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19 April 1965

MEMORANDUM FOR: Chief, Geographic Research Area
ATTENTION: [REDACTED] 25X1A9a
FROM: Acting Chief, Map Library Division
SUBJECT: ADP Support Requirements for FY 1966-70

1. Current Projects

a. Map Information System

Microfilming in D/GL of both current acquisitions and backlog, with associated card punching by OCR/MD, has been underway since March 15, 1965. ADP support currently required includes:

(1) OCR/MD punching from transcript sheets essential bibliographic information for D/GL loan copy maps -- punching for current acquisitions will continue indefinitely; punching for production of machine records and production of aperture cards for backlog material will, from present estimates, extend well into the FY 1966-70 time frame. Completion of backlog processing may come in 1969-70.

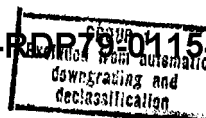
(2) OCS production of punched 35mm Mil-D aperture cards by computer from master card decks punched by OCR/MD. Estimates of current and backlog time frames are the same as for punching given above 1.a.(1).

(3) production of multilith masters on EAM equipment by OCR/MD from master punched card decks, from which PSD will print two biweekly acquisitions lists and 3x5 catalog cards. These operations relate only to current acquisitions; thus, they will continue indefinitely. Final design of these programs is almost completed and production should start in late April 1965.

b. Evaluations

It is anticipated that the development of a capability for viewing the entire loan copy collection of maps at Langley, with the added potential for reproducing quick copies on the

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reader-printer, will benefit many present and future map users. It will provide an entirely new service. The capability will be developed to provide similar services at satellite locations, perhaps of a more limited and specialized nature. During the filming project significant quantities of hard copy maps already in photographic or photostat form are being destroyed, thus creating additional much-needed space for expansion of all holdings in 159-E.

Benefits from the creation of machinable records of map holdings will include greater flexibility in handling records and capability for machine recall of bibliographic information in forms impossible to attain by manual methods.

2. Projection FY 1966-70

In addition to those ADP support items of a continuing nature described in 1. above, several additional levels of support have been discussed. Priority and economic feasibility studies will be required to finalize these projects; however, at least some of them will probably be required in this five year time period.

a. Product Requirements

Anticipated projects basically cover the production of specialized listings and bibliographies from machine records, i.e., punched cards, either directly from the cards utilizing EAM equipment in OCR/MD, or from punched cards directly or through use of tape utilizing OCS computer equipment. Choice of equipment in any specific case will depend upon technical, economic and priority considerations. Anticipated support requirements:

(1) production of "book catalogs", i.e., complete listings of map holdings in book form arranged by area, subject, publisher, or other forms to replace current 3x5 card files;

(2) specialized customer oriented bibliographies of map holdings, e.g., series listings, base map listings, area/subject arrangements, etc., most of which would have greatest value in field installations;

(3) specialized listings of area coverage arranged by publisher for use in the inter-agency map collection program.

b. Equipment Requirements

Purchase, lease, or time sharing of certain types of equipment for use in card duplicating and handling will have to be considered during the next five years. We are not deep

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enough into the map information system to state with any certainty that these items are in the offing; however, they should be noted for planning purposes.

There will unquestionably be requests for complete or partial duplication by in-house and community users of the aperture cards. Complete duplication would require access to automated or semiautomated card duplication equipment. Although present costs of shelf equipment along these lines would appear to be prohibitive for this use alone, it is certain that improved items at lower cost will be developed in the near future, and that a system of sharing such equipment could be effected.

There are already indications that EAM equipment modified for mechanical handling of 35mm aperture cards will be necessary. Hopefully, only modifications of available EAM items will meet this requirement. Further study will be necessary.

Equipment for automated storage and retrieval of Mil-D aperture cards is being built to handle engineer drawing systems, e.g., Redstone Arsenal. Study during the next few years of the rate of use of aperture card files established by D/GL will determine how far we can go in this equipment area. At present, justification is lacking, and costs are prohibitive.

Consideration will be given during FY 1966 to sharing or leasing at least semiautomated card mounting equipment. This requirement will be determined by the rate of filming. At present, manual card mounting can be done at a pace compatible with the filming rate.

c. CHIVE

Several meetings have been held with CHIVE personnel in the past six months to investigate possible D/GL input for the CHIVE system. ISC and D/GL subject and area coding systems have been studied, and mutually acceptable means for achieving compatibility have been reached. Requirements for data handling support and equipment will necessarily be determined by CHIVE at such time as D/GL input is to be seriously considered.

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