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U.S. PACIFIC FLEET AND PACIFIC OCEAN AREAS.

JOINT STAFF STUDY: ICEBERG OPERATION.

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ICEBERG

APPENDIX H

PHASE III

[redacted]
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U.S.
UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS
Headquarters of the Commander in Chief

A16/Ice

Serial 0005038

14 April 1945

[redacted]

(To be shown only to those who must see it for further study)

ICEBERG PHASE III

1. The attached study of ICEBERG PHASE III is the basis for directives for the operation but is not in itself a directive or considered to commit the Commander in Chief, U. S. Pacific Fleet and Pacific Ocean Areas to any course of action. It is circulated to Joint Staff and major subordinate commanders to facilitate planning and implementation, both operational and logistic.

2. Changes may be made in the study as the situation develops.

3. The present Appendix H and annexes thereto contained in ICEBERG Joint Staff Study (Cincpoa serial 000131 of 25 October 1944) is superseded by this study and should be removed and destroyed by burning.

C. H. McMORRIS
Chief of Staff

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O. L. THORNE,
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UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS

Serial 0005635 Headquarters of the Commander in Chief COPY NO. 175

[redacted]

6 May 1945

From: Commander in Chief, U.S. Pacific Fleet and Pacific Ocean Areas.
To : Distribution List.

Subject: Changes, Deletions & Additions to Annexes 8 & 9, Appendix H of Joint Staff Study, ICEBERG.

Reference: (a) Cincpoa serial 0005038 of 14 April 1945, subject: "ICEBERG Phase III" as corrected by Cincpoa serial 0005625 of 22 April 1945.

Enclosure: (A) New Pages 99 & 106 for Insertion in Annex 9 to Appendix H of reference (a).

1. The following changes will be made to reference (a):

(a) Insert new pages 99 and 106, attached. Destroy old pages.

(b) Page 93 Delete paragraph 6 e (1) and substitute the following:

"(1) In addition to routine immunizations all military personnel will require vaccination against cholera and typhus."

(c) Page 100 Under HEADQUARTERS opposite Hq & Hq Co, Garrison and in column headed ARMY (GARRISON) delete entries of 1 and 400 under No. and Agg. respectively. Enter in column headed MARINE (GARRISON) 1 and 400 under No. and Agg. respectively. Change TOTALS under GARRISON to read 25 for ARMY (GARRISON) and 400 for MARINE (GARRISON).

(d) Page 101 Under GARRISON and opposite TOTAL COMBAT at bottom of page change ARMY from 7,681 to 7,281 and MARINE from 5,297 to 5,697.

(e) Page 103 Delete all entries pertaining to the following for ASSAULT & GARRISON under ARMY.

Plat, Sn Co
Malaria Control Unit (FA)
Malaria Survey Unit (FB)

Substitute the following units for ASSAULT & GARRISON under NAVY.

Malaria Control Component (G17) (Incl 2 for Mil Govt); No. - 4, Agg. - 24.
Epidemiology Component (G18) (Incl 1 for Mil Govt); No. - 2, Agg. - 12.

Change MEDICAL TOTALS to show ARMY ASSAULT 530 and GARRISON 423; NAVY ASSAULT 250 and GARRISON 594.

C. H. McMORRIS
Chief of Staff

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UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS
Headquarters of the Commander in Chief

Serial 0005635

[redacted]

6 May 1945

Subject: Changes, Deletions & Additions to Annex 9, Appendix H of Joint Staff Study, ICEBERG.

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AdComPhibsPac (1)	163
ComGenTen (Rr) (6)	165-170

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O. L. THORNE,
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UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS
Headquarters of the Commander in Chief

Serial 0005625

Copy No. 175

[redacted]

22 April 1945.

From: Commander in Chief, U.S. Pacific Fleet and Pacific Ocean Areas.
To : Distribution List.

Subject: Changes and Additions to Joint Staff Study, ICEBERG, Appendix H.

Reference: (a) Cincpoa serial 0005038 of 14 April 1945, subject: "ICEBERG Phase III.

Enclosures:
(A) Annex 8 to Appendix H, Joint Staff Study, ICEBERG, Logistic Measures Phase III (e).
(B) Annex 9 to Appendix H, Joint Staff Study, ICEBERG, Troop Requirements Phase III (e).
(C) Changes to Annex 6 to Appendix H, Joint Staff Study, ICEBERG Phase III.
(D) Changes to Annex 7 to Appendix H, Joint Staff Study, ICEBERG Phase III.
(E) Corrected Table of Contents.

1. Reference (a) stated that additional annexes to Appendix H would follow and that changes might be made in the study as the situation develops.

2. Enclosures (A) and (B) are forwarded herewith for insertion in reference (a).

3. Enclosures (C) and (D) list changes to reference (a).

4. Enclosure (E) is a corrected Table of Contents to reference (a).

5. Annex 7 of reference (a) supersedes Cincpoa serial 0005609 of 11 April 1945, Troop List for ICEBERG, Phase III (c) and III (d).

C. W. NIMITZ

4-24-45

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O. L. [redacted]
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CHANGE TO JOINT STAFF STUDY, ICEBERG, PHASE III

ANNEX 6 TO APPENDIX H,

REVISION OF 14 APRIL 1945

(Cincpac Serial 0005038 of 14 April 1945)

1. Page 41, paragraph 5 b. (1). Delete first two words, "Late model".

2. Page 42, paragraph 6 c. Fifth sentence beginning "At KIKAI", change to read "At KIKAI, certain medical units of the assault forces, as indicated in Annex 7, will be retained for the support of the garrison."

3. Page 44, paragraph 8 d. (1). Last line of paragraph, change "L / 120" to "L / 95".

4. Page 44, paragraph 8 d. (2). Change to read, "The two shiploads (60,000 drums AvGas, 2,000 AvLube) provided for in Annex D to Cincpac-Cincpoa Operation Plan 14-44 (para. 5 (d) (1), page 11), if not used in Phases I and II, or portions thereof not used, will be available to ComGen10thArmy on call, and will be discharged as early as practicable where directed by him."

5. Page 45, paragraph 8 e. (1). Fourth line of text, change words "on the West Coast" to read, "in the United States". Sixth line, change "West Coast" to read, "United States".
Same paragraph, end of first sentence, change "A - 15" to "A - 5".
Same paragraph, twelfth line, change "A - 5" to "A / 5."

6. Page 46, paragraph 8 e. (2). Fourth line of text, change words "on the West Coast" to read, "in the United States"
Sixth line, change "West Coast" to read "United States".
Same paragraph, end of first sentence, change "F - 15" to "F - 5".
Same paragraph, twelfth line, change "F - 5" to "F / 5".

ENCLOSURE (C)

CHANGE TO JOINT STAFF STUDY, ICEBERG, PHASE III,

ANNEX 7 TO APPENDIX H

TROOP LIST

REVISION OF 14 APRIL 1945

(Cincpac serial 0005038 of 14 April 1945)

1. Page 48. Insert new page 48, attached. Destroy old page 48.

2. Page 51. Under AVIATION SERVICE UNITS opposite Depot Supply Sq and in column headed ARMY (GARRISON), change No. from "2" to "4" and Agg. from "262" to "524".
Also in same column opposite Chemical Co Air Opns, change No. from "2" to "4" and Agg. from "268" to "536".

3. Page 52. Change TOTAL of AVIATION SERVICE UNITS under ARMY (GARRISON) from "9238" to "9768".

4. Page 59. Opposite GRAND TOTALS at bottom of page, change ARMY (GARRISON) from "66,821" to "67,351" and TOTAL (GARRISON) from "103,339" to "103,869".

5. Page 60. Insert new page 60, attached. Destroy old page 60.

6. Page 63. Under AVIATION SERVICE UNITS opposite Station Comp Sq and in column headed ARMY (GARRISON), change No. from "2" to "3" and Agg. from "206" to "309".
Change TOTAL of AVIATION SERVICE UNITS under ARMY (GARRISON) from "6558" to "6661".

7. Page 66. Under QUARTERMASTER units in column headed ARMY (GARRISON) opposite Co. Truck, change No. from "2" to "3" and Agg. from "220" to "330". Also in same column opposite Co, Service, change No. from "3" to "4" and Agg. from "657" to "876".
Change TOTAL of QUARTERMASTER units under ARMY (GARRISON) from "1805" to "2134".

8. Page 67. Under TRANSPORTATION units in columns headed ARMY (ASSAULT) and ARMY (GARRISON) opposite Amphib Truck Co, change No. from "2" to "3" and Agg. from "360" to "540" in both columns.
Also in same columns opposite Port Co, change No. from "2" to "4" and Agg. from "438" to "876".
Change TOTALS of TRANSPORTATION units under ARMY (ASSAULT) and ARMY (GARRISON) from "848" to "1466".

9. Page 68. Opposite GRAND TOTALS at bottom of the page, change ARMY (ASSAULT) from "22,479" to "23,097"; TOTAL ASSAULT from "23,275" to "23,893"; ARMY (GARRISON) from "28,037" to "29,087"; and TOTAL (GARRISON) from "30,605" to "31,655".

ENCLOSURE (D)

ICEBERG

Appendix H

Table of Contents

Revised 19 April 1945

ENCLOSURE (E)

TOP SECRET

ICEBERG

APPENDIX H

PHASE III

I. DIRECTIVE.

The Joint Chiefs of Staff have directed the Commander in Chief Pacific Ocean Areas to complete the seizure and development of positions in the RYUKYUS; to continue such operations for securing and maintaining control of the sea communications to and in the Western Pacific as are required for the accomplishment of the overall objective; and to make preparations for the naval and amphibious phases of the Invasion of JAPAN.

II. ASSUMPTIONS.

That Phases I and II of ICEBERG have been completed.

That the results of previous operations show that we will be able to maintain continuing control of the air in the objective area.

That the tactical air force operational in OKINAWA includes by target date at least four fighter groups, and one medium bomber group.

That sufficient naval search aircraft are operational at OKINAWA to cover effectively the sea approaches to the objective area.

That the operations on OKINAWA have left available sufficient amphibiously trained assault divisions to capture MIYAKO.

That airfield sites additional to those in the MARIANAS, at IWO and at OKINAWA are required for the deployment of the air forces to be used for the air blockade and air bombardment of JAPAN and for supporting the assault on JAPAN.

III. PURPOSES.

To establish air bases from which to:

(1) Attack the main islands of JAPAN and their sea approaches.

(2) Defend the installations on OKINAWA and IE SHIMA.

[redacted]

(3) Support further advances.

(4) Provide air support for an amphibious assault on JAPAN.

(5) Increase the security of sea and air communications through the RYUKYUS into the EAST CHINA SEA.

(6) Maintain unremitting military pressure on JAPAN.

IV. TASKS.

Capture, occupy, defend and develop as air bases positions in the RYUKYUS in addition to OKINAWA.

Intensify the sea and air blockade of JAPAN.

Destroy enemy forces and resources in JAPAN by naval and air attack.

V. GENERAL CONCEPT OF OPERATIONS.

The capture of OKINAWA and the associated attacks on JAPAN by our naval and air forces will have resulted in intense resistance of an all out character by the remaining enemy naval forces and all the air forces which can be brought to bear. As the result of the intense fighting involved the enemy naval strength will by target date have become very small. The enemy air strength will have been reduced to a point where it can harrass our major forces but can no longer hope to overcome them except when they are kept close to KYUSHU or HONSHU for a period sufficiently long to permit a strong counter attack to be organized by a disorganized defensive air force.

Completion of the first two phases of ICEBERG will have provided at OKINAWA an advanced anchorage and will have permitted the initiation of the development of an advanced naval base. Adequate land will be available for staging areas for small troop units. Sites will be under development for a total of six fighter groups, three medium bomber groups, two heavy bomber groups, one VLR Wing and a Fleet Air Wing.

Accomplishment of the purposes of the ICEBERG operation requires the development of bases in the RYUKYUS which will permit the deployment of the largest practicable air force in order that air blockade and air attack on JAPAN may be conducted with maximum intensity and effectiveness,

and also in order that there may be deployed an air force of maximum effectiveness for the support of an assault on KYUSHU. The most economical way to effect such a deployment is to exploit fully the potentialities of OKINAWA and IE SHIMA. As rapidly as the availability of forces and resources permit additional sites will be seized. Some of these sites will be to the northward of OKINAWA in order to improve the defense of the OKINAWA position, to increase the capabilities of the tactical air forces for close support, and to improve the effectiveness of fighter escort of bombardment missions from the southward.

Lack of suitable sites for heavy or very heavy bombers in the islands to the northward of OKINAWA will necessitate occupying positions to the southward after the possibilities of OKINAWA are exhausted if the forces for capturing and developing such positions are available.

The sequence and timing of the occupation of the three objectives selected - MIYAKO, KIKAI and TOKUNO - will depend on the availability of forces and resources. It will depend also in the case of TOKUNO and KIKAI on the time by which the enemy air force is reduced in effectiveness sufficiently to warrant advancing northward to that extent.

Preliminary bombing of MIYAKO will be accomplished by the coordinated efforts of fast carriers, the Tactical Air Force at OKINAWA, and heavy bombers from LUZON. Direct air support of the assault will be provided by escort carriers.

Preliminary bombardment and direct air support of the assault on KIKAI and TOKUNO will be provided by the Tactical Air Force, assisted by escort carriers and elements of the Fast Carrier Task Forces as required.

The primary task of the Fast Carrier Task Forces will be to cover the operations of Phase III by conducting continuing attacks on enemy forces and installations in JAPAN. These attacks will be coordinated with operations of the 20th Air Force and will be intensified against KYUSHU and Western HONSHU during the movements of assault shipping in order to provide strategic cover.

Southwest Pacific Air Forces will be requested to participate extensively in the preliminary bombing of ISHIGAKI and MIYAKO, as well as to maintain neutralization of enemy bases in FORMOSA. CHINA based air forces will be requested to provide support by attacks on enemy bases on the Asiatic Mainland.

MIYAKO will be captured and developed primarily as a base for VLR aircraft. KIKAI, after capture will be developed as an advance base for fighters. The preferred sequence for capture of these objectives as now visualized is:

MIYAKO on A Day

KIKAI on F Day

TOKUNO on G Day

MIYAKO should be captured at the earliest possible date because of its greater potential value and the length of time required to develop VLR bases. Early capture of MIYAKO is also indicated by the predicted availability dates of its VLR garrison.

Plans and preparations should be made for the initiation of Phase III at the earliest practicable time in order to exploit success and accelerate the campaign. Until the situation at the end of Phases I and II can be definitely foreseen, plans and preparations for Phase III must be kept flexible as to timing, sequence, and specific designations of assault units.

Forces already allocated to the earlier phases of ICEBERG augmented by area reserves and such additional supporting and service troops as can be obtained from rear areas will probably be capable of completing the assault and initiating the development of Phase III objectives. Shortages of required service troops necessitate improvisation and maximum utilization of units already in the Pacific Ocean Areas and of troops allocated to earlier phases.

ICEBERG

APPENDIX H

VI. CAPTURE OF MIYAKO (PHASE III c)

A. GENERAL DISCUSSION.

MIYAKO has been selected as an objective in order to acquire additional airfield sites in order to provide:

A base relatively close to JAPAN for VLR aircraft.

An airbase from which to complete the neutralization of enemy positions in FORMOSA.

A defensive southern outpost for our position in the OKINAWA Group.

The capture, occupation, defense, and development of MIYAKO will be initiated as soon as the necessary assault shipping and combat units can be released from other operations. Maximum naval covering and fire support forces available will be employed.

B. GROUND FORCES.

The estimated strength of the Japanese forces on MIYAKO is one infantry division (less one RCT) and two independent mixed brigades with supporting and service troops, totalling 23,000. An additional 4,000 are estimated to be on YERABU SHIMA. In 1940 the civilian population was 60,786. An amphibious corps of three divisions will constitute the assault force. Should augmentation of this assault force be required, an additional division may be designated.

The coast of MIYAKO is nearly everywhere precipitous. The most extensive beaches border the peninsulas forming JUNK BAY. Though these beaches are backed by relatively low, rough, wooded escarpments, access inland is probably less obstructed than from any other beaches. The three existing enemy airfields are grouped on an arc about JUNK BAY, at a distance of from 1 to 2 miles therefrom. The small islands of YERABU

and KURUMA which lie from 1-1/2 to 2-1/2 miles off JUNK BAY afford positions for emplacment of artillery to support the landing forces. An acceptable scheme of maneuver (see Annex 3) provides for the initial seizure of these islands on A Day, and the emplacement of artillery to support the main landings. Subsequently, two divisions should land in the JUNK BAY area in order to seize the airfields. The attack should then be continued to capture the remainder of the island. One division suitably reinforced will be required for the defense of the island.

C. AIR FORCES.

Prior to our attack MIYAKO will be subjected to repeated air attacks by both shore-based and carrier aviation in order to neutralize its air bases. About A-15 an intensive air attack will be initiated by shore-based aviation to destroy defensive installations.

Escort carriers will escort and provide air cover for surface forces enroute to the objective. Direct air support for the assault and neutralization of adjacent supporting enemy bases will be provided by the escort carriers and shore-based air forces. The Fast Carrier Task Force will conduct air strikes on MIYAKO immediately prior to the arrival of the fire support group. Thereafter, the Fast Carrier Task Force will cover the operation by conducting strikes against strategic and tactical targets in JAPAN and may provide direct air support if required.

The Southwest Pacific Area Air Forces will be requested to support the operation by neutralizing air fields in FORMOSA and by extensive preliminary heavy bomber attacks on MIYAKO.

The shore-based air force at OKINAWA will conduct repeated attacks on enemy air bases in the SHANGHAI-NINGPO area and in the northern NANSEI SHOTO - KYUSHU area as required.

Four airfields will be constructed to accommodate two wings (8 groups) of very long range bombers, two fighter groups, one night fighter squadron and one torpedo bomber squadron.

D. NAVAL FORCES

Transport squadrons will be provided from new construction and from those previously allocated to Phases I and II to mount the expeditionary troops for this operation. Plans for the assembly of transport squadrons will be based upon the locations of mounting areas and the time required for logistics, upkeep, loading, rehearsals, and movement to the objective area. Current information indicates probable difficulty in landing tanks in other than LCM(6)'s, therefore, LSD's provided with 18 LCM(6)'s each, will be assigned to this operation to the extent available.

All available fire support units will be furnished to effect maximum destruction of enemy defenses prior to the assault. The amphibious support force will assmeble at ULITHI and/or in the OKINAWA area. Suitable units of the amphibious support force will be designated to participate in rehearsals. The amphibious support force should arrive off the objective about A-5.

(PHASE III c)

E. SUMMARY OF MAJOR FORCES REQUIRED.

1. Ground Forces

Amphibious Corps of 3 Divisions	1
8-inch Howitzer Bn (FA)	1
Chemical Bn (Motorized)	1

Garrison Forces

Infantry Division	1
Tank Company (Medium)	1
AAA Gun Bn	4
AAA A/W Bn	4
AAA S/L Bn (— 1 Battery)	1
Hq & Hq Btry AAA Gp	2
155-mm Gun (CA) Bn	3
Hq & Hq Btry CA Gp	1
MP Battalion	1
Hq & Hq Btry AAA Brig	1

2. Air Forces

Garrison	From
Army	
2 Wings VLR (includes 2 Wg Hq and 8 groups, with supporting troops)	U.S.
1 Sq Photo Recon, VLR	GUAM
Marine	
2 Groups Fighters	SWPA
1 Sq Night Fighters	SWPA
1 Sq VMTB	CentPac
1 Sq Air Warning	HAWAII

(PHASE III c)

3. Naval Forces

Covering Force

8 CV	12 CL
4 CVL	65 DD
6 BB	
3 CA	

Fire Support Force

1 AGC	8 APD
10 OBB	12 LCI(G)
2 CB	12 LCS(L)
10 CA	12 LCI(R)(RCM)
4 CL	1 LC(FF)
30 DD	

Air Support Force

12 CVE
18 DD
6 DE

Mine Group

8 DMS	18 YMS
6 DM	6 PGM
14 AM	

Assault Shipping

4 AGC	115 LST
45 APA	1 LST (Brodie)
21 AKA	2 LST(M)
3 LSV	40 LSM
5 LSD*	12 LSM(R)
2 APH	30 DD
14 APD	1 ARL
12 LCS(L)	1 ARB

(PHASE III c)

Assault Shipping (cont'd)

13 LC(FF)	1 ARG
36 LCI(M)**	2 ARS
6 LCI(G)	2 ATR
6 LCI(R)(RCM)	3 ATF
2 LCI(L)	16 PC
20 LCT	4 PCS
4 AKN	2 PCS(H)
4 AN	2 PCE
	14 SC

* Three available; two additional will be readied if possible.

** 12 of these to be equipped with 4.2 mortar.

Garrison - to be obtained from Assault Forces where available

Base Supported:

10 LCT	4 YMT
60 LCM	4 YTB
20 LCVP	

Fleet Supported - to be obtained from assault forces where available

9 DD	6 YMS
6 PC(NC)	2 PCS(H)
6 SC(NC)	1 ARL
10 LST	3 AN
18 LCI(L)	

ICEBERG

APPENDIX H

VII CAPTURE OF KIKAI (Phase III d)

A. GENERAL DISCUSSION

The objective for this Phase is KIKAI. It is selected in order to acquire additional airfields from which to:

Operate fighters for escort missions.

Defend the OKINAWA area against attack from the north.

Neutralize other bases within range.

Support an assault on JAPAN.

Plans for this phase will be sufficiently flexible to permit execution prior to Phase III c if circumstances make such action necessary or desirable. The seizure of KIKAI will be accomplished preferably by one of the divisions, including the area reserve, previously allocated to ICEBERG. Naval covering and fire support forces will be provided as required from those previously engaged at OKINAWA.

