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OUTLINE GUIDE FOR JANIS 81 AND 85

Purpose of a JANIS Study: "To make available one publication containing all the necessary detailed information upon which may be based a war plan for military operations in a given area."

CHAPTER RESPONSIBILITY

<u>Chapter</u>		<u>Responsible Agency</u>
I	BRIEF	JISPB
II	MILITARY GEOGRAPHY	MID
III	OCEANOGRAPHY	ONI
IV	COASTS AND LANDING BEACHES	ONI
V	CLIMATE AND WEATHER	JMC
VI	PORT FACILITIES	ONI
VII	TRANSPORTATION AND COMMUNICATIONS	OSS
VIII	CITIES AND TOWNS	OSS
IX	RESOURCES AND TRADE	OSS
X	PEOPLE AND GOVERNMENT	OSS
XI	HEALTH AND SANITATION	MID (SGO)
XII	DEFENSES	MID
XIII	NAVAL FACILITIES	ONI
XIV	AIR FACILITIES	A-2
APPENDIX I	GEOGRAPHICAL GLOSSARY	BGN

INCLOSURE #2

\*JCS review completed\*

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CHAPTER I

BRIEF

10. Orientation.
11. Topical Briefs.
  - A. Military geography.
  - B. Coasts and landing places.
  - C. Oceanography.
  - D. Weather and climate.
  - E. Port facilities.
  - F. Transportation and communications.
  - G. Cities and towns.
  - H. Resources and trade.
  - I. People and government.
  - J. Health and sanitation.
  - K. Army, Navy and Air.

CHAPTER II

MILITARY GEOGRAPHY

20. Introduction.

Definition of military geography and its significance in this area. General explanation of chapter organization. Reference to brief in Chapter I and to A sections of topics in this chapter for major lineaments. Invite attention to Plans accompanying this chapter. Relationship of this chapter to other chapters.

21. Relief.

- A. General description of relief. Introduction of regional subdivision which is treated in detail in 21B.
- B. Relief description by regions. To include such materials as: Defensive zones, effects on movement, corridors.

22. Drainage and Water Supply.

- A. Description of general drainage pattern and water supply for area as a whole. Indicate major lakes, swamps, streams, and water supply conditions, and point out their relation to military operations.
- B. Description of drainage and water supply of each relief region and relation of drainage and water supply to military operations. Include such material as: width, depth, bottom, flow, banks, navigability, seasonal change.

23. Soil Trafficability.

- A. General explanation of soil trafficability and major factors which affect it in this area. Detailed explanation of soil morphology and of climatic conditions in area not required.
- B. Soil trafficability by regions. Indicate seasonal changes.

24. Vegetation.

- A. General types of vegetation cover, and relation of each to military operations.
  - (1) Uncultivated
  - (2) Cultivated
- B. Detailed description of uncultivated and cultivated vegetation pattern within each relief region. Include such material as: Cover, concealment, fuel, forage, construction, camouflage, seasonal change, effect on movement and combat.

25. Regional Summary Table. To include a summary of relief, drainage, vegetation, natural water supply and seasonal changes for each of the relief regions. Small islands not treated in detail in text may be included in table.

26. Natural Critical Areas.

- A. Definitions of natural critical area - ground, naval, and air considerations.
- B. List of natural critical areas with brief statement concerning the importance of each to tactical and strategical planning.

27. Routes to Natural Critical Areas.

- A. General description of route pattern for area as a whole.
- B. Detailed description of major and alternate routes. To include description of relief, potential defensive zones, vegetation, drainage and water supply, soil trafficability, seasonal characteristics.

28. Principal Sources.

29. Brief.

A full summary of the chapter giving essential facts to be included in Chapter I. The most important maps and illustrations may be repeated in Chapter I, and reference to them should be included in the text material.

## OUTLINE GUIDE FOR JANIS

## CHAPTER III

OCEANOGRAPHY

## 30. Introduction.

Relation of Oceanography to operations in this area. General explanation of chapter organization. Reliability of data. Invite attention to any important figures or plans accompanying chapter.

