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EVALUATION OF TRANSPORTATION MAPS OF INDOCHINA



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4. Pilotage Charts—1:500,000, U.S. Air Force
5. Carte Routière de l'Indochine—1:400,000
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7. Aeronautical Approach Charts—1:250,000, U.S. Air Force
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INTRODUCTION

The maps described in this report have been selected as the best and most recent maps of Indochinese transport facilities that are available in Washington, D.C. The maps provide detailed coverage of all phases of transportation in Indochina, but are deficient in one respect. They reflect little of the great amount of deterioration incurred by all types of transport since the beginning of warfare between the French and Vietnamese.

Section I, which deals with the transportation network in general, describes and evaluates maps showing more than one type of transportation. In Sections II to V, transportation is broken down into its component parts—roads, railroads, air transport, inland waterways, and ocean waterways. Each section includes: (1) a summary of maps available and their respective merits; and (2) a listing by scale of all maps recommended, with accompanying descriptions that include area covered, scale, date, language, transportation data shown, other data shown, and publishing authority. At least one place where each map can be found is mentioned, and for most maps library call numbers are given. Pertinent information that is not apparent from other columns, and brief comparisons between maps on related topics are included in the column headed "Remarks".

Most of the maps listed include as background material major towns, main drainage features, and the boundaries of the five major political divisions of French Indochina. Unless indicated to the contrary in the "Other Data" column, all maps have coordinates with longitude measured from Greenwich. A few of the maps have geographic coordinates based on the Centesimal System, in which the circumference of the earth is divided into 400 parts (grads).*

Detailed index maps are given for the most important map sets, and a list of the abbreviations used in the report is appended.

Usable black and white reproductions of many of the maps listed as "file copies" may be obtained from the Map Branch, CIA.

Maps that are classified Restricted or Confidential are so labelled in the "Remarks" column.

*To convert grads to degrees, multiply the number of grads by 0.90. Complete conversion tables can be found in *Conversion Tables, Centesimal to Sexagesimal and Sexagesimal to Centesimal*, Army Map Service, Key No. 204244. On all maps mentioned in this report that use the Centesimal System longitude is measured from Paris, which is 2°20'14" E. of Greenwich.

I. GENERAL TRANSPORTATION MAPS

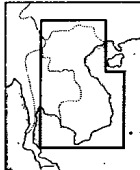
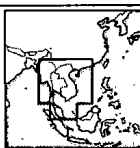
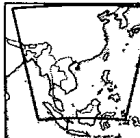
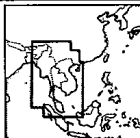
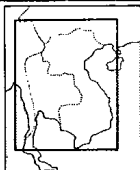
Maps in this section show inter-relations among the major transportation features of Indochina, but no one map adequately shows all types of transportation for the area it covers. Although all of the maps deal with more than one method of transport, most show only roads and railroads and give no indication of the role of waterways or airways in the transportation complex. Single-sheet maps of the whole country or of parts of the country, and set maps showing transport in greater detail by smaller areas are included. Detailed maps of specific types of transportation are listed in the corresponding topical sections of the report.

Map 1 serves as an introduction to the subject of transportation. Although it is highly generalized, the map presents vividly the best routes of access to significant areas. The best single-sheet map of roads and railroads is Map 7, which is excellent in practically all respects. Map 8 is almost equally good, although not as recent. Map 9 is similar to 8, but also includes ocean waterways and ports. On Map 5 some of the detail is incomplete, but the map is available in quantity. Map 10 is both accurate and clearly presented, but gives less background material than 5, 7 and 8. Roads, railroads, railroad facilities, canals, and ports are shown on Map 6, but it is superior to others only in its presentation of relationships among these features. Maps 4, 3, and 2 are more generalized single-sheet maps of the whole

country. Map 4 is included only because it shows the chief ocean waterways of Indochina on a general base. On Maps 2 and 3, the major transport routes in southeastern Asia are excellently presented. In general, Map 2 is the better, but Map 3 shows relief and connecting routes between Indochina and China.


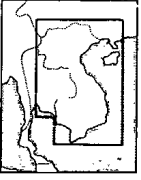
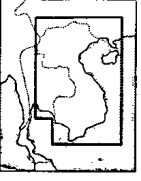
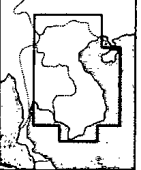
Maps 15, 21, and 17 are regional maps of parts of Indochina. Map 15 covers the Tonkin and Cochinchine deltas; 21 is an effective wall map of the Tonkin delta that includes inland and ocean waterways; and 17 is a good map of Cambodia. Map 11 supplements the preceding maps by indicating areas of transport difficulty in northern Indochina during flood seasons.

The remaining maps are topographic sets at scales ranging from 1:1,000,000 to 1:100,000. Of these, Map 18 at 1:400,000 is the clearest and most comprehensive. Air facilities are given on Maps 13, 16, and 20 at 1:1,000,000, 1:500,000, and 1:250,000, respectively. Map 14 is a 1:1,000,000 wall map. Coverage at 1:25,000 also is available for parts of Indochina and may be obtained in the Map Branch, CIA, and in the Library, Army Map Service. Such maps are not included in this report since they are of interest chiefly for specialized studies of small areas.

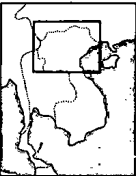

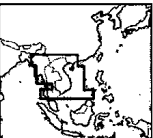

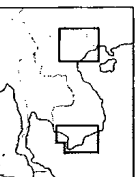
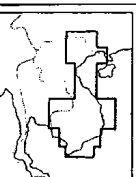
TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	TRANSPORTATION DATA	OTHER DATA	REMARKS	AVAILABILITY (Q... in quantity)
1. Indochina, Routes to Significant Areas, from Indochina, JANIS 70, Chapter 1, Fig. I-29		1:5,500,000	Joint Intelligence Study Publishing Board 1945	Best routes, less advisable routes	Significant areas Relief: passes, with elevations in feet	Highly generalized; routes located schematically but presentation is vivid <i>RESTRICTED</i>	IR/R, State, Call No. 910/2803/70 Negatives available at Map Branch, CIA
2. Selected Routes Across the Indochinese Peninsula		1:5,000,000	State 10600 1947	Roads: all weather, limited all weather, fair weather, fair weather cart tracks, caravan trails Railroads Water routes	Relief: inset with pictorial shading	Clearly drawn general map; roads slightly generalized; only water route indicated for Indochina is of minor importance	Q - Map Branch, CIA
<i>Also listed in Section II</i>							
3. Terrain and Transportation (2 sheets) a. China b. Southeast Asia		1:5,000,000	a. OSS 2495 b. OSS 2422 1944	Roads: principal or connecting, trails Railroads	Pictorial relief shading	Not as comprehensive as Map 2, but good presentation of transportation in relation to terrain, and of connecting routes with China	Q - Map Branch, CIA
<i>Also listed in Section II</i>							
4. Burma, Malaya, and Indo-China		1:4,000,000	The Edinburgh Geographical Institute; John Bartholomew & Son 1942	Roads: primary, secondary, caravan trails Railroads Ocean waterways: routes, distances	Numerous towns Relief: layer tints, spot heights	General map; road network out of date	File copy, Map Branch, CIA, Call No. H500-10, 10040
<i>Also listed in Section VI</i>							
5. Indo-China and Thailand, Special Strategic Map		1:3,000,000	AMS 1945	Roads: primary, secondary Railroads	Towns: 4 classes Relief: generalized hachures, spot heights	General map; somewhat incomplete; road network generalized; delineation of international boundary inconsistent, part being pre-1941 and part post-1941	Q - AMS

Also listed in Section II


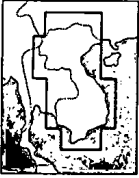
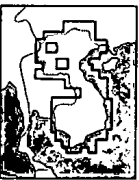
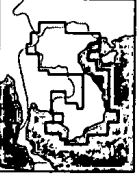
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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	TRANSPORTATION DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
6. French Indo-China, Transportation		1:2,800,000	Assistant Chief of Air Staff, Intelligence 1944	Roads: main highways Railroads, principal railroad bridges, railroad facilities Canals Principal ports	—	Preferable to other general maps only when a particular combination of features is desired <i>RESTRICTED</i>	File copy, Map Branch, CIA, Call No. H501-32, 32028
<i>Also listed in Section III</i>							
7. Carte Générale de l'Indochine Française		1:2,000,000	Institut Géographique National, [France] 1945	Roads: colonial and local, metalled and non-metalled, paths Railroads Canals	Numerous towns Relief: shading, spot heights Province boundaries	Best single-sheet transportation map available; complete and accurate within limits of scale In French	File copy, Map Branch, CIA, Call No. H501-32, 37935
<i>Also listed in Section II</i>							
8. Réseau Routier de l'Indochine		1:2,000,000	Service Géographique de l'Indochine 1938	Roads: metalled and non-metalled, trails, distances, route numbers, road bridges, ferries Railroads River ports, distances from ports to sea	Numerous towns Relief: layer tints, spot heights Province boundaries Coordinates in grads, longitude based on Paris meridian	Very clearly drawn; also as comprehensive as Map 7 In French; photocopy in English	File copies, Map Branch, CIA, original; Call No. H501-32, 32928; photocopy; Call No. H501-28, 4253
<i>Also listed in Section II</i>							
9. Map of French Indo-China		1:2,000,000	Service Géographique de l'Indochine 1938	Roads: metalled, non-metalled, important paths Railroads Ocean waterways: routes Three classes of ports	Towns: 4 classes Relief: areas above 500 meters in elevation, spot heights Agricultural land use: 5 classes Province boundaries Coordinates in grads, longitude based on Paris meridian	Similar to Map 8	File copy, Map Branch, CIA, Call No. H501-27, 270
10. French Indo-China, Transportation Routes		1:1,750,000	Board of Economic Warfare 1005 1945	Roads: asphalt, metalled, dry weather; route numbers of principal federal highways Colonial routes Ferries Railroads	—	Compares favorably with maps 7 and 8; insets of Hanoi and Saigon areas	File copy, Map Branch, CIA, Call No. H501-32, 500172
<i>Also listed in Section II</i>							

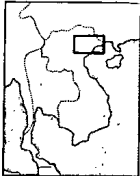
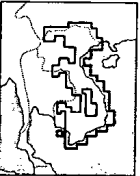
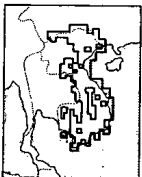
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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	TRANSPORTATION DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
11. Flood Conditions During Rainy Season in Northern French Indochina, from <i>Military Topographical Study of Northern French Indochina</i> , Documents Branch Translation 78 and Japanese original, Vol. III, map 4		1:1,500,000	Japanese Southern Army, General Headquarters 1944	Use of highways and navigability of waterways during rainy season	Area flooded more than 1 m., area flooded less than 1 m. but more than 30 cm., area flooded less than 30 cm.; specific depths in selected localities	In Japanese with English translation. Translated overprint on untranslated base; overprint is somewhat roughly drafted but clear <i>CONFIDENTIAL</i>	Foreign Documents Branch, CIA, Doc. 150087 (original) and Translation 78
<i>Also listed in Sections II and V</i>							
12. Asia 1:1,000,000 (10 sheets) See index map, Fig. 1		1:1,000,000	AMS 1301 Various dates: 1942-1945	Roads: 1st, 2nd, 3d class; road bridges and tunnels Railroads, stations, railroad bridges and tunnels	Numerous towns: 3 classes Relief: Layer tints, contours, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; little choice between this and Map 13; in some places 1st and 2nd class roads are not clearly differentiated	Q - AMS
<i>Also listed in Sections II, III, and V</i>							
13. World Aeronautical Charts (AP Regional) (11 sheets) See index map, Fig. 2		1:1,000,000	Aeronautical Chart Service, USAF Various dates: 1943-1948	Roads: primary, secondary, trails; route numbers; road bridges and tunnels Railroads, railroad bridges and tunnels Airfields and facilities: detailed classification Canals	Numerous towns: 6 classes Relief: contours or form lines, layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; little choice between this and Map 12	Q - ACS
<i>Also listed in Sections II, III, IV, and V</i>							
14. Carte Administrative de l'Indochine (9 sheets)		1:1,000,000	Service Géographique de l'Indochine [post-1936]	Roads: metalled (all weather), non-metalled (dry season), important paths Railroads	Numerous towns Province boundaries Coordinates in grads, coordinate stubs in degrees, longitude of both based on Paris meridian	Wall-type map; other 1:1,000,000 sets are recommended more highly in French	File copy, Library, AMS, Call No. 2L 1-28-3301-3000 (A 1947)
<i>Also listed in Section II</i>							
15. Carte Routière des Deltas du Tonkin et de la Cochinchine		1:1,000,000	Service Géographique de l'Indochine 1929	Roads: metalled, dry season, carriage tracks, paths; distances; route numbers; road bridges; ferries Railroads	Province boundaries No coordinates	Although relatively old this map is not out-dated since there have been few recent changes in transport patterns in the delta areas in French	File copy, Map Branch, CIA Call No. HCO1-32, 32825
<i>Also listed in Section II</i>							
16. AF Pilotage Charts (AP Sectional) (24 sheets, 14 available) See index map, Fig. 4		1:500,000	Aeronautical Chart Service, USAF Various dates: 1945-1948	Roads: primary, secondary, trails; route numbers; road bridges and tunnels Railroads, railroad bridges and tunnels Airfields and facilities: detailed classification Canals	Numerous towns: 6 classes Relief: contours, form lines or hachures; layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; Map 16 presents better road information	Q - ACS
<i>Also listed in Sections II, III, IV, and V</i>							

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	TRANSPORTATION DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
17. Carte Administrative du Cambodge		1:500,000	Compiled by the Service de Cadastre et de la Topographie; printed by Imprimerie d'Extrême-Orient, Hanoi 1937	Roads: metalled, earth, paths Railroads	Provinces, stroks, and their capitals No coordinates	In French	File copy, Library, AMS, Call No. 22L 1-28-35038-300
<i>Also listed in Section II</i>							
18. Carte Routière de l'Indochine (25 sheets) See index map, Plg. 5		1:400,000	Service Géographique de l'Indochine; reprinted by the Institut Géographique National, [France] and by the Japanese Army, General Staff Various dates: 1939-1945	Roads: colonial, provincial, local, coronal; metalled, non-metalled, paths, trails; Distances; route numbers; road bridges; ferries Railroads: standard gage, mine and lumber lines; stations; railroad bridges and tunnels Canals	Numerous towns: 4 classes Relief: contours, shading, or hachures; spot heights Province boundaries Numerous other cultural features Coordinates in grads, longitude based on Paris meridian	Very clear presentation, detailed set; best operational road map of Indochina; most comprehensive presentation of road authorities and route numbers The legend in many cases is split between adjoining sheets; authorities cannot be differentiated on IGN reprint; Japanese reprint is poor and is mentioned and indexed only because SGI sheets for some of the areas are not in Map Branch, CIA In French; IGN reprint with English legend; Japanese reprint with Japanese legend	File copies, Map Branch, CIA, Call Nos.: SGI set, H501-28, 2888; IGN set, H501-28, 22488; Japanese set, H501-30, uncatalogued File copies, Library, AMS, Call Nos.: 3-29-35001-400; Japanese set, 2L 3-29-31008-400
<i>Also listed in Sections II, III, and V</i>							
19. Indo-China 1:253,440 (99 sheets, almost all available) Border sheets included from adjoining AMS sets; see index map, Plg. 9		1:253,400	AMS I604 (Reprint of HIND 10B1) Various dates: 1942-1947	Roads: all weather, fair-weather, unclassified, pack-trails; foot-paths; distances; colonial route numbers; road bridges Railroads: meter-gage, light-gage or tramways; stations; railroad bridges Canals	Numerous towns Relief: contours, form lines, spot heights Province boundaries Numerous other cultural, hydrographic, and topographic features British military grid; magnetic declination	Detailed; about equal in quality to Map 20; road classification is slightly better on Map 19, but Map 20 shows road alignments more accurately <i>RESTRICTED</i>	Q - AMS
<i>Also listed in Sections II, III and V</i>							
20. AF Aeronautical Approach Charts (70 sheets, 59 available) See index map, Plg. 7		1:250,000	Aeronautical Chart Service, USAF Various dates: 1943-1948	Roads: primary, secondary, trails; route numbers; road bridges and tunnels Railroads, railroad bridges and tunnels Airfields and facilities; detailed classification Canals	Numerous towns: 6 classes Relief: contours, form lines or hachures; spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; little choice between this and Map 19 (see above)	Q - ACS
<i>Also listed in Sections II, III, IV, and V</i>							