B. GROUND FORCES

The estimated strength of the Japanese forces in the AMAMI Group is one independent mixed brigade and one independent mixed regiment with supporting and service troops, totaling 11,000. Of this total it is estimated that 1,000 are on KIKAI. It is estimated that the hostile garrison will be increased to 5,000 by target date. The civilian population in 1940 was 18,184. In view of the enemy combat strength in the AMAMI Group, and his capability of quickly reinforcing KIKAI, one reinforced infantry division should constitute the assault force. One regimental combat team will be required for the defense of the island.

The most suitable landing beaches are at SOMACHI HAKUCHI on the northeast coast, and at WAN and AGARE on the southwest coast. Under favorable weather conditions the northeast coast is considered the better landing area. The scheme of maneuver (see Annex 4) should provide for landings commencing on F Day, on the northeast coast, or, in the event of unfavorable weather conditions in this area, at WAN and AGARE.

(PHASE III d)

C. AIR FORCES

In order to maintain the neutralization of KIKAI, continuous air operations will be conducted against it after our establishment in OKINAWA. Upon initiation of assault operations against MIYAKO the entire offensive effort of the Tactical Air Force based on OKINAWA will be available for employment against KIKAI to destroy its defensive installations as well as to neutralize its airfields.

Previous operations of the Fast Carrier Task Force and shore based aviation are expected to result in a sufficient decline of Japanese offensive air capabilities to permit the use of escort carriers, if available, for providing direct air support. However, the Tactical Air Force based at OKINAWA will be given the primary responsibility for direct air support and combat air patrol for all ships at the objective. The short distance of 155 miles from OKINAWA to KIKAI will make these operations feasible, and will enable shore based air forces to provide convoy cover, direct air support, and combat air patrol over our forces at the objective. To augment the available shore based air strength during the assault, units of the Strategic Air Force will be attached to the Tactical Air Force as required.

Subsequent to our landing, and until local air defenses are established, air defense will be provided by combat air patrols from OKINAWA and from the escort carriers. Continuous attacks on enemy air bases in KYUSHU by both shore and carrier based aviation will be required until local air defenses are established.

The Fast Carrier Task Force will cover this operation by conducting air strikes against strategic and tactical targets in JAPAN with particular emphasis on KYUSHU during the assault phase.

KIKAI will be developed to provide a base for three fighter groups, two night fighter squadrons, and one Marine torpedo bomber squadron.

D. NAVAL FORCES

Assault shipping sufficient to mount one reinforced infantry division will be required. One transport squadron previously assigned to the OKINAWA operation or to area reserve troops will be used. This squadron will be supplemented by landing ships and landing craft from the OKINAWA operation to the extent available to meet requirements.

The fire support force will consist of 5 OBB, 3 CA, 3 CL, 18 DD, 9 LCI(G) and 9 LCI(R)(RCM). This force will assemble in OKINAWA and proceed to the objective with the minesweeping group to arrive on F-4.

The minesweeping group will assemble at OKINAWA and depart in time to arrive off the objective area on F-4. Minesweeping operations will be conducted under the protection of the fire support force and a combat air patrol furnished by shore based air forces at OKINAWA. The area adjacent and leading to landing beaches inside the 100 fathom curve should be swept during the period F-4 and F-1.

E. SUMMARY OF MAJOR FORCES REQUIRED

1. Ground Forces

Assault

Infantry Division, amphibiously trained	1
Tank Battalion (medium)	1
Tank Battalion (Flame Thrower)	1
Amphibious Tractor Bn	3
Amphibious Tank Bn	1
Amphibious Truck Co	2
JASCO's	1
Chemical Bn (motorized)	1

Garrison Forces

Regimental Combat Team	1
Tank Company (medium)	1
AAA Gun Bn	2
AAA A/W Bn	2
AAA S/L Bn (- 1 battery)	1
Hq and Hq Btry AAA Gp	2
155-mm Gun (CA) Bn	1
MP Company	1

2. Air Forces

Garrison	From
Army - 1 Hq Fighter Wing	U. S.
3 Groups VF	1 - HAWAII 2 - U. S.
2 Sq VF(N)	1 - IWO JIMA 1 - SAIPAN
Marine - 1 Sq VMTB	CentPac
1 Sq Air Warning	HAWAII

3. Naval Forces

Covering Force

8 CV	12 CL
4 CVL	3 CA
6 BB	65 DD

Fire Support Force

5 OBB	8 APD
3 CA	9 LCI(G)
3 CL	1 LC(FF)
18 DD	9 LCI(R)(RCM)

(PHASE III d)

Mine Group

4 DM	12 YMS
4 DMS	2 PGM
4 AM	

Assault Shipping

1 AGC	9 DD
15 APA	6 DE
6 AKA	6 PC
1 APH	1 AKN
2 LSD	3 AN
1 LSV	1 LST(M)
25 LST	6 LSM(R)
1 LST(Brodie)	2 PCS(H)
10 LSM	9 LCI(M)
10 LCT	1 ARS
18 LCI(L)	1 ATR
6 LCS(L)	2 ATF
4 LC(FF)	6 APD

Garrison

Base Supported - To be obtained from assault forces where possible.

10 LCT	10 LCVP
20 LCM	4 YMT

Fleet Supported - To be obtained from assault forces where possible.

9 DD	6 YMS
6 DE	2 PCS(H)
6 PC(NC)	1 ARL
6 SC(NC)	2 AN
4 LST	18 LCI(L)

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APPENDIX H

VIII CAPTURE OF TOKUNO (PHASE IIIe)

A. GENERAL DISCUSSION

TOKUNO has been selected as an objective of Phase III in order to acquire additional airfield sites from which aircraft can be operated in order to:

Provide additional air defense for our positions in the NANSEI SHOTO.

Assist in the neutralization of enemy bases within range.

Furnish fighter escort for VLR bombers.

Support an assault on JAPAN.

This phase will be executed if it is considered necessary to acquire additional airfield sites in this area, if the necessary air combat and service troops are available, and if its execution will not interfere with other approved operations.

The seizure of this objective as a shore-to-shore movement using suitable amphibious craft and employing assault forces released from active operations in the OKINAWA area is contemplated. Naval covering and fire support forces will be made available as required to support the assault.

Receipt of additional information on TOKUNO, particularly as it affects suitability of potential airfield sites and beach capacities, may necessitate a revision of this study.

B. GROUND FORCES

On 1 April 1945 the strength of the Japanese forces on TOKUNO was estimated to be approximately 5,000 including service troops. In 1940 the civil population was 40,900. One reinforced division is considered a suitable assault force. One regiment reinforced will be required for the defense of the island.

(PHASE IIIe)

It is anticipated that this operation will be prolonged because of the rugged terrain and the lack of an adequate road net. The island of TOKUNO is rugged with heights of 2100 feet located near the center. There is a road around the periphery of the island. One good road leads across the island from KETOKU to the existing airfield. The mountains are forested and have deep ravines running to the beaches. Slopes are generally more gradual on the west. There are few beaches on the island, the best being on the northeast side of the island, located at SAMMURA WAN and KETOKU. Exits from the beaches are not good. One airfield is located in the northwest portion of the island.

It is contemplated that the scheme of maneuver (see Annex 5) will provide for simultaneous landings, commencing on G Day, on the two available beaches on the northeastern shore followed by the seizure of objectives in the following priority:

(1) The existing airfield.

(2) Additional airfield sites.

(3) Remaining portions of the island.

C. AIR FORCES

After establishment of our air bases in OKINAWA repeated air attacks will be made against enemy air facilities in the NANSEI SHOTO and in JAPAN. The Tactical Air Force will be available for counter air operations and for neutralization or destruction of defensive installations on TOKUNO.

The short distance from our bases on OKINAWA to TOKUNO, 105 miles, will permit shore based aircraft to furnish convoy cover, direct air support and combat air patrol for our forces at the objective. Units of the Strategic Air Force will be used as necessary to augment the effort of the Tactical Air Force. After the assault, neutralization of air facilities in KYUSHU must be maintained by carrier based aviation, and units of the Strategic Air Force based in OKINAWA, until shore based aviation is established and operating on TOKUNO.

(PHASE IIIe)

TOKUNO will be developed to provide a base for two fighter groups, one medium bomber group, one night fighter squadron and one torpedo bomber squadron.

D. NAVAL FORCES

The capture of TOKUNO may be conducted as a shore-to-shore movement from OKINAWA using landing ships and landing craft exclusively. Assault shipping sufficient to mount one reinforced division can be assembled at OKINAWA, where the assault force will be mounted. Amphibious craft previously assigned to the OKINAWA operation will be utilized to the extent required and available.

The fire support force and minesweeping group will assemble at OKINAWA and depart for the objective with the fire control group to arrive off target area on G-3. The area adjacent to selected landing beaches inside the 100 fathom curve should be swept during the period G-3 and G-1.

The Fast Carrier Task Force will support the operation by conducting strikes against strategic and tactical targets in JAPAN.

E. FORCES REQUIRED

1. Ground Forces

Assault	
Infantry Division, amphibiously trained	1
Tank Battalion (Medium)	1
Amphibious Tractor Battalion	3
Amphibious Tank Battalion	1
Amphibious Truck Company	2
JASCO	1
Chemical Company (Motorized)	1

Garrison

Regimental Combat Team	1
Anti-aircraft Artillery Gun Battalion	2
Anti-aircraft Artillery Automatic Weapons Battalion	2
Anti-aircraft Artillery Search Light Battalion (less one battery)	1
Headquarters & Headquarters Battery, Anti-aircraft Artillery Group	1
Military Police Battalion (-1 Company)	1

2. Air Forces

Marine	From
1 Hq Marine Air Wing	SWPA
2 Groups Fighters	OKINAWA
1 Squadron Night Fighters	U. S.
1 Air Warning Squadron	SWPA
1 Medium Bomber Group	SWPA
1 Squadron Torpedo Bombers	CentPac

3. Naval Forces

Covering Force

8 CV	3 CA
4 CVL	12 CL
6 BB	65 DD

Fire Support Force

5 OBB	8 APD
3 CA	9 LCI(G)
3 CL	1 LC(FF)
18 DD	9 LCI(R)(RCM)

Mine Group

4 DM	12 YMS
4 DMS	2 PGM
4 AM	

(PHASE IIIe)

Assault Shipping

1 AGC	9 DD
1 APH	6 LCS(L)
2 LSD	9 LCI(M)
1 LSV	6 DE
40 LST	6 APD
1 LST (Brodie)	6 PC
20 LSM	1 ARS
1 LST(M)	1 AKN (TUSCANA Class)
10 LCT	3 AN
6 LSM(R)	2 PCS(H)
36 LCI(L)	1 ATR
4 LC(FF)	2 ATF

Garrison

Base Supported - to be obtained from assault forces where possible.

10 LCT	10 LCVP
20 LCM	4 YMT
	12 PT

Fleet Supported - to be obtained from assault forces where possible.

9 DD	6 YMS
6 DE	2 PCS(H)
6 PC(NC)	1 AGP
6 SC(NC)	1 ARL
4 LST	2 AN
18 LCI(L)	

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Annex 1 to Appendix H

MAJOR FORCES REQUIRED - PHASE III

1. GROUND FORCES

Assault Forces	MIYAKO	KIKAI	TOKUNO
Amphibious Corps of 3 Reinf Divs	1		
Infantry Division, Amphibiously trained		1	1
8-inch Howitzer Bn (FA)	1		
Tank Battalion (M)		1	1
Tank Battalion (Flame Thrower)		1	
Amphibious Tractor Bn		3	3
Amphibious Tank Bn		1	1
Amphibious Truck Co		2	2
JASCO's		1	1
Chemical Bn (Mtz)	1	1	
Chemical Co (Mtz)			1
Garrison Forces			
Infantry Division	1		
Regimental Combat Team		1	1
Tank Company (M)	1	1	
AAA Gun Bn	4	2	2
AAA A/W Bn	4	2	2
AAA S/L Bn (-1 Btry)	1	1	1
Hq & Hq Btry AAA Brig	1		
Hq & Hq Btry AAA Gp	2	2	1
155-mm Gun (CA) Bn	3	1	
Hq & Hq Btry CA Gp	1		
MP Bn	1		
MP Bn (-1 Co)			1
MP Co		1	

2. AIR FORCES

Garrison

	MIYAKO	From
Army	- 2 Wings VLR (includes 2 Wg Hq and 8 groups, with supporting troops)	U.S.
	1 Sq Photo Recon, VLR	GUAM
Marine	- 2 Groups Fighters	SWPA
	1 Sq Night Fighters	SWPA
	1 Sq VMTB	CentPac
	1 Sq Air Warning	HAWAII

	KIKAI	
Army	- 1 Hq Fighter Wing	U.S.
	3 Groups VF	1 - HAWAII 2 - U.S.
	2 Sq VF(N)	1 - IWO JIMA 1 - SAIPAN
Marine	- 1 Sq VMTB	CentPac
	1 Sq Air Warning	HAWAII

	TOKUNO	
Marine	- 1 Hq Marine Air Wing	SWPA
	2 Groups Fighters	OKINAWA
	1 Sq Night Fighters	U.S.
	1 Air Warning Sq	SWPA
	1 Medium Bomber Group	SWPA
	1 Sq Torpedo Bombers	CentPac

3. NAVAL FORCES

Covering Force	MIYAKO	KIKAI	TOKUNO
CV	8	8	8
CVL	4	4	4
BB	6	6	6
CA	3	3	3
CL	12	12	12
DD	65	65	65
Fire Support Force			
AGC	1	-	-
OBB	10	5	5
CB	2	-	-
CA	10	3	3
CL	4	3	3
DD	30	18	18
LCI(G)	12	9	9
LCI(R)(RCM)	12	9	9
LC(FF)	1	1	1
LCS(L)	12	-	-
APD	8	8	8
Air Support Force			
CVE	12	-	-
DD	18	-	-
DE	6	-	-
Mine Group			
DMS	8	4	4
DM	6	4	4
AM	14	4	4
YMS	18	12	12
PGM	6	2	2

Assault Shipping	MIYAKO	KIKAI	TOKUNO
AGC	4	1	1
APA	45	15	-
AKA	21	6	-
APH	2	1	1
LSV	3	1	1
LSD	5*	2	2
LST	115	25	40
LCI(L)	2	18	36
LSM	40	10	20
DD	30	9	9
DE	-	6	6
APD	14	6	6
ARB	1	-	-
ARL	1	-	-
LST(Brodie)	1	1	1
LC(FF)	13	4	4
AN	4	3	3
AKN	4 (2(Keokuk Class) 2(Tuscana Class)	1(Tuscana Class)	1(Tuscana Class)
LST(M)	2	1	1
LSM(R)	12	6	6
PC	16	6	6
PCS	4	-	-
PCS(H)	2	2	2
PCE	2	-	-
LCS(L)	12	6	6
LCI(M)	36**	9	9
LCI(G)	6	-	-
LCI(R)(RCM)	6	-	-
LCT	20	10	10
ATF	3	2	2

Assault Shipping Cont'd)	MIYAKO	KIKAI	TOKUNO
ARG	1	-	-
ARS	2	1	1
ATR	2	1	1
SC	14	-	-

* Three available; two additional will be readied if possible.

** 12 of these to be equipped with new 4.2" mortar.

Garrison - to be obtained from assault forces where available.

Base Supported	MIYAKO	KIKAI	TOKUNO
LCT	10	10	10
LCM	60	20	20
LCVP	20	10	10
YMT	4	4	4
YTB	4	-	-
PT	-	-	12

Fleet Supported - to be obtained from assault forces where available.

DD	9	9	9
PC(NC)	6	6	6
SC(NC)	6	6	6
LST	10	4	4
LCI(L)	18	18	18
YMS	6	6	6
PCS(H)	2	2	2
ARL	1	1	1
AN	3	2	2
DE	-	6	6
AGP	-	-	1

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PHASE III

Annex 2 to Appendix H

PROPOSED SEARCH PLAN

Legend:

- POA
- SWPA
- 14th. AAF

Note: Sectors to be covered when and as required by operations.

JAPAN SEA
KOREA
SHANTUNG
YELLOW SEA
KIANGSU
SHANGHAI
EAST CHINA SEA
CHEKIANG
FUKIEN
KWANGTUNG
HONG KONG
HAINAN I.
LUZON STRAIT
LUZON
SOUTH CHINA SEA
MINDORO
SAMAR
PANAY
NEGROS
SULU SEA
MINDANAO
BORONEO
HONSHU
SHIKOKU
KYUSHU
MARIANAS
CAROLINE ISLANDS
CINCPOA WAR PLANS
650 Mi.
500 Mi.
700 Mi
600 Mi.
Fuchow
Tokyo
Yokohama
Nagasaki
Chung King
Kweilin
Foochow
Amoy
Kiirun
Pescadores Is.
FORMOSA
Takao
Canton
Okinawa Jima
Chichi Jima
Haha Jima Retto
Iwo Jima
Marcus
Asuncion
Agrihan I.
Pagan
Tinian
Saipan
Rota
GUAM
Manila
Saigon.
Davao
Ulithi Is.
Yap I.
Ngulu Is.
Palau Is.
Woleai Is.
Truk Is.

64TH ENGR TOP BN USAFPOA
12 APRIL 45

AIC-3
3

ICEBERG

PHASE III c

Annex 3 to Appendix H
SCHEME OF MANEUVER

MIYAKO JIMA

0 1 2 3 4 5

Statute Miles

IKEMA JIMA

YERABU JIMA

SHIMOJI JIMA

Augmentation Force (if designated) to constitute the Expeditionary Force Reserve.

Main Landings On order of Exp Force Comdr.

On A-Day seize these two islands and emplace artillery to support the main landings. Reconstitute this Div as Corps Reserve, if the situation permits.

Hirara

Matsubara

Nagama

Hika

Kawamichi

Nobara

JUNK BAY

Yonaha

Sukama

Shimobara

Oroka

Miyuguni

KURUMA JIMA

[redacted] CINCPOA WAR PLANS

125°10' 20' 30'

25°

50'

24°40'

64TH ENGR TOP BN USAFPOA AIC-4
12 APRIL 45 4

129°52'
28°25'

130°07'
28°25'

ICEBERG

PHASE III d

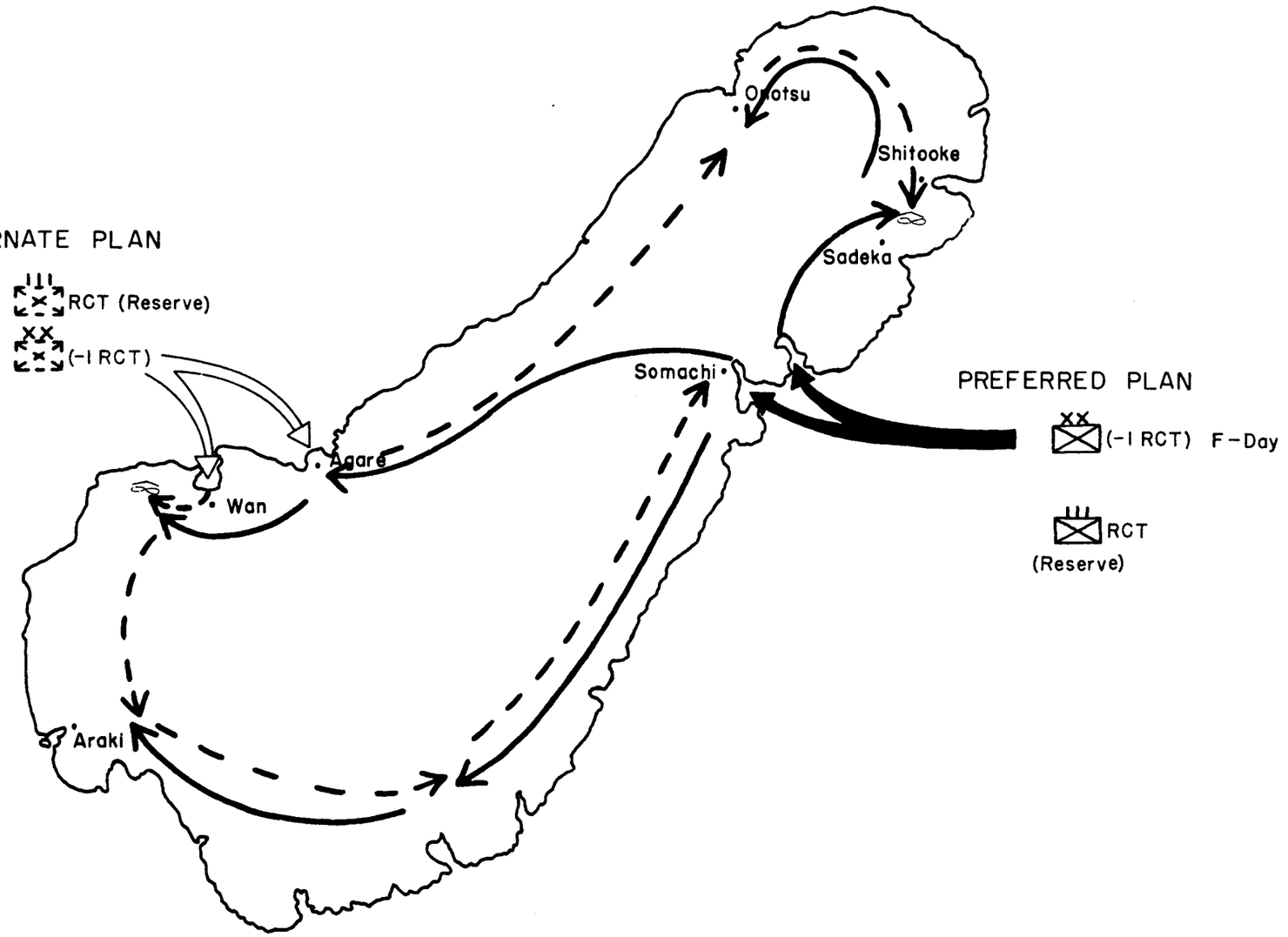
Annex 4 to Appendix H

SCHEME OF MANEUVER

KIKAI — SHIMA

1 0 1 2 3 4

Statute Miles



ALTERNATE PLAN

RCT (Reserve)

(-1 RCT)