## 31. Tides and Currents.

## A. Tides.

- (1) Tidal differences and constants.
  - (a) Time differences.
  - (b) Height differences.
  - (c) Ranges.
  - (d) Levels.
  - (e) Example.
- (2) Sun, moon and tides.

## B. Tidal and local currents.

## C. General circulation.

## 32. Sea and Swell.

## A. Sea.

- (1) Amounts of sea.
- (2) Direction of seas.
- (3) Relationship between wind velocity and state of sea.

## B. Swell.

- (1) Amount of swell.
- (2) Direction of swell.

## C. Local sea and swell conditions (optional).

## 33. Sea Water Characteristics.

## A. Surface and subsurface temperature.

- (1) Seasonal variation of surface temperature.
  - (a) Horizontal distribution.
  - (b) Temperature range.
  - (c) Ice.
  - (d) Relationship between sea and air temperatures.
  - (e) Fog.
- (2) Variation of temperature with depth.

## B. Surface and subsurface salinity.

- (1) Seasonal variation of surface salinity.
  - (a) Horizontal distribution.
  - (b) Salinity range.
  - (c) Electrical conductivity.
- (2) Variation of salinity with depth.

## C. Density.

- (1) Horizontal distribution of surface density.
- (2) Variation of density with depth.
- (3) Use of density gradients by submarines.

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- D. Acoustic conditions.
  - (1) Seasonal variation.
  - (2) Variation with depth.
  - (3) Background noise.
- E. Transparency and color of water.
  - (1) Transparency.
  - (2) Color.

34. Bottom Sediments.

- A. Characteristics of sediment types.
- B. Horizontal distribution.

35. Biological Factors.

- A. Algae (seaweeds).
- B. Bioluminescence ("phosphorescence").

36. Principal Sources.

37. Brief.

A full summary of the chapter giving essential facts, to be included in Chapter I. The most important maps and illustrations may be repeated in Chapter I, and reference to them should be included in the text material.

## OUTLINE GUIDE FOR JANIS

## CHAPTER IV

COASTS AND LANDING PLACES

## 40. Introduction.

General explanation of chapter organization. Parts of coast described and basis of selection. References to Plans, Sailing Directions, Port Facilities chapter, and appropriate charts for information on approaches, anchorages, and dangers to navigation. Problems of nomenclature. Reliability of data. Scale of bottom gradients. Use of nautical and statute miles. Note on use of past tense for description of navigational aids.

Break-down by major regions or sectors: summary of coasts; summary of beaches (include summary map or maps on standard JANIS base).

## 41. Region or sector.

- A. Single island or major division of coast: first segment or minor division (if details break-down is warranted).

General statement.

- (1) Coast (concise description of principal characteristics, progressing along coastal segment; give for each part of coast a brief general statement of offshore approach and shore features, followed by more complete description of coastal terrain. Treatment to be far less detailed than in sailing directions, as coastal description serves primarily as background for detailed landing place descriptions which follow).
- (2) Landing places (exclude general coastal description).
  - (a) Single beach (or group of closely related beaches) or single landing place (or group of closely related landing places other than beaches) (piers, quays, breakwaters, river banks, low shores, etc.).
  - (b) Single beach or single landing place (as in (a) above).

NOTE: When description of beach or landing place (a), (b), (c), etc., is brief, entire description can be run without subheadings. When description is longer or when several closely related beaches or landing places are described as a unit; further subdivision can be made under headings 1, 2, 3, 4, as follows:

(Single beach or group of closely related beaches.)

