

IC Staff

DIRECTOR OF CENTRAL INTELLIGENCE
Intelligence Information Handling Committee
WASHINGTON, DC 20505

17 JAN 1984

IHC/MM 84-04
13 January 1984

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MEMORANDUM FOR: Geographic Information Systems
Subcommittee Members

FROM: [Redacted]
Chairman, Intelligence Information
Handling Committee

SUBJECT: Intelligence Community Requirements
for Video Disc Maps

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1. Attached for your comments and coordination is a preliminary draft of Intelligence Community requirements for video disc maps. The areas of coverage and map types specified in the draft include initial White House (NSC) requirements, as sent to DMA for implementation, and Watch Office (WAOCC) requirements, as determined by our analysis of information provided by WAOCC Working Group members. Proposed fields of view and overlap are adapted from microfix standards as applicable. This proposal is based on the theory that, if accepted and implemented, others could easily and at substantial cost savings utilize the discs produced under this White House project.

2. This preliminary draft is also being sent to the NSC staff and to members of the WAOCC Working Group and the IHC's Geographic Information Systems Working Group for their comments and coordination. Based upon all responses, the proposal will be revised and formally submitted to the NSC and DMA. It is our hope that we can work with NSC and DMA to identify an agreed upon set of requirements which would satisfy both White House and Intelligence Community requirements.

3. Also included for your review and comments is a list of definitions and a set of strawman standards proposed for video disc production. Please reply on these items by COB 31 January 1984 to IC Staff, Intelligence Information Handling Committee, [Redacted] If you have any questions, contact [Redacted] or myself on [Redacted] (secure). Your help and cooperation is greatly appreciated.

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4. Finally, [redacted] is also drafting a report on the technical aspects of video disc production. It will address those items (technical background; production issues; production standards and evaluation; index production) which were discussed at the 6 January meeting. This report will make recommendations and pose some issues regarding aspects of some of the standards proposed in the draft requirements document attached herewith. This will be forwarded to you as soon as possible after it is completed and received by me, and should be considered in connection with your comments.

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Attachments: a/s

Distribution:

- Orig - GISS Members
- 1 - ICS Registry
- 1 - IHC/MM
- 1 - IHC Subject (EJR)
- 1 - IHC Chrono

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ICS/IHC [redacted] (13 Jan 84)

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Preliminary Statement of
IHC Requirements for Video Discs
Containing Map Images

1. This preliminary statement of requirements for video discs containing map images identifies:

a. The required areas of map coverage in terms of general area, country, and high interest subareas; this operational requirement does not take into consideration actual map availability.

b. The scale and type of maps (or equivalents if the specified series is not available) required for each area.

c. Additional characteristics required.

2. Map Areas.

Attachment 1 lists the required areas of map coverage in priority order; it is a refinement and expansion of the list previously submitted by the White House. An underline under a name indicates that it is an addition to the White House list, the requesting agency is listed to the right. Where a country name is surrounded by parenthesis, detailed coverage is desired only for the associated high interest subarea(s). The requirements were identified and/or validated by the Office of the Geographer, Department of State (DOS); the Geographic Information Center, National Security Agency (NSA); the Central Intelligence Agency; and the National Military Command Center (NMCC), Office of the Joint Chiefs of Staff. The additions recommended by DOS are designed primarily to cover areas of existing boundary disputes, previous military conflicts, or diplomatic confrontations with a potential for future conflict, as well as areas within major US cities critical to the Soviet Travel Restriction Enforcement Program. Those additions recommended by CIA cover other potential problem areas. The additions recommended by the NMCC are principally for larger areas, including ocean areas, not covered otherwise. NSA accepted the White House list without change.

3. Type and Scale of Coverage.

The general requirement for maps, without regard to specific map availability, is as set forth below.

a. Areas of Specific/Special Interest.

(1) Cities

- (a) Working maps - best scale e.g. 1:6,000 (photo adjusted to a standard zoom level) and keyed to orientation map
- (b) Orientation - graphic or city outline from larger scale map

(2) Borders

- 1:50,000 keyed to country overview map and country area map(s) if provided on disc

(3) Ports

- (a) Harbor chart - best available and keyed to the approach chart (photo, adjusted to standard zoom level)
- (b) Approach chart - best available showing surrounding areas

(4) Roads

- commercial highway maps keyed to country/regional maps

(5) Other Special Interest

- 1:50,000 or best available.

b. Country Maps

(1) Orientation

- Graphic with capital city and 2-3 major cities, key LOCs, and names of bordering countries

(2) Area/working maps

- 1:250,000 JOG keyed to country map
- 1:500,000 TPC keyed to country map

(3) Special

- 2-3 CIA economic, transportation, or cultural maps per country.

c. Regional Maps

(1) Orientation

- Graphic showing general area, political boundaries, country names, and large bodies of water

(2) Overview

- Terrain map or shaded relief map on the order of 1:7,500,000.

d. Continents/Oceans

(1) Orientation

- Graphic with outlines of countries and land masses (and possible country and ocean names)

(2) Overview

- Terrain map or shaded relief map on the order of 1:25,000,000.