PREFERRED PLAN

(-1 RCT) F-Day

RCT
(Reserve)

Top Secret
CINCPOA WAR PLANS

28°15'
129°52'

28°15'
130°07'

64TH ENGR TOP BN. USAFPOA
12 APRIL 45

AIC-4
5

ICEBERG

PHASE III e

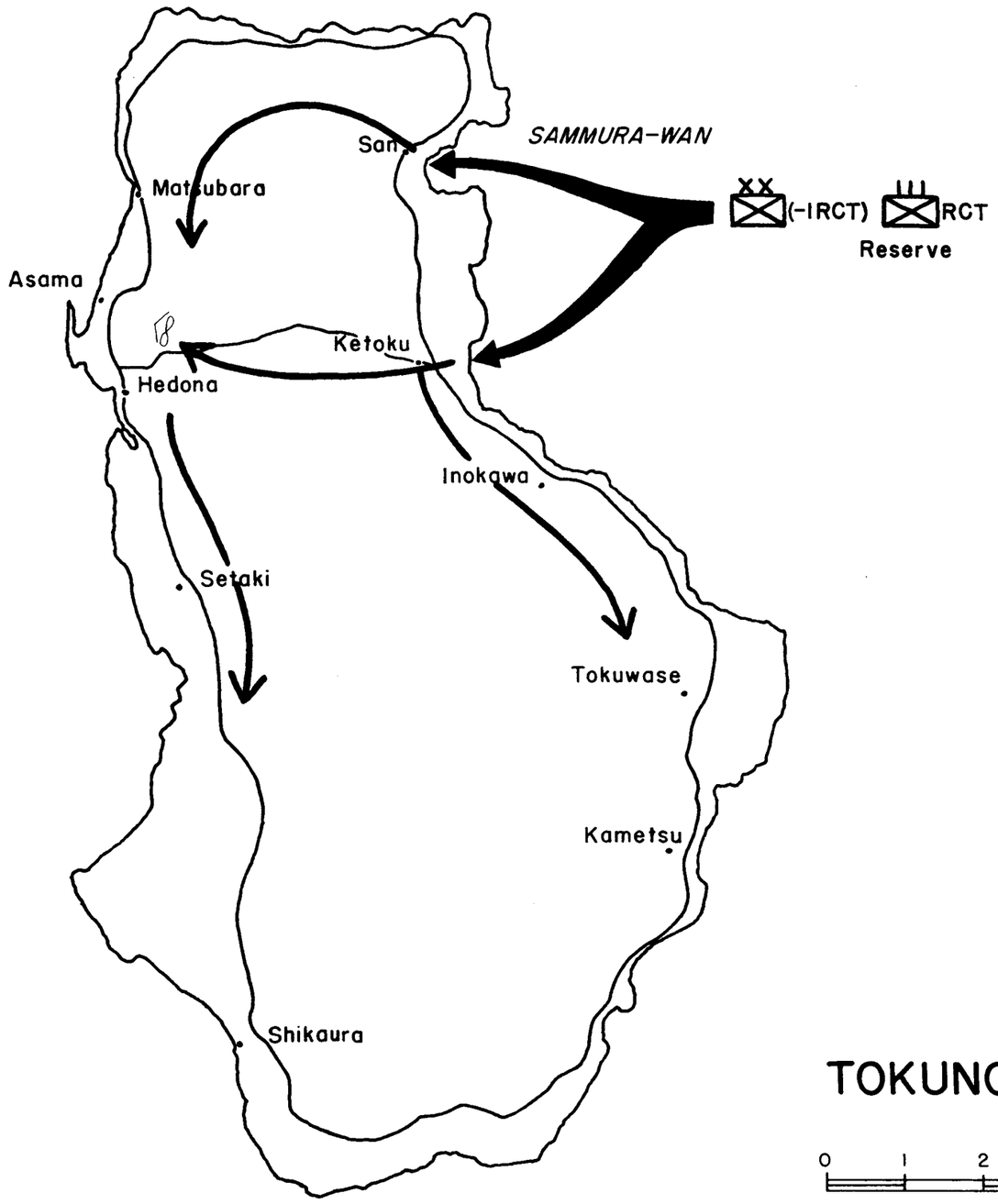
Annex 5 to Appendix H

SCHEME OF MANEUVER

129°

27°50'

27°30'



TOKUNO - SHIMA

0 1 2 3 4 5

Statute Miles

[redacted]
CINCPOA WAR PLANS.

641st ENGR TOP BN USAFPOA 40-4
12 APRIL 45 6

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ANNEX 6 TO APPENDIX H

LOGISTIC MEASURES - PHASE III

GENERAL

In addition to the logistic measures discussed in Appendix E to Phase I and Annex 1 to Appendix G, Phase II, the following factors applicable to Phase III are significant.

1. OPERATIONAL REQUIREMENTS

The concept of operation requires:

a. Rapid construction of additional airdrome facilities on MIYAKO and KIKAI and maximum flexiblity in the execution of this plan.

2. FACTS AFFECTING LOGISTICS.

a. Distances of the objectives from points shown are as follows, in nautical miles:

	MIYAKO	KIKAI
OKINAWA (NAHA)	170	248
IWO JIMA	880	655
GUAM	1287	1215
SAIPAN	1300	1190
ULITHI	1200	1235
MANUS	1998	2075
LEYTE	845	1110
FORMOSA	209	515
KYUSHU	474	175
SHANGHAI	439	485

Supplement 1 to this Annex shows the relative position and size of the two objectives.

b. PHYSICAL SURVEY

(1) MIYAKO (see Supplement 2 to Annex 6 of Appendix H) is a triangular island twenty miles on its longest, the northeast, coast and 65 square miles in area. Most of it is low and flat, but there are six roughly parallel ridges, 300 to 400 feet in elevation, with steep eastern and gentle western slopes. No sizeable industry other than agriculture is reported. Roads of 9

feet or greater width follow the western shore and link it with the southern and eastern parts of the island. There is no evidence of a railroad. Of numerous scattered settlements, HIRARA, on the west coast is the largest, having nearly half of the island's total 1940 population of 60,000.

(2) KIKAI (see Supplement 3 to Annex 6 of Appendix H) is eight miles long, three miles in its greatest width, and has an area of 22 square miles. A number of plateaus slope gently to the north and east to an elevation of nearly 700 feet. Sand dunes occur in the western end. There is no industry of importance. A minor perimeter road circles the island and a main road connects the two principal towns, SOMACHI on the east and WAN on the west. The island has no railroad. Villages are scattered throughout the areas and the population in 1940 was 18,000.

c. WATER SUPPLY

(1) MIYAKO has little or no surface water, but it is reported that deep wells will produce a large quantity of potable water. The enemy installations to supply this airfield development may be salvageable, but distilling units must be planned.

(2) KIKAI's existing water installations are inadequate for our needs, practically all surface water being lost in permeable rock. Inland wells driven approximately to sea level and/or distillers will be required.

d. HARBORS

(1) MIYAKO is surrounded by a coral reef. Northwest of the island this formation protects MIYAKO HAKUCHI, an anchorage sufficient for several capital ships plus attendant cruisers and destroyers sheltered from all but northwest winds. Numerous detached patches of coral, some invisible, are present, but dangers from currents are negligible. To the south of MIYAKO HAKUCHI, near the town of HIRARA, are two smaller, deep water anchorages more sheltered but with narrow entrances. The port of HIRARA is approached by waters too shallow, however, for any vessels other

than small craft. JUNK BAY, south of HIRARA, is too shallow for use as an anchorage but will accomodate small landing craft. A secondary anchorage is possible on the east coast, south of NAGANA. Although small and exposed to easterly winds from north thru southeast, protection is otherwise adequate and water depth is sufficient for any vessel. A small bay east of KURUMA JIMA has possibilities of ten 600 yard berths in 10 to 20 fathoms of water but is exposed to all southerly winds. This site is only one mile from an existing airfield.

(2) KIKAI's best harbor, SOMACHI HAKUCHI, a double inlet at the town of SOMACHI, is small and open to winds between east and southeast. The harbor is not suitable for any craft longer than LSM due to navigable distance between bordering reefs. WAN MINATO, on the southwest coast, almost dries and is available only to very light craft. The waterfront at ONOTSU appears in photographs to be rough rock, but a small pier there may be salvageable. A number of minor indentations afford passage through the reef for small boats only.

e. BEACH CAPACITIES

(1) MIYAKO is without cargo handling facilities except for a narrow, small boat pier located in a minor harbor protected by two breakwaters at HIRARA town. MIYAKO HAKUCHI provides a major anchorage in close proximity to the western beaches and to existing (plus) facilities which may be constructed at HIRARA. The beaches on the western shore are in general usable in any weather, but the beaches on the eastern and southern shore can be used simultaneously only under favorable weather conditions. Two four hundred foot pontoon wharves might be installed immediately south of HIRARA parallel to the coast with pontoon causeways to the shore. The existing pier at HIRARA could be reconditioned and widened using timber construction. Pontoon wharves for two AKs could be erected north of HIRARA town with connecting causeways to the beach. The exact location can be determined by an on-the-spot survey. No

dredging is contemplated in the proposed harbor and wharf development. Cargo capacities of beaches and proposed improvements are estimated as follows:

DATE	CARGO CAPACITY (M/T DAY)		
	BY DUKW COS	BY LANDING CRAFT	
		MIYAKO HAKUCHI and West Coast Beaches	East or South Coast Beaches (One but not both)
A (Existing Facilities)	2160	5100	1000
A + 30 (1st Pont. Pier 400')	2160	5600	1000
A + 40 (2nd Pont. Pier 400')	2160	6100	1000
A + 60 (Pont. Piers at HIRARA Harbor)	2160	6600	1000
A + 90 (2 AK Berths at Pont. Piers)	2160	8200	1000

(2) KIKAI is without cargo handling facilities except for a 100 foot Wharf at the upper reach of western loch in SOMACHI HAKUCHI. The inlet at WAN is believed to be the only other landing area of any importance but is so shallow as to accomodate only small landing craft at high water. Several other inlets are of minor importance only. Exposed anchorage may be had off SOMACHI for several vessels but all weather from easterly directions, north thru south, may make discharge difficult to impossible. Limited anchorage on narrow off shore shelves may be had at various points around the island. It is suggested that two 400 foot pontoon wharves with causeways to shore be placed in west loch at SOMACHI HAKUCHI and one 600 foot pontoon wharf at URAHARA. Craft larger than LSMs cannot enter the harbor. Unloading at the pontoon wharves would be subject to delays caused by unfavorable weather, and the entire pontoon structure might be carried away, during bad weather from southeast. It is estimated that the discharge rate for combat assault forces will be 3700 M/T per day. The cargo capacities of beaches and proposed improvements are estimated as follows:

DATE	CARGO CAPACITY (M/T DAY)		
	SOMACHI HAKUCHI		Beaches Elsewhere on the Island
	Beaches	Improved Facilities	
F to F + 35	500		500
F + 36 to F + 55	500	900	500
F + 56 to F + 65	500	1500	500
F + 66 to Indefinite Period	500	2400	500

3. CONTEMPLATED DEVELOPMENT

a. Airfield Development

(1) MIYAKO

(a) MIYAKO appears to be one of the better islands of the RYUKYU group with respect to possibilities of airfield construction. Three enemy airfields are now in existence as follows:

(1) HIRARA
NE/SW Strip (Prevailing wind)	5100 feet
E/W Strip	4450 feet
N/S Strip	4600 feet

The E/W strip can be extended to approximately 6800 feet. The other strips cannot be extended because of ravines and bluffs. A strip paralleling the existing NE/SW strip with 1000 feet between center lines can be constructed to an estimated length of 5000 feet.

(2) NOBARU
N/S Strip	4400 feet
E/W Strip	5150 feet

The orientation of these strips has evidently been determined by a hill called NOBARU-DAKE which has an elevation of 378 feet. The E/W strip cannot be extended.

(3) SUGAMA - On the south shore of JUNK BAY
NE/SW Strip	4000 feet

This strip can be extended to 7500 feet minimum for VLR operation. The site will also permit construction of a second VLR strip with a minimum distance of 1000 feet between its center line and the center line of the existing strip.

(b) An undeveloped site which is feasible of development to provide two VLR strips is located in the area north and slightly to the east of MIYUGUNI.

(c) The material contained in the preceeding sub-paragraphs has been written in advance of preparation of terrain maps from aerial coverage by the multiplex process. Further study when these maps become available may vary some of the figures cited and may reveal additional or alternate sites for airfields.

(2) KIKAI

(a) KIKAI has two existing airfields as follows:

WAN - This field is under construction but it is believed to be operational for enemy planes. It has no distinct runways but offers an irregular landing area oriented ENE-WSW with approximate dimensions of 1700' x 4400'. It is believed that this field can be extended to 5500'.

SHITOOKE - This field has a single NE/SW runway 2600 feet in length. Approximately one-third of the field is coral surfaced, the remainder appears to be turf. The absence of taxiway, revetment or building development indicates that this field may be a dummy. It is not considered feasible to extend this strip.

(b) Undeveloped sites for VF fields are offered by the narrow plain which borders this island. Three such sites which believed to be suitable for construction of single strip (minimum length - 5500') fighter fields are indicated on Supplement 3, Annex 6, to this Appendix.

(c) The material contained in the preceeding sub-paragraphs has been written in advance of preparation of terrain maps from aerial coverage by the multiplex process. Further study when these maps may become available may vary the material and figures cited and may reveal additional or alternate airfield sites.

b. NAVAL FACILITIES

(1) MIYAKO has an anchorage worthy of development, and installation of Naval Base facilities similar to a CUB, supplemented by a boat pool to operate the landing craft required to handle the garrison cargo is contemplated.

(2) KIKAI will be the site of a GROPAC, to serve the small harbor at SOMACHI. The GROPAC will be supplemented by a boat pool to operate the landing craft required to handle the garrison cargo.

(3) The suggested components for the CUB at MIYAKO and the GROPAC at KIKAI are listed in Supplements 1 and 2 to Annex 7 of Appendix H.

c. HARBOR DEVELOPMENT AND WATERFRONT FACILITIES

(1) MIYAKO - Development of MIYAKO HAKUCHI into an anchorage affording the equivalent of 32 berths of 600 yards each is contemplated. Off-shore installations, shown in Supplement 2 to Annex 6 of Appendix H, will include:

(a) Torpedo nets and underwater detection devices, including sonobuoys and eventually hydrophones.

(b) A Harbor Entrance Control Post located on YERABU JIMA or IKEMA JIMA.

(c) A surface search radar at the above post.

(d) Picket boats sufficient to maintain constant patrol in the narrow passages and shallow water south of the anchorage. Larger craft (83 ft. type) to patrol the northern anchorage approaches.

(e) Mooring buoys in the small anchorage area between HIRARA and SHIMO ZAKI.

(f) Channel buoys and channel entrance range.

Studies indicate that pontoon wharves to handle 2050 MT/day of lighter unloading can be installed on the HIRARA waterfront. Two miles north of the city there appears to be a site where two pontoon wharves for AK unloading could be installed, increasing the total by 1250 MT/day, or 3300 MT/day altogether. Certain beaches will also be available to supplement this tonnage by the use of landing craft. According to observations made over some years, installations in this harbor are affected by waves of moderate height (3' to 8') from the northwest, but only occuring three days in the year (during the month of August). There are no swells reported in that direction. The best available hydrographic chart (from a Japanese survey in 1926) indicates that the inner portion of the harbor was, at that time, rather obstructed by small scattered coral formations. Its capacity as a shelter-ships' mooring area can probably be increased by dredging.

(2) KIKAI - The harbor of SOMACHI HAKUCHI is divided into three areas:

Inner harbor, east and west lochs, and the outer harbor. The inner harbor is small and only west loch is available for use due to shallow and foul water in east loch. The inner harbor is only suitable for LSM or smaller craft due to restricted area of navigable water. Two 400-foot pontoon wharves are contemplated for installation in west loch along the peninsula which divides the inner harbor. Use of the large roadstead anchorage outside the harbor will be necessary and will require the installation of torpedo nets arranged in baffles. Gates for emergency exit must be incorporated in the net baffles. The proximity of the 100 fathom curve makes coverage by fixed underwater detection devices impracticable, except to a limited extent; constant patrol by anti-submarine craft will be necessary. Harbor service facilities ashore will be provided by a GROPAC at SOMACHI.

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d. CONTEMPLATED DEVELOPMENT - PHASE III

PROJECT	TOTAL BATT MOS OPER'L COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST. TRPS REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	OVERALL CONST. DAYS FOR FINAL OPER. STATUS	CONST. EQUIP. M/T	CONST. MATL. M/T
MIYAKO							
Airfield #1 (Existing) (Activated 15 days after seizure) 1 VMF Group 1 VMTB Sqdn 1 Strip to be extended to 5000' x 150' cross strips to be rehabilitated	1.4	3.8	1 Engr Avn Bn until L / 15 (807)*** plus 1 NCB - 1115 Plus 2 CBMU's - 554	50 **	134	(7700)***	7090*
Airfield #2 (Existing) (Activated 7 days after seizure) 1 VMF Group 1 VMF (N) Sqd 1 Strip 5000' x 150' cross strip to be rehabilitated	1.5	3.8		56 **	142	9500 2800	7090*
Airfield #3 (New) 4 VLR Groups - 180 2 New Strips:			Erg Avn Bns				
1 Strip 7500' x 200'	5.6	13.3	2-1614	94	209)	30800	17300*
1 Strip 7500' x 200'	7.3	11.6	2-1614	114	179)		
Airfield #4 (Existing) 4 VLR Groups - 180 2 Strips 7500' x 200'			Eng Avn Bns				
1 New Strip	6.1	18.6	3-2421	64	189)	30800	17300*
1 Strip Rebuilt and Extended	3.5	5.6	1-807	104	179)		
CUB			3 NCB (P1) 3345	As landed	180	21000	48400
ARMY dumps, roads and general construction			6 Engr Const Bn 5400	As landed	180	43200	20000
Spec. Const. Equip. Asphalt, Plant, Crushers, Pavers, Distributors							3000
TOTALS	16870					138100	117180

* Includes tonnage for replacement huts for hospital wards and flight personnel.
** One strip / 20% taxiways and hardstands and minimum facilities.
*** Not added to total since same men and equipment are used later at Field #3.

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PROJECT	TOTAL BATT MOS OPER'L COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST. TRPS REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	OVERALL CONST. DAYS FOR FINAL COMPLETION	CONST. EQUIP. M/T	CONST. MATL. M/T
KIKAI							
Airfield "A" (Existing) (Strip to be rehabilitated within 20 days after seizure) 1 VF Group - 111 Planes 1 VMTB Sqdn Existing unpaved field 4400' Extend to provide strip 5500' x 150'	1.8	3.9	1 Engr Avn Bn 807	55	116	7700	5800*
Airfield "B" (New) 1 VF Group - 111 Planes 1 VF (N) Sqdn - 12 Planes Strip 5500' x 150'	2.3	4.5	1 Engr Avn Bn 807	69	134	7700	5800*
Airfield "C" (New) 1 VF Group - 111 Planes Strip 5500' x 150'	2.3	4.5	To be const. when directed by Cincpoa	75**	100		5600*
Airfield "D" (New) 1 VF Group - 111 Planes 1 VF (N) Sqdn Strip 5500' x 150'	2.3	4.5	1 Engr Avn Bn 807	72**	136	7700	5300*
Airfield "E" (Existing)	Because of its short length and impossibility of extension no improvement of this field is contemplated.						
GROPAC			1/2 NCB (Pl) 558	As landed	180	3500	10964
ARMY - Dumps, Roads, and General Construction			2 Engr Const Bns 1800	As landed	180	14400	10000
Spec. Const. Equip. Distributors (Asphalt)							100
TOTALS			4779			41000	43364

* Includes tonnage for replacement huts for hospital wards and flight personnel.
** One strip ∕ 20% taxiways and hardstands and minimum facilities.

4. TROOP AND TONNAGE REQUIREMENTS

a. In setting up the troop list and tonnage requirements, the following assumptions are made:

(1) ESTIMATED TONNAGE LIFT PER MAN

	Total Lift	Orig. Equip. Initial Maint. & Const. Material: Initial Lift	Orig. Equip. Initial Maint. & Const. Material: Later Echelon
Tactical Troops - withdrawn	3 MT	3 MT	0
Tactical Troops - Remaining as part of Garrison	5 MT	3 MT	2 MT
Garrison Troops - loaded with Assault Forces	10 MT	3 MT	7 MT
Other Garrison Troops	10 MT	5 (Minimum)	5 MT

(2) LOADING CAPACITIES WITHOUT STOWAGE

AP's - 1500 Personnel and 2000 MT

AK's - 6000 MT for vessels scheduled to arrive during combat period (assumed 1st month), and 9000 MT for remainder.

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MIYAKO

		1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	TOTAL
"A"	ESTIMATED PERSONNEL LIFT									
	Tactical Troops	88000								88000
	Garrison Troops	12000	36000	36000						84000
	Replacements (not in population)		3000	3000						6000
	TOTAL TROOPS	100000	39000	39000						178000
	In Assault Shipping	88000								88000
	In Garrison Shipping	12000	39000	39000						90000
	AP's Required	8	26	26						60
"B"	POPULATION ESTIMATE									
	Balance Forward		100000	76000	110000	110000	110000	110000	110000	
	Total Troops from "A" (less repl.)	100000	36000	36000						172000
	SUB-TOTAL	100000	136000	112000	110000	110000	110000	110000	110000	
	Withdrawals		60000	2000						62000
	Estimated Population	100000	76000	110000	110000	110000	110000	110000	110000	
"C"	ESTIMATED DISCHARGE CAPABILITIES IN M/T	* 217800	272800	292800	340800	340800	340800	340800	340800	

"D" ESTIMATE OF TOTAL M/T OF ORIGINAL EQUIPMENT & INITIAL MAINTENANCE

Tactical Troops	@ 3 M/T per man	61000 x 3	- 183000
	@ 5 M/T per man	27000 x 5	- 135000
Garrison Troops	@ 10 M/T per man	84000 x 10	- 840000
			1158000

* Further reconnaissance may indicate that beach capacities may be increased.