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	TRANSPORTATION DATA	OTHER DATA	REMARKS	AVAILABILITY (...in quantity)
21. Delta du Tonkin, Carte 45. Cartes murales Vidal- Lablache		1:250,000	Compiled by Henri Russier; printed by Librairie Armand Colin, Paris [ca. 1942]	Roads Railroads or tramways (no distinction) Inland waterways: limits of high water navigation Ocean waterways: routes	Towns: 3 classes Relief: layer tints, spot heights Agricultural land use Longitude based on Paris meridian	Wall-type map; road network is incom- plete and roads shown are not in all cases the main roads In French	File copy, Map Branch, CIA, Call No. H501e-27, 32394
22. Carte de l'Indochine (about 450 half-sheets, approxi- mately 300 available)		1:100,000	Service Géographique de l'Indochine Various dates: 1899-1944 Almost half are 1940 or later; about one-third are 1930-39; very few are pre- 1925 Most of the more recent sheets are available only at AMS	Roads: colonial and pro- vincial all weather and dry weather roads, mule trails, paths; road bridges of several classes; ferries, fords Railroads, tramways, stations, railroad bridges of several classes Inland waterways: waterfalls, rapids, dams, navigable and irrigation canals, locks	Numerous towns: 5 classes Relief: contours or hachures, shading, spot heights Province boundaries Numerous other cultural, hydrographic, and topo- graphic features Coordinates in grads, longitude based on Paris meridian	Basic topographic set of Indochina; extremely detailed in French	File copy, Library, AMS, Call No. 2L 3-30-35001-100 File copy, Map Branch, CIA, Call No. H501-30, 500106
<i>Also listed in Sections II, III, and V</i>							
23. Indo-China 1:100,000 (about 450 half-sheets, approxi- mately 250 available)		1:100,000	HIND 1000 Various dates: 1942-1945	Roads: metalled, non- metalled, trails, foot- paths; road bridges Railroads, tramways, rail- road bridges Canals: navigable, irri- gation	Numerous towns Relief: contours or hachures, spot heights Province boundaries Numerous other cultural, hydrographic, and topo- graphic features British military grid; geo- graphic coordinates in grads, longitude based on Paris meridian; geographic co- ordinate stubs in degrees, longitude based on Green- wich meridian; magnetic declination	Highly detailed; Map 22 used as source; road classification somewhat confusing; several sheets are later in date than corresponding sheets of Map 22, but few changes have been made	File copy, Library, AMS, Call No. 2L 22-30-83000-100 File copy, Map Branch, CIA, Call Nos.: H501-30, 500107 and 24427
<i>Also listed in Sections II, III, and V</i>							

11. ROAD MAPS

Detailed road maps of Indochina are abundant, but the coverage now available does not reveal road damage caused by current hostilities between the French and Vietnamese. Reports from Indochina indicate that the destruction has been extensive; many bridges have been damaged and are either not functioning or only crudely repaired; numerous roads have been torn up, mined, or bombed; and other roads have deteriorated through lack of maintenance. Consequently, available maps of the Indochinese road net, though abundant and of excellent quality, are not entirely reliable.

Most of the road maps described below can be divided into two groups: (1) Single-sheet maps that give an over-all picture of the entire country or of one of its major geographic subdivisions, and (2) set maps of the entire country that give greater detail on roads and a larger number of related features, such as towns, railroads, and relief. Some of the single-sheet maps contain the most recent road data.

The best single-sheet road map of Indochina is Map 10, which is detailed, recent, comparatively reliable, and clearly presented, and includes good background information. Map 11 is almost as good as 10, although considerably older. Maps 9 and 14 show little besides roads but are also well drafted and suitable for general use; 9 is available in quantity. Map 12 is an out-dated version of 11, but is the only map accompanied by a table of distances. Although generalized and in some respects incomplete, Map 7 includes railroads and relief indicated by hachures, and is available in quantity. Maps 4 and 5 are excellent presentations of the major roads of Indochina and of their relation to the communication networks of nearby countries. Of the two, Map 4 is the better, but 5 includes terrain and shows road connections with China. Map 1 is an outline map of the main roads of Indochina.

The best single-sheet maps of regions within Indochina are 6, 24, and 27. Map 6 is a clearly drawn map of the road network and road distances in the area between Saigon and Angkor, and Maps 24 and 27 cover the Tonkin and Cochinchine deltas and Cambodia, respectively.

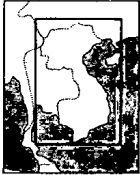
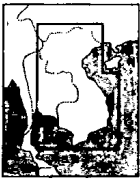
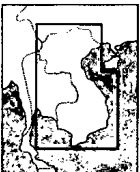
Several other single-sheet maps containing recent detailed information are of limited use because of poor drafting or reproduction. Of these, Maps 8, 15, and 16, provide some of the latest information available; Map 25 gives details not found elsewhere for some of the roads of

northern Indochina. A map similar to 25, covering southern Indochina, appears in *Military Topographical Study of Southern Indochina*, Japanese Southern Army, General Headquarters, August 1944. The original and an English translation are available in Foreign Documents Branch, CIA (Doc. 158688 and Translation 149 CONFIDENTIAL).

A few additional maps furnish valuable supplementary data. Map 2 indicates soil trafficability; Map 3 locates fords; Map 13 shows the geological structure of Indochina; and Map 17 gives the conditions of highways in northern Indochina during the rainy season.

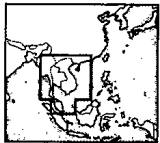



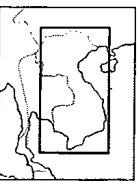
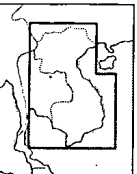
The best of the set maps covering Indochina is Map 23, an exceptionally legible and comprehensive road map at 1:400,000. Additional details at 1:400,000 are provided by the maps in Item 29, which covers some of the major roads of northern Indochina. Maps similar to those in Item 29, covering southern Indochina, appear in the Japanese military topographical study previously mentioned. A number of sets provide detailed road coverage at other scales. Of the five sets at 1:1,000,000, Maps 19 and 20 are the most useful. Although many of the sheets of Map 21 are out of date, this set is the best 1:1,000,000 source for road alignments and classifications. Map 22 is useful as a wall map; and Map 23 provides data on load capacity, which are not available elsewhere. The 1:500,000 set listed, Map 26, does not provide complete coverage of Indochina and is not so good as the 1:400,000 set mentioned above, but is available in quantity. Maps 30 and 31 at 1:253,440 and 1:250,000 provide almost complete coverage at both scales, are about equal in quality, and are of adequate reliability for most purposes. Map 32 at 1:250,000 is better than either, but covers only a small, useful portion of the country. Map 33 at 1:250,000, which also covers a very small part of the country, is useful only for checking road alignments. The basic topographic set of Indochina is Map 34 at 1:100,000; Map 35 is an English-text copy of it; and Maps 36, 37, and 38 at 1:100,000 provide a little additional material for a few small areas. Topographic coverage of parts of Indochina is available at 1:25,000 in the Map Branch, CIA, and the Library, Army Map Service. The great detail that such maps provide would probably be required only for specialized studies of small areas.

Of the two remaining items listed, 18 gives a few elevation profiles and 39 gives details of several ferry crossings. Similar maps covering southern Indochina appear in the Japanese military topographical study previously mentioned.

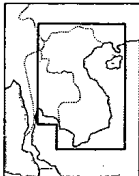
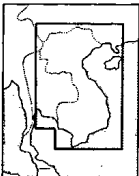
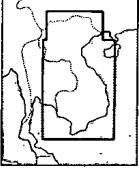
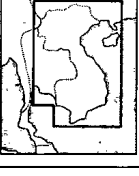
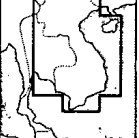
TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q... in quantity)
1. The Routes Coloniales and other main roads, from Indo-China, BR 510, Fig. 135, p. 411		1:11,000,000	British Admiralty Naval Intelligence Division, 1943 (information as of 1938)	Roads: all weather, dry season Route numbers	No coordinates	Outline map emphasizing main roads RESTRICTED	LR/R, State, Call No. 910/72800/70 Negatives available in Map Branch, CIA
2. Indochina, Soil Trafficability, from Indochina, JANIS, 70, Chapter 1, Fig. 1-27		1:5,000,000	Joint Intelligence Study Publishing Board 1945	Ten classes of soils grouped according to trafficability	Detailed hydrographic pattern	RESTRICTED	LR/R, State, Call No. 910/72800/70 Negatives available in Map Branch, CIA
3. Indochina, River Barriers, from Indochina, JANIS, 70, Chapter 1, Fig. 1-25		1:5,000,000	Joint Intelligence Study Publishing Board 1945	Rivers not fordable at low water, rivers possibly fordable at low water	Heads of navigation for junks Relief: pictorial shading	RESTRICTED	LR/R, State, Call No. 910/72800/70 Negatives available in Map Branch, CIA

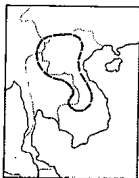
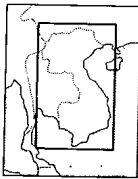
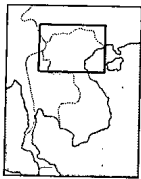
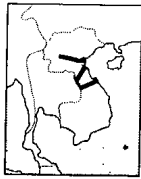

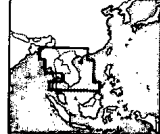
Also listed in Section V



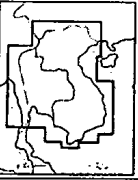
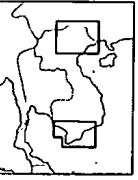
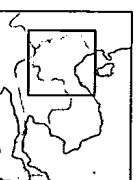
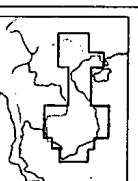
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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
4. Selected Routes Across the Indochinese Peninsula		1:5,000,000	State 10800 1947	Roads: all weather, limited all weather, dry season, dry season cart trails, caravan trails	Railroads Water routes Relief: inset with pictorial shading	Clearly drawn presentation of main roads; slightly generalized	Q - Map Branch, CIA
<i>Also listed in Section I</i>							
5. Terrain and Transportation (2 sheets) a. China b. Southeast Asia		1:5,000,000	a. OSS 2495 b. OSS 2422 1944	Roads: principal or connecting, trails	Railroads Relief: pictorial shading	Not so complete as map 4, but good presentation of main roads in relation to terrain, and of route connections with China	Q - Map Branch, CIA
<i>Also listed in Section I</i>							
6. From Sai-gon to Angkor, from Indochina, [Guides] Madrolles, p. 55		1:3,500,000	Société d'Éditions Géographiques, Maritimes et Coloniales, Paris 1939	Roads Distances	—	Clearly drafted and printed	Library, AMS, Call No. DES25, M17, 1939
7. Indo-China and Thailand, Special Strategic Map		1:3,000,000	AMS 1945	Roads: primary, secondary	Railroads Towns: 4 classes Relief: generalized hachures, spot heights	General presentation; some omissions and inaccuracies; road network generalized; international boundary inconsistent — part being pre-1941 and part post-1941	Q - AMS
<i>Also listed in Section I</i>							
8. Indo-China, Road Corrections		1:3,000,000	[OSS] D [Cshl] A 4545 [Ca. 1945]	Roads: primary, secondary	Railroads Towns: 4 classes Relief: generalized hachures, spot heights	Corrected copy of Map 7; useful research source	File copy, Map Branch, CIA Call No. 4545
9. Indochina, Roads		1:2,500,000	OSS 9104 1945	Roads: asphalt, other improved (usually all weather), selected unimproved non-metallic roads or cart trails (usually dry season only), selected animal tracks or foot paths Colonial route numbers	—	Good general presentation; not so detailed as Maps 10 and 11	Q - Map Branch, CIA

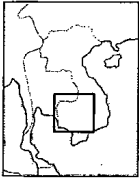
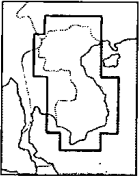
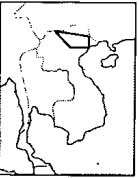
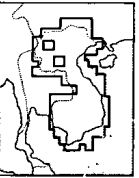
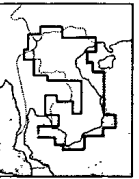
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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
10. Carte Générale de l'Indochine Française		1:2,000,000	Institut Géographique National, [France] 1945	Roads: colonial and local, metalled and non-metalled, paths	Railroads Canals Numerous towns Relief: shading, spot heights Province boundaries	Best single-sheet road map; complete, accurate within limits of scale In French	File copy, Map Branch, CIA, Call No. H501-32, 37035
<i>Also listed in Section I</i>							
11. Réseau Routier de l'Indochine		1:2,000,000	Service Géographique de l'Indochine 1938	Roads: metalled, non-metalled, trails Distances Route numbers Bridges, ferries	Railroads River ports, distances from ports to sea Numerous towns Relief: layer tints, spot heights Province boundaries Coordinates in grads, longitude based on Paris meridian	Very clearly drawn; almost as comprehensive as Map 10 In French; photocopy in English	File copy, Map Branch, CIA, Call No. H501-32, 32826
<i>Also listed in Section I</i>							
12. Carte Routière de l'Indochine		1:2,000,000	Goodrich; Etablissements Galliao-Mouroco et Cie., Paris [pre-1935]	Roads: automobile Comprehensive table of distances Ferries	Railroads No coordinates	Distance table is only unique feature; map is otherwise outdated, incomplete version of Map 11 In French	File copy, Library, AMS, Call No. ZL 1-24.2-85185-000
13. Carte Géologique de l'Indochine Française		1:2,000,000	Compiled by Chef du Service Géologique de l'Indochine; printed by the Service Géographique de l'Indochine 1937	Roads: main dry weather	Geological outcrops: 22 classes Railroads Province boundaries Coordinates in grads, longitude based on Paris meridian	Good supplementary material; geologic data are very clearly presented; some transportation data are difficult to read In French	File copy, Map Branch, CIA, Call No. H501-12, 12254
14. French Indo-China, Transportation Routes		1:1,750,000	Board of Economic Warfare 1945	Roads: asphalt, metalled, dry weather Route numbers of principal federal highways (colonial routes) Ferries	Railroads	Compares favorably with Maps 9, 10, and 11; insets of Hanoi and Saigon areas	File copy, Map Branch, CIA, Call No. H501-32, 300172
<i>Also listed in Section I</i>							

	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
15. Roads in French Indo China		—	Copy of map borrowed from French Military Mission, 1945	Roads: metalled and non-metalled, principal paths	—	Sketchy and somewhat difficult to read; useful re-search source in French	File copy, Map Branch, CIA, Call No. HSO1-28, 3229
16. F. I. C. Roads		1:1,500,000	ID4 Inf. Div. Hq. SACSEA 1945	Roads: metalled, non-metalled, trails Ferries	No drainage No coordinates	Good recent research source; slightly generalized, but fairly complete and accurate; poorly reproduced and in some places difficult to read RESTRICTED	File copy, Map Branch, CIA, Call No. HSO1-28, 19039 Clearer copy of northern portion: Call No. HSO1-28, 17227
17. Flood Conditions During Rainy Season in Northern French Indochina, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. III, Map 4		1:1,500,000	Japanese Southern Army, General Headquarters 1944	Use of highways during rainy season	Area flooded more than 1 m., area flooded less than 1 m. and more than 30 cm., area flooded less than 30 cm.; specific depths in selected small localities Needability of waterways during rainy season	In Japanese with English translation Translated overprint on untranslated base; overprint somewhat roughly drafted, but clear CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 158937 (original) and Translation 78
<i>Also listed in Sections I and V</i>							
18. [Vertical views], from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. I a. Phu Sien [Dien] - Luang Prabang, Map 34 b. Vinh - Nape - Thakhek, Map 35 c. Dong Ha - Savannakhet, Map 36		Various: Vertical, 1:3,000-1:12,500; horizontal 1:1,250,000-1:2,500,000	Japanese Southern Army, General Headquarters 1944	Roads: profiles	Relief: profiles, elevations No coordinates	Somewhat roughly drafted, but legible In Japanese with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 158937 (original) and Translation 78
19. Asia 1:1,000,000 (10 sheets) See index map, Fig. 1		1:1,000,000	AMS 1301 Various dates: 1942-1945	Roads: 1st, 2nd, and 3d class Bridges, tunnels	Railroads, stations, bridges, tunnels Numerous towns: 3 classes Relief: layer tints, contours, spot heights Isogonic lines Numerous other cultural, hydrographic and topographic features	Detailed; little choice between this and Map 20; in some places 1st and 2nd class roads are not clearly differentiated	Q - AMS
<i>Also listed in Sections I, III, and V</i>							
20. World Aeronautical Charts (AP Regional) (11 sheets) See index map, Fig. 2		1:1,000,000	Aeronautical Chart Service, USAF Various dates: 1943-1948	Roads: primary, secondary, trails Route numbers Bridges, tunnels	Airfields and facilities: detailed classification Railroads, bridges, tunnels Canals Numerous towns: 6 classes Relief: contours or form lines, layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; little choice between this and Map 19	Q - ACS
<i>Also listed in Sections I, III, IV, and V</i>							