1. Location and extent (give location of beach, not of coastal segment; length and shape of beach; location with regard to landmarks and developed areas).
2. Nearshore (deal largely with area shoreward of 5-fathom line; bottom gradient and character of bottom; location and depths of reefs, bars, rocks, shoals, and other dangers; anchorage areas; local conditions of winds, tides, currents, waves and water temperatures).
3. Character of beach (physical consistency; width; gradient; surf and currents; structures such as groins and bulkheads; location of rivers and streams entering or crossing beach; tidal flats and salt marsh, including consistency of bottom; local use; local weather peculiarities; sources of water -- potable and non-potable; areas suitable for landings).
4. Adjacent terrain and exits. (Topography inland and on flanks of beach; roads, trails, waterways, and cross-country exits; emergency landing places for aircraft; nearest potable water; nearest radio, telephone, and telegraph; telephone, telegraph and power lines; power plants; railroads; habitations).

(Single land place or group of closely related landing places other than beaches.) (Refer to Port Facilities Chapter if described there.)

1. Location and extent (give location of landing place, not of coastal segment; location with regard to landmarks and developed areas).
  2. Nearshore (same as for beaches).
  3. Nature of landing place (structures; size and capacity; surf and currents; local use; local weather peculiarities; sources of water -- potable and non-potable).
  4. Adjacent terrain and exits (same as for beaches).
- B. Single island or major division of coast: second segment or minor division (if detailed break-down is warranted).

General statement.

(1), (2), as above.

- C. Single island or major division of coast; third segment, etc.

General statement.

(1), (2), as above.

42. Region or sector.

43. Region or sector.

44. Region or sector.

45. Region or sector.

46. Principal sources.

47. Brief.

A full summary of this chapter, giving essential facts to be included in Chapter I. The most important maps and illustrations may be repeated in Chapter I, and reference to them should be included in the brief.



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## CHAPTER V

CLIMATE AND WEATHER

## 50. Introduction.

Evaluation of material presented in chapter from standpoint of adequacy of records. General explanation of chapter organization inviting attention to important figures and tables.

## 51. General Climatic - Synoptic Regime.

- A. Brief description of climate and weather of area.
- B. Major climatic controls.
- C. Synoptic aspects of climate or weather.

## 52. Operational Significance of Climate and Weather.

(A concise strategic analysis, with one over-all citation of Topics 53 and 54 for details.)

- A. Ground operations.
- B. Air operations.
  - (1) Low level operations.
  - (2) High level operations.
  - (3) Incendiary bombing.
  - (4) Parachute operations.

- C. Naval operations.
- D. Amphibian operations.
- E. Chemical warfare.

## 53. Synoptic Weather Types and Forecast Problems.

## 54. Climate.

(Basic climatic data discussed by elements, with chief tables.)

- A. Precipitation.
- B. Temperature.
- C. Humidity.
- D. Surface wind.
- E. Sea and swell.
- F. Upper air wind.
- G. Cloud.
  - (1) Cloudiness.
  - (2) Ceiling.
- H. Turbulence and thunderstorms.
- I. Icing.
- J. Visibility, fog, haze, dust, smoke.
- K. Other climatic elements.

55. Principal Sources.

⊗ Brief.

A full summary of chapter including essential facts to be included in Chapter I. Graphs and tables similar to those in Climatic Information Guide may be included with brief if desired.

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## CHAPTER VI

PORT FACILITIES

## 60. Introduction.

(Basis of selection between principal and secondary ports. Invite attention to chapter organization, important illustrations, etc.).