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MIYAKO

"E" ESTIMATE OF TONNAGE LIFT (M/T)	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	TOTAL
Maintenance @ .8 M/T per man	80000	61000	88000	88000	88000	88000	88000	88000	
Build up Supply Level		44000	44000	44000	44000				
Military Government		1500	1500	1500	1500	1500			
Tactical Troops in Assault Shipping	264000								(
M/T for Garrison Lift	60000	166300	159300	207300	207300	93800			(1158000
TOTAL	404000	272800	292800	340800	340800	183300	88000	88000	
Lifted in Assault Shipping	264000								
Lifted in Garrison AP's	16000	52000	52000						
Lifted in AK's	124000*	220800	240800	340800	340800	183800	88000	88000	
AK's required	10	25	27	38	38	20	10	10	
AK's involved (120 day turn around)	10	35	62	100	128	133	126	78	

* Partially combat loaded (6000 M/T per AK)

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KIKAI

		1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
"A"	ESTIMATED PERSONNEL LIFT								
	Tactical Troops	26000							26000
	Garrison Troops	1500	7500	4500	4500	2000			20000
	Replacements (not in population)					1000			1000
	TOTAL TROOPS	27500	7500	4500	4500	3000			47000
	In Assault Shipping	26000							26000
	In Garrison Shipping	1500	7500	4500	4500	3000			21000
	AP's Required	1	5	3	3	2			14
"B"	POPULATION ESTIMATE								
	Balance Forward		27500	27500	24500	29000			
	Total Troops from "A" (less repl.)	27500	7500	4500	4500	2000			46000
	SUB-TOTAL	27500	35000	32000	29000	31000			
	Withdrawals		7500	7500					15000
	Estimated Population	27500	27500	24500	29000	31000	31000	31000	
"C"	ESTIMATED DISCHARGE CAPABILITIES IN M/T	30000	55500	85000	102000	102000	102000	102000	

"D" ESTIMATE OF TOTAL M/T OF ORIGINAL EQUIPMENT AND INITIAL MAINTENANCE

Tactical Troops	@ 3 M/T per man	3 x 15000 -	45000
	@ 5 M/T per man	5 x 11000 -	55000
Garrison Troops	@ 10 M/T per man	10 x 20000 -	200000
			300000

T[redacted]

KIKAI

"E" ESTIMATE OF TONNAGE LIFT (M/T)	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
Maintenance @ .8 M/T per man	22000	19600	23200	24800	24800	24800	24800	
Build up Supply Level		12400	12400	12400	12400			
Military Government		450	450	450	450			
Tactical Troops in Assault Shipping	78000							(
M/T for Garrison Lift	7500	23050	48950	64350	64350	13800		(300000
TOTAL	107500	55500	85000	102000	102000	38600	24800	
Lifted in Assault Shipping	78000							
Lifted in Garrison AP's	2000	10000	6000	6000	4000			
Lifted in AK's	27500*	45500	79000	96000	98000	38600	24800	
AK's Required	4	6	9	11	11	5	3	
AK's involved (120 day turn around)	4	10	19	30	37	36	30	

* Partially combat loaded (6875 M/T per AK)

5. MILITARY GOVERNMENT SURVEY

a. GENERAL

Civilian requirements will be provided in the manner set forth in the Logistic Measures for Phase I, utilizing additional Military Government Teams as shown in Troop List, Phase III.

b. WATER FOR CIVILIANS

(1) ~~Late model~~ distilling units will be made available to provide potable water for the civilian population in objectives. Sufficient water distilling plants will be provided to furnish one quart of potable water per man per day to 55,000 civilian residents, Phase III.

(2) In addition to distillation apparatus above, purification apparatus will be provided to furnish about ½ gallon/person/day to 55,000 civilian residents, Phase III.

c. FOOD AND HOUSING FOR CIVILIANS.

The policies governing supply of food and provision of shelter and housing for civilians will follow those established for Phase I.

d. CLOTHING FOR CIVILIANS

As indicated for Phase I, stocks of Red Cross clothing now available on WEST COAST may be used to provide clothing for civilians in accordance with directives to be issued later.

6. MEDICAL FACILITIES AND EVACUATION POLICY

a. ESTIMATE OF CASUALTIES

Type of Casualty	MIYAKO	KIKAI
Dead and Missing	2400	1000
Local Hospitalization	2400	500
Requiring Evacuation	7200	3500
Totals	12000	5000

b. EVACUATION

(1) Evacuation by surface to OKINAWA and the MARIANAS is contemplated, supplemented in the early phases by air evacuation from OKINAWA to the MARIANAS, which will be extended to the targets as soon as suitable fields are available.

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Medical facilities in OKINAWA will be used primarily for staging of casualties en route to the MARIANAS. Bed credits required are as follows:

	OKINAWA	MARIANAS
MIYAKO	500	6500
KIKAI	1000	2500
Total	1500	9000

(2) Surface Ships required:

Objective	No. and Type Ship	Total Capacity
MIYAKO	4 AH*	4000
	3 APH	2100
	8 APA	1100
KIKAI	2 AH	1000
	3 APH	2100
	3 APA or 7 LST	400

* 2 Trips.

c. HOSPITALIZATION

During the assault, hospitalization will be provided by medical units of the assault forces. Hospitalization for garrison forces will be provided as directed in the Base Development Plans. Beds required at MIYAKO will be provided on the basis of 5% of garrison forces and 1% of forces afloat which are based at MIYAKO. This is estimated to be 5,000 beds. At KIKAI, certain medical units of the assault forces, as indicated in Annex 7, will be retained for the support of the garrison. Sufficient additional beds will be provided to bring the total to 4% of garrison and 1% of forces afloat which are based at KIKAI. This is estimated to be 2,425 beds, including those of the assault forces. During the initial part of the garrison phase estimated at 90 days, the evacuation policy will be 30 days at MIYAKO, and 15 days at KIKAI.

d. CARE OF CIVILIANS

Objective	Estimated Casualties	Medical Service By
MIYAKO	6000	Mil.Govt.Unit-600 beds
KIKAI	1800	Mil.Govt.Units-150 beds.

7. LOGISTIC SUPPORT FOR THE FLEET

In addition to the harbors to be utilized in Phase I and II, OKINAWA (NAKAGUSUKU WAN) will be available during Phase III for the services

of fleet oilers, ammunition ships, supply ships and barges, and limited ship repair facilities. Ship repair facilities and emergency logistic replenishment will be available at MANUS and to a lesser extent at LEYTE, subject to arrangement by Cincpoa with CinCSWPA. Fleet fuel consumption is estimated as follows:

L + 30 to L + 60	4,200,000 bbls.
L + 60 to L + 90	5,500,000 bbls.
L + 90 to L + 120	5,600,000 bbls.

In the event the British Pacific Fleet takes part in this operation fuel requirements will be increased by approximately 800,000 barrels for each of the above periods. All other aspects of logistic support for the Fleet for Phase I and II apply equally to Phase III.

8. LOGISTIC SUPPORT OF LAND BASED FORCES

a. RESPONSIBILITY FOR SUPPLY

Forces in Phase III, mounted from areas other than OKINAWA, will be furnished initial supplies by Commanders responsible for furnishing such supplies to forces of Phase I. Forces mounting from OKINAWA will be furnished initial supplies by ComGenlOth Army within total quantities of supplies made available by Cincpoa.

Commanders responsible for providing supplies subsequent to initial mounting for Phase I will be similarly responsible for re-supply of Phase III forces.

b. SUPPLIES TO ACCOMPANY TROOPS

For the forces in Phase III mounting from points other than OKINAWA the same levels of initial supplies as prescribed for Phase I (page 46, paragraph 7 b, Appendix E) will be required. Supplies to accompany forces mounting from OKINAWA will be determined and provided by ComGenlOthArmy from total quantities of supplies made available to him by Cincpoa for all phases of the ICEBERG operation.

c. SUPPLY LEVELS TO BE ESTABLISHED AND MAINTAINED AT THE OBJECTIVE

Supply levels for Phase III will be as prescribed for Phase I except that only a 5 U/F level will be maintained at MIYAKO and KIKAI. ComGenlOthArmy is authorized to distribute stocks among various islands to maintain the prescribed total and stock level.

[redacted]

d. RESERVE SUPPLIES

The reserve levels and supplies (except Class III) established for Phase I will continue through Phase III.

Class III Reserves

(1) All products (less AvGas), drummed:

One ship will be loaded on WEST COAST for selective discharge with 30 days of Class III (AvGas) supplies in drums as follows:

MoGas	16,500 Drums	Greases in pounds	
White Gas	5,000 Drums	2-107	17,500
Diesel	8,000 Drums	2-108	6,250
Kerosene	500 Drums	2-109	2,000
AvLube	300 Drums	2-110	1,250
SAE 10 Lube oil	50 Drums	Gear Lube	
SAE 30 Lube oil	850 Drums	SAE 90	47,650
SAE 50 Lube oil	150 Drums		

(Approximately 30 days supply for 50,000 troops, 10 days approximately for all garrison at both targets).

This ship to arrive at OKINAWA by L ∕ 70 and to be held in reserve for Phase III on call of ComGen10thArmy. If these supplies are not used sooner, they will be discharged at OKINAWA by L ∕ ~~100~~ 95 and constitute drummed reserves.

(2) AvGas and related AvLube, drummed:

The ~~Two~~ shiploads (60,000 Drums AvGas, 2000 AvLube) ~~as~~ provided for in Annex D to Cincpac-Cincpoa Operation Plan 14-44 (para. 5 (d) 1, page 11), if not used in Phases I and II, or portions thereof not used, will be available to ComGen10thArmy on call, and shall be discharged as early as practicable when directed by him.

(3) All products, bulk:

ComServPac will provide 4 IX tankers fully loaded, and to be located as follows at the time indicated:

Number of IX's	Product	Location	Period	Capacity
1	Navy Spec. Fuel Oil	MIYAKO	A ∕ 30	70,000 barrels
1	Navy Diesel	MIYAKO	A ∕ 30	70,000 barrels
1	Navy Spec. Fuel Oil	KIKAI	F ∕ 30	70,000 barrels
1	Navy Diesel	KIKAI	F ∕ 30	70,000 barrels

[redacted]

The IX tankers are to be used as station fueling ships for fleet issue and will be deck loaded with marine lubricating oils. ComServPac is responsible for the re-supply of bulk fuels to these tankers.

e. METHOD OF SUPPLY

(1) MIYAKO

Essential maintenance supplies for 30 days of all classes (except Class III which will be 15 days; and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by A + 35 will be loaded ~~in~~ the United States ~~WEST COAST~~ and sailed at such time or times so as to arrive at ENIWETOK at A - ~~15~~ 5. This shipment will sail from the United States ~~WEST COAST~~ with one of the regular OKINAWA maintenance shipments, but will be loaded in separate ships. It will be held at ENIWETOK for forward movement to ULITHI on call of SCOFA and will constitute the first re-supply shipment for MIYAKO.

The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing A + 5 and accompanying regular OKINAWA maintenance shipments. These shipments will be held at ENIWETOK for forward movement to ULITHI on call of SCOFA. Supplies for the second and third re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except Class III Av-Gas and Class V) for all elements of the landing and garrison forces to be supported. Supplies for the fourth and succeeding re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except drummed AvGas, MoGas and Diesel; and Class V) for all elements of the landing and garrison forces to be supported. These shipments will continue until the prescribed area levels are reached; thereafter only sufficient supplies will be included to maintain area levels. All re-supply shipments will be called forward from ULITHI by CTF 51 or by ComGenl0thArmy when CTF 51 and his representatives have left the

objective. AvGas requirements are estimated as follows for the four airfields to be developed:

A ∕ 5 - A ∕ 30 1,241,300 gals plus related AvLubes

A ∕ 31 - A ∕ 60 1,963,000 gals plus related AvLubes

A ∕ 61 - A ∕ 90 4,663,000 gals plus related AvLubes

Of these quantities the first 25 days supply will be required in drums - 23,421 drums of AvGas and 702 drums of AvLube. This drummed supply will be mounted with and will accompany the first Air Corps units to operate from the objective. Re-supply shipments of AvGas will be made in bulk as prescribed for Phase I. Re-Supply of Class III products other than AvGas will consist of three (3) fifteen (15) day shipments in drums. Subsequent maintenance shipments will consist of approximately 15 days maintenance supplies (less AvGas, MoGas and Diesel), until the prescribed levels are reached. Thereafter, only sufficient supplies will be included to maintain those levels. Re-Supply of MoGas and Diesel after the third 15-day shipment will be in bulk; it is contemplated bulk storage for these products will be operative by A ∕ 15. Four ship loads of Class V assault re-supply ground ammunition will arrive at ULITHI during A to A ∕ 20.

(2) KIKAI

Essential maintenance supplies for 30 days of all classes (except Class III which will be 15 days and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by F ∕ 35 will be loaded in the United States and sailed at such time or times so as to arrive at ENIWETOK at F - 5. This shipment will sail from the United States with one of the regular OKINAWA maintenance shipments, but will be loaded in separate ships. It will be held at ENIWETOK for forward movement to ULITHI on call of SCOFA, and will constitute the first re-supply shipment for Phase III d. The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing F + 5 and accompanying regular OKINAWA maintenance shipments.

These shipments will be held at ENIWETOK for forward movement to ULITHI on call of SCOFA. Supplies for the second and third re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except Class III AvGas and Class V) for all elements of the landing and garrison forces to be supported. Supplies for the fourth and succeeding re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except drummed AvGas, MoGas and Diesel; and Class V) for all elements of the landing and garrison forces to be supported. These shipments will continue until the prescribed area levels are reached; thereafter, only sufficient supplies will be included to maintain area levels. All re-supply shipments will be called forward from ULITHI by CTF 51 or by ComGenlOthArmy when CTF 51 and his representatives have left the objective.

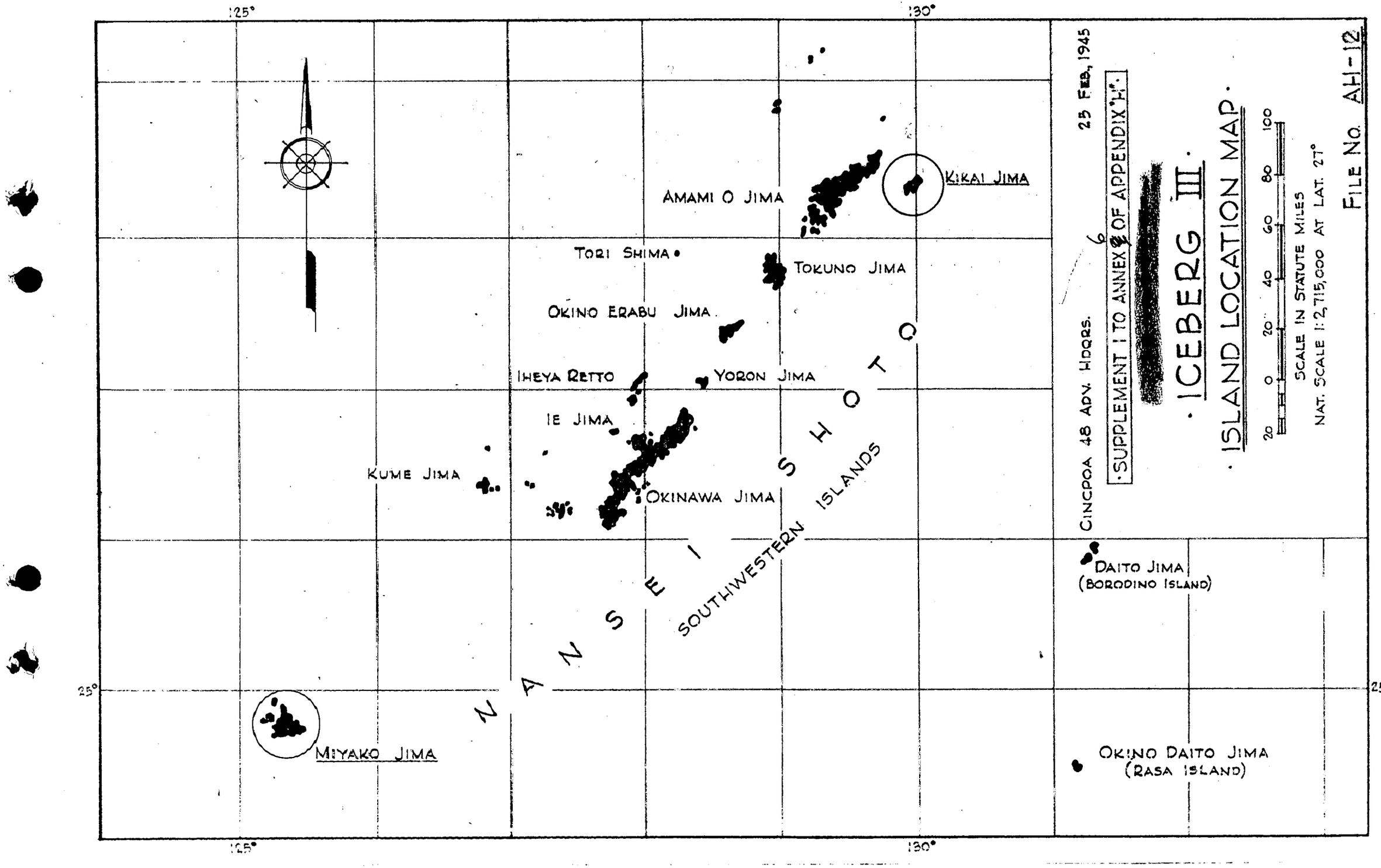
Assuming the four airfields are activated on KIKAI as scheduled AvGas requirements are estimated as follows:

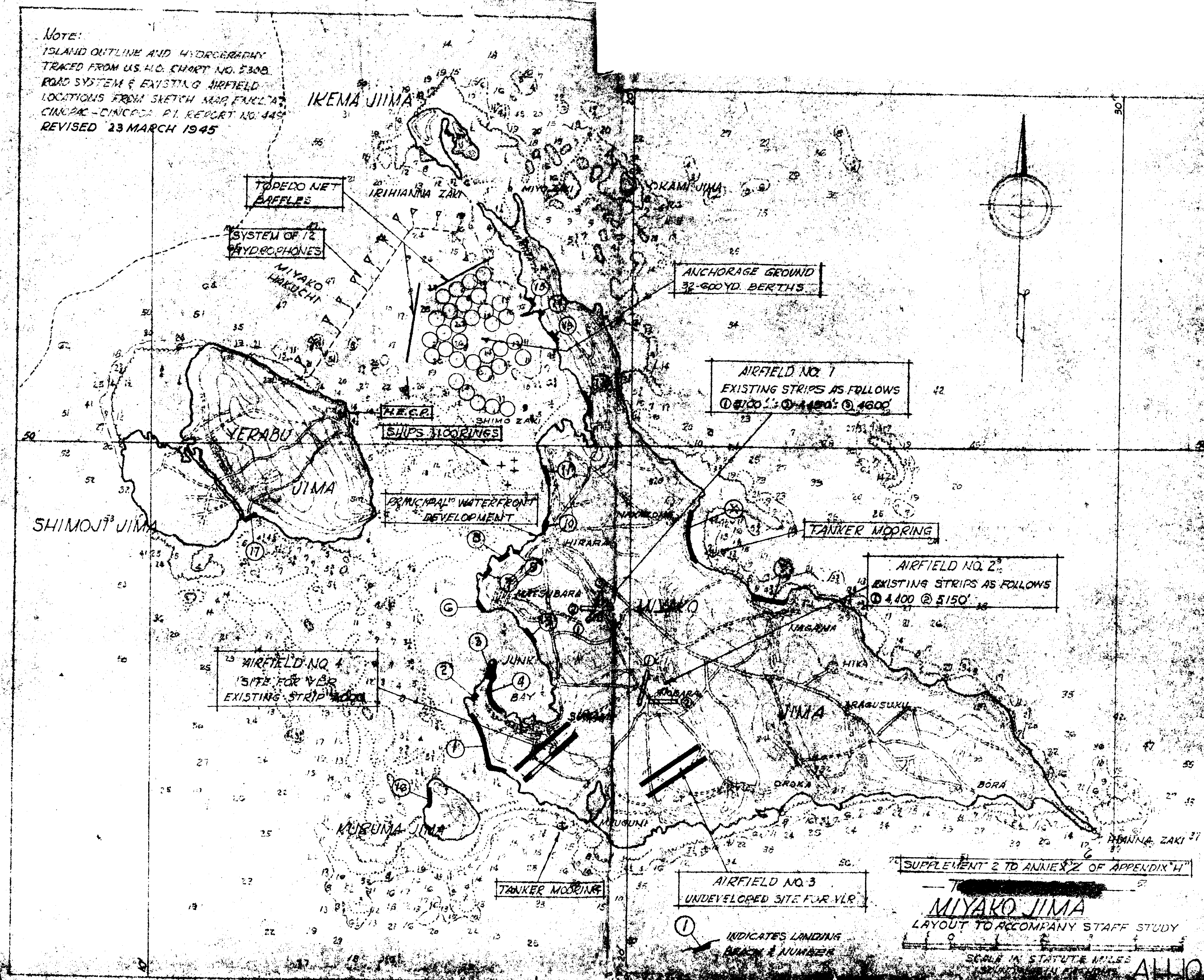
F ∕ 35 - F ∕ 60	1,776,800 gals in bulk
F ∕ 61 - F ∕ 90	3,850,000 gals in bulk

These quantities and related AvLubes will be delivered by ComServPac to the OKINAWA area prior to the respective periods shown to be discharged as directed by ComGenlOthArmy. It is anticipated a minimum of 20,000 barrels AvGas storage will be available on this island by F ∕ 35. Re-supply shipments of AvGas will be made in bulk as prescribed for Phase I. Re-supply of Class III products other than AvGas will consist of three (3) fifteen (15) day shipments in drums. Subsequent maintenance shipments will consist of approximately 15 days maintenance supplies (less AvGas, MoGas and Diesel), until the prescribed levels are reached. Thereafter, only sufficient supplies will be included to maintain those levels. Re-supply of MoGas and Diesel after the third 15-day shipment will be in bulk; it is contemplated bulk storage for these products will be operative by F ∕ 15.