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q..in quantity)
21. Carte de l'Indochine (18 Sheets) See index map, Fig. 3		1:1,000,000	Service Géographique de l'Indochine Various dates: 1929-1941	Roads: metalled (all weather), non-metalled (dry season), important trails and paths	Railroads Numerous towns: 6 classes Relief: layer tints, contours, form lines, spot heights Province boundaries Coordinates in grads, coordinate stabs in degrees, longitude of both based on Paris meridian	Out-dated by Maps 19 and 20, but is best 1:1,000,000 set for road alignment and surface conditions in French	File copy, Map Branch, CIA, Call No. H501-32, 13827 File copy, Library, AHS, Call No. 2L 3-15-0000-1000
22. Carte Administrative de l'Indochine (9 sheets)		1:1,000,000	Service Géographique de l'Indochine [Post-1906]	Roads: metalled (all weather), non-metalled (dry season), important paths	Railroads Numerous towns Province boundaries Coordinates in grads, coordinate stabs in degrees, longitude of both based on Paris meridian	Wall-type map; fairly complete; other 1:1,000,000 sets are preferable unless exceptional clarity is desired in French	File copy, Library, AHS, Call No. 2L 1-25-3301-1000 (A 1947)
<i>Also listed in Section I</i>							
23. Indo-China and Siam a. Sheet 1 - North b. Sheet 2 - Central c. Sheet 3 - South d. Sheet 4 - West		1:1,000,000	CSSE 4555 1943	Roads: all weather and limited all weather (each divided into 4 classes according to load capacity), dry season: trails	Railroads, tramsways, stations Numerous towns Relief: layer tints, contours Form lines, spot heights	Detailed road classification is confusing; load data available on no other maps RESTRICTED	File copies, sheets 1, 2, 3, Map Branch, CIA, Call No. H500-30, 2441 Sheet 3: Southern Indo-China: Geography, Topography and Climate, 1937, 153B, 1945, pocket; available in Map Branch, CIA, uncataloged
24. Carte Routière des Deltas du Tonkin et de la Cochinchine		1:1,000,000	Service Géographique de l'Indochine 1929	Roads: metalled, dry season, carriage trails, paths Distances Route numbers Bridges, ferries	Railroads Province boundaries No coordinates	Very clearly drawn; although relatively old, this map is not out-dated since there have been few recent changes in transportation patterns of the delta areas in French	File copy, Map Branch, CIA, Call No. H501-32, 32625
<i>Also listed in Section I</i>							
25. Roads of Northern French Indochina, from Military Topographical Study of Northern French Indochina, Documents Branch Translation, 7B and Japanese original, Vol. III, Map B		1:1,000,000	Japanese Southern Army, General Headquarters 1944	Roads: national highways, Colonial routes, auto highways, pack horse trails Distances Colonial route numbers Bridges: 4 classes according to material Ferries: 2 classes and carrying capacity Stream beds, widths, depths velocity, materials	Airfields Numerous towns No coordinates	Good research source; somewhat rough, but legible; annotations on maps give detailed description of features shown; accompanying text in Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 158397 (original) and Translation 7B
26. AF Pilotage Charts (AF Sectional) (24 sheets, 14 available) See index map, Fig. 4		1:500,000	Aeronautical Chart Service, USAF Various dates: 1945-1948	Roads: primary, secondary, trails Route numbers Bridges, tunnels	Airfields and facilities: detailed classification Railroads, bridges, tunnels Canals Numerous towns: 6 classes Relief: contours, form lines or hachures, layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; road information not so good as that on Map 26	Q - ACS


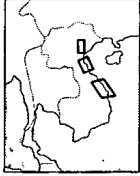

Also listed in Sections I, III, IV, and V

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...In quantity)
27. Carte Administrative du Cambodge		1:500,000	Compiled by the [Indochina] Service du Cadastre et de la Topographie, printed by Imprimerie d'Extrême-Orient, Hanoi 1937	Roads: metalled, non-metalled, paths	Railroads Provinces and provs, with their capitals No coordinate	In French	File copy, Library, AMS, Call No. 221, 1-23-35006-500
<i>Also listed in Section I</i>							
28. Carte Routière de l'Indochine (25 sheets) See index map, Fig. 5		1:400,000	Service Géographique de l'Indochine reprinted by the Institut Géographique National, [Paris], and by the Japanese Army, General Staff Various dates: 1936-1945	Roads: colonial provincial, local, communal; metalled, non-metalled; paths, trails Distances Route numbers Bridges, ferries	Railroads, stations, bridges, tunnels Canals Numerous towns: 4 classes Relief: contours, shading or hachures, spot heights Province boundaries Numerous other cultural features Coordinates in grads, longitude based on Paris meridian	Best operational road map of Indochina; very clear and detailed; best presentation of jurisdiction over roads, and of route numbers The legend is in many cases split between adjoining sheets; road authorities cannot be differentiated on IGN reprints; Japanese reprint is poor and is mentioned only because SGI sheets for some areas are not available in the Map Branch, CIA In French; IGN reprint adds English legend; Japanese reprint adds Japanese legend	File copies, Map Branch, CIA, Call Nos.: SGI set, HDI-29, 2935, IGN set, H503-28, 22438; Japanese set, H501-30, uncataloged File copies, Library, AMS, Call Nos.: SGI and IGN sets, 2L, 3-28-35001-400, Japanese set, 2L, 3-28-31088-400
<i>Also listed in Sections I, III, and V</i>							
29. [Maps of road networks], from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. I a. Hanoi - Cao Bang, Map 16 b. Cao Bang Area, Map 17 c. Lang Son Area, Map 18 d. Tien Yen Area, Map 19 e. Phu Lang Thuong - Dinh Lep, Map 20 f. Bac Ninh - Cam Pha, Map 21 g. Hanoi - Haiphong, Map 23 h. Hanoi - Ha Giang, Map 24 i. Ha Giang Area, Map 25 j. Lao Kay Area, Map 26 k. Lai Chau Area, Map 33		1:400,000	Japanese Southern Army, General Headquarters 1944	Roads: detailed descriptions	No coordinates	Good supplementary research material; somewhat roughly drafted, but clear In Japanese with English translation	For-ign Documents Branch, CIA, Doc 159877 (original) and translation 78
<i>Also listed in Sections I, III and V</i>							
30. Indo-China 1:253,440 (99 sheets, almost all available) Border sheets included from adjoining AMS sets; see index map, Fig. 6		1:253,440	AMS L504 (Reprint of HIND 1081) Various dates: 1942-1947	Roads: all weather, dry season, unclassified; pack-trails, foot-paths Distances Colonial route numbers Bridges	Railroads, tramways, stations, bridges Canals Numerous towns Relief: contours, form lines, spot heights Province boundaries Numerous other cultural, hydro-graphic, and topographic features British military grid; magnetic declination	Detailed; little choice between this and Map 31; road classification is slightly better on 30, but Map 31 shows alignments more accurately	Q - AMS
<i>Also listed in Sections I, III and V</i>							
31. AF Aeronautical Approach Charts (70 sheets, 59 available) See index map, Fig. 7		1:250,000	Aeronautical Chart Service, USAF Various dates: 1943-1948	Roads: primary, secondary, trails Route numbers Bridges, tunnels	Airfields and facilities: detailed classification Railroads, bridges, tunnels Canals Numerous towns: 6 classes Relief: contours, form lines, or hachures; layer tints, spot heights Isogonic lines Numerous other cultural, hydro-graphic, and topographic features	Detailed; little choice between this and Map 30; Map 29 shows alignments more accurately, but Map 30 uses a slightly better road classification	Q - ACS
<i>Also listed in Sections I, III, IV, and V</i>							

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
32. Indochina 1:250,000 (99 sheets, 10 available) See Index map, Plg. 6		1:250,000	AMS 1202 Various dates: 1945-1946	Roads: bituminous or asphalt, metalled or crushed stone, non-metalled; trails, paths	Railroads, tramways Numerous towns: 5 classes Relief: contours, form lines, spot heights Province boundaries Other cultural, hydrographic, and topographic features British military grid; magnetic declination	The few published sheets of this set are more detailed and accurate than sheets in any other 1:250,000 set covering the same area; AMS does not at present plan publication of additional sheets	Q - AMS
33. Indo-China a. Sheet 1 - Lao Kay Area b. Sheet 2 - Viet Tri Area c. Sheet 3 - Son Tay Area d. Sheet 4 - Nam Dinh Area		1:250,000	Photogrammetry Sec., 21st Photo. Rm. Sq. 1944	Roads	Railroads, yards Canals Airfields Magnetic declination	No legend; sheets show strip about 25 miles wide along the Red River; except for road alignments, which are taken from triangulation photo- graphs, material is presented on other 1:250,000 maps RESTRICTED	File copy (sheet 4 missing) Map Branch, CIA Call No. H501-32, 1950 File copy (photocopy, complete set), Library, AMS, Call No. 24 23-28-90006-260
34. Carte de l'Indochine (about 450 half-sheets, approxi- mately 300 available)		1:100,000	Service Geographique de l'Indochine Various dates: 1939-1944 Almost half are 1940 or later; about one-third are 1930-39; very few are pre-1925 Most of the more recent sheets are available only at AMS	Roads: colonial all weather, provincial all weather, dry weather; mule trails, paths Bridges: several classes; ferries, fords	Railroads, tramways, stations; several classes of bridges Inland waterways: waterfalls, rapids, dams, canals (navigable, irrigation), locks Numerous towns: 5 classes Relief: contours or hachures, shading, spot heights Province boundaries Numerous other cultural, hydro- graphic, and topographic features Coordinates in grads, longitude based on Paris meridian	Basic topographic set of Indochina; extremely detailed in French	File copy, Library, AMS, Call No. 24 23-30-35000-100 File copy, Map Branch, CIA, Call No. H501-30, 500108
Also listed in Sections I, III, and V							
35. Indo-China 1:100,000 (about 450 half-sheets, approxi- mately 250 available)		1:100,000	HIND 1000 Various dates: 1942-1945	Roads: metalled, non- metalled; trails, footpaths Bridges	Railroads, tramways, bridges Canals: navigable, irrigation Numerous towns Relief: contours or hachures, spot heights Province boundaries Numerous other cultural, hydrographic, and topographic features British military grid; magnetic declination; geo- graphic coordinates in grads, longitude based on Paris meridian; geographic co- ordinate stubs in degrees, longitude based on Greenwich meridian	Extremely detailed; taken from, but not as detailed as Map 34; road classifi- cation somewhat confusing; a few sheets are later in date than corre- sponding sheets of Map 34, but bear few changes	File copy, Library, AMS, Call No. 24 23-30-35000-100 File copy, Map Branch, CIA, Call No. H501-30, 500107 and 24407
Also listed in Sections I, III, and V							
36. Transportation Facilities of Northern French Indo-China (index map and seven over- lays), from Transportation Facilities of Northern French Indo-China, Special PI Report No. 49		1:100,000	19th PID, Hqs., 14th Air Force 1944	Roads: highways Route numbers Bridges	Railroads, stations, bridges, yards	Compiled from aerial photographs; adds little to material on Maps 34 and 35 RESTRICTED	Far East Division, Office of International Trade, Department of Commerce File copy (maps only, complete set), AMS, Call No. Fr. Indo-China (AS) 826-448-500/2 (filed with Confidential maps) File copy (photocopy of maps only, incomplete set, originals of some sheets) Map Branch, CIA, Call No. H5010-32, 18800
Also listed in Section III							

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	ROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q... in quantity)
37. Supplement to Transportation Facilities of Northern French Indo-China (three maps), from Supplement to Transportation Facilities of Northern French Indo-China, Special PI Report No. 49		1:100,000	18th PID, Hqs., 14th Air Force 1945	Roads: highways Route numbers Bridges	Railroads, stations, bridges, yards	Revision of three of overlays in Item 36 RESTRICTED	Far East Division, Office of International Trade, Department of Commerce File copy (1 map only), Map Branch, CIA, Call No. H501e-32, 18000
<i>Also listed in Section III</i>							
38. Railroad & Highway Bridges, Hanoi to Tourane (index map and eight overlays), from Railroad and Highway Bridges from Hanoi to Tourane, F.I.C., Special PI Report No. 43		1:100,000	18th PID, Hqs., 14th Air Force 1944	Roads: highways Bridges	Railroads, bridges	Compiled from aerial photographs; adds little to material on Maps 34 and 35 RESTRICTED	Far East Division, Office of International Trade, Department of Commerce File copy (maps only), AMS, Call No. Fr. Indo-China (AG) SDB-AP-100 (filled with Confidential maps)
<i>Also listed in Section III</i>							
39. [Maps of ferry crossings], from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. I a. Hoa Binh, Maps 27 and 28 b. Cho Bo, Map 29 c. Shuyut [Suyut], Map 30 d. Nam Matsui (?), Map 31 e. Lai Chau, Map 32		-	Japanese Southern Army, General Headquarters 1944	Detailed descriptions of ferry crossings	No coordinates	Maps are somewhat rough, but legible in Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 158987 (original) and Translation 78

III. RAILROAD MAPS

Numerous maps of Indochina's railroads are available. They are deficient only in not indicating the disruption of service caused by French-Vietnamese hostilities. Of the more than 3,000 kilometers of railroad lines operating in Indochina before World War II, only about 1,200 kilometers were reported in operation in November 1947. Service even on these lines has been erratic because of sabotage, particularly of bridges.

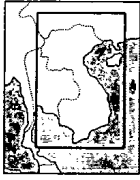
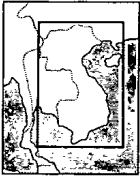
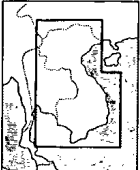
For a general picture of the railroads of Indochina, almost any map of the country is adequate. The railroad pattern is very simple and most maps locate the main lines accurately. Two errors, however, recur on general maps: a non-existent connecting line between Saigon and Phnom Penh is often shown, and the existing line between Sisophon and the Siamese border is often omitted. A few small branch lines do not appear on all maps, but they can be found on Map 3, below, which is the best single-sheet map of railroads and railroad facilities in Indochina. It is complete, reliable, and well drawn. Map 2, which is also a clear and detailed single-sheet map of the railroads, includes some data on facilities that do not appear on Map 3. A simplified but effective presentation of the historical development of the railroad system is given by the four small maps that comprise Item 1.

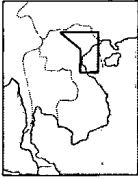
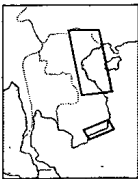
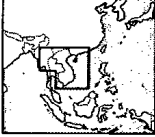
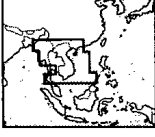
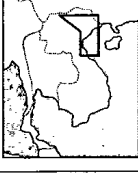
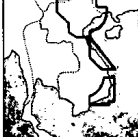
Most of the remaining material listed consists of more detailed maps of sections of the railroad lines. Map 8 covers all of northern Indochina; and Maps 11, 12, 17, and 18 give details on the lines that lead from Hanoi to Lao Kay, Vinh, Haiphong, and Na Cham. A map similar to 8, covering southern Indochina, appears in *Military Topographical Study of Southern Indochina*, Japanese Southern Army, General Headquarters, August 1944. The original and an English trans-

lation are available in Foreign Documents Branch, CIA (Doc. 158688 and Translation 148). Four other maps give especially good information on stations. On map 4, stations of northern Indochina are divided into several classes. Map 5 is particularly good for stations of northern Indochina and of the My Tho-Nha Trang line in southern Indochina. The section from Phnom Penh to the Siamese border is covered in detail on Map 13, which includes a table of facilities. Stations on the privately owned line extending from Haiphong to K'un-ming (Yunnanfou) are shown with exceptional clarity on Map 10. Although duplicating material shown on other maps, Map 9 is excellent for stations along the lines in operation in 1910, and includes a table of distances and completion dates for the lines shown. Supplementary detail on the railroad lines, at a scale of 1:100,000, can be found on Maps 22, 25, 26, and 27, and track and yard diagrams are given in Items 29 and 30.

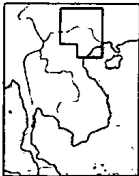




Elevation profiles are available for a large part of the Indochinese railroad net. Maps 14 and 19 show the Saigon-Muong Man and Haiphong-K'un-ming lines at scales of 1:1,000,000 and 1:325,000, respectively. Item 28 is a collection of large-scale profiles covering much of the railroad net.

Also included in Section III are topographic sets at scales ranging from 1:1,000,000 to 1:100,000, which are the best available maps for showing railroad alignment in relation to other geographic features, such as roads, towns, and relief. Maps 6, 7, 15, 16, 20, 21, 23, and 24 fall within this category. Map 16 being especially good for minor lines. Topographic coverage of part of Indochina is available at 1:25,000 in the Map Branch, CIA, and the Library, Army Map Service.