## 61. Principal Ports.

## A. Name of port. (Brief description or highlight of port.)

- (1) Harbor (type, customary use, depth, size, shelter).
  - (a) Entrance channel.
  - (b) Anchorage (area, depths, holding ground, number of berths - if possible).
  - (c) Significant hydrographic features (tides, currents, etc.).
  - (d) Local weather (very brief treatment as affecting port operations).
- (2) Landing facilities.
  - (a) Piers, wharves, and quays (brief summary statement on character, strength, etc., of facilities followed by description by units in tabular form):
    1. Name and location (reference number on map).
    2. Owner and operator.
    3. Type and use.
    4. Constructor.
    5. Dimensions and depths alongside (include length of berthing space, width of apron, maximum weight, etc., if available).
    6. Transit sheds.
    7. Mechanical handling facilities (number, type capacity per lift, reach of boom, motive power).
    8. Rail connection.
    9. Capacity for general cargo (tons per day).
    10. Facilities for high handling.
    11. Other facilities (specific headings such as: water piped on, oil lines, etc.).
    12. Remarks.
  - (b) Other mechanical handling facilities (in tabular form).
  - (c) Harbor craft.
- (3) Storage facilities.
  - (a) Grain elevators (capacity, type, rate of loading, etc.).
  - (b) Storage warehouses (location, type, railway sidings and truck platforms, capacity, type and character of receiving and shipping appliances).
  - (c) Supply dumps (location, area, transportation connections).
- (4) Capacity and clearance.
  - (a) Actual annual traffic (recent peak year, type of traffic, breakdown by major commodities).
  - (b) Estimated unloading capacity.
  - (c) Estimated clearance capacity.
  - (d) Facilities for clearing port (railroad, road, water, etc.).
- (5) Supplies (brief treatment of availability).
  - (a) Water (source, amount, quality).
  - (b) Oil and gasoline (bunkering capacity, storage tank capacity, stocks).
  - (c) Coal (bunkering capacity, stocks, method and rate of delivery).
  - (d) Electricity.
  - (e) Other supplies.

- (6) Repair facilities.
  - (a) Dry docks and marine railways (location, dimensions, capacity).
  - (b) Floating docks (dimensions, capacity).
  - (c) Marine repair plants (facilities, capacity).

62. Secondary Ports.

- A. Name of port.
  - (1) Harbor (location, type, depth, size, shelter, anchorage, weather, tides, number and size of berths).
  - (2) Landing and storage facilities (summary statement and tabular description by piers or quays, including warehouses, supply dumps, harbor craft).
  - (3) Clearance and capacity.
  - (4) Supplies (water, oil, coal, electricity, and other, specifically important to ships).
  - (5) Repair facilities (drydocks, marine railways, repair plants).

63. Principal Sources.

Brief.

(A full summary of chapter giving essential facts for inclusion in Chapter I.)

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## CHAPTER VII

TRANSPORTATION AND COMMUNICATIONS

70. Introduction.  
General statement of scope of Chapter. Invite attention to important illustrative material.
71. Railroads.
- A. General.  
(Pattern and strategic value; administration; track and right-of-way; type of motive power; ballast and standards of roadbed construction; locomotive and rolling stock equipment; repair facilities and yards; volume of freight and passenger traffic; capacity of lines--with existing and additional rolling stock.)
  - B. Individual lines.  
(Administration; track and right-of-way; type of motive power; ballast and standards of roadbed construction; locomotive and rolling stock equipment; repair facilities and yards; volume of freight and passenger traffic; capacity of line--with existing and added rolling stock; vulnerable points.)
72. Roads and Trails.  
(Pattern of system; effect of climate and weather; adjacent terrain; weight-axle load--of largest vehicle to use various road types; administration; standards of construction and quality; maintenance facilities; capacity. Description of main roads; repair facilities; water, gasoline and oil available.)
73. Water Transport.
- A. Coastal and inter-island water transport.  
(Routes both regular and irregular, ports-of-call; frequency of sailings; types of vessels used, native crews.)
  - B. Inland water transport.  
(Rivers, canals, lakes, lagoons; channels; water sources; traffic; capacity; hauling facilities; vulnerability.)
74. Radio.
- A. The radio system (broadcasting stations, administration, reception of broadcasts.)
  - B. Point-to-point communication.
  - C. Communication with aircraft.
  - D. Communication with ships.
  - E. List of radio stations.
75. Telegraph.  
(Pattern of network and localization of lines; stations; route equipment; local stocks of construction materials; standard of maintenance; administration; availability of trained personnel; vulnerable features.)
76. Telephone.  
(Pattern of network and localization of lines; trunk lines, rural lines; centrals; route equipment.)
77. Submarine cables.  
(Part of arrival and farther terminus; administration; equipment; facilities for repair and storage of reserve supplies; present condition; vulnerable features.)
78. Principal Sources.
79. Brief.
- A full summary of chapter giving essential facts to be included in Chapter I.