(3) The following shipping designators have been assigned:

Location	Shipping Designator
MIYAKO	FINK
KIKAI	YONK


125°
130°
25°
AMAMI O JIMA
KIKAI JIMA
TORI SHIMA
TOKUNO JIMA
OKINO ERABU JIMA
IHEYA RETTO
YORON JIMA
IE JIMA
KUME JIMA
OKINAWA JIMA
NANSEI SHOTO
SOUTHWESTERN ISLANDS
DAITO JIMA
(BORODINO ISLAND)
OKINO DAITO JIMA
(RASA ISLAND)
MIYAKO JIMA
CINCPOA 48 ADV. HDQRS. 25 FEB., 1945
SUPPLEMENT 1 TO ANNEX 6 OF APPENDIX "H"
ICEBERG III.
ISLAND LOCATION MAP.
SCALE IN STATUTE MILES
NAT. SCALE 1:2,715,000 AT LAT. 27°
FILE NO. AH-12


NOTE:
ISLAND OUTLINE AND HYDROGRAPHY TRACED FROM U.S. H.O. CHART NO. 5308.
ROAD SYSTEM & EXISTING AIRFIELD LOCATIONS FROM SKETCH MAP ENCL. "A" CINCPAC - CINCPOA P.I. REPORT NO. 449
REVISED 23 MARCH 1945
IKEMA JIMA
TORPEDO NET BAFFLES
IRIHIANNA ZAKI
SYSTEM OF 12 HYDROPHONES
MIYAKO HAKUCHI
MIYO ZAKI
OKAMI JIMA
ANCHORAGE GROUND 32-600 YD. BERTHS
AIRFIELD NO. 1 EXISTING STRIPS AS FOLLOWS
H.E.C.P.
SHIPS MOORINGS
SHIMO ZAKI
YERABU JIMA
SHIMOJI JIMA
PRINCIPAL WATERFRONT DEVELOPMENT
HIRARA
TANKER MOORING
AIRFIELD NO. 2 EXISTING STRIPS AS FOLLOWS ① 4,400 ② 5150'
MIYAKO JIMA
MATSUBARA
NAGAMA
HIKA
ARAGUSUKU
JUNK BAY
AIRFIELD NO. 4 SITE FOR VLR EXISTING STRIP
OROKA
BORA
KURUMA JIMA
HIANNA ZAKI
TANKER MOORING
AIRFIELD NO. 3 UNDEVELOPED SITE FOR VLR
① INDICATES LANDING BEACH & NUMBER
SUPPLEMENT 2 TO ANNEX "Z" OF APPENDIX "H"
T[redacted]
MIYAKO JIMA
LAYOUT TO ACCOMPANY STAFF STUDY
SCALE IN STATUTE MILES
AH-10

NOTE:-

Base Map information taken from H.O. Misc. Charts Nos. 11,557-8 and 11,557-10 which were derived from A.M.S. L791 (1:50000 Emergency Reproduction), H.O. Chart No. 5304 and Jap Chart No. 225.

SITE FOR AIRFIELD "A" (UNDER CONSTRUCTION)

TANKER MOORING

SITE FOR AIRFIELD "B"

TANKER MOORING

SITE FOR AIRFIELD "C"

AIRFIELD "E" POSSIBLY DUMMY

SITE FOR AIRFIELD "D"

PRINCIPAL NAVAL BASE & HARBOR DEVELOPMENT

POTENTIAL LANDING BEACHES

[redacted]

CINCPOA 4B ADVANCE HEADQUARTERS

KIKAI SHIMA

LAYOUT TO ACCOMPANY STAFF STUDY

GRAPHIC SCALE IN FEET

NATURAL SCALE 1:36 000
ELEVATIONS IN METERS
SOUNDINGS IN FATHOMS

REVISED TO 30 MAR, 1945
DRAWN BY: E.R.S. 24 MAR, 1945

FILE Nº AH-19

[redacted]T

ICEBERG - PHASE III (c) TROOP LIST

Revised 19 April 1945.

ANNEX 7 TO APPENDIX H

SUMMARY

UNITS	ASSAULT ARMY	ASSAULT NAVY	ASSAULT MARINE	ASSAULT TOTAL	GARRISON ARMY	GARRISON NAVY	GARRISON MARINE	GARRISON TOTAL	DECREASE	INCREASE
COMBAT										
Headquarters & Divisions	-	-	61512	61512	900	35	19965	20900	40612	
Aviation Combat Units ✓	-	-	-	-	17592	-	2505	20097		20097
AA Artillery	-	-	-	-	6519	-	-	6519		6519
Artillery	568	-	3287	3855	2287	-	-	2287	1568	
Armored	-	-	-	-	117	-	-	117		117
Miscellaneous	-	-	186	186	-	-	-	-	186	
TOTAL COMBAT	568	-	64985	65553	27415	35	22470	49920	42366	26733
SERVICE										
Aviation Service Units ✓	99	-	-	99	9768	-	2403	12171		12072
Chemical	672	-	-	672	547	-	-	547	125	
Engineer	-	5709	1149	6858	15452	5148	-	20600		13742
Medical	247	186	831	1264	3012	762	-	3774		2510
Ordnance	-	-	84	84	2191	-	-	2191		2107
Quartermaster	-	-	1546	1546	4865	-	-	4865		3319
Signal	174	-	2395	2569	592	142	-	734	1835	
Adjutant General	-	-	-	-	235	-	-	235		23[illegible]
Military Police	-	-	474	474	962	-	-	962		48[illegible]
Transportation	2243	-	4389	6632	2117	1098	-	3215	3417	
Naval Units	-	196	-	196	-	4055	-	4055		3859
Military Government	149	253	-	402	37	405	-	442		40
Miscellaneous	-	-	-	-	158	-	-	158		158
TOTAL SERVICE	3584	6344	10868	20796	39936	11610	2403	53949	5377	38530
TOTAL COMBAT & SERVICE	4152	6344	75853	86349	67351	11645	24873	103869	47743	65263
GRAND TOTAL	ASSAULT - 86,349				GARRISON - 103,869					

ICEBERG - PHASE III (c)

ANNEX 7 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
COMBAT															
Hq Co, Corps	E-849	520					1	520							
Hq & Serv Bn, Corps	F-850						1	1097							
Marine Div (plus 2500 Repl)	F-100						3	59895					1	19965*	
Inf Div	7	14032							1	14032*					
IsCom Hq									1	900	35				
TOTALS							61512			900	35			19965	
AVIATION COMBAT UNITS															
Hq & Hq Sq Bomb Wing VH	1-160-1	224							2	448					
Hq Bomb Gp VH	1-112	105							8	840					
Bomb Sq VH	1-167	647							24	15528					
Photo Recon Sq VH	1-768	608							1	608					
Photo Lab Bomb Gp VH	1-119	21							8	168					
Hq & Hq Sq Gp	D-116A	135											2	170	
VMF Sq	E-602	287											6	1722	
VMTB Sq	D-103	354											1	354	
VMF(N) Sq		259											1	259	
TOTALS										17592				2505	

* One Marine Division will remain in garrison until relieved by an Inf Div redeployed from the EUROPEAN Theater. Inf Div not included in totals.

AA ARTILLERY															
Hq & Hq Btry AAA Brig	44-16-1	80							1	80					
Hq & Hq Btry AAA Gp	44-12	73							2	146					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
AA ARTILLERY (Continued)															
AAA A/W Bn	44-125	787							4	3148					
AAA Gun Bn	44-115	631							4	2524					
AAA S/L Bn (less 1 Btry)	44-135	579							1	579					
AAA Opns Det	44-7	42							1	42					
TOTALS										6519					
ARTILLERY															
Hq Btry, Corps	F-149	151					1	151							
155mm Gun Bn	E-185	737					4	2948							
VMO	E-601	48					4	188							
155mm Gun Bn T/F/U	4-135	550							3	1650					
Hq & Hq Btry CA Gp	4-152	69							1	69					
8" How Bn	6-365	568	1	568					1	568					
TOTALS				568				3287		2287					
ARMORED															
Tk Co (S/D)	17-27	117							1	117					
MISCELLANEOUS															
War Dog Plats	F-301	62					3	186							

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
SERVICE															
AVIATION SERVICE UNITS															
Hq & Base Serv Sq Serv Gp	1-452-T	312							8	2496					
Engr Sq Serv Gp	1-457-T	258							8	2064					
Materiel Sq Serv Gp	1-458-T	142							8	1136					
Hq & Hq Sq Air Depot Gp	1-852-T	190							2	380*					
Depot Repair Sq	1-857	369							2	738*					
Depot Supply Sq	1-858	131							~~4~~ 4	~~800*~~ 564					
Marine Air Base Sqdn	-	411											2	822	
Service Sqdn	D-115	255											2	510	
Hdqtrs Sqdn	D-116	412											2	824	
Aviation Sq	1-999	253							2	506*					
Aviation Sq	1-999	253							2	506					
Det Weather Sq	1-627	Var.							1	95					
									~~4~~ 4	~~536~~ 536					
Chemical Co Air Opns	3-457	134							~~2~~	~~260~~					
Chemical Depot Co Avn	3-418	78							1	78*					
Chemical Maint Co Avn	3-47	119							1	119*					
Hq & Hq & Serv Co, Engr Avn Reg't	5-412		See ENGINEER Section.												
Engr Avn Bn	5-415		"		"		"								
NCB (Airfield Const)	P-1		"		"		"								
Med Sup Plat Avn	8-497	21							2	42*					
Ord Ammo Co Avn	9-17	179							1	179					
Ord Depot Co Avn	9-57	180							1	180*					
Ord Maint Co, A.F.	9-257	215							1	215					
QM Plat Air Depot Gp	10-427	24							2	48*					
QM Truck Co Avn	10-517	102							4	408*					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
AVIATION SERVICE UNITS (Continued)															
Sig Hvy Const Bn Avn	11-65	437							1	437					* Units necessary to support Aviation Combat Units in Phase III (c) but which will be located at LEGUMINOUS. These units are not included in island population total. They are shown as requirements only.
AACS Det	1-447-S	Var.	1	99					1	189					
Det Sig Serv Bn, ACS	11-500	Var.							1	65					
Sig Co Wing	11-247	127							2	254					
M.P. Co Avn	19-217	101							2	202*					
M.P. Co Avn	19-217	101							4	404					
Radio Sq Mobile	1-1027	448							1	448					
Det Sig Serv Bn JCC	11-500	-							1	75					
MEW Control Center Org'n	(11-400 (1-47	375							1	375					
Air Warning Sqdn	-	247												247	
Sig Co Depot Avn	11-287	189							2	378*					
Troop Carrier Terminal	1-317	Var.								32					
TOTALS				99						~~9230~~ 9768				2403	
CHEMICAL															
Hq & Hq Det Smoke Gen Bn	3-266-S	11							1	11					
Chemical Smoke Gen Co	3-267	133							2	266					
Chemical Gen Serv Co	3-137-S	130							1	130					
Chemical Processing Co	3-77	140							1	140					
Chemical Mortar Bn	3-25	672	1	672											
TOTALS				672						547					
ENGINEER															
Topographic Co (Sep)	-	142					1	142							

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
ENGINEER (Continued)															
Engr Bn (Sep)	E-285	1007					1	1007							
Navy CB Reg't Hq		67	2	134							2	134			
Navy CB (Marine Divs)	P-1	1115			4	4460									
Navy CB (Waterfront)	P-1	1115									1	1115			
Navy CB (Airfields)	P-1	1115									1	1115			
Navy CBMU	P-5	277									2	554			
Navy CB (CUB)	P-1	1115									2	2230			
Hq & Hq & Serv Co, Engr Avn Reg't	5-412	273							1	273					
Engr Avn Bn	5-415	777							8	6216					
Maint Co	5-157	191							2	382					
Dump Truck Co	5-88	107							8	856					
Engr Depot Co	5-47	209							1	209					
Engr Hq & Hq Co Const Gp	5-72	94							1	94					
Engr Const Bn	5-75	900							6	5400					
Engr Serv Bn Comp	5-500	635							1	635					
Engr S/L Maint Teams	5-500	3							2	6					
Engr Water Sup Co	5-67	136							1	136					
Engr Hq & Hq Co Base Depot	5-592	72							1	72					
Engr Co Base Depot	5-267								1	165					
Engr Co Base Equip	5-377								1	173					
Engr Co Hvy Shop	5-357								1	171					
Engr Plat Parts Sup	5-567								2	114					
Engr Co Petrol Dist	5-327								2	432					
Engr Co Light Equip	5-367								1	118					
TOTALS						5709		1149		15452		5148			

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ICEBERG - PHASE III (c)

ANNEX 7 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
MEDICAL															
Med Bn	F-55	599					1	599							
Evac Hosp, Corps	-	232					1	232							
Dispensary 100 bed (M.G.)	G-6	87			2	174					4	348			
Malaria Control Unit	8-500	12	1	12					3	36					
Station Hosp (250 bed)	8-560	179							1	179					
Malaria Survey Unit	8-500	13	1	13					2	26					
General Hosp (1000 bed)	8-550	594							1	594					
Field Hosp	8-510	222	1	222					1	222					
Station Hcsp (500 bed)	8-560	337							5	1685					
Dispensary (50 bed)	G-7	70									1	70			
Dispensary (10 bed) (M.G.)	G-10	4			3	12									
Sanitary Co	8-117	112							2	224					
Vet Det Food Insp	8-500	5							3	15					
Med Supply Team #5 (B5)	8-500	31							1	31					
Dispensary (600 bed)	G-2	344									1	344			
TOTALS			247		186		831		3012		762				
ORDNANCE															
Bomb Disp Co	-	84					1	84							
Bomb Disp Sq	9-500	7							5	35					
Hq & Hq Det Ord Gp	9-12	51							1	51					
Hq & Hq Det Ord Bn	9-76	34							2	68					
Ord M Maint Co	9-7	162							2	324					
Ord Hvy Maint Co, Tk	9-37	202							1	202					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
ORDNANCE (Continued)															
Ord M Auto Maint Co	9-127	116							2	232					
Ord Hvy Auto Maint Co	9-197	202							2	404					
Ord Maint Co AA	9-217	157							1	157					
Ord Ammo Co	9-17	179							2	358					
Ord Depot Co	9-57	180							2	360					
TOTALS								84		2191					
QUARTERMASTER															
Laundry Plat (Sep)		62					4	248							
Field Depot	E-770	1211					1	1211							
Air Del Sec	E-700	87					1	87							
QM Truck Co	10-57	110							4	440					
Hq & Hq Det QM Bn	10-536	30							5	150					
QM Serv Co	10-67	219							8	1752					
QM Depot Supply Co	10-227	186							1	186					
QM Salv Coll Co	10-187	188							1	188					
Sec Laundry, Type EJ	10-500	36							2	72					
Sec Laundry, Type EI	10-500	29							5	145					
QM Graves Reg Plat	10-297	72							1	72					
Hq & Hq Det QM Gp	10-22	31							1	31					
QM Bakery Co	10-147	168							2	336					
QM Laundry Co	10-167	270							2	540					
QM Sterilization Co	10-177	153							2	306					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
QUARTERMASTER (Continued)															
QM Salv Rep Co	10-237	201							2	402					
QM Driver Team, Car	10-500	24							5	120					
QM Gas Supply Co	10-77	125							1	125					
TOTALS								1546		4865					
SIGNAL															
Sig Bn, Corps	F-530	784					1	784							
Radio Int Plats	E-538	48					2	96							
JASCO's	E-518	505					3	1515							
Sig Serv Co (Opn)	11-500	Var.	1	174					1	372					
Sig Const Co Hvy	11-67	193							1	193					
Naval Comm Unit	-	-									1	142			
Radar Maint Units 2B, 2C, 1D, 1E	11-617	Var.							6	27					
TOTALS				174				2395		592		142			
ADJUTANT GENERAL															
Army Postal Unit, Type J	12-605	20							1	20					
Army Postal Unit, Type M	12-605	29							1	29					
Army Postal Unit, Type K	12-605	24							3	72					
Special Service Co	28-17	114							1	114					
TOTALS										235					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
MILITARY POLICE															
M.P. Bn (Provisional)	-	474						474							
M.P. Co, Corps									1	163					
M.P. Bn	19-55	649							1	649					
M.P. Proc. Plat	19-237	35							1	35					
Criminal Invest Sec, Type II	19-500 BJ	11							1	11					
Encl Guard Sec, Type III	19-400 DC	49							2	98					
Mess Team, No. 2	19-500 AF	6							1	6					
TOTALS								474		962					
TRANSPORTATION															
Hq Amphib Tractor Gp	-	100					1	100							
M.T. Co	F-712	112					1	112							
M.T. Bn	F-715	624					1	624							
Arm'd Amphib Tractor Bn	G-1020	869					1	869							
Amphib Tractor Bn	E-50	536					4	2144							
Amphib Truck Co	E-750	180					3	540							
Amphib Tractor Bn	17-125	502	3	1506											
Hq & Hq Det Port Bn	55-116	33							2	66					
Port Co	55-117	219							6	1314					
Navy CB Spec (Port)	F-1												1	1098	
Amphib Truck Co	55-37	180	4	720					4	720					
Hq & Hq Co, Amphib Truck Bn	55-500 AC	17	1	17					1	17					
TOTALS				2243				4389		2117				1098	

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ICEBERG - PHASE III (c)

ANNEX 7 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
NAVAL UNITS															
Comdr NavBase Hq	-	48									1	48			
Fleet Post Office	C-10	25									1	25			
* CUB	-										1	2738			
Garrison Beach Parties	-	98			2	196					2	196			
Boat Pool	-	-									1	465			
Truck Co (Navy)	-	150									1	150			
Freight Terminal	-	-									1	135			
Naval Detachment 'C'	-	71									1	71			
Fleet Canteen	-	27									1	27			
Officers' Club	-	14									1	14			
Heavy Duty Garage	-	139									1	139			
Advance Material Handling Unit	-	47									1	47			
TOTALS						196						4055			
MILITARY GOVERNMENT															
Interpreters	-	-							1	37					
Military Gov't Det A	-	14			3	42									
Military Gov't Det B	-	26			1	26									
Military Gov't Det C	-	37			5	185					6	222			
Military Gov't Det D	-	83									1	83			
M.P. Co	19-57	149	1	149											
Camps (250 men)	N1A	25									4	100			
TOTALS				149		253				37		405			

* See Supplement 1 for details.

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
MISCELLANEOUS															
Military Censors	-	-							1	80					
Intel Serv Org'n	30-600-T	11							1	11					
Order of Battle Team	30-30-T	3							1	3					
Photo Interpreter Team	30-30-T	7							1	7					
CIC Team Type A1	30-500-T	2							1	2					
CIC Team Type B1	30-500-T	5							1	5					
CIC Team Type A4	30-500-T	10							2	20					
CIC Team Type B4	30-500-T	15							2	30					
TOTALS									158						
TOTAL COMBAT & SERVICE			4152		6344		75853		~~66821~~ 62351		11645		24873		
GRAND TOTAL			TOTAL ASSAULT - 86,349						TOTAL GARRISON - ~~103,339~~ 103,869						

Revised 19 April 1945.