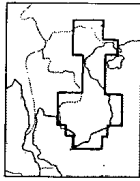
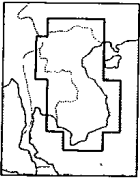
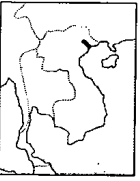
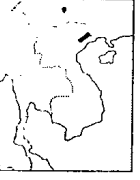
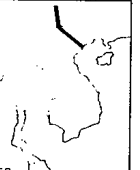
TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	RAILROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
1. The historical development of the railway system (four maps), from Indo-China, BR 510, Fig. 136, p. 419 a. Before 1898 b. 1898-1914 c. 1914-1922 d. 1922-1937		1:20,000,000	British Admiralty, Naval Intelligence Division 1943 (see title)	Railroads: in operation, under construction	—	RESTRICTED	LR/R, State, Call No. EB10/1419
2. French Indo-China, Transportation		1:2,800,000	Assistant Chief of Air Staff, Intelligence 1944	Railroads Principal bridges Railroad facilities	Roads Canals Principal ports	Gives some railroad facilities not shown on other maps RESTRICTED	File copy, Map Branch, CIA, Call No. HCO1-32, 32629
Also listed in Section I 3. Indochina, Railroads and Railroad Facilities		1:2,300,000	GCS 8008 1945	Railroads: steam railroads and tramways, electric railroads and tramways, rack or cog sections of lines Large bridges, tunnels Railroad facilities	Roads: selected	Best, single-sheet railroad map; well-drawn, accurate, comprehensive RESTRICTED	Q - Map Branch, CIA

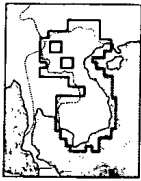
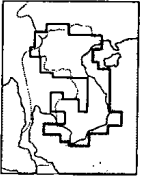

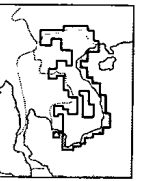
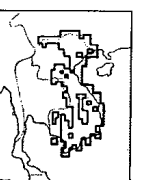
TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	RAILROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
4. Distribution of Railroad Stations of Northern French Indochina, from <i>Military Topographical Study of Northern French Indochina</i> , Documents Branch Translation 78 and Japanese original, Vol. III, Map 14		—	Japanese Southern Army, General Headquarters 1944	Stations: main city, main, ordinary Railroad facilities Accompanying chart: summary of stations and their facilities	No coordinates	Good station information; somewhat rough drafting, but legible In Japanese, with English translation <i>CONFIDENTIAL</i>	Foreign Documents Branch, CIA, Doc. 156997 (original) and Translation 78
5. Indo-China Railroads (two maps), from <i>French Indo-China, Railroads, Strategic Engineering Study 78</i> , Vol. II a. Northern Indo-China Railroad Lines, p. 144 b. Southern Indo-China Railroad Lines, p. 144		a. [ca. 1:2,000,000] b. [ca. 1:1,500,000]	Office, Chief of Engineers, Military Intelligence Division, from [Indochina] l'Arrondissement du Traffic et Mouvement, du Réseau Nord 1943	Railroads Stations	Roads: connecting highways Hotels, tourist cottages No coordinates	Good station information; strip maps; easy to read <i>RESTRICTED</i>	LR/R, State, Call No. X - 44365
6. Asia 1:1,000,000 (10 sheets) See index map, Fig. 1 <i>Also listed in Sections I, II, and V</i>		1:1,000,000	AMS 1301 Various dates: 1942-1945	Railroads Stations Bridges, tunnels	Roads: 3 classes, bridges, tunnels Numerous towns: 3 classes Relief: layer tints, contours, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; little choice between this and Map 7	Q - AMS
7. World Aeronautical Charts (AF Regional) (11 sheets) See index map, Fig. 2 <i>Also listed in Sections I, II, IV, and V</i>		1:1,000,000	Aeronautical Chart Service, USAF Various dates: 1943-1948	Railroads Bridges, tunnels	Airfields and facilities: detailed classification Roads: 3 classes, route numbers, bridges, tunnels Canals Numerous towns: 6 classes Relief: contours or form lines, layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; little choice between this and Map 6	Q - ACS
8. Railroads of Northern French Indochina, from <i>Military Topographical Study of Northern French Indochina</i> , Documents Branch Translation 78 and Japanese original, Vol. III, Map 13		1:1,000,000	Japanese Southern Army, General Headquarters 1944	Railroads Stations Railroad facilities	No coordinates	Drafting somewhat rough; annotations give detailed description of features shown; accompanying text gives history, administration, traffic, rolling-stock, signals, gauge, and number of employees In Japanese, with English translation <i>CONFIDENTIAL</i>	Foreign Documents Branch, CIA, Doc. 156997 (original) and Translation 78
9. Chemins de Fer de l'Indochine avec leurs Relations Administratives, Commerciales, Industrielles, etc.		1:1,000,000	Conducteur des Travaux Publics de l'Indochine 1910	Railroads Stations Marginal tables of distance and dates of railroad-line completion	Numerous towns Relief: rough shading Ocean waterways: routes Distribution of resources	Excellent presentation of stations	File copy, Map Branch, CIA, Call No. H501-25, 32624

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	RAILROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
10. Carte des Chemins de Fer du Tonkin et du Yunnan		1:1,000,000	Givard et Barriere, Geographes, Paris 1837	Railroads Stations Distances	—	Good station information; very clearly drawn	File copy, Map Branch, CIA, Call No. H501-25, 22233
11. Hanoi - Lao Kay Railroad, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. I, Map 98		1:1,000,000	Japanese Southern Army, General Headquarters 1944	Railroad Stations Bridges Railroad facilities Slopes, capacity, speed	Roads Relief: form lines bordering railroad No coordinates	Somewhat rough drafting, but legible in Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 156987 (original) and Translation 78
12. Hanoi - Vinh Railroad, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. I, Map 100		1:1,000,000	Japanese Southern Army, General Headquarters 1944	Railroad Stations Bridges Railroad facilities Slopes, capacity, speed	Roads Relief: form lines bordering railroad No coordinates	Somewhat rough but legible in Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 156987 (original) and Translation 78
13. Map of the State Railways of Siam		1:1,000,000	Hq., SACSEA, Mov. & Tr. Div., & ISFD (TN) 1945	Railroads Stations Marginal chart listing stations and their facilities	—	Only map giving details on stations and their facilities for this area RESTRICTED	File copy, Map Branch, CIA, Call No. H500-25, 32830
14. Profil en Long de la Section Saigon-Nuom Man, from Annales des Travaux Publics de l'Indochine, Fascicule II, facing p. 240		Vertical, 1:2,000; horizontal, 1:1,000,000	Compiled by Inspection Générale des Travaux Publics de l'Indochine; printed by Imprimerie d'Extreme-Orient, Hanoi 1944	Railroad: elevation profile Stations Distances	Relief: elevations	In French	Map Branch, CIA uncataloged

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	RAILROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q... in quantity)
15. AF Pilotage Charts (AF Sectional) (24 sheets, 14 available) See index map, Fig. 4		1:500,000	Aeronautical Chart Service, USAF Various dates: 1945-1948	Railroads Bridges, tunnels	Airfields and facilities: detailed classification Roads: 3 classes, route numbers, bridges, tunnels Canals Numerous towns: 8 classes Relief: contours, form lines, or hachures; layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; not quite as complete as Map 16	Q - ACS
<i>Also listed in Sections I, II, IV, and V</i>							
16. Carte Routière de l'Indochine (25 sheets) See index map, Fig. 5		1:400,000	Service Géographique de l'Indochine; reprinted by the Institut Géographique National, Charted and by the Japanese Army, General Staff Various dates: 1936-1945	Railroads: standard, mine, forestry Stations Bridges, tunnels	Roads: detailed classification, distances, route numbers, bridges, ferries Canals Numerous towns: 4 classes Relief: contours, shading or hachures; spot heights Province boundaries Numerous other cultural features Coordinates in grade, longitude based on Paris meridian	Very clearly drawn, detailed set The legend is in many cases split between adjoining sheets, road classification less detailed on IGN than SGI set. Japanese reprint is poor and is mentioned only because SGI sheets for some of the areas are not in Map Branch, CIA In French; IGN reprint adds English legend; Japanese reprint adds Japanese legend	File copies, Map Branch, CIA, Call Nos.: SGI set, H501-29, 2965; IGN set, H501-28, 22438; Japanese set, H501-30, uncataloged File copies, Library, AMS, Call Nos.: SGI 3-28-35001-400; Japanese set, 2L 3-26-31060-400
<i>Also listed in Sections I, II, and V</i>							
17. Hanoi - Haiphong Railroad, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. I, Map 99		1:400,000	Japanese Southern Army, General Headquarters 1944	Railroad Stations Bridges Facilities Slopes, capacity, speed	Roads Relief: form lines Detailed description of area bordering railroad No coordinates	Somewhat rough, but legible In Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 156997 (original) and Translation 78
18. Hanoi - Na Cham Railroad, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. I, Map 97		1:400,000	Japanese Southern Army, General Headquarters 1944	Railroad Stations Bridges Railroad facilities Slopes, capacity, speed	Roads Relief: form lines Detailed description of area bordering railroad No coordinates	Somewhat rough, but legible In Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 156997 (original) and Translation 78
19. Railroad Profiles, from French Indo-China, Railroads, Strategic Engineering Study 78, Vol. II a. Haiphong to Lao Kay, p. 33 b. Lao Kay to Kunning, p. 75		1:325,000, vertical scale not given	Military Intelligence Section, Office, Chief of Engineers 1943	Railroads: elevation profiles Stations Bridges and their dimensions Distances Slopes	Relief: profiles, given without elevations	Very legible RESTRICTED	LR/R, State, Call No. X - 44365

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	RAILROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q... in quantity) Q - AMS
20. Indo-China 1:253,440 (99 sheets almost all available) Border sheets included from adjoining AMS sets; see index map, Fig. 6		1:253,440	AMS L504 (Reprint of HIND 1081) Various dates: 1942-1947	Railroads: meter, light, tramways Stations Bridges	Roads: 5 classes, distances, colonial route numbers, bridges Canals Numerous towns Relief: contours, form lines, spot heights Province boundaries Numerous other cultural, hydrographic, and topographic features British military grid, magnetic declination	Detailed; little choice between this and Map 21 <i>RESTRICTED</i>	Q - AMS
<i>Also listed in Sections I, II, and V</i>							
21. AF Aeronautical Approach Charts (70 sheets, 59 available) See index map, Fig. 7		1:250,000	Aeronautical Chart Service USAP Various dates: 1943-1946	Railroads Bridges, tunnels	Airfields and facilities: detailed classification Roads: 3 classes; route numbers, bridges, tunnels Canals Numerous towns: 6 classes Relief: contours, form lines, or hachures; layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Detailed; little choice between this and Map 20	Q - ACS
<i>Also listed in Section I, II, IV, and V</i>							
22. Carte des Chemins de Fer de l'Indochine (83 sheets)		1:100,000	Direction Générale des Services d'Etudes & de Recherches 1944	Railroads Stations Bridges, with dimensions of some	Coordinates in grads, longitude based on Paris meridian	Series of sketchy strip maps In French <i>RESTRICTED</i>	LR/R. State, Call No. CID 16538
23. Carte de l'Indochine (about 450 half-sheets, almost 300 available)		1:100,000	Service Géographique de l'Indochine Various dates: 1899-1944 Almost half are 1940 or later; about one-third are 1930-6; very few are pre-1925 Most of the more recent sheets are available only at AMS	Railroads, tramways Stations Bridges: several classes	Roads: 5 classes; several classes of bridges; ferries, fords Island waterways: waterfalls, rapids, dams, canals (navigable, irrigation), locks Numerous towns: 5 classes Relief: contours or hachures, shading, spot heights Province boundaries Numerous other cultural, hydrographic, and topographic features Coordinates in grads, longitude based on Paris meridian	Basic topographic set of Indochina; extremely detailed In French	File copy, Library, AMS, Call No. ZL 3-30-80000-100 File copy, Map Branch, CIA, Call No. H501-32, 300108
24. Indo-China 1:100,000 (about 450 half-sheets, approximately 250 available)		1:100,000	HIND 1000 Various dates: 1942-1945	Railroads, tramways Bridges	Roads: 4 classes, bridges Canals: navigable, irrigation Numerous towns Relief: contours or hachures, spot heights Province boundaries Numerous other cultural, hydrographic, and topographic features British military grid; geographic coordinates in grads, longitude based on Paris meridian; geographic coordinate stubs in degrees, longitude based on Greenwich meridian; magnetic declination	Extremely detailed; taken from Map 23, but onto some detail; a few sheets are later in date than corresponding sheets of Map 23, but bear few changes	File copy, Library, AMS, Call No. ZL 3-30-80000-100 File copy, Map Branch, CIA, Call Nos. H501-30, 300107 and 24407
<i>Also listed in Sections I, II, and V</i>							

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	RAILROAD DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
25. Transportation Facilities of Northern French Indo-China (index map and seven overlays), from Transportation Facilities of Northern French Indo-China, Special PI Report No. 49		1:100,000	18th PID, Hqs., 14th Air Force 1944	Railroads Stations Bridges Yards	Roads: highways, route numbers, bridges	Compiled from aerial photographs; adds little to material presented by other 1:100,000 maps, very clear #33721079	Far East Division, Office of International Trade, Department of Commerce File copy (maps only, incomplete set), AMS, Call No. Fr. Indo-China (AS), 600-42-102/2 (filed with Confidential maps) File copy (photocopy of maps only, incomplete set, originals of some sheets), Map Branch, CIA, Call No. H501e-32, 18500
<i>Also listed in Section II</i>							
26. Supplement to Transportation Facilities of Northern French Indo-China (three maps), from Supplement to Transportation Facilities of Northern French Indo-China, Special PI Report No. 49		1:100,000	18th PID, Hqs., 14th Air Force 1945	Railroads Stations Bridges Yards	Roads: highways, route numbers, bridges	Revisions of three overlays included in item 25 #33721079	Far East Division, Office of International Trade, Department of Commerce File copy (1 map only), Map Branch, CIA, Call No. H501e-32, 18500
<i>Also listed in Section II</i>							
27. Railroad & Highway Bridges, Hanoi to Tourane (index map and eight overlays), from Railroad & Highway Bridges from Hanoi to Tourane, F.I.C., Special PI Report No. 43		1:100,000	18th PID, Hqs., 14th Air Force 1944	Railroads Bridges	Roads: highways, bridges	Compiled from aerial photographs; adds little to material presented by other 1:100,000 maps; very clear #33721079	Far East Division, Office of International Trade, Department of Commerce File copy (maps only), AMS, Call No. Fr. Indo-China (AS), 600-42-102 (filed with Confidential maps)
<i>Also listed in Section II</i>							
28. [Elevation profiles] a. Hanoi - Na Cham b. Hanoi - Vinh c. Vinh - Dong Ha d. Dong Ha - Tourane e. Tourane - Nha Trang f. Tourcham - Dalat g. Muong Man - Phan Thiet h. Nga Ba - Ba Ngoi i. Saigon - My Tho j. Ben Dong So - Loc Ninh k. Phnom Penh - Pursat		Various: vertical, 1:200- 1:300; horizontal, 1:2,000- 1:10,000	No publisher given No date given	Railroads: elevation profiles Stations Bridges Railroad facilities Distances Slopes Curve data	Relief: profiles and elevations	Engineering diagrams, extremely detailed in French	File copies (photocopies), Map Branch, CIA, Call Nos.: a. H501e-25, 13506 b. H501e-25, uncataloged c. H501e-25, uncataloged d. H501e-25, uncataloged e. H501e-25, uncataloged f. H501e-25, uncataloged and H501e-25, 20128 g. H501e-25, uncataloged h. H501e-25, uncataloged i. H501e-25, 14952 j. H501e-25, 14951 k. H501e-25, 13503
29. [Track and yard diagrams], from Indochina, JANIS 70, Chapter VII a. Gia Lam, Fig. VII-30 b. Halphong, Fig. VII-31 c. Pho Hai, Fig. VII-32 d. Bien Hoa, Fig. VII-37 e. Saigon, Figs. VII-38, VII-39		Various	Joint Intelligence Publishing Board 1945	Railroads Facilities	Locational insets	#33721079	LR/R, State, Call No. 910/8308/70
30. [Track and yard diagrams, station and terminal diagrams, and detailed profiles of the Halphong-Kunming (Yunnan-fu) line] from French Indo-China, Railroad Appendix A, Strategic Engineering Study 70, Vol. III		Various	Military Intelligence Division, Office, Chief of Engineers 1945	Railroads, elevation profiles of lines Stations Bridges, viaducts Facilities Distances Curve data	—	Some parts in English, others in French #33721079	LR/R, State, Call No. X - 54883

IV. AIR TRANSPORT MAPS

Before and during World War II, a large number of airfields were in operation in Indochina. Important cities were served by well-equipped airports, and over 100 landing fields were scattered throughout the country. Since the end of the war, however, many of the fields have been abandoned because of the scarcity of equipment and the disruptive influence of the French-Vietnamese conflict. At present Air France operates several flights from Saigon to other parts of the world, and a few other international lines have begun to offer similar services. Air France has also started to schedule a few domestic flights between major towns controlled by the French, such as Hanoi, Phnom Penh, Tourane, and Dalat. The only other air travel consists of unscheduled survey flights by foreign lines, and of flights associated with small-scale military operations.