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## CHAPTER VIII

CITIES AND TOWNS

80. Introduction.  
General statement of scope of Chapter giving basis of selection between cities, towns and villages; invite attention to chapter organization, important illustrative material, etc.
81. General Description
- A. Pattern of urban settlement.
  - B. Degree of urbanization.
  - C. Functions of Cities and Towns.
  - D. General characteristics of Cities and Towns in the area.
  - E. Major cities.
82. Description of Cities.
- A. Name of city -- population.
    - (1) Importance from standpoint of strategic position, trade, population, political significance, etc.
    - (2) Physical characteristics.
      - (a) Relation to surface features.
      - (b) Shape and dimensions.
      - (c) Degree of compactness.
      - (d) Differentiated sections -- commercial, residential, industrial, etc.
      - (e) Street plan.
      - (f) Chief open spaces.
    - (3) Means of access.
    - (4) Buildings.
    - (5) Billoting facilities.
    - (6) Internal transportation.
    - (7) Repair and service facilities.
    - (8) Public utilities.
    - (9) Warehouses and storage.
    - (10) Health and sanitation facilities.
    - (11) War damage estimate.
  - B. Name of city (1 to 11 as S2A).
  - C. Name of city, etc. (1 to 11 as in S2A).
83. Description of Towns.  
(Use outline for cities for basic description insofar as practical).
84. Description of Native Villages.  
Types of villages (or other rural settlement) by regions.
85. Principal Sources.
- Brief.  
A full summary of chapter giving essential facts for inclusion in Chapter I.

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## CHAPTER IX

RESOURCES AND TRADE

Note on General Organization: Treat topics for area as a whole, with subdivision by islands (and prefectures) within topics wherever significant.

## 90. Introduction.

General statement of scope of chapter, invite attention to important illustrations, etc.

## 91. Food Resources.

- A. Agriculture. (Type and location of farming areas and production by islands including livestock, time of planting and harvesting, and methods of cultivation, annual regional surplus, marketing (local), recent production trends. Same on non-food crops.
- B. Fisheries. (Production, equipment, ports and facilities for edible fish. Note poisonous fish.)
- C. Processing, refrigeration and storage. (location, equipment, capacity, etc.)

## 92. Water Supply.

- A. Natural availability by islands or groups of islands.
- B. Developed sources (location, type, capacity, quality), adaptability to military water supply equipment, vulnerability.
- C. Distribution, use and storage (for each island).

## 93. Construction Materials.

(Location, distribution, reserves, ownership, quality, and quantity of wood, stone, clay, sand, gravel, lime, cement stone, etc. Wood is construction wood only. Give locations of forests, sawmills, and data regarding fire hazards.

## 94. Industrial Raw Materials and Primary Processing.

- A. General. (Characterization of area's position as exporter or net user of industrial raw materials, labor problems in mining and agriculture in general.)
- B. Minerals. (Location, production and trends, stocks and storage facilities, distribution by type and location of use, reserves, mining methods, power-water-fuel requirements, labor availability and quality, vulnerability to sabotage and bombing of; iron and alloy metals; non-ferrous metals; asbestos, sulfur, etc.)
- C. Fuel (coal, firewood only and petroleum). (Sources, quantity, stocks and storage facilities, distribution by type and location of use, ownership, labor availability, fire hazard in forests.)
- D. Agricultural and marine materials. (Sources--amount, quality, producing areas, stocks and storage facilities, possibility of expanding production, distribution by type and location of use.)

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## 95. Manufacturing Plants.

- A. General. (Characterization of industry of area as a whole, relation as consumer or source of material to rest of Japan; labor problems in manufacturing in general.)
- B. List by products.
- C. (Location, physical description, production and trends, raw etc. materials used, destination of final product, power-water-fuel requirements, labor quality and availability, nature of government controls and subsidization, vulnerability to sabotage and bombing and reparability, usefulness to invading forces.)