TROOP LIST

ICEBERG - PHASE III (d)

ANNEX 7 TO APPENDIX H

SUMMARY

UNITS	ASSAULT ARMY	ASSAULT NAVY	ASSAULT MARINE	ASSAULT TOTAL	GARRISON ARMY	GARRISON NAVY	GARRISON MARINE	GARRISON TOTAL	DECREASE	INCREASE
COMBAT										
Headquarters	-	-	-	-	425	-	-	425	-	425
Divisions	14032	-	-	14032	3716	-	-	3716	10316	-
Aviation Combat	-	-	-	-	3671	-	354	4025	-	4025
AA Artillery	-	-	-	-	3603	-	-	3603	-	3603
Artillery	-	-	-	-	550	-	-	550	-	550
Armored	3694	-	-	3694	117	-	-	117	3577	-
TOTAL COMBAT	17726	-	-	17726	12082	-	354	12436	13893	8603
SERVICE										
Aviation Service	-	-	-	-	6661	-	247	6908	-	6908
Chemical	672	-	-	672	130	-	-	130	542	-
Engineer	2110	558	-	2668	3730	558	-	4288	-	1620
Medical	573	114	-	687	1280	302	-	1582	-	895
Ordnance	14	-	-	14	774	-	-	774	-	760
Quartermaster	-	-	-	-	2134	-	-	2134	-	2134
Signal	459	124	-	583	490	95	-	585	-	2
Adjutant General	-	-	-	-	53	-	-	53	-	53
Military Police	-	-	-	-	163	-	-	163	-	163
Transportation	1466	-	-	1466	1466	-	-	1466	-	-
Naval Units	-	-	-	-	-	873	-	873	-	873
Military Government	-	-	-	-	18	139	-	157	-	157
Miscellaneous	77	-	-	77	106	-	-	106	-	29
TOTAL SERVICE	5371	796	-	6167	17005	1967	247	19219	542	13594
TOTAL COMBAT & SERVICE	23097	796	-	23893	29087	1967	601	31655	14435	22197
GRAND TOTAL	ASSAULT - 23,893				GARRISON - 31,655				NET INCREASE - 7,762	

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
COMBAT															
HEADQUARTERS															
Hq & Hq Co, AGF	T/A	Var.							1	400					
Military Censors	T/A	Var.							1	25					
TOTALS										425					
INFANTRY															
Division	7	14032	1	14032											
Regimental Combat Team	(7-11 (6-25	3716							1	3716					
TOTALS				14032						3716					
AVIATION COMBAT UNITS															
Hq & Hq Sq Fighter Wing	1-10-1	245							1	245					
Hq Fighter Gp	1-12	98							3	294					
Fighter Sq S/E	1-27	284							9	2556					
Night Fighter Sq	1-67	288							2	576					
VMTB Sq	D-103	354											1	354	
TOTALS										3671				354	
AA ARTILLERY															
Hq & Hq Btry AAA Gp	44-12	73							2	146					
AAA Gun Bn	44-125	631							2	1262					
AAA AW Bn	44-125	787							2	1574					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
AA ARTILLERY (Continued)															
AAA S/L Bn (less 1 Btry)	44-138	579							1	579					
AAA Opns Det	44-7	42							1	42					
TOTALS										3603					
COAST ARTILLERY															
155mm Gun Bn (CD)	4-165	550							1	550					
ARMORED FORCE															
Bn, Amphib Tractor	17-125	502	3	1506											
Bn, Amphib Tank	17-115	748	1	748											
Bn, Std Tank	17-25	720	1	720											
Co, Tank (Medium)	17-27	117							1	117					
Bn, Flame Thrower, Tank	17-25	720	1	720											
TOTALS				3694						117					
SERVICE															
AVIATION SERVICE UNITS															
Hq & Base Serv Sq & Serv Gp	1-452-T	312							3	936					
Engr Sq Serv Gp	1-457-T	258							3	774					
Materiel Sq Serv Gp	1-458-T	142							3	426					
Hq & Hq Sq Air Depot Gp	1-852-T	190							1	190*					
Depot Repair Sq	1-857	369							1	369*					
Depot Sup Sq	1-858	131							1	131*					

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ICEBERG - PHASE III (d)

ANNEX 7 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
AVIATION SERVICE UNITS (Continued)															
Station Comp Sq	1-497-S	103							~~3~~ 2	~~309~~ ~~206~~					* Units necessary to support Phase III (d) but which will be located at LEGUMINOUS. These units are not included in island population total. They are shown as requirements only.
Avn Sq	1-999	253							2	506*					
Avn Sq	1-999	253							1	253					
Det Weather Sq	1-627	Var.							1	80					
Hq & Hq Serv Co, Avn Reg't	5-412	273							1	273					
Engr Avn Bn	5-415	777							3	2331					
Med Sup Plat, Avn	8-497	21							1	21*					
Ord Ammo Co, Avn	9-17	179							1	179					
Ord Depot Co, Avn	9-57	180							1	180*					
QM Truck Co, Avn	10-517	102							2	204*					
QM Plat, Air Depot Gp	10-427	24							1	24*					
Sig Hvy Const Co, Avn	11-67	193							1	193					
ACS Det Sig Serv Bn	11-500	Var.							1	44					
Sig Co, Wing	11-297	127							1	127					
M.P. Co, Avn	19-217	101							2	202					
AACS Det	1-447	Var.							1	109					
M.P. Co, Avn	19-217	101							1	101*					
Det Sig Serv Bn, Avn	11-500	Var.							1	50					
AWS	E-691												1	247	
MEW Control Center Org.	(1-47 (11-400	375							1	375					
Sig Co, Depot, Avn	11-287	189							1	189*					
TOTALS									~~6550~~ 6661					247	

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ICEBERG - PHASE III (d)

ANNEX 7 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
CHEMICAL															
Bn, Mortar	3-25	672	1	672											
Co, Gen Serv	3-137								1	130					
TOTALS				672						130					
ENGINEER															
NCB (½ GROPAC)	P-1	1115			½	558					½	558			
Hq & Hq Co, Gp, Combat	5-192	81	1	81											
Engr Bn, Combat	5-15	637	3	1911											
Engr Lt Equip Co	5-367	118	1	118					1	118					
Engr Maint Co	5-157	191							1	191					
Engr Water Sup Co	5-67	136							1	136					
Engr Co Hvy Shop	5-357	171							1	171					
Engr Petrol Dist Co	5-327	216							1	216					
Engr Team S/L Maint	5-500	3							2	6					
Hq & Hq Co Gp Const	5-72	94							1	94					
Engr Plat Depot	5-47	33							1	33					
Hq & Hq Co, Base Depot	5-592	72							1	72					
Engr Bn, Const	5-75	900							2	1800					
Engr Co, Base Depot	5-267	165							1	165					
Engr Dump Truck Co	5-88	107							3	321					
Engr Parts Sup Plat, (Sep)	5-567	57							1	57					
Composite Unit - Maint. Teams	5-500	Var.							1	350					
TOTALS				2110		558				3730		558			

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
MEDICAL															
Co, Clearing	8-28	112	1	112					1	112					
Co, Collecting	8-27	101	1	101					1	101					
Hosp Evac (400 bed)	8-581	286	1	286					1	286					
Hosp Surgical Portable	8-572	37	2	74											
Co, Sanitary	8-117	112							1	112					
Hosp, Gen (1000 bed)	8-550	594							1	594					
Malaria Control Unit	8-500	12							1	12					
Malaria Survey Unit	8-500	13							1	13					
Vet Det, Food Insp	8-500	5							1	5					
Med Supply Team	8-500	10							1	10					
Med Serv Det	8-500	35							1	35					
Dispensary M.G. (24 bed)	G-10	4			2	8					2	8			
Dispensary M.G. (250 bed)	G-6	106			1	106					1	106			
Dispensary (200 bed)	G-4	188									1	188			
TOTALS				573		114				1280		302			
ORDNANCE															
Hq & Hq Det, Bn	9-76	34							1	34					
Ord Co Depot	9-57	180							1	180					
Co HAM	9-197	202							1	202					
Ord HM Co, Tk, Det	9-37	-								25					
Co Maint AA	9-217	157							1	157					
Co Med Maint	9-7	162							1	162					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
ORDNANCE (Continued)															
Sq Bomb Disposal	9-500	7	2	14					2	14					
TOTALS				14						774					
QUARTERMASTER															
Co Depot Supply	10-227	186							1	186					
Co Truck	10-57	110							~~3~~	~~330~~					
Plat Salv Coll	10-187	56							1	56					
Driver Team (Car)	10-500	24							1	24					
Hq & Hq Det QM Bn	10-536	30							2	60					
Co Bakery	10-147	160							1	160					
Plat G.R.S. Co	10-297	23							1	23					
Co Laundry	10-167	270							1	270					
Plat Salv Rep	10-237	87							1	87					
Co Service	10-67	219							3 ~~4~~	~~657~~ 876					
Plat Sterilization Co	10-177	62							1	62					
TOTALS										~~1005~~ 2134					
SIGNAL															
Radar Maint Teams: 1A, 1C, 1D & 1E	11-617	18							1	18					
JASCO	11-147-S	488	1	364	1	124									
Co Sig Const Hvy	11-67	202		95					1	202					
Signal Serv (Opn) Co	11-500	Var.							1	270					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
SIGNAL															
Naval Comm Unit	-	Var.									1	95			
TOTALS				459		124				490		95			
ADJUTANT GENERAL															
Army Postal Unit, Type M	12-605 Col. 14	29							1	29					
Army Postal Unit, Type K	12-605	24							1	24					
TOTALS										53					
MILITARY POLICE															
M.P. Co, Corps	19-37	163							1	163					
TRANSPORTATION															
Hq & Hq Co, Amphib Truck Bn	55-500	17	1	17					1	17					
Hq & Hq Det Port Bn	55-116	33	1	33					1	33					
Amphib Truck Co	55-37	180	~~23~~	~~360~~ 540					~~23~~	~~360~~ 540					
Port Co	55-117	219	~~24~~	~~480~~ 876					~~24~~	~~480~~ 876					
TOTALS				~~840~~ 1466						~~840~~ 1466					
NAVAL UNITS															
Fleet Post Office	-	25									1	25			
* GROPAC	Var.	459									1	459			
Boat Pool	Var.										1	300			

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ICEBERG - PHASE III (d)

ANNEX 7 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
NAVAL UNITS															
Garrison Beach Party	Var.										1	89			
TOTALS												873			
* See Supplement 2 for details.															
MILITARY GOVERNMENT															
A Det	-	15									1	15			
B Det	-	27									1	27			
Comp Ord C Det	-	36									2	72			
Camp (250 men)	N1A	25									1	25			
Interpreters									18						
TOTALS									18			139			
MISCELLANEOUS															
Intel Serv Org	30-600-T	11	1	11					1	11					
Order of Battle Team	30-30-T	3	1	3					1	3					
Photo Interpreter Team	30-30-T	7	1	7					1	7					
CIC Teams	30-500-T	32	1	32					1	32					
1-A1, 1-B1, 1-A4, 1-B4															
News Team	30-12-S	3	1	3					1	3					
Special Service Plat	28-17	29							1	29					
War Dog Plat	10-397-T	21	1	21					1	21					
TOTALS				77						106					
GRAND TOTALS				~~23,479~~		796		-		~~[illegible]~~		1,967		601	
				TOTAL ASSAULT - ~~23,675~~ 23,093				23,893		TOTAL GARRISON - ~~30,606~~ 29,087				31,655	

NAVAL BASE UNITS FOR PHASE III(C)

CUB

			TOTAL PERSONNEL
	A-2	Administration (Medium)	62
	A-6	Intelligence Office (Medium)	5
	A-7	Shore Patrol Company (HQ) Augmented	23
	B-1	Harbor Entrance Control Post	27
	B-3	Underwater Detection	39
	B-4A	Port Director (Medium)	24
	B-4C	Harbor Patrol	29
	B-6	Surface Detection Radar (Large)	47
	B-9	Fleet Moorings	0
	B-10	Navigation Aids	0
	D-2	(Modified) Storage and Supply (Medium)	380
	D-4	(Modified) Tank Farm (Medium)	7
	D-14	Cobbler and Tailor Shop (Medium)	5
	D-18	Material Recovery	19
	D-21	Disbursing Office (Medium)	18
(2)	D-23	Base Companies	506
	E-6	Landing Craft Base Repair	520
	E-15	Minesweep Equipment Repair (Small)	5
	E-16	Oxygen Generating Plant	12
	E-17	Acetylene Generating Plant	6
	E-18	Bulk CO_2 Transfer	4
	E-19	Typewriter Repair	1
(1)	G-4	Dispensary - 200 Bed	188
	G-9	Dispensary - 10 Bed	5
	G-13	Sub-Dispensary Dental	2
	H-14D	Ready MoGas Storage	0
	J-2	Base Machine Gun Component	4
	J-11D	Mine Assembly Depot (Forward)	33
	J-12A	Net Component (Large)	32
		Naval Ammunition Magazine	119
(3)	N-1A	Camp (250 men) Tents	75
	N-2A	Camp (100 men) Tents	14
	N-2B	Camp (100 men) Tropical Huts	14
(3)	N-3A	Camp (50 men) Tents	24
(3)	N-3B	Camp (50 men) Tropical Huts	24
(3)	N-5B	Camp Bldgs. (250 men) Tropical	0
	N-6B	Bakery (2000 men)	12
	N-7A	Camp (1000 men) Tents	81
	N-7B	Camp (1000 men) Tropical Huts	81
	N-8B	Camp Bldgs. (1000 men) Tropical	0
	N-9	Base Recreation	0
	N-10	Base Educational Service	2
	N-12	Laundry (1000 men)	5
	P-3	Base Construction Equipment (Medium)	0
	P-5	Base Maintenance	277
	P-8	Port Development Equipment	0
	P-9	Wooden Pier	0
(3)	P-12A	Fire Protection - Basic	3
(4)	P-12C	Fire Protection - Waterfront	4
	P-13	Spare Parts	0
(10)	Q-2		0
		Total Personnel	2738

NAVAL BASE UNITS FOR PHASE III(d)

GROPAC

		TOTAL PERSONNEL
A-3	Administration	48
A-6	Intelligence (med)	5
B-1	HECP	27
B-4B	Port Director (med)	10
B-4C	Harbor Patrol	29
B-5A	Boat Pool	6
B-5B	Barge Pool	28
B-7	Radar (inc. MSS for HECP)	21
B-8	Minesweeping	2
B-9	Fleet Moorings	—
B-10	Navigation Aids	—
(2)D-10	Storage (equipment for (1) only)	34
D-15	Cobbler & Tailor Shop (small)	5
D-22	Disbursing	6
E-8	Repair (small boat) (aug. equip. 50%)	68
E-9	Mobile Repair	18
G-8	Dispensary (25 bed)	14
½H-14C	Tank Farm (MoGas)	—
J-2	Base Machine Gun (1 shop)	4
J-4A	Bomb Disposal	2
J-4B	Mine Disposal	2
J-4C	Base Demolition	30
J-12B	Net Component	100
(4)N-1A	Camps (250)	—
N-9	Base Recreation	—
(4)Q-2	Pre-Embarkation (100 men)	—
	Total Personnel	459

ANNEX 8 TO APPENDIX H, ICEBERG STAFF STUDY

PHASE III e

Foreword

The material for this study was obtained from the following sources:

1. H. O. Chart #5303, 1st Edition, April 1922.
2. H. O. Chart #6134, 1st Edition, September 1944.
3. H. O. Misc. Chart #11,557-18, 1 January 1945.
4. H. O. Misc. Chart #11,557-19, 1 January 1945.
5. JAPAN PILOT, Vol. II, 4th Edition 1940.
6. JANIS #86, 1 August 1944 with revisions to 12 October 1944.
7. AMSL #791, Sheets 36, 37 and 38.
8. CinCPac-CinCPOA Bulletin 163-44 AMAMI GUNTO, 25 November 1944.
9. Photo-interpretation of West Coast (Partial) from Sortie San Jac 55-1 March 1945, 0905-10; K-17 12" Vert 4000'-8000' including 24" camera shots at 18000' with 3/10 cloud cover.
10. CinCPac-CinCPOA Bulletin, Vols. I and II, 4 - 45, 10 March 1945.
11. Photograph (Sortie VD-5 - 84 - 3 April 1945).
12. Special Photo-interpretation Report (Sortie VD-5 - 84 - 3 April 1945), 13 April 1945.

1. OPERATIONAL REQUIREMENTS

The concept of the operation requires rapid construction of additional airdrome facilities on TOKUNO and maximum flexibility in the execution of this plan, both as to target date and details of installation.

2. FACTS AFFECTING LOGISTICS

a. Table of Distances

Distances from the objective to points shown below are as follows:

	AIRLINE NAUT-MILES	NAUTICAL MILES	NO. OF DAYS SAILING TIME (10 KNOTS)
OKINAWA (NAHA)	120	120	.5
IWO JIMA	700	700	2.9
GUAM	1250	1250	5.2
SAIPAN	1230	1230	5.1
ULITHI	1250	1250	5.2
MANUS	2100	2100	8.8
LEYTE	1040	1060	4.4
MANILA	910	1090	4.5
FORMOSA (KIIRUN)	440	440	1.8
KYUSHU (KAGOSHIMA)	260	260	1.1
SHANGHAI	460	470	2.0
TOKYO	760	790	3.3
OAHU		4610	19.2
SAN FRANCISCO		6710	28.0

b. Physical Aspects of the Area.

(1) Survey of Land Area

TOKUNO-SHIMA, one of the larger islands of the AMAMI-GUNTO group of the NANSEI-SHOTO, is located at Lat. 27° 53' N., Long. 128° 59' E. (KANAMI ZAKI at northeastern tip). The island is approximately 16 miles long (north-south) by 10 miles wide (east-west). In 1940 there were about 40,900 inhabitants, located principally in small villages around the coast.

The island is extremely mountainous and rugged, and generally unsuited for road or airfield construction. The center of the island consists of peaks ranging from 1300 to 2100 feet, aligned to form a ridge, or backbone,

running north and south, and constituting a drainage divide. The ridge is broken in the north by one low saddle 330 feet high and by a 650 foot saddle in the south. The central highland areas which cover a large percentage of the island have jagged peaks and very steep slopes. Surrounding the highland area are dissected terraces of varying elevations and slopes. These are cut by sharp, closely spaced ravines, and in the uplands contain sink-holes and blind valleys. There are a few isolated terraces in which the ravines are relatively far apart and which are the only sites suitable for airfield development. These undissected terraces are usually bordered towards the sea by steep slopes and bluffs.

Beaches are few and narrow, except where they merge with valley flats, and are best developed on the east side. There are a few sand dunes, mainly on the east coast, ranging in heights up to 20 feet. Much of the coast, particularly on the west side is surrounded by raised coral reefs which are very narrow, pitted, and jagged and blend imperceptibly into the living reefs.

The peaks which form the center of the island are of intrusive granite rock. The bedrock surrounding the peaks is slate and hard sandstone which should be an excellent source of crushed rock, but which will require drilling and blasting. On much of the island the slate and sandstone bedrock is overlain by old coral-reef limestone, which is generally hard, compact, and cavernous. This limestone is the most widely available and generally useful road and airfield construction material on the island. Outcrops are available for quarry sites and some of the reefs and low benches should be workable. Overlying the coral limestone on the western and southern beaches and slopes and over the slate bedrock in the north is a red soil containing varying percentages of sand, clay and gravel. This deposit frequently contains boulders, is discontinuous, and is bedded horizontally. It should be easy to excavate, except where it contains numerous boulders. It is probably suitable for fills and light road traffic except when it has a relatively high clay content.

(2) Survey of Coastal Areas

A. General

The coast is quite regular with few indentations. In some areas where limestone borders the shore there are overhanging cliffs. In others narrow beaches average about 330 feet in width. The beaches are few, best developed on the east side of the island. There are very few areas of sand dunes, and these are largely on the east shore.

Beaches in the northwest sections are characterized by wide ledges 60 to 950 yards wide, containing tidal pools, coral heads, rock debris and scattered mud bars near the shore.

The fringing reef along the western shore is quite jagged, pitted with small depressions.

The shelf between the island and the 100 fathom curve varies from less than half a mile at points on the western side to nearly four miles off the eastern shore. H. O. #5303 shows currents of high velocity off the northeast, southwest and south extremities of the island with particular turbulence reaching a velocity of four knots off KANAMI ZAKI (northeast point). Coral reefs extend nearly all the way around the islands, broken at points where the numerous streams empty into the ocean.

B. Harbors

There are no harbors for large ships on the island. The only anchorage areas which are shown on available charts are the SANMURA WAN and KAMETSU HAKUCHI (H. O. #6134). The former is near the northeast tip of the island, and has an anchorage for small vessels in 18 to 51 feet of water over a sand bottom, with poor holding ground. Squalls from the mountains to the southwest cause vessels to roll heavily, and the small anchorage is exposed to northeast and east winds which send in swells. Vessels should moor in east or south winds. There is ample open roadstead anchorage in under 30 fathoms of water, giving protection from northwest, west and southwest winds.

KAMETSU HAKUCHI is well charted. There is a small anchorage off KAMETOKU in a break in the reef where small vessels may anchor

in from 4 to 12.5 fathoms of water. This affords some shelter from west winds. There is a landing area for small craft at KAMETSU, but the beach is pitted with coral, and it is approached through a tortuous channel between the reefs. Ships can anchor in under 30 fathoms in the open roadstead, but little protection is afforded.

Another east coast anchorage is indicated off KETOKU, but no charts are available. JANIS #86 indicates this to be a fairly safe anchorage, with local knowledge, with 22 to 38 fathoms of water and sheltered from south and west winds. Although charts of sufficient detail to evaluate this anchorage are not available, there is ample roadstead anchorage.

The only indicated anchorage on the west coast is at HEDONO, where small vessels can anchor in from 10 to 14 fathoms with local knowledge. There is little roadstead anchorage due to the steep gradient and proximity of the 100 fathom curve.

No other anchorages are indicated on any other sources of information now available.

C. Beaches

LSTs can land on protected beaches on the east shore. Discharge from larger ships anchored off either shore to beach head will have to be made by landing type craft. LCTs are probably the best type for this employment. Extensive deep water dock development is not contemplated, though it may be possible to develop unloading facilities of the existing pier on the northern coast of SANMURA WAN by dredging, and install an additional pontoon pier to the eastward, for AK unloadings.

c. Roads and Transportation Facilities

Land Transportation

There are no existing railroads on TOKUNO. For the location of existing roads see Supplement 2 to this Annex.

In recent months the Japanese have improved the road net considerably. It is believed that with proper maintenance and improvement the existing roads will support combat operations of the size contemplated.

There is a perimeter road entirely circling the island. Many portions of this road are of necessity filled with sharp curves and steep grades. Widths vary from 12 to 18 feet. Generally the road may be classified as a one-lane road having frequent passing locations, and suitable for light two-way traffic. There is a cross-island road from KETOKU to HEDONO with a branch to ASAMA. This is a relatively good road about 16 feet wide and fairly well graded for about half its length. Across the southern part of the island from OROSHIGUCHI to ITOKINA there is a partially developed road which is probably just a trail, particularly in the center section, but which may support jeep traffic.

The improvement of existing roads and construction of new roads will require extensive bridge and culvert construction for the many ravines crossing all lines of communication. Existing bridges are probably too narrow and weak to carry our military loads, particularly heavy construction equipment which must be moved to the airfield sites.

The following table summarizes road lengths and widths for all roads of military importance:

FROM	TO	DISTANCE-MILES	AVERAGE WIDTH-FEET
PERIMETER ROAD:			
IPPOMATSU	YONAMA	1.87	16
YONAMA	KANEMI	5.11	12
KANEMI	SAN (pier)	1.87	15
SAN (Pier)	KETOKU	3.74	14
KETOKU	SHIMOKUSHI	3.52	15 - 18
SHIMOKUSHI	INOKAWA	2.05	15 (approx)
INOKAWA	KAMETSU	4.20	14
KAMETSU	OROSHIGUCHI	2.27	15
OROSHIGUCHI	OMONAWA	3.74	18
OMONAWA	AGON	4.88	17 - 18
AGON	ITOKINA	1.48	12
ITOKINA	SETAKI	4.03	West Road - 15

FROM	TO	DISTANCE-MILES	AVERAGE WIDTH-FEET
SETAKI	KANEKU	1.25	15
KANEKU	HEDONO	1.47	14 - 15
HEDONO	OKASEN	2.56	18
OKASEN	IPPONMATSU	1.13	13
	Perimeter road total	45.17 Miles	
CROSS ISLAND			
HEDONO	KETOKU	4.2	16

d. Beach Capacities

The following estimates of the daily capacity in measured tons are based on simultaneous unloadings at all beaches.