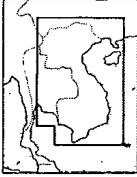

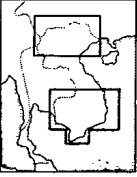
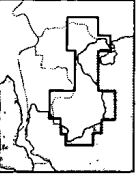
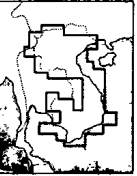
Many of the available air transport maps were made during the war and are now considerably out-of-date. The most complete and recent air data for Indochina appear on the 1:1,000,000 operational charts published by the Aeronautical Chart Service, US Air Force (Map 7 below).



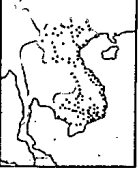

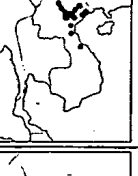

Additional recent and reliable information can be found on Map 2, the 1:5,000,000 ACS planning chart covering Indochina; and in Items 11 and 12, which contain the best approach and landing charts for the area. Several other maps are also useful but must be used with caution because much of the aeronautical information is obsolete. Of these, 9 and 10 are operational maps at 1:500,000 and 1:250,000 and 3 and 5 are useful both as planning charts and as long-range navigation charts. Map 4, which classifies airfields according to their military plans capacity, is useful for strategic planning. Air navigation data on most of the preceding maps are revised periodically.

Besides operational and planning charts, there are several other informative maps of air transport in Indochina. Map 1 shows main routes across Indochina and gives distances between points. The extent of pre-World War II air transport is excellently illustrated by Map 6. On Map 8, the terrain of Indochina is classified according to suitability for the construction of airfields. The remaining four items (13, 14, 15, and 16) are collections of airfield maps.

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	AIR TRANSPORT DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
1. Route Index, Southeast Asia, from US Air Force Pilot's Handbook, Southeast Asia, frontispiece.		1:17,000,000	Aeronautical Chart Service, USAP 1947	Airfields: major, supplementary Routes Distances	—	Schematic <i>REPRODUCED</i>	Library, AMS, Doc. 53 50, 505 Q - ACS (authorized persons only)
2. Aeronautical Planning Chart, Thailand Sheet		1:5,000,000	Aeronautical Chart Service, USAP Base, 1944; air overprint, 1947	Airfields and facilities: detailed classification	Roads: 2 classes Railroads Canals Towns: 4 classes Relief: layer tints, spot heights Isogonic lines	Best single-sheet map of main Indo-Chinese airfields; other forms of transport generalized and incomplete	Q - ACS
3. Long Range Air Navigation Charts a. LR-17 - Yellow Sea b. LR-38 - Bengal		1:3,000,000	Aeronautical Chart Service, USAP a. 1947 b. 1944	Airfields and facilities: detailed classification	Railroads Towns: 4 classes Relief: layer tints, contours, spot heights Isogonic lines	Shows major airfields	Q - ACS
4. Operational Airfield Maps a. 0N-99B b. 0N-110B c. 10N - 101B		1:3,000,000	Office of Assistant Chief of Air Staff, Intelligence a. 1945 b. 1945 c. 1947	Airfields: classified according to types of military planes that can be accommodated	Main towns	Air data overprinted on subdued outline map; includes secondary fields; good for strategic planning <i>CONFIDENTIAL</i>	Q - Intelligence, USAP
5. Air Navigation Charts a. V30-28 b. V30-41 c. V30-42		1:2,188,800	US Hydrographic Office a. 1947 b. 1945 c. 1946	Airfields and facilities: detailed classification	Relief: contours, spot heights Isogonic lines	Shows major airfields: good for celestial navigation	Q - HO

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	AIR TRANSPORT DATA	OTHER DATA	REMARKS	AVAILABILITY (C...in quantity)
6. Infrastructure Aerienne de l'Indochine		1:2,000,000	Data from Gouvernement Général de l'Indochine, Bureau de la Navigation Aérienne; published by Service Géographique de l'Indochine (Ca. 1956)	Airfields: 7 classes, dimensions Routes: International with names of companies; domestic	No coordinates	Good presentation of pre-World War II air transport ID French	File copy, Library, AMS, CS11 No. 21, 1-25.5-35001-2000
7. World Aeronautical Charts (AF Regional) (11 sheets) See index map, Fig. 2 Also listed in Sections I, II, III, and V		1:1,000,000	Aeronautical Chart Service, USAF Various dates: 1943-1948	Airfields and facilities: detailed classification	Roads: 3 classes, route numbers, road bridges and tunnels Railroads, railroad bridges and tunnels Canals Numerous towns: 6 classes Relief: contours or form lines, layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Best operational maps	Q - ACS
8. Indo-China, Suitability of Country for Rapid Construction of Airfields a. Sheet 1 - North b. Sheet 3 - South		1:1,000,000	Great Britain Inter-Service Topographical Department 1945	15 types of land classifications according to suitability for rapid construction of airfields	Railroads Numerous towns Relief: spot heights Province boundaries	Overprint on GSGS 4555 (see Section II, Map 24) without roads, contours, layer tints REVISIONS	Sheet 1, limited distribution, Map Branch, CIA, Call No. H800-2, 24412 Sheet 3, Southern Indo-China: Geology, Topography and Climate, RR 877, ISM, 1945 pocket; available in Map Branch, CIA, uncataloged
9. AF Pilotage Charts (AF Sectional) (24 sheets, 14 available) See index map, Fig. 4 Also listed in Sections I, II, III, and V		1:500,000	Aeronautical Chart Service, USAF Various dates: 1943-1946 (no longer revised currently)	Airfields and facilities: detailed classification	Roads: 3 classes, routes numbers, road bridges and tunnels Railroads, railroad bridges and tunnels Canals Numerous towns: 6 classes Relief: contours, form lines, or hachures; layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Operational maps	Q - ACS
10. AF Aeronautical Approach Charts (70 sheets, 59 available) See index map, Fig. 7 Also listed in Sections I, II, III, and V		1:250,000	Aeronautical Chart Service, USAF Various dates: 1943-1946 (no longer revised currently)	Airfields and facilities: detailed classification	Roads: 3 classes, route numbers, road bridges and tunnels Railroads, railroad bridges and tunnels Canals Numerous towns: 6 classes Relief: contours, form lines, or hachures; layer tints, spot heights Isogonic lines Numerous other cultural, hydrographic, and topographic features	Operational maps	Q - ACS

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	AIR TRANSPORT DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
11. Approach and Landing Charts, from US Air Force Pilot's Handbook, Southeast Asia		Approach charts: 1:250,000; landing charts: various; 1:50,000-1:40,000	Aeronautical Chart Service, USAF Various dates: 1946-1947	Airfields: approach and landing charts	—	Most recent and reliable airfield charts; very clearly drawn only the main airfields shown; accompanying descriptions of facilities RESTRICTED	Library, AMS, Doc. ID 22600 Q - ACS (authorized persons only)
12. Approach and Landing Charts, from Singapore-Bangkok-Hong Kong Flying Boat Route Book		Various: approach charts: 1:250,000-1:500,000; landing charts: 1:50,000-1:50,000	British Overseas Airways Corporation Various dates: 1946-1947	Seaplane bases: approach and landing charts	—	Most recent and reliable charts of a few main seaplane bases not covered in item 11; accompanying descriptions of facilities	Library, ACS, Copy No. 33
13. Guide Aerien		Various: 1:10,000-1:500,000	Gouvernement General de l'Indochine 1946	Airfields: approach and airport charts	—	Very clear; outdated, but covers numerous airfields, including many for which no other maps are available in French	Library, AMS, Call No. TU/2207, 14694
14. [Airphotos of airfields], from Indochina, JANIS 70, Chapter XII		Various	Joint Intelligence Study Publishing Board 1945	Airfields: annotated	—	Airphotos of fields vary in quality from excellent to poor; a few are the only available maps of the fields shown; accompanying descriptions RESTRICTED	LR/R, State, Call No. 610/23808/70
15. [Airphotos of airfields], from Gulf of Tonkin Area, French Indo-China, Objective Data Annex		Various: ca. 1:10,000 ca. 1:60,000	Hq. Allied Air Forces, SWPA 1945	Airfields: annotated airphotos	—	Excellent photos, extensive accompanying descriptions RESTRICTED	LR/R, State, Call No. CID 133132
16. [Maps of airfields], from French Indo-China and Siam, Publication No. 3, Parts I and II.		Various	South-east Asia Translation and Interrogation Center 1944	Airfields: airport maps	—	Numerous fields shown; accompanying descriptions; many of the maps are crude, and inaccurate, but a few are the only available maps of the fields shown RESTRICTED	LR/R, State, Call No. XL-5349

V. INLAND WATERWAYS MAPS

Indochina's dense network of navigable waterways normally carries much commerce, but such traffic has been greatly curtailed during the last few years. Many canals have been destroyed or are badly in need of dredging, and most other waterways are used infrequently because military convoys are necessary. Available maps give a good picture of the arteries that were navigable in peacetime, but they do not indicate the current situation.

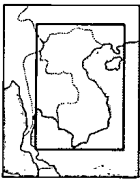
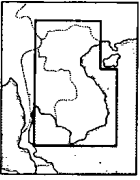
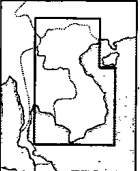
The maps listed in this section are of three types: (1) maps showing the navigability of the inland waterways for the country as a whole, (2) more detailed maps showing the navigability of the inland waterways for parts of the country, and (3) topographic set maps that were not designed specifically to show navigation but indicate the relationship of the drainage pattern to other geographic features, such as relief, roads, railroads, or towns.

Of the five maps covering all of Indochina, Map 1 is the only single-sheet map giving a detailed classification of waterways. Information on navigability given on Map 4 supplements that on Map 1 by showing the needs of navigation for junks. Maps 2 and 3 indicate periods of high and low water in streams. Larger-scale coverage of the navigable waterways of Indochina is provided by Map 10, an 18-sheet set.


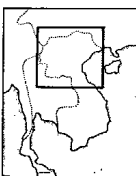

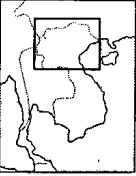
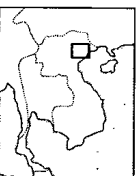
Detailed coverage of the navigable waterways of Indochina is adequate. Although most of the maps show only Tonkin or Cochinchina, they include the two important delta areas, where the role of inland waterways is of outstanding significance. Detail on navigability is available for a large portion of the canals of the country on the 1:100,000 topographic sets, Maps 27 and 28. Twelve of the maps listed give details on waterways of northern Indochina only. Maps 5,

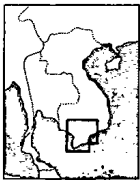



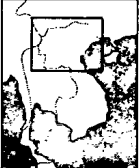
13, and 16 cover large areas and show a number of classes of waterways. To some extent, they duplicate each other but each has unique features. Map 14 outlines clearly the principal waterways of Tonkin. Of the three maps of the Tonkin delta, Map 15 provides the most information but is the least easily available and the most difficult to use; Map 8 is the most easily available; and Map 22 presents slightly more detail on stream pattern than Map 8 but in other respects is less detailed. Map 17 covers only the Red River. Several important coastal areas are covered by Item 29, and Item 30 includes large-scale sketches of small stretches of the rivers of Tonkin. Maps 7 and 19 present supplementary material on northern Indochina, showing the effect of flood conditions on water transport, and the types of ships in use. Of the maps covering Cochinchina, Map 9 is a clear and comprehensive single-sheet map. Map 25 presents more detailed information on principal, secondary, and tertiary canals. Map 20 should be consulted only if an exhaustive study of the area is being undertaken, since it is difficult to use and contains little information not available elsewhere. The two main obstacles to transport on the Mekong, the Kemmarat Rapids and the Chutes de Knone, are shown on Maps 6 and 26, respectively. French hydrographic charts are also available for both the lower Mekong River and parts of the Tonkin delta (see Section VI). Maps similar to Items 5, 13, 17, 18, and 29, covering southern Indochina, appear in *Military Topographical Study of Southern Indochina*, Japanese Southern Army, General Headquarters, August 1944. The original and an English translation are available in Foreign Documents Branch, CIA (Doc. 158698 and Translation 148 CONFIDENTIAL).

The remaining maps, 11, 12, 15, 21, 23, 24, are topographic sets at scales of from 1:1,000,000 to 1:250,000. Topographic coverage of parts of Indochina at 1:250,000 is also available in the Map Branch, CIA, and in the Library, Army Map Service.


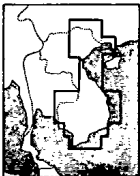
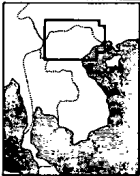


TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	INLAND WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
1. Indochina Waterways		1:9,000,000	OSS 8103 1945	Inland waterways: navigable up to 3 ft. draft during low water, navigable up to 3 ft. draft during high water, other navigable streams, rivers not navigable or navigable only by small craft	Ocean waterways: routes Major and minor ports	Only single-sheet, over-all picture; insets of Tonkin and Cochinchina areas (see Maps 8 and 9) RESTRICTED	Q - Map Branch, CIA
2. Indochina, Periods of High Water in Streams, from Indochina, JANIS 70, Chapter I, Fig. 1-23		1:5,500,000	Joint Intelligence Study Publishing Board 1945	Areas of high water in fall, areas of high water in summer (months indicated for both) Detailed stream network	Meteorological stations, periods of maximum precipitation (months indicated)	RESTRICTED	LR/R, State, Call No. 910/2306/70 Negatives available in Map Branch, CIA
3. Indochina, Periods of Low Water in Streams, from Indochina, JANIS 70, Chapter I, Fig. 1-24		1:5,500,000	Joint Intelligence Study Publishing Board 1945	Areas of low water in winter, areas of low water in spring, areas of low water in winter and spring (months indicated for each) Detailed stream network	Meteorological stations, periods of minimum precipitation (months indicated)	RESTRICTED	LR/R, State, Call No. 910/2306/70 Negatives available in Map Branch, CIA

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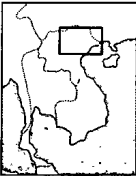

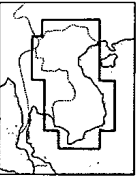
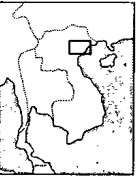
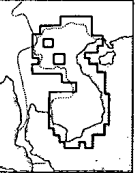
TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	INLAND WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...In quantity)
4. Indochina, River Barriers, from Indochina, JANIS 70, Chapter I, Fig. I-25.		1:5,000,000	Joint Intelligence Study Publishing Board 1945	Heads of navigation for junks Detailed stream network	Rivers not fordable at low water, rivers possibly fordable in low water	RESTRICTED	LR/R, State, Call No. 910/2306/70 Negatives available in Map Branch, CIA
<i>Also listed in Section II</i>							
5. Navigable Waterways of Northern French Indochina, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. III, Map 16		1:2,000,000	Japanese Southern Army, General Headquarters 1944	Main waterways: navigable for boats larger than 100 tons, navigable for boats of 25-100 tons, navigable for boats of 30-50 tons, navigable for boats of 10-20 tons, navigable for boats smaller than 10 tons	Roads: selected No coordinates	Somewhat rough, but legible; annotations give detailed description of features shown in Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 156697 (original) and Translation 78
6. Rapides de Kemmarat, inset on Le Mekong en 1905		1:2,000,000	No publisher given 1905	Navigation conditions at low, medium, and high water	No coordinates	In French	File copy, Map Branch, CIA, Call No. H501-14, 32996
7. Flood Conditions During Rainy Season in Northern French Indochina, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. III, Map 4		1:1,500,000	Japanese Southern Army, General Headquarters 1944	Navigability of waterways during rainy season	Area flooded more than 1 m., area flooded less than 1 m. and more than 50 cm., area flooded less than 50 cm., specific depths in selected localities Use of highways during rainy season	In Japanese, with English translation Translated overprint on untranslated base; overprint somewhat roughly drafted, but legible CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 152897 (original) and Translation 78
<i>Also listed in Sections I and II</i>							
8. Indochina Waterways, Tonkin Area, inset on Indochina Waterways (Map 1)		1:1,440,000	OSS 8103 1945	Inland waterways: navigable for ocean vessels, navigable for steamers (all seasons), navigable for junks and sampans		RESTRICTED	Q - Map Branch, CIA