## 96. Electric Power (by islands).

- A. Generation. (Breakdown data between public use plants and private industrial plants.)  
Location, type, vulnerability; capacity in k.w., k.v.a. or h.p., and size; K.W.H. output; current characteristics; transmission, distribution, and area served; operator; source of replacement parts.
- B. Transmission and consumer distribution.  
Type of current; types of plugs and appliances; (source of power); transformer and substations; transmission--overhead or underground; power consumed in K.W.H.; loads--maximum recorded and totals connected in k.w.; principal use; available surplus power.

## 97. Commerce.

- A. Flow of trade. (Commodities, origins, and destinations.)
- B. Wholesale and retail trade. (Size of outlets, stocks and turnover; ownership and control; cost and profit factors affecting prices.)

## 98. Finance.

(Currency and coinage (note issue); checks and other financial instruments--brief description; foreign exchange rates and value of yen; brief description of banking system.)

## 99. Principal Sources.

Brief.

A full summary of the Chapter giving essential facts for inclusion in Chapter I.



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CHAPTER X

PEOPLE AND GOVERNMENT  
(In Area only)

100. Introduction.  
General statement as to scope of Chapter.
101. Population - Physical Characteristics.
102. Population - Cultural Characteristics and Social Conditions.
103. Suitability of Inhabitants for Labor.  
(Energy, skill, reliability, attitude, strength, etc.).
104. Governmental Organization (Local).
105. Security and Public Order.
106. Political Factors.
107. Principal Sources.

Brief.

A full summary of Chapter, giving essential facts for inclusion in Chapter I.

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CHAPTER XI

HEALTH AND SANITATION

- 110. Introduction.  
(An evaluation of material presented in Chapter from stand-point of adequacy of medical records.)
- 111. Environment.
  - A. Water.
  - B. Waste disposal.
  - C. Animals.
    - (1) Vectors of disease.
    - (2) Dangerous animals.
    - (3) Pests.
  - D. Plants.
  - E. Food.
- 112. Public Health and Medical Facilities.
  - A. Public health organization.
  - B. Hospitals and medical institutions.
  - C. Medical personnel (in broadest sense -- dentists, Veterinarians, etc.).
  - D. Social service agencies.
- 113. Diseases.
  - A. Diseases of military importance.
    - (1)
    - (2)
  - B. Diseases of potential military importance.
    - (1) Endemic diseases.
    - (2) Disease which may be introduced.
  - C. Diseases of minor military importance.
  - D. Diseases common among civil population.
  - E. Miscellaneous diseases.
- 114. Recommendations (in order of importance).
- 115. Principal Sources.
  - Brief
  - A full summary of chapter giving essential facts for inclusion in Chapter I.

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CHAPTER XII

DEFENSES

120. Introduction.  
 Statement of scope of Chapter indicating its organization and content. Invite attention to important illustrations, etc.
121. Organization of Army and Navy defense forces.
- A. Administration.
  - B. Tactics.
  - C. Normal disposition of forces (material and personnel).
  - D. Labor battalions (non-combat).
122. Supply and Maintenance.
- A. Depots. (Name, location, capacity and general description of supply and maintenance depots.)
  - B. Supply routes.
    - (1) Overland.
    - (2) Waterways.
123. Fixed Fortifications. (Include map overlay.) (List the defended ports and isolated landing beaches according to name, each a lettered sub-topic, and under each show the available information under 15 sub-paragraphs as follows.)
- (1) Coast defense batteries.
    - Name of battery.
    - Number of guns (distinguished between guns, howitzers, and mortars).
    - Caliber of guns.
    - Exact model of guns.
    - Exact location of emplacements.
    - Detailed description of emplacements.
      - Camouflage.
      - Protection for gun and crew.
    - Detailed description of guns.
      - Maximum range.
      - Effective range.
      - Type of loading.
      - Rate of fire.
      - Rate of traverse.
      - Types of projectiles available.
      - Color of dye of projectiles assigned to each gun.
      - Number of men in each gun crew.
      - Replacement crews available.
    - Ammunition dump, its exact location, and protection.
      - Method of bringing ammunition to guns.
    - Arc of fire of guns.
    - Landmarks to identify battery from seaward.
    - Location and detailed description of base and stations,
      - OP's, rangefinders, directors, plotting rooms and searchlights.
    - Method of communication with guns.
    - Local defenses.
      - AA guns.
      - Machine guns, trenches, wire entanglements.
      - Personal weapons of crew.
    - Places of the battery in the general organization of coast artillery.
    - Total number of men in the administrative battery.
  - (2) Emplaced field artillery batteries.
    - Same information required as for (1) above, with appropriate modifications.
    - Railway artillery which could be emplaced along a coast is to be described under this heading.