It is estimated that the total initial average discharge capabilities are 2600 M/T per day, with adverse weather effect considered, increasing to around 3000 M/T per day by G / 30 and to 3500 M/T per day by G / 60.

(1) SAN (SANMURA WAN)

Landing beach free from extensive coral, about 600 yards long. Landing craft can beach at this point where the 5 fathom curve is about 900 yards from shore. Two streams flow into the head of the harbor and as a result the beach is constantly changing. There is a 300 foot pier located on the north side of the inlet with approximately 4½ fathoms alongside. Road nets to points southward as far as KAMETSU and west across the island are good. There is ample roadstead anchorage. The estimated daily discharge rate, beach and pier is 800 M/T. Dredging and improvement of capacity of the pier appear possible.

(2) KETOKU

There is little chart coverage for this area but the H. O. Miscellaneous Charts and photo coverage show a beach about 1000 yards long, where the 3 fathom curve is 350 yards offshore. The main road of the island lies 700 yards inland from the beach. About eight ships could anchor offshore. The estimated daily discharge rate is 800 M/T.

(3) Other Beaches

There are several small beaches located at BOMA, KAMETOKU and KAMETSU on the east coast, and HEDONO on the west coast that could be

utilized for landings. A conservative estimate of their daily discharge rate is 1000 M/T. KAMETOKU and KAMETSU appear capable of improvement.

e. Water

An abundant supply of water is available in all parts of the island. There are numerous perennial streams for combat supply. Ground water may be obtained readily from shallow dug wells and drive points in valley bottoms. Wells near the coast should be pumped intermittently to avoid drawing salt water. Springs probably are numerous in deep valleys. Purification units should be taken in by occupying forces. No distillation units appear necessary.

f. Climatology

(1) General

TOKUNO located in AMAMI GUNTO has a subtropical maritime climate. Winds are of monsoonal character being northerly in the cool season and easterly and southeasterly during the warm period. Northerly winds bring modified cold polar continetal air from MANCHURIA and summer maritime air masses of tropical character. Cloudiness is high during the year with maximum in the cool season and minimum in late August. Sea conditions are poor during the northerly winds and good from April to September.

(2) Temperature

The annual mean temperature ranges from a low of 57° F. in January to a maximum of 83° F. in July. The coolest temperature ever recorded in this area is 38° F. in February and the highest 96° F. in July. The greatest transition takes place in April and October.

(3) Winds

Surface winds prevail from northerly directions from October through March averaging 8 knots. In April winds veer to NE becoming easterly in May and SE during the warm season. During September winds back to northeast. Velocities from April to September average 6 knots. Days with velocities over 20 knots occur 3 days a month from October to April, are rare during the period April to July and average 2 each in August and September.

The strongest winds are nearly always from northerly directions, and the highest velocity recorded in a 32 year period in this area is 58 knots from the north during October. Velocities over the sea are 5 to 7 knots stronger.

Winds at the 10,000 ft. level are westerly except during June - August when they become southwesterly. Velocities average 25 knots during the cool period and 10 knots during the warm months.

(4) Precipitation

Rainfall is moderate to heavy throughout the year with a total of 116 inches. The heavy rain falls from May through October with more than 8 inches a month. During June the heaviest amounts occur with 17 inches. The lightest monthly amount is 6 inches in December. All months have 16 or more days with rain reaching a maximum of 24 days in January and a minimum of 16 in November. The other months have approximately 20 days of rain. Rain during the cool season is in the form of showers and squalls associated with frontal activity. During the warm season the Intertropical front approaches from the south and brings the heavy rains. During the transitional periods many extratropical low pressures traverse the area causing extended periods of rain and poor weather conditions.

(5) Cloudiness

Mean cloud amount is seven-tenths except in August and September when it lowers to six-tenths. Overcast days number 18 or more each month from December - June and decrease to 12 June - September. Clear days occur once a month.

(6) Visibility

Fog is rare in this area, occurs once a month April to June and is almost never observed during the balance of the year. Haze occurs once or twice a month except rarely in October and November. Visibility is restricted to below 3 miles 10 days a month and this is usually due to rain.

(7) Typhoons

The typhoon season begins in May and ends by early November. The number expected to pass within 300 miles of this island are as follows:

1 each June, July and October

3 in August

2 in September

This island lies near the average track most of the year never being farther than 500 miles to the west of the track. From June - August the average path moves west of the island. In practically all cases the storms approach from the south or southeast.

(8) Flying Conditions

Flying weather is poor throughout the year with closed conditions during heavy rain and with many occurances of low clouds and squally weather. There are 11 days of average or above flying weather during the period December - June and 13 - 16 days during the balance of the year. The average icing level is above 8,000 feet all year and rises to above 15,000 feet during the warm season.

(9) Sea and Swell

Seas are rough during the period of northerly winds and improved during the weaker southerly and easterly winds. During the period December - March waves of over 8 feet are attained 9 days a month and less than 3 feet on 9 days. From April - September seas are less than 3 feet 11 to 18 days a month with best conditions in July and over 8 feet 1 to 3 days a month. Most of the higher waves are from the quadrant NW - NE moving toward the SE - SW. During the few occasions when typhoons pass near the island, very rough seas are generated.

g. Existing Airfields

There is one existing airfield located on the northwest coast just above ASAMA (See Airfield No. 1, Supplement 2). This airfield consists of a single 4350' x 180' runway bearing approximately NS, surfaced with coral, and centered in a 5,250' x 1,000' cleared area. Taxiways are coral-surfaced and total 20,500' in length as follows:

Location	Lineal Feet	Width (Feet)	No. of Hardstands
West side of field	3500	60	8 (revetted)
East side of field	5000	60	20 (revetted)

Location	Lineal Feet	Width (Feet)	No. of Hardstands
Northeast side of field	4500	30	15
North of field	7500	30	31

For information on possible airfield sites see paragraph 3 a.

h. Natural Resources and Industry

No industries or natural resources of importance to our forces exist on the island. Main industry is agriculture and chief crops are sweet potatoes, sugar cane, rice, and other grains. There are heavy stands of timber, and small amounts of lumber may be available. Two small copper mines are located on the island.

i. Health and Sanitation

(1) General

There is very little direct information as to health conditions on the target. Due to the climate, water supply, type of sewage disposal and number and type of civilian population on the island, it should be assumed that health conditions will be poor. Mosquitoes are numerous throughout the year. There is a low standard of public health and medical facilities on this island. Living conditions are inferior to those in JAPAN. Night soil is used as fertilizer. Rats and disease-bearing insects are common.

(2) Diseases

The following dieseases will be of military importance:

Malaria

Enteric diseases (diarrheas, dysentery, and parasites)

Scrub typhus

Dengue

Filariasis

Venereal Diseases

Skin diseases

The following diseases are of potential importance:

Cholera

Plague

Relapsing fever

Schistosomiasis

Typhus

Tuleremia

i. Communication Survey

(1) Radio

(a) Adcock type direction finding installation is located 1 3/4 miles NE of TOKUNO Airfield.

(b) A radio station with three stick masts is located at KAMETSU on the SE coast.

(2) Wire

(a) Telephone and telegraph lines are reported to connect the principal towns.

(3) Submarine Cable

(a) Submarine cable is reported to connect this island with the principal other islands of the AMAMI GUNTO.

3. CONTEMPLATED DEVELOPMENT

a. Airfields (See Map, Supplement 2)

(1) General

TOKUNO affords limited possibilities for airfield development. The existing airfield is the only site which can be developed quickly. The entire island has only four other locations which can be considered as possible sites and every one of them is limited in length and will require considerable earth moving of a difficult nature. Based on present available information two of the new sites are believed to be feasible.

(2) Airfield No. 1

This is the existing field at ASAMA. The existing 4300' runway can be extended to 5500' for VF operation. Directly north of the existing field is a small stream which can be diverted around the end of the extended runway. There is ample space around the airfield area for

construction of taxiways and hardstands to support 1 VMF group and 1 VMF (N) squadron. 9000 feet from the north end of the proposed runway is an 815 foot mountain which forms an obstruction in the take-off zone. This is not considered hazardous to fighter operation since a slight turn to the west will clear the obstruction. An AvGas tank farm for this field can be located northwest of HEDONO, 3000 feet from the airstrip and 4500 feet from the proposed tanker mooring at HEDONO-KO.

(3) Airfield No. 2

Existing aerial photographs of this site are of no value due to heavy cloud cover. The site, based on AMS maps at 1:50,000 scale, is located on the east coast near TOKUWASE at an elevation of 165 feet. It is estimated that a 5500' runway bearing approximately N/S can be constructed here and that taxiways and hardstands can be constructed to support 1 VMF group. An AvGas tank farm can be constructed adjacent to the airfield and approximately 1 mile from the proposed tanker mooring at BUNRI-SHO.

(4) Alternate Site (A) for Airfield #2

Located on the southeast coast at KINEN-SAKI this airfield may be a modified alternate site for Airfield #2. Construction of an airfield at this site will be difficult due to the limited level area for runway and taxiway construction. There is not sufficient area for construction of taxiways and hardstands to support 1 VMF group with standard dispersal. Accepting reduced dispersal, this site may serve as an alternate for Airfield #2. The possible runway is oriented NE-SW into the prevailing wind. An AvGas tank farm, serviced by an alternate tanker mooring off OMONAWA, can be located northwest of the airfield.

(5) Alternate Site (B) for Airfield #2

Located on the southwest coast, this site may be an alternate for Airfield #2. It appears possible to build a 5500' crosswind runway with a NW-SE bearing. The airfield site is crossed by several ravines 10' - 25' deep and 100' - 150' wide. There is sufficient area in the vicinity of the airfield for construction of taxiways and hardstands for 1 VMF group. An AvGas tank farm for this field could be supplied by the alternate tanker mooring off OMONAWA.

(6) Airfield No. 3

This site, near the town of SETAKI on the west central coast is proposed as a location for a 6000 foot runway for 1 VMB group and 1 VMTB squadron. The runway will bear approximately N/S. Preliminary examination of aerial photographs indicates the necessity of a considerable amount of grading due to numerous depressions which occur along the otherwise gently sloping plateau. There is ample area near this runway for the construction of taxiways and hardstands to support the aircraft listed above. An AvGas tank farm can be constructed near the airfield and can be supplied from the proposed tanker mooring at HEDONO-KO 2½ miles to the north. There is a possibility that 5500 feet with no clear zone may be the maximum obtainable length for this site. If this is confirmed by further study it will be necessary to use this field for fighters only and to locate the VMB group at another field.

[redacted]

(7) Construction Troops, Materials and Time Estimates*

PROJECT	CONST. TROOPS		CONST. DAYS TO OPER'L. COMPLETION	CONST. DAYS TO FINAL COMPLETION	CONSTRUCTION EQUIPT. M/T	CONSTRUCTION MATERIAL M/T
**Airfield #1 (Existing) 1 VMF Gp 1 VMF (N) Sq 1 Runway 5500' x 150'	1 NCB	1115	Activate 5 days after seizure.	110	9500	5800
**Airfield #2 (New) 1 VMF Gp 1 Runway 5500' x 150'	2 NCB	2230	45	100	19000	5200
**Airfield #3 (New) 1 VMB Gp 1 VMTB Sq 1 Runway 6000' x 150'	2 NCB	2230	50	120	19000	7900
GroPac and PT Base	1 NCB 1 CBMU	1115 277		180	9000 1400	20000
Roads and Maintenance	1 NCB	1115			7000	10000
Special Equipment (Rock Crushers)		____			____	2000
Totals -		8082			64900	50900

* All time estimates based on troops and equipment at site.
** See Supplement 2 for locations.

b. Naval Facilities

Naval facilities to be installed will include a GROPAC, a PT Boat operating base, and Boat Pools sufficient to support the garrison units. No support of fleet units will be required from TOKUNO, and all ships based in this area will be supported from forces afloat, except for the supply of potable water to small ships not equipped with distillation facilities, and for emergency hospitalization.

Facilities ashore will be provided for a PT Operating Base, including tank farm or storage facilities for aviation gasoline, and will be sufficient to support one squadron (12 PTs). This squadron will initially be tender based.

Ships and boats present will include:

Shore Based	Supported from forces afloat	
10 LCT	9 DD	6 YMS
20 LCM	6 DE	2 PCS(H)
10 LCVP	6 PC(NC)	1 AGP
4 YMT	6 SC (NC)	1 ARL
12 PT	4 LST	2 AN
	18 LCI(L)	

c. Waterfront and Harbor Facilities

(1) SAMEURA WAN

Available information indicates that this inlet is the only harbor at which facilities for quayside unloading of cargo of ships may be developed. There is an existing pier 300 feet on the face, but charted depths indicate not more than 4½ fathoms at the point. If practicable, this area should be dredged so that AK's can be unloaded at the pier. If dredging is found impracticable this pier may be used as a fueling pier for the discharge of MoGas and diesel fuel, subsequent to the construction of additional piers for AKs, fronting on deep water nearby.

Three sets of bow and stern moorings should be provided (DD type). If piers are provided, these can be used for offshore mooring lines. Offshore anchorage for large ships is available in the roadstead

which extends between this inlet and KETOKU WAN.

Proposed Naval Harbor Defense installations are shown in Supplements 1 and 2.

(2) KETOKU WAN

This area may be developed as an unloading area, primarily for such cargo as may be landed across the wide beach. No complete hydrographic information is available on this particular part of the coast, and therefore the possibility of augmenting beach unloading by the construction of piers must be determined at a later date, when depths of water have been ascertained by survey.

Offshore anchorage for large ships is available in the roadstead which extends between this inlet and SAMURA WAN.

Naval Harbor defense installations are consolidated with SAMURA WAN in supplements 1 and 2.

(3) KAMETOKU

Charted information shows a deep water inlet at this point which is approximately 175 yards wide. This point can be developed as a PT operating base, with the necessary pontoon piers for these craft. Provision should be made at this point for the discharge of aviation gasoline, both for the PTs and the adjacent proposed airfield and a set of bow and stern moorings (DD type) for the PT tender should also be provided.

Charts of this area show "proposed breakwaters". It is not known whether these have been constructed, as aerial photographic coverage in this area was obscured by clouds. Should these be in existence, they might well be utilized in providing slips for PTs and small craft. The northern breakwater, if in existence, should be utilized as an approach to a fuel pier capable of handling small tankers with a draft of 20 feet. This pier could also be used to fuel small ships and PTs. Should no breakwater be existent, a causeway could be constructed to serve this purpose.

No fixed naval harbor defense installations are considered necessary in this area.

d. Roads

It is expected road development will consist mainly of improvement of existing roads. This improvement will consist of widening to 20 feet for two-lane traffic, installation of turnouts where widening is not possible, minor relocation to improve grades and curves, and the addition of suitable gravel or rock from local quarries and borrow pits and extensive strengthening or rebuilding of about 20 bridges. Roads so developed should include two cross-island road and roads from the harbor to the airfields.

e. Camp Facilities and Staging Areas

It is not contemplated that troops will be staged at this base. Camps will be provided for garrison only and will conform to "Housing Policy for ICEBERG Operation" (Cincpac-Cincpoa serial 000953, 2 November 1944). Hospitalization will be provided based on beds for 4% of the garrison force plus 1% of the Local Naval Defense Force. Hospitalization for civil population will be provided on the same basis as for Phase I (1%). It is estimated that the civil population will be approximately 40,900.

f. Major Storage Facilities

There will be general storage for Class I, III, III-A, V and V-A. Class II and IV storage will be handled by the individual services.

AvGas tank farms of 20,000 barrels each will be established for each field. Due to the rugged terrain of the island it is not likely that cross-island lines will be practicable.

Tanker moorings with suitable shore-side tanks will be installed on both sides of the island (See Supplement 2).

MoGas and diesel oil tank farms will be installed for general island supply on the basis of 18 gallons per capita for MoGas and 9 gallons per capita for diesel oil.

Quick Class III storage will be installed as follows:

(1) At or near the site of the existing air strip or an assault beach - four 1000 barrel tanks for AvGas by G / 10.

(2) At SAMURA or the site selected for the major port and base installations - four 1000 barrel tanks for MoGas and two 1000 barrel tanks

for diesel by G / 15. These tanks should be near the shore line and construction should start during the assault.

g. Communication Facilities

(1) Radio, telephone, telegraph, visual and message center facilities will be installed, maintained and operated to provide inter-island and intra-island communications in accordance with Cincpac-Cincpoa Conf. serial 11-CL-45 dated 28 January 1945.

(2) Existing submarine cable plant will, if feasible, be rehabilitated and improved with a view to using such facilities for communication to other islands held by friendly troops.

(3) Signal supply and maintenance facilities will be provided by each service for its tactical and service units.

4. TROOP AND TONNAGE REQUIREMENTS

(1) ESTIMATED TONNAGE LIFT PER MAN

	Total Lift	Original Equipment Initial Maintenance and Construction Material	
		Initial Lift	Later Echelon
Tactical Troops - withdrawn	3 MT	3 MT	0
Tactical Troops - Remaining as part of Garrison	5 MT	3 MT	2 MT
Garrison Troops - loaded with assault forces	10 MT	3 MT	7 MT
Other Garrison Troops	10 MT	5 MT (Min)	5 MT

(2) LOADING CAPACITIES WITHOUT STOWAGE

AP's - 1500 Personnel and 2000 M/T
AK's - 6000 M/T for vessels scheduled to arrive during 1st month
9000 M/T for remainder

"A" ESTIMATED PERSONNEL LIFT	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	TOTAL
Tactical Troops	26000								26000
Garrison Troops	8000	8500	4500						21000
Replacements (not in population)		2000	1500						3500
TOTAL TROOPS	34000	10500	6000						
In Assault Shipping *	26000								
In Garrison Shipping	8000	10500	6000						
AP's Required	6	7	4						
"B" POPULATION ESTIMATE									
Balance Forward		34000	32000						
Total Troops from "A" (less repl.)	34000	8500	4500						47000
SUB-TOTAL	34000	42500	36500						
Withdrawals		10500	3500						14000
Estimated Population	34000	32000	33000	33000	33000	33000	33000	33000	

[redacted]T

"C" ESTIMATED DISCHARGE CAPABILITIES IN M/T	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	TOTAL
	78000	90000	105000	105000	105000	105000	105000		

"D" ESTIMATE OF TOTAL M/T OF ORIGINAL EQUIPMENT AND INITIAL MAINTENANCE			
Tactical Troops	@ 3 M/T per man	3 x 14000	- 42000
	@ 5 M/T per man	5 x 12000	- 60000
Garrison Troops	@ 10 M/T per man	10 x 21000	- 210000
		Total	312000

"E" ESTIMATE OF TONNAGE LIFT (M/T)	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	TOTAL
Maintenance . 8 M/T per man	25600	26400	26400	26400	26400	26400	26400	26400	
Build up Supply Level		13200	13200	13200	13200				52800
Military Government		450	450	450	450				1800
Tactical Troops in Assault Shipping	* 78000								)
M/T for Garrison Lift	40000	49950	64950	64950	14150				) 312000
Total	143600	90000	105000	105000	54100	26400	26400	26400	
Lifted in Assault Shipping *	78000								
Lifted in Garrison AP's	12000	14000	8000						
Lifted in AK's	53600	76000	97000	105000	54100	26400	26400	26400	
AK's Required	9	9	11	12	6	3	3	3	
AK's involved (120 day turn around)	9	18	29	41	38	32	24	15	

* Landing craft will lift assault shipping.

5. MILITARY GOVERNMENT SURVEY

a. General

Civilian requirements will be provided in the manner set forth in the Logistic Measures for Phase I, utilizing additional Military Government Teams as listed in the Troop Requirements, Phase III (e).

b. Water for Civilians

Purification apparatus will be provided to furnish about 1/2 gallon per person per day for 20,000 civilian residents.

c. Food and Housing for Civilians

The policies governing supply of food and provision of shelter and housing for civilians will follow those established for Phase I.

d. Clothing for Civilians

As indicated in Phase I, stocks of Red Cross clothing now available on WEST COAST may be used to provide clothing for civilians in accordance with directives to be issued later.

6. EVACUATION, HOSPITALIZATION, PREVENTIVE, SANITARY AND MEDICAL MEASURES

a. Casualty Estimate

Killed and missing	1000
Local hospitalization	1575
Requiring evacuation	2425
Total casualties	5000

b. Plan of Evacuation

(1) General

Evacuation from the target will be by hospital ships and suitable amphibious ships, supplemented by air evacuation when air fields are available. Casualties will be evacuated to OKINAWA and the MARIANAS, where sufficient hospital beds will be available.

(2) Surface Shipping Required

Three AHs having a capacity of 600 patients each trip will be required.

(3) Air Evacuation Facilities Required

ComGenlOthArmy will be given the responsibility for air evacuation

from TOKUNO to OKINAWA, utilizing troop carrier airplanes, personnel and facilities under his control. Evacuation by air from OKINAWA to rear areas will continue as established for Phase I.

c. Hospitalization - Military Personnel

(1) For garrison forces in the target area, hospital facilities will be provided as directed in the Base Development Plan.

(2) ComGenlOthArmy will provide 500 beds for the reception and staging of casualties from this operation.

(3) Commander Forward Area will make 1,900 beds available in the MARIANAS for casualties from this operation.

d. Medical Care of Civilians

(1) General

Minimal humanitarian medical care will be furnished for civilians. Medical facilities will be provided on the basis established in Phase I for this purpose. Civilian casualties will not be evacuated from the island.