4. Additional Characteristics.

a. Coordinate System

- (1) The latitude/longitude grid coordinate system will be used.
- (2) In areas of actual or potential US troop involvement, 1:50,000 scale maps will carry a UTM grid if available.

b. Fields of View and Overlap

The following standardized (MICROFIX compatible) fields of view and horizontal and vertical step factors are required for each map scale as shown. The step factors determine overlap.

<u>Level</u>	<u>Map Scale</u>	<u>FOV</u>	<u>HS</u>	<u>VS</u>
1	(TBD)			
2	City map (adjusted)	3X2.5	2	1.5
3	1:50,000	8X6	6	4
4	1:250,000	15X11.25	4	5
5	1:500,000	40X30	10	10
6	Country graphic (1:500,000)	100X75	20	15
7	" "	200X150	40	30
8	Regional graphic (1:1,000,000)	(TBD)		
9		(TBD)		
10	Continent graphic (TBD)			
11	Special/CIA (TBD)			
12	(TBD)			

LEGEND: FOV = Field of view (in kilometers)
 HS = Horizontal step factor (in kilometers)
 VS = Vertical step factor (in kilometers)
 TBD = To be determined

MAP AREAS DESIRED
IN
PRIORITY ORDER

<u>GENERAL AREA</u>	<u>COUNTRY</u>	<u>HIGH INTEREST SUBAREA</u>	<u>ADDED BY</u>	
Central America #	El Salvador	San Salvador Border Areas Port Areas		
	Nicaragua	Hondoras Border Port Areas		
	Honduras			
	Costa Rica	Nicaragua Border		
	Guatemala	Border Areas		
	Panama	Canal Zone Panama City Colon		
	South America #	Columbia	Port Areas	
		Peru	Port Areas	
			<u>Ecuador Border</u>	(STATE)
			<u>Chile (Bolivian Corridor to Sea)</u>	(STATE)
Chile		Port Areas		
<u>Argentina</u> (CIA)		<u>Beagle Channel Area</u>	(STATE)	
<u>(Guyana)</u>		<u>Border with Surinam and Venezuela</u>	(STATE)	
Caribbean	<u>Surinam</u>		(CIA)	
		Port Areas		
	Cuba	Havana Guantanamo Port Areas		
	Grenada			
	<u>Jamaica</u>		(CIA)	

Middle East	Lebanon	Beirut	
		Syrian Border	
	Syria	Lebanon/Jordan	
		<u>Greater Damascus</u>	(STATE)
		<u>Area</u>	
	Israel	Tel Aviv	
		Jerusalem	
		Lebanon Border	
		Syrian Border	
		<u>West Bank</u>	(STATE)
	<u>The Yemens</u>	(CIA)	
	<u>Saudi Arabia</u>	(CIA)	
	<u>Turkey</u>	(CIA)	
North Africa	Egypt	Salum	
		Cairo	
		Sinai	
		Gaza Strip	
	Libya	Jarabub (Jabhbub)	
		Gulf of Sidra	
		Tripoli	
	Egyptian Border		
	<u>Chadian Border</u>	(STATE)	
Persian Gulf	Sudan		
	Iran/Iraq	Border Areas	
		Kuwait Border	
		Abadan	
		Oil Fields in	
		Southern Areas	
		Tehran	
		Baghdad	
		Basra	

South Atlantic	Falkland Islands		
Asia #	Korea		
	<u>(Pakistan/India)</u>	<u>Border Areas of</u>	(STATE)
		<u>Cease-fire Line</u>	
South East Asia	Thailand/Laos/Kampuchea	Border areas with	
		Roads	
	Vietnam	Chinese Border	
Europe #	Greece	Athens	
	Poland		
Persian Gulf	Afghanistan	Kabul	
		Northern Pakistan	
		Border	
		Mountains North and	
		West of Kabul	
Other	China	Russian Border Points	
		(Roads)	
		India Border Points	
		(Roads)	
	Germany	Berlin	
		Polish Border	
	Taiwan	Taipei	
	United States #	Florida	
		Miami	
		New Orleans	
		New York City	
		Seattle	
		Mississippi Delta	
		Washington D.C.	
		California	
		Los Angeles	
		San Diego	
		Border with Mexico	
		Texas	
		Border with Mexico	

Other (Continued)

New Mexico

Border with Mexico

Arizona

Border with Mexico

Soviet Travel Restriction

Areas

(STATE)

New York

Washington D.C.

San Francisco

Cyprus

Nicosia

Spain

Madrid

Philippines

Manila

Luzon Islands

Singapore

Sumatra

Hong Kong

Malaya

Kuala Lumpur

Sri Lanka

India

New Delhi

Puerto Rico

Haiti

Santa Domingo

Africa #

Pacific Ocean #

Indian Ocean #

South West Asia #

World #

Key Cities #