- (3) Medium AA batteries.  
Same information required as for (1) above, with appropriate modifications.  
Maximum and effective vertical and horizontal ranges.
- (4) Air warning systems.  
Lookout stations and equipment.  
Radar installations.  
Communication systems.  
Reaction to alerts.
- (5) Miscellaneous.  
Barrage balloons.  
Submarine detector equipment.  
Smoke generating apparatus.  
Beach patrols and observation posts.

124. Potential Defense Areas (include map overlay).  
Repeat sub-topics under 123 as applicable.

125. Bibliography.

Brief.

A full summary of Chapter, giving essential facts, for inclusion only in Chapter I.

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## CHAPTER XIII

NAVAL FACILITIES

## 130. Introduction.

Statement of scope of chapter indicating its organization and content. Invite attention to important illustrations, etc.

## 131. Organization (position in Japanese organization).

- A. Administration.
- B. Tactics (as applicable).
- C. Normal disposition of forces (ships and personnel within area).

## 132. Supply and Maintenance.

- A. Depots. (Name, location, capacity and general description of supply and maintenances depots.)
- B. Repair facilities; including repair ships. (Class, anchorage, capacity and general description of repair ships or tenders usually stationed in area.)
- C. Supply routes (to and in area).

## 133. Naval Bases and Stations (include map overlay showing these). List the bases and stations according to name, each a lettered subtopic, and under each show the available information under the numbered paragraphs as follows:

- A. Name of station.
  - (1) General description sketches, photographs, maps, etc., showing location, arrangement and extent.
  - (2) Harbor (type of harbor and nature of port, indicating depth, size, shelter, character of coast, customary use and arrangement.)
  - (3) Entrance channel.
  - (4) Anchorages (area, depths, holding ground, landmarks).
    - (a) Outer harbor.
    - (b) Inner harbor.
  - (5) Significant hydrographic features (tides, currents, sea, swell, etc.).
  - (6) Unloading facilities (general description of strength, character and capacity of piers, wharves, quays and other facilities).
    - (a) Description of a unit (or pier). (Here include a table, showing by units (No. and location)
      - (Type and use)
      - (Dimensions and depths alongside, including length of berthing space)
      - (Transit sheds, or other stowage)
      - (Craneage, including number, type, capacity reach and motive power)
      - (Rail or road connections)
      - (Capacity for general cargo)
      - (Facilities for night handling)
    - (b) Description of another unit. (Subtopics as under (a)).
    - (c) Description of another unit.
    - (d) Description of other units or beaches.
  - (7) Other craneage (including floating).