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	INLAND WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...In quantity)
9. Indochina Waterways, Cochinchine Area, inset on Indochina Waterways (Map 1)		1:1,440,000	OSS 8103 1945	Natural waterways: (a) navigable for vessels up to 19 ft. draft, (b) 2.5 m. deep and 40 m. wide, (c) 1.5 m. deep and 18 - 20 m. wide, (d) not navigable or navigable only for small craft. Canals: principal, secondary	—	RESTRICTED	Q - Map Branch, CIA Similar maps in: a. <i>L'Union Indochinoise Française ou Indochine Orientale</i> , A. Agard, Hanoi, 1935, pp. 111 and 277; LC, Call No. SC 442 - 19 b. <i>French Indo-China</i> , Civil Affairs Handbook, Sections 11 & 12, p. 48; I/R/R, State, Call No. B 330.59 R7025 c. <i>Indo-China</i> , BR 510, British Admiralty Naval Intelligence Division, 1943, p. 440; I/R/R, State, Call No. B910/1416
10. Indochina, from Atlas de l'Indochine, sheets 24-41		1:1,000,000	Service Géographique de l'Indochine 1930	Rivers navigable by steamboats, rivers navigable by sampans, rivers not navigable.	Roads Railroads Numerous towns: 6 classes Relief: shading, spot heights Province boundaries	In French	Map Branch, CIA, Call No. H501
11. Asia 1:1,000,000 (10 sheets) See index map, Fig. 1		1:1,000,000	AMS 1301 Various dates: 1942-1943	Detailed hydrographic pattern	Roads: 3 classes, bridges and tunnels Railroads, stations, railroad bridges and tunnels Numerous towns: 3 classes Relief: layer tints, contours, spot heights Isogonic lines Numerous other cultural and topographic features	Detailed; little choice between this and Map 12	Q - AMS
Also listed in Sections I, II, and III							
12. World Aeronautical Charts (AP Regional) (11 sheets) See index map, Fig. 2		1:1,000,000	Aeronautical Chart Service, USAF Various dates: 1943-1948	Detailed hydrographic pattern	Airfields and facilities: detailed classification Roads: 3 classes, route numbers, road bridges and tunnels Railroads, railroad bridges and tunnels Numerous towns: 6 classes Relief: contours or form lines, layer tints, spot heights isogonic lines Numerous other cultural and topographic features	Detailed; little choice between this and Map 11	Q - ACS
Also listed in Sections I, II, III, and IV							
13. Rivers (Waterways) of Northern French Indo-China, from Military Topographical Study of Northern French Indo-China, Documents Branch Translation 78 and Japanese original, Vol. III, Map 3			Japanese Southern Army, General Headquarters 1944	Detailed description of navigability of rivers	Detailed description of areas bordering waterways No coordinates	Somewhat rough drafting, but legible; accompanying text in Japanese, with English translation	Foreign Documents Branch, CIA, Doc. 136267 (original) and Translation 78 CONFIDENTIAL

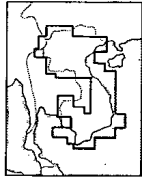
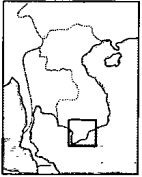
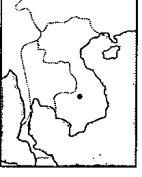
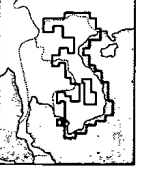
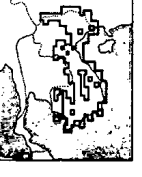
Declassified and Approved For Release 2013/01/07 : CIA-RDP78-01617A002600080001-4

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	INLAND WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
14. Principal Waterways of Tonkin, from Indo-China, Guide to the Navigation of the Rivers of Tonkin, Fig. 1		1:1,000,000	[Great Britain] Inter-Service Topographical Department 1945	Principal waterways and their names	No coordinates	Very clearly drawn RESTRICTED	Library, AMS Doc. 50 23,072
15. AF Pilotage Charts (AF Sectional) (24 sheets, 14 available) See index map, Fig. 4 Also listed in Sections I, II, III, and IV		1:500,000	Aeronautical Chart Service, ISAP Various dates: 1945-1949	Detailed hydrographic pattern	Airfields and facilities: detailed classification Roads: 3 classes, route numbers, road bridges and tunnels Railroads, railroad bridges and tunnels Numerous towns: 5 classes Relief: contours, form lines, or hauchures; layer tints, spot heights Isogenic lines Numerous other cultural and topographic features	Detailed	Q - ACS
16. Carte Schematique des Communications de l'Indochine Septentrionale (4 sheets)		1:500,000	Service Geographique de l'Indochine 1923	Rivers: navigable by launch, navigable by launch at high water only, navigable by sampan, not navigable	Roads, ferries Railroads Numerous towns: 5 classes Relief: layer tints Province boundaries	In French	File copy, Library, AMS, Call No. 52L 1-25-3331-500 File copy (photo-copy), Map Branch, CIA, Call No. H501-32, 12349
17. The Red River, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. 1, Map 2		1:500,000	Japanese Southern Army, General Headquarters 1944	Detailed description of navigability of river	Roads Railroads No coordinates	Somewhat rough drafting, but legible. In Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 156987 (original) and Translation 78
18. Waterways in Indochina's Red River Delta, from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. 1, Map 101		1:500,000	Japanese Southern Army, General Headquarters 1944	Waterways: depths of 0.60 cm., 0.80 cm., 1.50 cm., and less than 0.80 cm. at high water; details of navigability	No coordinates	Somewhat rough drafting, but legible. In Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 156987 (original) and Translation 78


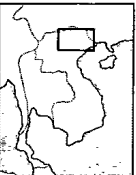
Declassified and Approved For Release 2013/01/07 : CIA-RDP78-01617A002600080001-4

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	INLAND WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
19. North Indochina Marine Transportation and Transport Ships, from <i>Military Topographical Study of Northern French Indochina</i> , Documents Branch Translation 78 and Japanese original, Vol. 1, map 102		1:500,000	Japanese Southern Army, General Headquarters 1944	Ships operating from various towns Marginal tables: vessels in marine transport (number, tonnage, types); types of river vessels (tonnage, length, width, draught, speed)	No coordinates	Somewhat rough drafting, but legible In Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 158997 (original) and Translation 78
<i>Also listed in Section VI</i>							
20. Cochinchine, Sud-Annam, et Partie du Cambodge, Carte Economique		1:500,000	Compiled by the Direction des Affaires Economiques; printed by Imprimerie d'Extreme-Orient, Hanoi 1927	Rivers: navigable by small boats all year; navigable by small boats part of year Canals	Roads Railroads Province boundaries Land use	Very difficult to read; gives some waterways detail not available on other maps In French	Microfilm, Map Branch, CIA, Reel AG-48, Item 4
21. Carte Routiere de l'Indochine (25 sheets) See index map, Fig. 5		1:400,000	Service Geographique de l'Indochine; reprinted by the Institut Geographique National, (Paris), and the Japanese Army, General Staff Various dates: 1932-1945	Detailed hydrographic pattern, including major and minor canals	Roads: detailed classification, distances, route numbers, road bridges, ferries Railroads, stations, railroad bridges, tunnels Numerous towns: 4 classes Relief: contours, shading or hachures, spot heights Province boundaries Numerous other cultural features Coordinates in grads, longitude based on Paris meridian	Clearly drawn, detailed set The legend is in many cases split between adjoining sheets; road classification less detailed on IGN than on SGI set; Japanese reprint is poor and is mentioned only because SGI sheets for some of the areas are not in Map Branch, CIA In French; IGN reprint adds English legend; Japanese reprint adds Japanese legend	File copies, Map Branch, CIA, Call Nos.: SGI set, H501-28, 2883; IGN set, H501-28, 29438; Japanese set, uncatalogued File copies, Library, AMS, Call Nos.: SGI and IGN sets, 2L 3-28-3301-400; Japanese set, 2L 3-28-31008-400
<i>Also listed in Sections I, II, and III</i>							
22. Principal Waterways of Tonkin, from <i>Indo-China, Guide to the Navigation of the Rivers of Tonkin</i> , Fig. 2		1:400,000	[Great Britain], Inter-Service Topographical Department 1945	Principal waterways and their names	No coordinates	Very clearly drawn RESTRICTED	Library, AMS, Doc. 5D 20,072
23. Indo-China 1:253,440 (98 sheets almost all available,) Border sheets included from adjoining AMS sets; see index map, Fig. 6		1:253,440	AMS L504 (Reprint of HIND 1051) Various dates: 1942-1947	Detailed hydrographic pattern	Roads: 5 classes, distances, colonial route numbers, road bridges Railroads, tramways, stations, railroad bridges Numerous towns Relief: contours, form lines, spot heights Province boundaries Numerous other cultural and topographic features British military grid; magnetic declination	Detailed; little choice between this and Map 24 RESTRICTED	Q - AMS
<i>Also listed in Sections I, II, and III</i>							

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	INLAND WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity) Q - ACS
24. AF Aeronautical Approach Charts (70 sheets, 59 available) See index map, Fig. 7		1:250,000	Aeronautical Chart Service, USAP Various dates: 1943-1946	Detailed hydrographic pattern	Airfields and facilities: detailed classification Roads: 3 classes, route numbers, road bridges and tunnels Railroads, railroad bridges and tunnels Numerous towns: 6 classes Relief: contours, form lines, or hachures; layer lines, spot heights Isogonic lines Numerous other cultural and topographic features	Detailed; little choice between this and Map 23	Q - ACS
<i>Also listed in Sections I, II, III, and IV</i>							
25. Carte de la Cochinchine Administrative (6 pieces)		1:200,000	Service de Cadastre de Cochinchine 1931	Canals: principal, secondary, tertiary	Roads: 3 classes, route numbers Railroads Town: several administrative classes Relief: hachures for peaks only Province, canton, and village boundaries No coordinates	In French	File copy, Library, AMS, Call No. 32L 1-28-33026-200
26. The Falls of the Me-Khong, at Khon, from Indochine du Sud, Guides Madrolle, p. 176		1:125,000	Société d'Éditions Géographiques, Maritimes et Coloniales, Paris, 1930	Falls	Roads Railroads No coordinates	Shows one of the worst obstacles to river transport on the Meizong in French	Map Branch, CIA, Call No. D6 525
27. Carte de l'Indochine (about 450 half-sheets, almost 300 available)		1:100,000	Service Géographique de l'Indochine Various dates: 1899-1944 Almost half are 1940 or later; about one-third are 1930-39; very few are 1915-1925 Most of the more recent sheets are available only at AMS	Detailed hydrographic pattern, including waterfalls, rapids, dams Canals: navigable, irrigation; locks	Roads: 5 classes; several classes of road bridges; ferries, fords Railroads, tramways, stations, railroad bridges Numerous towns: 5 classes Relief: contours or hachures, shading, spot heights Province boundaries Numerous other cultural and topographic features Coordinates in grads, longitude based on Paris meridian	Basic topographic set of Indo-China; extremely detailed In French	File copy, Library, AMS, Call No. 2L 3-15-35001-100 File copy, Map Branch, Library, CIA, Call No. H501-30, 500106
<i>Also listed in Sections I, II, and III</i>							
28. Indo-China 1:100,000 (about 450 half-sheets, approximately 250 available)		1:100,000	HIND 1000 Various dates: 1942-1945	Detailed hydrographic pattern Canals: navigable, irrigation	Roads: 4 classes, road bridges Railroads, tramways, railroad bridges Numerous towns Relief: contours or hachures, spot heights Province boundaries Numerous other cultural and topographic features British military grid; geographic coordinates in grads, longitude based on Paris meridian; geographic coordinate stubs in degrees, longitude based on Greenwich meridian; magnetic declination	Extremely detailed; taken from Map 26, but not all detail included; a few sheets are later in date than corresponding sheets of Map 26 but bear few changes	File copy, Library, AMS, Call No. 2L 3-15-35001-100 File copy, Map Branch, CIA, Call Nos.: H501-30, 500107 and 24407
<i>Also listed in Sections I, II, and III</i>							

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	INLAND WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY (Q...in quantity)
29. [Maps of landing areas], from <i>Military Topographical Study of Northern French Indochina</i> , Documents Branch Translation 78 and Japanese original, Vol. 1 a. Non Cay, Map 3 b. Ha Col, Map 4 c. Tien Yen, Map 5 d. Cam Pha, Map 6 e. Non Gay, Map 7 f. Dien Dien, Map 8 g. Pha Dien [Phu Dien], Map 9 h. Sam Son, Map 10		1:100,000	Japanese Southern Army, General Headquarters 1944	Detailed description of navigability of waterways	Detailed description of military geography of areas No coordinates	Somewhat rough drafting, but legible in Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 158877 (original) and Translation 78
30. [Sketch maps], from <i>Indo-China, Guide to the Navigation of the Rivers of Tonkin</i>		Ca. 1:25,000	[Great Britain], Inter-Service Topographical Department Various dates: 1931-1935	Small sections of the rivers of Tonkin: channels, rocks, other outstanding features, bridges and their dimensions, depths, detailed descriptions of navigability	—	Sketchy, but information is available nowhere else; accompanying text. Maps in French; accompanying text in English RESTRICTED	Library, AMS, Doc. 5D 33,072

VI. OCEAN WATERWAYS MAPS




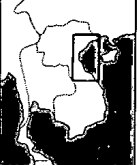
Maps of ocean waterways are limited chiefly to hydrographic charts published by official agencies. The charts for Indochina are in general reliable, and the entire coastline and the lower reaches of the Mekong River are covered by charts at various scales. Detailed large-scale charts have been published for important ports and bays. Like most hydrographic charts, those for Indochina give soundings, bathymetric lines, tide and current data, navigational aids and hazards, and coastal features. Topographic features, including important landmarks visible from the sea, are shown for a narrow strip of land bordering the coastline. The most useful of the nautical charts on Indochina are those published by France and by the United States. Index maps for the charts of both series are appended. The charts are not described individually because all follow the standard pattern.

The nautical charts of the French Service Hydrographique de la Marine are the basic charts on Indochina. They offer the most detailed coverage (see index map, Fig. 9), and are the principal source of data for hydrographic charts produced by other countries. Although some are dated as early as 1867, over half of the French charts have been published since 1925. About 15 percent were published before 1900, and about 20 percent since 1940. A complete file of

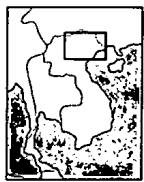
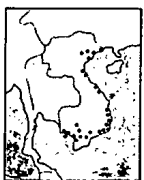
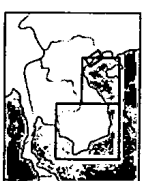

the French charts is maintained in the Division of Maritime Security, U.S. Hydrographic Office. The titles, dates, and scales of the charts are listed in *Catalogue des Cartes, Plans et Ouvrages* (Service Hydrographique de la Marine, Paris, 1945), which is available in the Map Library, CIA, as well as at the U.S. Hydrographic Office.

The U.S. Hydrographic Office has constructed its own editions of about half of the French charts on Indochina. For coverages, scales, and dates, see index map, Fig. 9. Although based on the French surveys, most of the USHO charts have been brought up-to-date from mariners' notices and intelligence reports.

The few single-sheet maps listed below include a variety of general information on ports, routes, distances, and types of ships in operation, as well as some details on tidal currents and port facilities. Additional material on harbors and port facilities appears in *Military Topographical Study of Southern Indochina*, Japanese Southern Army, General Headquarters, August 1944. The original and an English translation are available in the Foreign Documents Branch, CIA (Doc. 158658 and Translation 149 CONFIDENTIAL).

TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	OCEAN WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY
1. The Ports of Indo-China, from Indo-China, BR 510, Fig. 121, p. 37		1:10,000,000	[British Admiralty] Naval Intelligence Division 1943 (information as of 1938)	Major and minor ports	—	RESTRICTED	IR/R, State, Call No. 8615/141G
2. Indochina, Ports and Landings, from Indochina, JANIS 70, Chapter I, Fig. 1-31		1:5,500,000	Joint Intelligence Study Publishing Board 1945	Primary ports, secondary ports, other landing points	—	RESTRICTED	IR/R, State, Call No. 810/23306/70 Negatives available at Map Library, CIA
3. Burma, Malaya, and Indo-China		1:4,000,000	The Edinburgh Geographical Institute, John Bartholomew & Son 1942	Ocean waterways: routes and distances	Roads Railroads Numerous towns Relief: layer tints	—	File copy, Map Branch CIA, Call No. HQ1-23, 32827
<i>Also listed in Section I</i>							
4. Harbors of Northern French Indochina from Military Topographical Study of Northern French Indochina, Documents Branch Translation 78 and Japanese original, Vol. III, Map 7		1:1,500,000	Japanese Southern Army, General Headquarters 1944	Harbors; descriptive details given for some	Roads Railroads No coordinates	Somewhat rough drafting, but legible in Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 158627 (original) and Translation 78

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TITLE	COVERAGE	SCALE	PUBLISHER AND DATE	OCEAN WATERWAYS DATA	OTHER DATA	REMARKS	AVAILABILITY
5. North Indochina Marine Transportation and Transport Ships, from <i>Military Topographical Study of Northern French Indochina</i> , Documents Branch Translation 78 and Japanese original, Vol. 1, Map 102		1:500,000	Japanese Southern Army, General Headquarters 1944	Ships operating from various ports Marginal tables: vessels in marine transport (number, tonnage, types); types of river vessels (tonnage, length, width, draught, speed)	No coordinates	Somewhat rough drafting, but legible In Japanese, with English translation CONFIDENTIAL	Foreign Documents Branch, CIA, Doc. 14527 (original) and Translation 78
<i>Also listed in Section V</i>							
6. Maps of port facilities, from <i>French Indo-China, Port and Terminal Facilities</i> , Strategic Engineering Study 78, Vol. 5, Sec. 1		Various: 1:5,000 - 1:400,000	Military Intelligence Section, Office, Chief of Engineers 1943	Port facilities: lighthouses, docks, depths, bridges, etc.	—	Accompanying text, photographs, diagrams RESTRICTED	Library, AMS, Doc. 3652
7. Tidal Currents, from <i>Indochina</i> , JANIS 70, Chapter III a. Southwest and Southeast Coasts of Indochina, Fig. III-10 b. Northeast Coast of Indochina, Fig. III-11 c. Approaches to Haiphong, Fig. III-12 d. Archipel des Pal Tai Long, Fig. III-13 e. Ile de Ke Bno to Ile Du Keranint, Fig. III-14		a. 1:3,700,000 b. 1:6,250,000 c. 1:200,000 d. 1:345,000 e. 1:560,000	Joint Intelligence Study Publishing Board 1945	Details on tidal currents of important areas	—	Data given by tables keyed to locational symbols on outline maps RESTRICTED	LR/R, State, Call No. 910/23808/70
8. [Maps and photographs of port facilities] from <i>Indochina</i> , JANIS 70, Chapter VI		Various	Joint Intelligence Study Publishing Board 1945	Port facilities: numerous detailed maps and photos	—	Major ports covered; accompanying text RESTRICTED	LR/R, State, Call No. 910/23808/70

LIST OF ABBREVIATIONS

ACS	Aeronautical Chart Service
AMS	Army Map Service
BR	Book of Reference [Great Britain]
CIA	Central Intelligence Agency
FEA	Foreign Economic Administration
GSGS	Geographic Section, General Staff [Great Britain]
HIND	Directorate of Military Survey, India [Great Britain]
HO	Hydrographic Office
ID4 Inf. Div.	Meaning unknown
IGN	Institut Géographique National [France]
ISTD	Inter-Service Topographical Department, [Great Britain]
LC	Library of Congress
LR/R, State	Division of Libraries and Reference Services, Reference, Department of State
Mov. & Tn. Div.	Meaning unknown
OSS	Office of Strategic Services
PID	Photo Intelligence Detachment
SACSEA	Supreme Allied Command, Southeast Asia
SGI	Service Géographique de l'Indochine
SWPA	Southwest Pacific Area
USAF	United States Air Force

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INDOCHINA : SELECTED MAP COVERAGE - 1:1,000,000

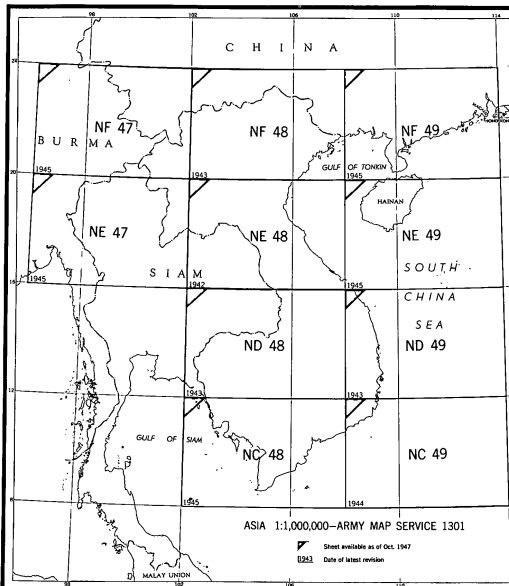


Figure 1

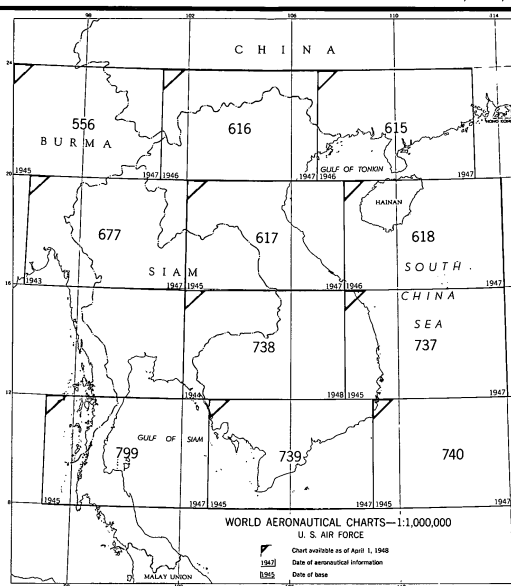


Figure 2

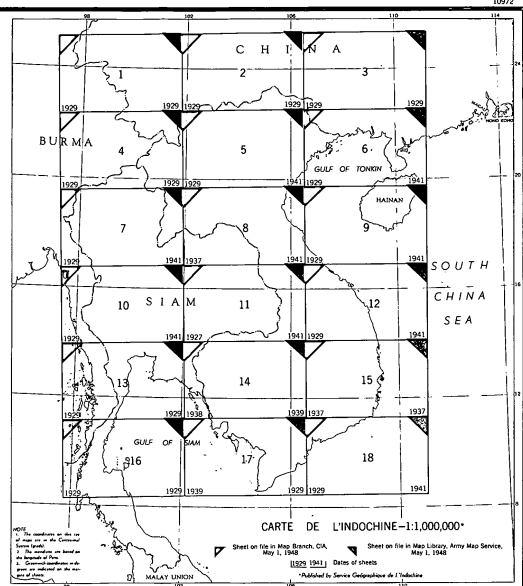
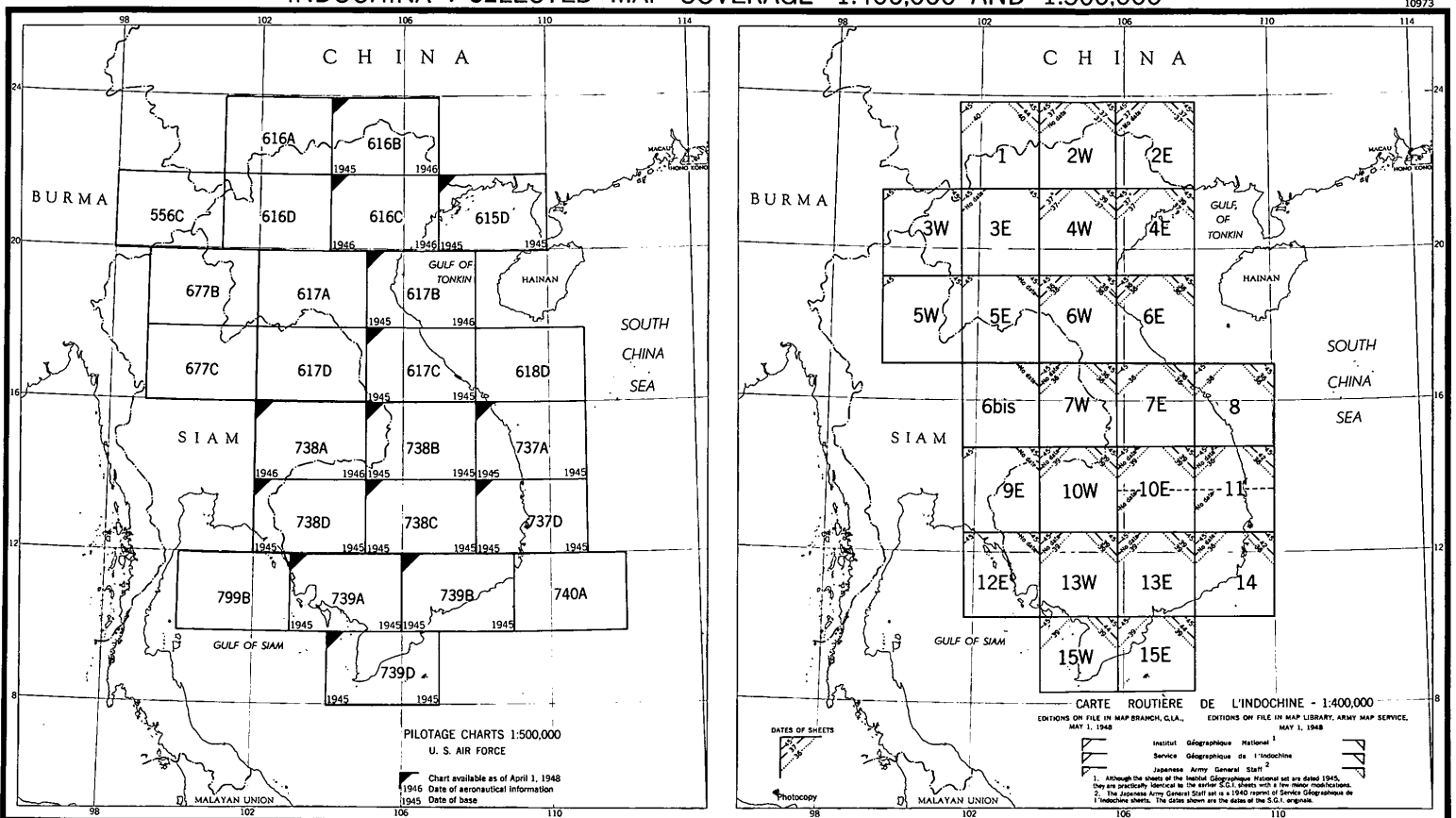
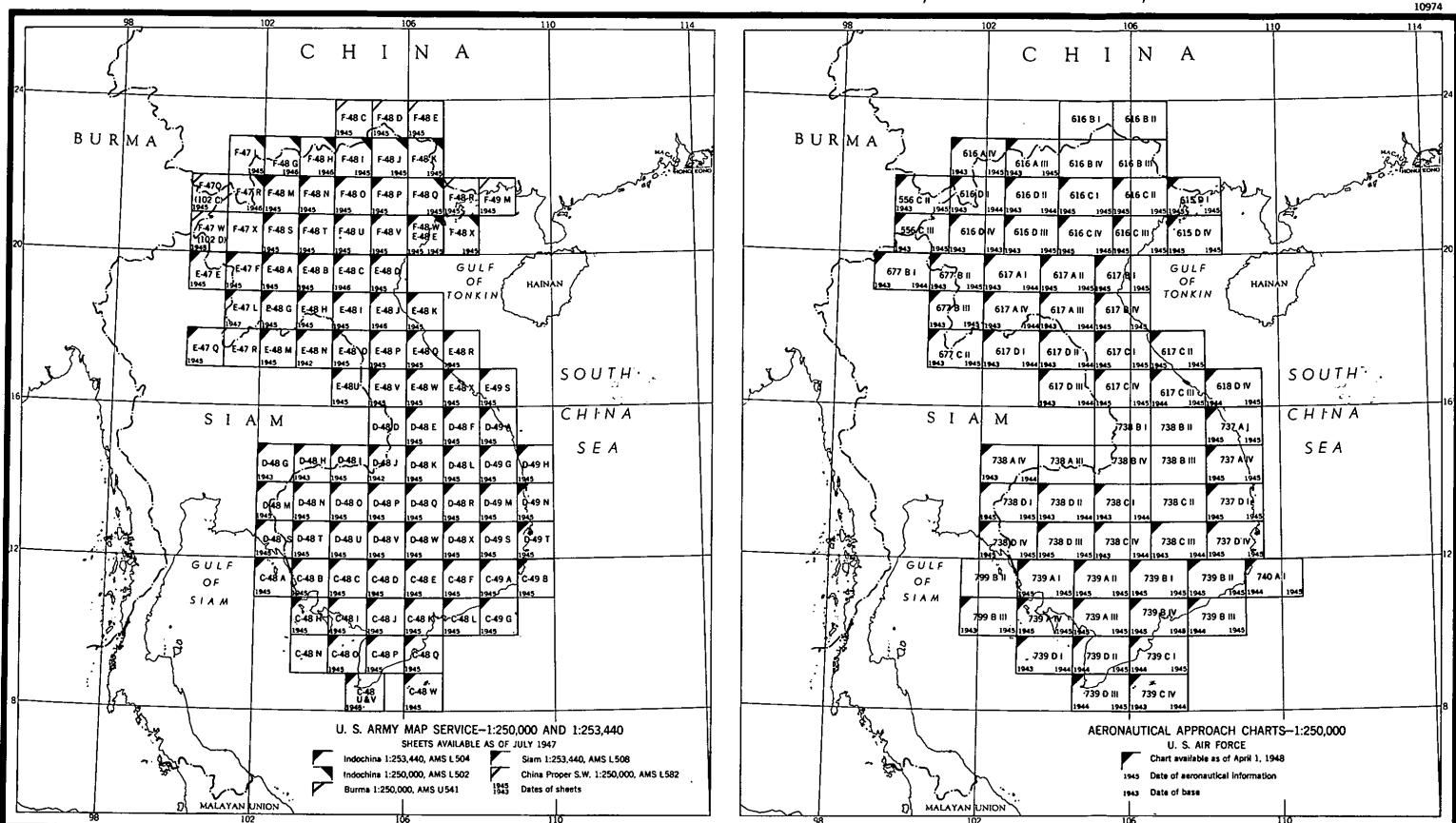


Figure 3

INDOCHINA : SELECTED MAP COVERAGE -1:400,000 AND 1:500,000



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INDOCHINA:SELECTED MAP COVERAGE-1:250,000 AND 1:253,440



ASIA THAILAND, FRENCH INDOCHINA AND SOUTH COAST OF CHINA

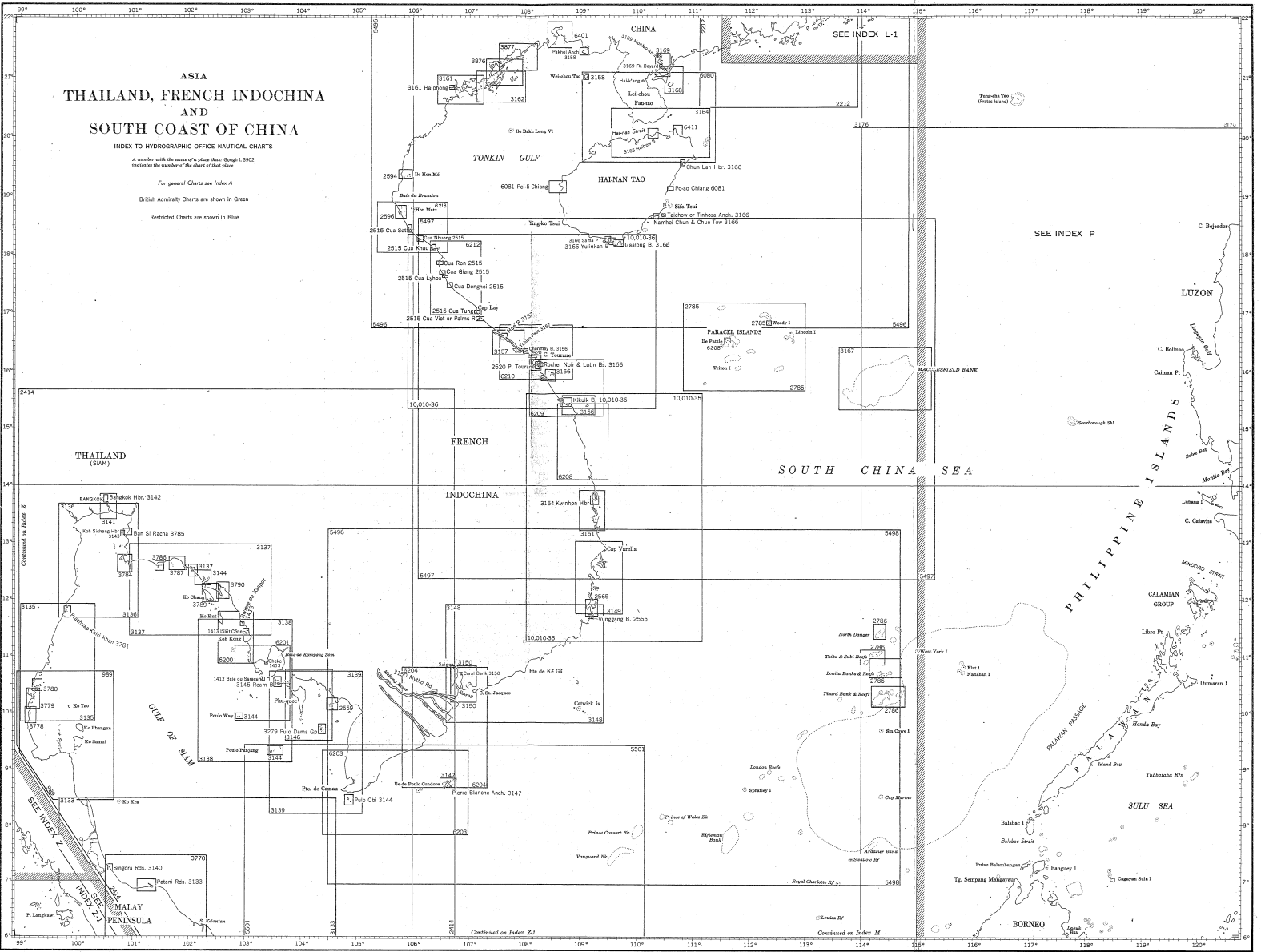
INDEX TO HYDROGRAPHIC OFFICE NAUTICAL CHARTS

