complete this project by mid-March.

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Discussions on the goals of the first part of the long-range research effort have been held and during the first half of February, AH and FS will formulate initial plans after which DNB, FS and AH will establish goals in a final form for review by JWC. Intentions are to begin work on the long-range program just prior or immediately after completion of the present stereo/obliquity angle program to achieve continuity of effort.

FS.