- (8) Warehouses, storage facilities, supply dumps.
    - (a) Warehouses (including capacity, type and reach of appliances railroad sidings and truck platforms, type and capacity of receipt and snipping appliances).
    - (b) Supply dumps (including areas suitable for dumps, indicating location, area and transportation facilities).
  - (9) Other unloading places (including beaches, submerged vessels, etc.).
  - (10) Harbor craft.
  - (11) Facilities for clearing port.
    - (a) Railroad.
    - (b) Road - type of paving, width, etc.
    - (c) Water.
    - (d) Other.
  - (12) Labor.
    - (a) Organized battalions.
    - (b) Native labor.
  - (13) Capacity.
    - (a) Estimated daily unloading.
    - (b) Estimated daily loading.
  - (14) Supplies - availability.
    - (a) Water (source, amount, quality, servicing).
    - (b) Oil and gasoline (bunkering and storage tank capacity, stocks, servicing).
    - (c) Coal (bunkering capacity, method and rate of delivery, stocks, servicing).
    - (d) Construction materials.  
(Concrete aggregate, lumber, etc.).
    - (e) Electricity.
  - (15) Repair facilities.
    - (a) Drydocks (location, dimensions, capacity).
    - (b) Marine railways (location, dimensions, capacity).
    - (c) Marine repair plants and shops (facilities, capacity).
  - (16) Vulnerability.
  - (17) Camouflage.
  - (18) Landmarks to identify from seaward.
134. Potential Naval Bases and Stations (include map overlay).  
(Repeat subtopics under 123 as applicable).
135. Bibliography.
136. Brief  
(A full summary of chapter, giving essential facts, for inclusion in Chapter I).

## OUTLINE GUIDE FOR JANIS

## CHAPTER XIV

AIR FACILITIES

## 140. Introduction.

Statement of scope of chapter indicating its organization and content. Invite attention to important illustrations, etc.

## 141. Organization.

- A. Administrative (if available).
- B. Tactical (if available).
- C. Normal disposition of forces, aircraft and personnel (if available).
- D. Labor battalions, non-combatant, (if available).

## 142. Supply and Maintenance.

- A. Depots (name, location, capacity and general description of supply and maintenance depots).
- B. Supply routes.

## 143. Airfields (detailed description, by sketches, photographs and tabulated data as applicable).

- A. Name of airfield.
  - (1) General description (local position, coordinates, elevation, runway directions and dimensions, estimated operational capacity, number of revetments, dispersal facilities).
  - (2) Facilities.
    - a. Fuel storage and servicing.
    - b. Night operation.
    - c. Repair and storage facilities for aircraft, engines and instruments.
  - (3) Field condition.
    - a. Runways, material used in construction, condition, slope, hazards.
    - b. Field.
      - (1) General condition, including drainage, type of soil, condition in rainy season, possibility of enlargement.
  - (4) Permanent defenses (include ammunition dumps).
- B. Name of airfield (1 to 3 as in 143 A).

## 144. Landing Grounds (detailed description, by sketches, photographs and tabulated data as applicable).

- A. Name of landing ground.
  - (1) General description. Local position, coordinates, elevation, dimensions, estimated operational capacity, dispersal facilities.
  - (2) Facilities - whatever available.
  - (3) Field condition - surface, slope, drainage, hazards, possibility of enlargement.
  - (4) Defenses (include ammunition dump).

## 145. Possible landing sites - consider terrain, nearness to transportation and communication facilities, location, availability of construction materials.

146. Seaplane stations and alighting areas.

A. Name of station.

- (1) General description (sketches, photographs, tabulated data, showing location, altitude, magnetic variation and annual change, local position, landmarks, obstructions and dimensions).
- (2) Sea conditions and anchorage (wind, shelter, swell, chop and currents in various seasons, depth of water, bottom holding ground, mooring buoys, aids to navigation and dispersal facilities).
- (3) Slipways (aprons, beaches, jetties, quays, cranes, boats and vehicles).
- (4) Facilities (fuel storage and servicing, water, hangars and workshops, power, general and ammunition storage, accommodation, possibility of enlargement).
- (5) Permanent defense system (including ammunition dumps).

147. Emergency Seaplane Alighting Areas and Potential Seaplane Stations (Consider terrain, sea conditions, nearness to transportation and communication facilities, location, availability of construction materials).

148. Bibliography.

Brief

(A full summary of chapter giving essential facts for inclusion in Chapter I).