A number with the name of a place that, though 1:2000
indicates the number of the chart of that place

For general Charts see Index A

British Admiralty Charts are shown in Green

Restricted Charts are shown in Blue



ASIA
THAILAND, FRENCH INDOCHINA AND
SOUTH COAST OF CHINA

INDEX L-2

CHART NO.	TITLE AND CONTENTS OF CHARTS	SCALE		EDITION NO.	DATE	PRICE
		NATURAL I.	HIGH MILES			
2015	ANCHORAGES ON THE COAST OF ANNAM A. Coa Viet of Palma River B. Coa Tonk C. Coa Khas D. Coa Son E. Coa Giang F. Coa Nhomg G. Coa Son H. Coa Donghai I. Coa Lybon	15,000 15,000 20,000 20,000 15,000 20,000 15,000 15,000 15,000	4.86 4.86 3.92 3.92 4.86 3.92 4.86 4.86 4.86	4	Nov. 1944	\$0.40
2020	YONKANG BAY Plan: Fort Tonkin	45,000 14,500	1.75 4.86	4	May 1940	.30
2029	BALIS ISLANDS AND ADJACENT COASTS, GULF OF SIAM	35,400	2.09	2	Aug. 1923	.30
2066	CAMBARI BAY (FRENCH INDOCHINA) Plan: YONGKING BAY	36,400 18,000	2.09 4.86	2	Jan. 1940	.40
2094	SIEN SON TO CAP BANG, INCLUDING HON ME GROUP, (FRENCH INDOCHINA)	35,000	2.08	3	May 1941	.30
2096	HONG SA AND APPROACHES FROM THE ENTRANCE TO YONG, (FRENCH INDOCHINA)	35,000	2.08	4	Jul. 1929	.30
2780	PARANG ISLANDS Plan: Woody Island	281,400 30,800	0.22 1.24	5	Mar. 1924	.30
2786	REEFS IN THE SOUTH CHINA SEA A. North Group (Hainan Sp.) B. This Island (This Sp.) and Saki Reef (Saki Sp.) C. Lantao Island (Hainan Sp.) and Reefs D. Tiantao Island (Hainan Sp.) and Reefs	117,840 117,840 117,840 117,840	0.61 0.61 0.61 0.61	4	Aug. 1944	.50
3103	PULO KAPAS TO LAKSON ISLANDS GULF OF SIAM Plan: Patani Roads	670,744 170,000	0.33 0.43	4	Feb. 1930	.40
3135	LANGSIAN ISLANDS TO FRACORON KHEIKHAN, GULF OF SIAM	240,000	0.30	3	Apr. 1944	.50
3137	FRACORON KHEIKHAN TO KONG CHUANG, GULF OF SIAM	240,000	0.30	5	Jan. 1934	.50
3138	CAPTAIN IEM SAMBANTO TO KUT ISLAND, GULF OF SIAM Plan: Chantaburi (Chantabun) River and Approaches	203,947 50,718	0.35 1.22	3	May 1920	.40
3138	KUT ISLAND TO KEM BAY, GULF OF SIAM	294,274	0.24	1	Aug. 1924	.40
3139	SIEN SON TO THE ISLANDS GROUP OF SIAM PENINSULA	294,708	0.24	2	Dec. 1922	.40
3140	PLANS ON THE EAST COAST OF THE MALAY PENINSULA A. Entrance to Pahang River (See Note 2) B. Sungai Singkilin Roads C. Kuala Trengganu (See Note 2) D. Coast Between Pahang (See Note 2) E. Entrance to Kuantan River (See Note 2) F. Entrance to Rompin River (See Note 2) G. Jambay Bay (See Note 2)	18,241 40,888 20,000 35,400 20,011 12,729 13,421	4.00 1.81 2.92 2.00 2.45 5.68 5.94	1	Apr. 1924	.50
3141	THE SIEMNAN CHIAO PHATA HARBOUR RIVER	48,441	1.40	3	Apr. 1924	.50
3142	HANGKOK HARBOR FROM SOUTHERN HANGKOK LIGHT TO PHU NAMA VI BRIDGE	15,000	5.86	3	Nov. 1922	.30
3143	KONG HONG HARBOR, GULF OF SIAM	15,000	4.86	4	Apr. 1927	.30
3144	PLANS IN THE GULF OF SIAM Pulo Oa (Hoi Khou) Sungai Oa to Mueang Wala Pulo Prajeng Pulo Wai to Koh Yonngat	72,748 149,886 72,748 72,748	1.00 1.00 1.00 1.00	4	Jan. 1929	.30
3145	SIEM SON BAY, (FRENCH INDOCHINA)	25,000	2.92	2	Jul. 1942	.40
3146	SIEM SON BAY FROM SIEM SON AND CHANGHEU LEADING TO THE ANCHORAGES OFF KAMPOT, GULF OF SIAM	147,344	0.60	1	Jan. 1924	.40
3147	PULO CONDOR GROUP (FRENCH INDOCHINA) Plan: Pulo Condor Anchorage	40,000 12,000	1.82 4.86	3	Nov. 1929	.30
3148	SIAMON RIVER TO CAMBANG BAY, (FRENCH INDOCHINA)	300,000	0.22	7	Jan. 1928	.40
3149	CAMBANG BAY TO CAPE VARELLA, (FRENCH INDOCHINA)	150,000	0.48	3	Mar. 1922	.40
3150	SIAMON ON DONNAI RIVER, (FRENCH INDOCHINA) Plan: Port of Salpas Coast Road Mythe Road	75,000 25,000 12,000 50,000	0.97 2.92 4.86 1.46	1	Mar. 1926	.50
3151	APPROACHES TO BAY DE KHAN DAI AND BAY DE KHAN HONG, (FRENCH INDOCHINA)	75,000	0.97	1	Jul. 1945	.50
3154	KWANGSHAN (KUNSHAN) HARBOR, (FRENCH INDOCHINA)	25,000	2.92	2	Jan. 1929	.30
3155	ANCHORAGES ON THE COAST OF ANNAM Chemy (This Sp.) Bay Boche-Nice and Lahn Bays Chau Cham and Entrance to River Fulo Khuik (Dung Quai) Bay and Approaches	35,000 35,000 35,000 150,000	2.08 2.08 2.08 0.48	3	Sep. 1921	.50
3157	APPROACHES TO SIEN AND THIEEN FANG (FRENCH INDOCHINA) Plan: Hoi River Entrance Tulien Fats	28,000 20,746 15,000	1.26 3.82 4.06	3	Mar. 1943	\$0.40
3158	PLANS ON THE SOUTH COAST OF CHINA TAMAI (CHANG) BAY (See Note 2) Palnai (Pai-nai) Anchorage Tungai Bay and River Wai Chow (Gou Chai)	24,225 67,313 72,078 50,000	3.01 1.27 1.00 1.46	2	Oct. 1921	.30
3161	APPROACHES TO HAIPHONG INCLUDING THE ISLES OF THE HAIPHONG GULF Plan: Haiphong	75,000	0.97	5	Nov. 1940	.70
3162	THE BUREAU OF THE SOUTH GULF FAITHFULNESS ANCHORAGE AND THE IN- TERRIOR CHANNELS, (FRENCH INDOCHINA)	75,000	0.97	4	Dec. 1941	.80
3164	SIAMON STRAIT, (CHINA)	147,701	0.50	3	Feb. 1922	.50
3165	SIAMON STRAIT, (CHINA)	86,327	2.00	3	Dec. 1925	.30
3166	ANCHORAGES ON THE SOUTH COAST OF HAINAN ISLAND A. Nainbo Chan and Chou Tow Anchorage B. Saina (Sai-nai) Port C. Yuhuan (Yuhuan) Bay D. Gaoxing (Gaoxing) Bay E. Tishan of Tishan Anchorage F. Chudai (Chudai) Harbor	45,998 15,000 40,000 45,797 30,000 68,029	1.50 3.92 1.82 1.40 2.00 1.07	1	May 1921	.30
3167	MACLESFIELD BANK, (SOUTH CHINA SEA)	302,000	0.18	2	Apr. 1929	.30
3168	ENTRANCE AND APPROACHES TO KWANG- CHOW BAY, (CHINA)	50,000	1.46	5	Nov. 1929	.50
3169	KWANGCHOW WAN AND RIVER MATSHE (CHINA) Plan: Port Bayard Matshe Anchorage	40,000 15,000 30,000	1.82 4.86 2.66	4	Sep. 1921	.50
3170	POHOA STRAIT AND TAIWAN (FORMOSA) WITH THE ADJACENT COAST OF CHINA FROM HONG KONG TO PANGLOSS	894,731	0.18	7	Nov. 1927	.40
3279	PULO DAMA GROUP, GULF OF SIAM	29,185	2.50	1	May 1924	.30
3780	AO CHIEPHON (CHIEPHON BAY) AND VICINITY, GULF OF SIAM	25,149	2.01	1	Jan. 1946	.60
3781	FRACORON KHEIKHAN AND VICINITY, GULF OF SIAM	20,000	2.65	1	Apr. 1944	.40
3784	AO TAIHAI (TAIHAIR BAY) AND APPROACHES, GULF OF SIAM	40,000	1.82	1	Mar. 1946	.50
3785	APPROACHES TO BAN H SACHA (SIEM- HANGKOK), GULF OF SIAM	15,000	3.65	1	Dec. 1945	.50
3786	KO SAMET AND VICINITY, GULF OF SIAM	20,016	3.65	1	Jan. 1946	.50
3787	APPROACHES TO BAN NAM PHASAR, GULF OF SIAM	40,000	1.82	1	Mar. 1946	.50
3788	KO CHANG CHONG, GULF OF SIAM	60,146	1.48	1	May 1946	.40
3790	AO TAIHAI (TAIHAIR BAY), GULF OF SIAM	40,000	1.82	1	May 1946	.40
5496	HUI DONG TO HONG KONG INCLUDING SIAMON ISLANDS	915,038	0.28	2	Oct. 1944	.70
5497	CAP VARELLA TO KHI FOONG	940,845	0.08	1	May 1944	.70
5498	POHOA STRAIT TO CAP VARELLA	899,213	0.08	1	Apr. 1943	.70
6001	SOUTH CHINA SEA, SOUTHWESTERN PART, SIAMON STRAIT (FRENCH INDOCHINA)	971,003	0.07	1	Apr. 1942	.80
6009	HAINAN STRAIT (FRENCH INDOCHINA)	297,440	0.27	1	May 1946	.50
6010	PLANS ON HAINAN ISLAND (HAINAN IS.) Pao Chang (Pao Chang Harbor) Pao Chang (Gao Bay)	20,010 70,400	2.42 1.03	1	Jan. 1946	.30
6030	PULO OIA TO ILE DE PULO CONDOR, (FRENCH INDOCHINA)	265,400	0.28	1	Feb. 1946	.60
6034	ILE DE PULO CONDOR TO RIVER DE SIAMON, (FRENCH INDOCHINA)	254,465	0.28	1	Mar. 1946	.60
6205	ILE PATTLE	15,000	4.86	2	Dec. 1946	.30
6209	CAP BATANGAN TO ILE SUFFLE (COE STRAIT), (FRENCH INDOCHINA)	150,175	0.48	1	May 1945	.60
6209	CAP TOULAN (TOULAN BAY) TO CAP BATA- GAN, (FRENCH INDOCHINA)	149,468	0.40	1	May 1945	.60
6210	ILE LAO CHAM TO ILE DE PULO CONDOR, (FRENCH INDOCHINA)	153,075	0.48	1	Jan. 1946	.50
6212	CAP BAY TO CAP KHI BOU, (FRENCH INDOCHINA)	133,960	0.48	1	May 1946	.60
*6213	CAP KHI BOU (KHI BOU) TO HON MATY, (FRENCH INDOCHINA)	121,440	0.48	1	1947	.60
6401	CHIN-CHOU WAN (CHIN-CHOU GULF) Plan: Chou Wan, Siem Son Part	50,000	1.46	1	Sep. 1945	.50
6411	SAN SHUO-LAO (SOUTH CHINA SEA) (FRENCH INDOCHINA)	100,000	0.72	1	May 1946	.50
10010-35	CAPE PARANAN AND ISLANDS TO CILAU SE (PULO CONDOR), (FRENCH INDOCHINA)	30,000	2.43	1	May 1946	.50
10010-36	CAPE PARANAN AND ISLANDS TO CILAU SE (PULO CONDOR), (FRENCH INDOCHINA) Plan: Khouk Bay (Dung Quai Bay)	800,000 50,000	0.15 1.46	2	Mar. 1944	.60

*New chart in preparation.

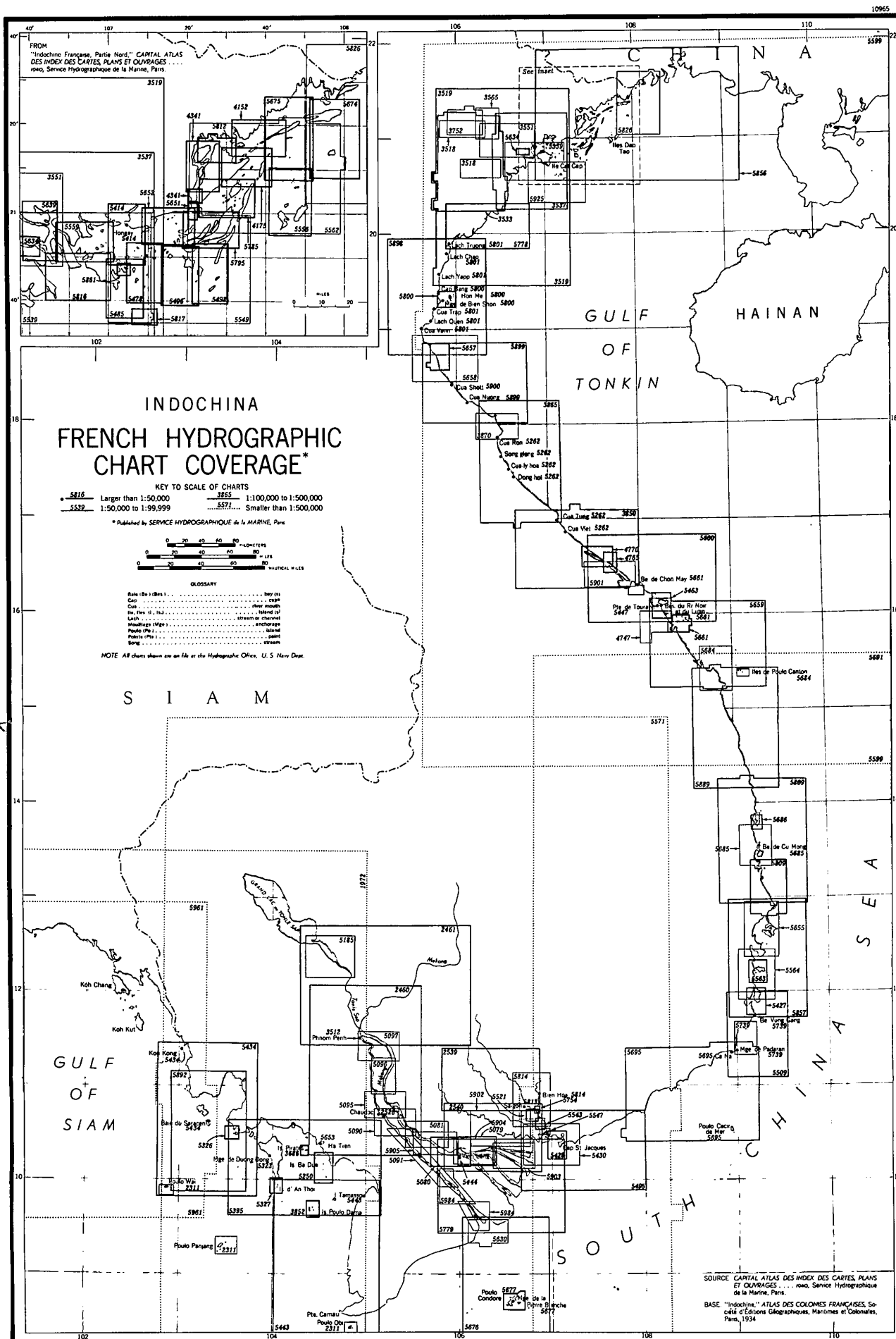


Figure 9

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