(2) Population and Casualty Estimate

Estimated civil population is 40,900. Estimated civilian casualties are as follows:

Dead	800
Ambulatory	1600
Bed Patients	1600
Total Casualties	4000

(3) Medical Requirements

Medical components for this operation should be obtained from those designated for Military Government and already in the area, which were utilized in Phases I and II. Additional supplies and equipment will be required.

e. Preventive Measures

(1) Immunization

In addition to routine immunizations, all Military personnel will require vaccination against typhus, cholera and ~~yellow fever and plague~~.

(2) All steps for the control of malaria will be required.

(3) All current sanitary directives relative to drinking water, food handling, waste disposal and insect control must be strictly adhered to in order to prevent diseases from becoming a major military handicap.

f. Special Medical Requirements

(1) Whole blood will be supplied in suitable quantities as early as possible consistent with paramount military requirements.

7. LOGISTIC SUPPORT FOR FLEET

a. General

Harbors to be utilized in Phases I, II, III (c) and III (d) will be available during Phase III (e) for the services of fleet oilers, ammunition ships, supply ships and barges, and limited ship repair facilities. Ship repair facilities and emergency logistic replenishment will be available at LEYTE, subject to arrangement by Cincpoa with CinCSWPA. All other aspects of logistic support for the fleet for Phase I, II, III (c) and III (d) apply equally to Phase III (e).

b. Fleet Fuel

Fleet fuel consumption is estimated as follows:

L + 30 to L + 60	4,200,000 bbls.
L + 60 to L + 90	5,500,000 bbls.
L + 90 to L + 120	5,600,000 bbls.
L + 120 to L + 150	6,600,000 bbls.

In the event the British Pacific Fleet takes part in this operation fuel requirements will be increased by approximately 800,000 barrels for each of the above periods.

8. LOGISTIC SUPPORT OF LAND BASED FORCES

a. Responsibility for Supply

Forces in Phase III (e), mounted from areas other than OKINAWA, will be furnished initial supplies by commanders responsible for furnishing such supplies to forces of Phase I. Forces mounting from OKINAWA, will be furnished initial supplies by ComGenlOthArmy.

Commanders responsible for providing supplies subsequent to

initial mounting for Phase I will be similarly responsible for resupply of Phase III (e) forces.

b. Supplies to Accompany Troops

For the forces in Phase III (e) mounting from points other than OKINAWA the same levels of initial supplies as prescribed for Phase I (Page 46, paragraph 7 b., Appendix E) except for Class V will be required. These forces less service units will mount with 5 Cincpoa units of fire. Service units mounting from areas other than OKINAWA will mount with 2 Cincpoa units of fire.

Supplies to accompany forces mounting from OKINAWA will be determined and provided by ComGenl0thArmy from total quantities of supplies available to him for all phases of the ICEBERG operation.

c. Supply Levels to be Established and Maintained at the Objective

Supply levels for Phase III (e) will be as prescribed for Phase I except for Class V. A maximum level of 7 and a minimum of 5 units of fire will be maintained on the island for all garrison troops. Ammunition remaining from the assault phase will be applied against the garrison level, regardless of service custody, prior to the submission of ammunition requisitions.

ComGenl0thArmy is authorized to distribute stocks among the various islands to maintain the prescribed total and stock level.

d. Reserve Supplies

The reserve levels and supplies (except Class V) established for Phase I will continue through Phase III (e). Class V levels will be as prescribed in paragraph 8 c. above.

AvGas and related Avlube, drummed: Two ship-loads (60,000 drums, AvGas, 2000 drums Avlube) provided for in Annex D to Cincpac-Cincpoa Operation Plan 14-44 (paragraph 5 (d) 1, page 11) if not used in Phases I and II, or portions thereof not used, will be available to ComGenl0thArmy on call. They will be unloaded as early as practicable in locations prescribed by ComGenl0thArmy.

e. Method of Supply

Maintenance supplies for forces involved in this operation will

be furnished in the following manner:

(1) Until otherwise directed by ComGenlOthArmy, each regular maintenance shipment for the RYUKUS, beginning with shipment No. 22.5 scheduled to arrive at ENIWETOK on 15 June, will be loaded to the extent practicable so as to permit diversion to TOKUNO of shipments of 15 days maintenance supplies for the anticipated garrison. Supplies so loaded in shipment No. 22.5 will be based on all elements of the landing and garrison forces scheduled to be on TOKUNO on G / 35.

(2) As soon as definite committments of units and definite times for the operation have been announced, immediate action will be taken by Cincpoa to adjust the maintenance shipments to TOKUNO to provide maintenance for the entire garrison and for the build-up to prescribed stock levels.

(3) It is anticipated that it may be necessary for ComGenlOthArmy to direct some transhipments or supplementary shipments from OKINAWA during the early stages of the operation.

(4) Assault resupply ammunition will be provided in ships with the regular OKINAWA maintenance shipments in accordance with Cincpac-Cincpoa ammunition directive to be issued separately.

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SUPPLEMENT 1 TO ANNEX 8

HARBOR DEFENSE STUDY

The principal anchorage area for TOKUNO is off the eastern coast, in the roadstead between SANMURA WAN and KETOKU WAN. These two inlets are expected to be the major unloading points, with the former to be developed with piers and quays to the greatest possible degree. Offshore anchorage will be required for cargo vessels and such fleet units as may from time to time anchor in the area.

Hydrographic information is not complete for the KETOKU WAN section, and the defense plans are based on such as is available at present. When detailed soundings are made, it may be necessary to deviate considerably from the general defense layout shown on Supplement 2.

Facilities recommended are:

(a) Harbor Entrance Control Post

The Harbor Entrance Control Post will be located on SHUBAN SAKI, with receiving station for underwater detection equipment adjacent. To have visual and radio communication facilities, and medium range surface search radar as an adjunct to the detection equipment.

(b) Underwater Detection

Receiving station to be at HECP. Detection equipment to include twelve sonobuoys located in an arc from SHUBAN SAKI to MOTO SAKI, and a Herald to range in the area close aboard the northern extremity of the anchorage area. It may be found advisable to replace the sonobuoys with cable connected hydrophones, but it is suggested that this be deferred until after local survey has been made.

(c) Net Defenses

Type T-10 torpedo net baffles to enclose the anchorage area approximately as shown on Supplement 2. Due to anticipated swells and sea conditions, additional moorings and chain should be provided to convert parts of the defense to Type T-11 (ANCHITKA design) if necessary. Individual ship protection units or baffles should be provided for all isolated tanker moorings.

(d) Anti-submarine Patrol

One B2A component with three 83' patrol boats should be provided.

(e) Harbor Patrol

One B2B component with three picket boats should be provided for close patrol of the anchorage.

(f) Surface Search Radar

One B-7 component for long range surface search coverage, in addition to the medium range coverage (detection adjunct). The installation of this equipment should be correlated with the radar provided for early warning and artillery control.

NOTE—

Base Map Information taken from H.O. Misc. Charts Nos. 11,557-9 and 11,557-9, which were derived from A.M.S. L791, 1:50,000 (Emergency Reproduction), H.O. No. 5134, H.O. 543 and H.O. No. 5903, 1:36,929.

Roads as shown taken from Enclosure (A), Interocean Two Report No. 536 dated 10 April 1945.

Contours at 100 Meter intervals except for 20 Meter intervals in areas surrounding potential airfield sites.

SAKIBARU-SAKI
KANEMI-SAKI
KANEMI
5.11 Mi.
ONAMA
HECR
U/D STATION
RADIO & VISUAL
RADAR U/D AIDJUNCT
HERALD
SHUBAN-SAKI
2300 YDS.
T10 NET
EXISTING PIER
SAN
SAN-KO
SANMURA WAN
BOAT POOL
FUKUMATSU
MATSUBARA
3.74 Mi.
3400 YDS.
T10 NET
SONOBUOYS
EXISTING AIRFIELD
SITE FOR AIRFIELD NO. 1
ASAHINA
1600 YDS.
T10 NET
EXISTING PIER
KETOKU
Ten Fathom Line
TANKER MOORING WITH 1SP NET
HEDONO
HEDONO-KO
BOMA
MOTO-SAKI
SHIMOKUSHI
KANEKU
SITE FOR AIRFIELD NO. 3
SETAKI
INOKAWA
KANNON-SAKI
SITE FOR AIRFIELD NO. 2
TOKUWASE
KASUMI-SAKI
TANKER MOORING WITH 1SP NET
PT BASE (PREFERRED LOCATION FOR SPACE)
KAMETOKU
BUNRI-SHO
KAMETSU
KOSHIMA
ITOKINA
INATABU-MISAKI
ODOSHIGUCHI
SHIKAURA-KO
ALTERNATE SITE 'B' FOR AIRFIELD NO. 2
KINEN
ALTERNATE SITE 'A' FOR AIRFIELD NO. 2
OMONAWA
KINEN-SAKI
ISEN-SAKI
TANKER MOORING WITH 1SP NET (FOR ALTERNATE LOCATION OF AIRFIELD NO. 2)
One Hundred Fathom Line

NATURAL SCALE 1:36,000
ELEVATIONS IN METERS
SOUNDINGS IN FATHOMS

NAUTICAL MILES
YARDS

NAUTICAL MILES
YARDS

LEGEND

POPULATED AREAS
POTENTIAL LANDING BEACHES
DISTANCES BETWEEN POINTS AS MARKED

SEASONAL WIND ROSES

Showing Percentage Frequency of Winds at a Height 0-300 ft as Recorded at Naha Weather Station.

SPRING SUMMER AUTUMN WINTER

CINCPAC ADVANCE HEADQUARTERS
LOGISTICS DIVISION — CONSTRUCTION SECTION

TOKUNO JIMA
LAYOUT TO ACCOMPANY STAFF STUDY

SUPPLEMENT 2 TO ANNEX 8

DRAWN BY: EGP
DATE: 13 APRIL 1945
APPROVED BY:
DATE:
CLASSIFICATION
SCALE 1" = 3000'
FILE NO. AH-26

~~TOP SECRET~~

ICEBERG - PHASE III (e)

Revised 2 May 1945.

ANNEX 9 TO APPENDIX H

SUMMARY - TROOP REQUIREMENTS

UNITS	ASSAULT ARMY	ASSAULT NAVY	ASSAULT MARINE	ASSAULT TOTAL	GARRISON ARMY	GARRISON NAVY	GARRISON MARINE	GARRISON TOTAL	DECREASE	INCREASE
COMBAT										
Hq, Garrison					25		400	425		425
Inf	14032			14032	3716			3716	10316	
Avn Combat Units			794	794			5297	5297		4503
AAA	1643			1643	3484			3484		1841
Armd	2978			2978					2978	
Cml	130			130					130	
Miscl	56			56	56			56		
TOTAL COMBAT	18,839		794	19,633	7,281		5,697	12,978	13,424	6,769
SERVICE										
Avn Serv Units	95		751	846	167		1975	2142		1296
Engr	1992			1992	3	8298		8301		6309
Med	530	250		780	423	594		1017		237
Ord	398			398	315			315	83	
QM	23			23	1128			1128		1105
Sig	741	150		891	579	231		810	81	
AG & Sp Serv					53			53		53
MP	149			149	649			649		500
TC	377	274		651	815	2150		2965		2314
Naval Units						1761		1761		1761
Military Government		42		42		154		154		112
TOTAL SERVICE	4,305	716	751	5,772	4,132	13,188	1,975	19,295	164	13,687
TOTAL COMBAT & SERVICE	23,144	716	1,545	25,405	11,413	13,188	7,672	32,273	13,588	20,456

TOTAL ASSAULT - 25,405 TOTAL GARRISON - 32,273 NET INCREASE - 6,868

ICEBERG - PHASE III (e)

ANNEX 9 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
COMBAT															
HEADQUARTERS															
Hq & Hq Co, Garrison	T/A	Var.							~~1~~	~~400~~			1	400	
Military Censors	T/A	Var.							1	25					
TOTALS										~~425~~ 25				400	
INFANTRY															
Division	7	14032	1	14032											
Regiment Combat Team	(7-11) (6-25)	3716							1	3716					
TOTALS				14032						3716					
AVIATION COMBAT UNITS															
Hq MAW		357					1	357					1	357	
Hq MAG	D-116	135					1	135					4	540	
VMF Sq	D-101	287											6	1722	
VMF(N) Sq	D-108	302					1	302					1	302	
VMB Sq		489											4	1956	
VMTB Sq	D-103	420											1	420	
TOTALS								794						5297	
AA ARTILLERY															
Hq & Hq Btry AAA Gp	44-12	73							1	73					
AAA Gun Bn	44-115	631	1	631					2	1262					

ICEBERG - PHASE III (e)

ANNEX 9 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
AA ARTILLERY (Continued)															
AAA A/W Bn	44-125	787	1	787					2	1574					
AAA S/L Bn (less 1 Btry) Type C	44-135	575							1	575					
AAA S/L Btry Type C	44-138	225	1	225											
TOTALS				1643						3484					
ARMORED															
Bn, M Tank	17-25	724	1	724											
Bn, Amph Tractor	17-125	502	3	1506											
Bn, Amph Tank	17-115	748	1	748											
TOTALS				2978											
CHEMICAL															
Chem Co, Mtz	3-27	130	1	130											
MISCELLANEOUS															
Int Serv Orgn	30-600-T	11	1	11					1	11					
Order of Battle Team	30-30-T	3	1	3					1	3					
Photo Interp Team	30-30-T	7	1	7					1	7					
CIC Teams - A1, B1, A4, B4	30-500-T	32	1	32					1	32					
News Team	30-12-S	3	1	3					1	3					
TOTALS				56						56					
TOTAL COMBAT				18,839				794		~~7,681~~ 7,281				~~5,297~~ 5,697	

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
SERVICE															
AVIATION SERVICE UNITS															
Service Sq	D-115	504					1	504					3	1512	
MAD-1	-	216											1	216	
Air Warning Sq	E-691	247					1	247					1	247	
AACS Det	1-447	Var.	1	95					1	142					
ACS Det, Sig Serv Bn	11-500	Var.							1	25					
TOTALS				95				751		167				1975	
ENGINEER															
NCB Brig Hq	-	82									1	82			
NCB Regt Hq	-	67									2	134			
Hq & Hq Co, Engr Combat Gp	5-192	81	1	81											
Engr Bn, Combat	5-15	637	3	1911											
NCB (Airfield)	P-1	1115									5	5575			
NCB (Harbor & Waterfront)	P-1	1115									1	1115			
NCB (Roads)	P-1	1115									1	1115			
Engr Team, S/L Maint	5-500	3							1	3					
NCB Maint Unit (GROPAC)	P-5	277									1	277			
TOTALS				1992						3		8298			

~~TOP SECRET~~

ICEBERG - PHASE III (e)

ANNEX 9 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
MEDICAL															
Sta Hosp (250 bed) (Com Z)	8-560	186							1	186					
Coll Co	8-27	101	1	101											
Field Hosp	8-510	212	2	424					1	212					
Malaria Control Component	G-17 (Incl 2 for mil. govt.)				4	24					4	24			
Plat, Sn Co	8-117	~~55~~	~~1~~	~~55~~					~~1~~	~~55~~					
Malaria Control Unit (FA)	8-500	~~12~~	~~1~~	~~12~~					~~1~~	~~12~~					
Malaria Survey Unit (FB)	8-500	~~13~~	~~1~~	~~13~~					~~1~~	~~13~~					
Epidemiology Component	G-18 (Incl 1 for mil. govt.)				2	12					2	12			
Vet Det, Food Insp	8-500	5	1	5					1	5					
Dispensary (350 bed) (M.G.)	G-6	103			2	206					2	206			
Dispensary (600 bed)	G-2	344									1	344			
Med Sup Team #3 (BC)	8-500	20							1	20					
Dispensary (10 bed) (M.G.)	G-10	4			2	8					2	8			
TOTALS				~~610~~ 530		~~214~~ 250				~~503~~ 423		~~558~~ 594			
ORDNANCE															
Det, Ord Dep Co	9-57	50	1	50					1	50					
Det, Ord Hvy Auto Maint Co	9-197	101							1	101					
Ord Maint Co (AA)	9-217	157							1	157					
Ord M Maint Co	9-7	162	1	162											
Bomb Disp Squad Sep (FA)	9-500	7	1	7					1	7					
Ord Am Co	9-17		1	179											
TOTALS				398						315					
QUARTERMASTER															
Sec, QM Gas Sup Co	10-77	26							1	26					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
QUARTERMASTER (Continued)															
QM Trk Co	10-57	110							2	220					
QM Fumigation & Bath Co (Mob)	10-257	33							1	33					
QM Driver Augmented Team (CN)	24								2	48					
Plat, QM Rhd Plat	10-197	75							1	75					
Plat, QM Bkry Co	10-147	34							1	34					
Plat, QM Graves Reg Co	10-297	23	1	23					1	23					
Plat, QM Ldry Co (SM)	10-167	62							2	124					
Plat, QM Salv Rep Co (SM)	10-237	87							1	87					
QM Serv Co	10-67	219							2	438					
Hq & Hq Det, QM Bn	10-536	20							1	20					
TOTALS				23						1128					
SIGNAL															
Joint Assault Sig Co	11-147	445	1	445											
Sig Hvy Const Bn	11-65	456	1Co.	193					1	456					
Det, Sig Serv Co	11-500	Var.		60					1	123					
Naval Comm Unit	-	Var.										231			
Mobile Naval Comm Unit	-	Var.				150									
TOTALS				698		150				579		231			
ADJUTANT GENERAL															
Sp Serv Plat	28-17	29							1	29					

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
ADJUTANT GENERAL (Continued)															
Army Postal Unit (Type K)	12-605	24							1	24					
TOTALS										53					
MILITARY POLICE															
MP Bn (less 1 Co)	19-55	500							1	500					
MP Co	19-57	149	1	149					1	149					
TOTALS				149						649					
TRANSPORTATION															
TC Bn Hq (Type AC)	55-500	17	1	17					1	17					Based on handling 800 MT per day per Port Co or $\frac{1}{4}$ CB Spec with 50% of cargo subject to double handling
Amph Trk Co (TC)	55-37	180	2	360					2	360					
Port Co (TC)	55-117	219							2	438					
Base Cos (Navy)	-	255									2	510			
NCB (Special)	F-1	1098			$\frac{1}{4}$	274					1	1098			
Trk Oper Bn	-	1084									$\frac{1}{2}$	542			
TOTALS				377		274				815		2150			
NAVAL UNITS															
* GROPAC (Including Boat Pool)											1	1435			
Garrison Beach Party											1	89			
* PT Boat Oper Base (Including G-9 Comp.)											1	237			
TOTALS												1761			

* See Supplement 1 for details.

ICEBERG - PHASE III (e)

Revised 2 May 1945.

ANNEX 9 TO APPENDIX H

UNITS	T/O	Unit Str.	ASSAULT ARMY No.	ASSAULT ARMY Agg.	ASSAULT NAVY No.	ASSAULT NAVY Agg.	ASSAULT MARINE No.	ASSAULT MARINE Agg.	GARRISON ARMY No.	GARRISON ARMY Agg.	GARRISON NAVY No.	GARRISON NAVY Agg.	GARRISON MARINE No.	GARRISON MARINE Agg.	REMARKS
MILITARY GOVERNMENT															
A Det	-	15			1	15					1	15			
B Det	-	27			1	27					1	27			
Camp Orgn C Det	-	36									2	72			
Camp (250 men)	N1A	25									1	25			
Interpreters	-	-										15			
TOTALS						42						154			
TOTAL SERVICE			4,305		716		751		3,694		12,631		1,975		
TOTAL COMBAT & SERVICE			23,144		716		1,545		11,413		13,188		7,672		
			TOTAL ASSAULT - 25,405						TOTAL GARRISON - 32,273						

SUPPLEMENT 1 TO ANNEX 9

GROPAC

			Off.	EM	Agg.
	A-2	Administration	7	55	62
	A-6	Intelligence	2	3	5
(2)	A-7	Shore Patrol Hq	6	40	46
	B-1	Harbor Ent. Cont. Post	4	23	27
	B-2A	H.D. Anti-Sub Patrol	3	39	42
	B-2B	Harbor Patrol	1	28	29
	B-3	Underwater Detection	5	29	34
	B-4A	Port Director (Med.)	10	14	24
(3)	B-5A	Boat Pool	3	15	18
(3)	B-5B	Barge Pool	0	84	84
	B-6	Surface Radar	1	47	48
	B-8	Minesweep Comp.	1	1	2
	B-9	Fleet Moorings	-	-	-
	B-10	Navigation Aids	-	-	-
	C-10	Fleet Post Office	3	22	25
	C-18	V-Mail Comp.	0	9	9
(3)	D-10	Storage & Supply (Mod.)	9	69	78
	D-15	Cobbler & Tailor Shop	0	5	5
	D-21	Disbursing Office	2	16	18
	E-8	Repair - small boat	4	64	68
	E-10	Landing Craft - Maint. Unit	5	52	57
	E-19	Typewriter Repair	0	1	1
	G-8	Dispensary (25 bed)	2	12	14
	H-14C	MoGas Tank Farm & Diesel	0	0	0
	J-2	Base Machine Gun	1	5	6
	J-12A	Net Component	5	45	50
(7)	N-1A	Camps - 250 men - tents	0	175	175
(2)	N-2C	Camps - 100 men - Northern huts	0	28	28
	N-3C	Camps - 50 men - Northern huts	0	8	8
(6)	N-5C	Camp Bldgs. - 250 men - Northern huts	0	0	0
	N-6B	Bakery - 2000 men	0	12	12
	N-7C	Camps - 1000 men - Northern huts	-	-	81
	N-9	Base Recreation	2	10	12
(2)	N-12	Laundry - 1000 men	0	10	10
(3)	P-12A	Fire Prot. (basic)	0	3	3
(4)	P-12C	Fire Prot. (waterfront)	0	4	4
		Boat Pool personnel (Est.)	25	325	350
		TOTAL PERSONNEL			1435

PT OPERATING BASE

PT Base (less G-10) plus			231
	H-14C	AvGas Storage (Modified)	0
	P-12C	Fire Protection (waterfront)	1
	G-9	Dispensary (10 bed)	5
		TOTAL PERSONNEL	237