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Commander-in-Chief
Pacific Ocean Areas

JOINT STAFF STUDY

ICEBERG

CinCPac File

A16

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

Change added 12/8/44 16 M.T.

Serial 0001063

SECRET

UNCLASSIFIED

2 December 1944

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

To : Distribution List.

Subject: Joint Staff Study, ICEBERG Operation.

Reference: (a) Subject Staff Study, CinCPOA ser. 000131 of 25 October 1944.

Enclosures: (A) Paragraph 2 k, of Appendix E to subject study - "Military Government".
(B) Paragraph 5 d, of Appendix E to subject study - "Care of Civilians".

1. Reference (a) states that discussion of Military Government and Care of Civilians in subject operation will be issued separately at a later date.

2. Forwarded herewith as Enclosure (A) is a discussion of Military Government to be included as paragraph 2 k in subject staff study. Also forwarded as Enclosure (B) is a discussion of Care of Civilians to be included as paragraph 5 d of subject staff study.

J.H. TOWERS
Deputy CinCPac & CinCPOA

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

Serial 000131

25 October 1944.

[redacted]

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

ICEBERG

1. The attached study of ICEBERG 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.

FORREST SHERMAN,
Deputy Chief of Staff.

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Pac-12-eiw

[redacted]

ICEBERG

Table of Contents

CONCEPT

Pac-12-wmh

ICEBERG

[redacted]

CONCEPT

I. DIRECTIVE

The Joint Chiefs of Staff have directed the Commander in Chief Pacific Ocean Areas to occupy one or more positions in the NANSEI SHOTO, target date 1 March 1945.

II. ASSUMPTIONS

That the seizure of IWO JIMA is completed at a sufficiently early date to permit availability of fire support units and close air support units for the assault in the NANSEI SHOTO.

That results of our operations against the EMPIRE, FORMOSA, the RYUKYUS, and the enemy Fleet during the period preceding the target date for the NANSEI SHOTO assault indicates that we will be able to maintain continuing control of the air in the objective area.

That assault shipping and supporting naval forces are released promptly from LUZON operations.

III. PURPOSES

To establish bases from which to:

(1) Attack the main islands of JAPAN and their sea approaches with naval and air forces.

(2) Support further operations in the regions bordering on the EAST CHINA SEA.

(3) Sever Japanese sea and air communications between the EMPIRE and the mainland of ASIA, FORMOSA, MALAYA, and the NETHERLANDS EAST INDIES.

[redacted]

To establish secure sea and air communications through the EAST CHINA SEA to the coast of CHINA and the YANGTZE VALLEY.

To maintain unremitting military pressure against JAPAN.

IV. TASKS

Immediate:

Capture, occupy, defend, and develop OKINAWA Island and establish control of the sea and air in the NANSEI SHOTO area.

Eventual:

Extend control of the NANSEI SHOTO by capturing, occupying, defending and developing additional positions.

V. CONCEPT OF OPERATIONS

Carrier attacks on JAPAN and the air threat from the MARIANAS together with our seizure of IWO JIMA are expected to force a concentration of Japanese air strength in the heart of the EMPIRE. Our Expeditionary Forces will be subject to strong attacks by Japanese aviation staged through KYUSHU or the CHINA Coast and FORMOSA.

By making powerful air attacks on the EMPIRE and FORMOSA prior to the OKINAWA assault we can inflict heavy losses upon Japanese air forces and reduce the potential threat to our expeditionary forces.

The capture and occupation of the OKINAWA Islands require that our forces establish undisputed control of the

[redacted]

sea and air in the area of operations. Accordingly, the movement into the RYUKYUS will be preceded by air operations as follows:

(1) Preliminary reconnaissance of the objectives by air forces based on the Asiatic mainland and by those based in the MARIANAS.

(2) Destructive attacks on the main Japanese islands by carrier aircraft and by very long range bombers operating from CHINA and the MARIANAS.

(3) Destructive attacks on the Japanese air forces and bases in FORMOSA, AMOY, and the PESCADORES by carrier task forces and by air forces based in LUZON.

Prior to amphibious operations against OKINAWA, strong carrier attacks will be made as necessary against critical objectives in FORMOSA, the main Japanese islands, and in the RYUKYUS in order to destroy enemy forces and installations.

In advance of the operations, the sea communications of the RYUKYUS will be destroyed to the maximum extent practicable by the action of submarines and by surface and air attacks on shipping.

The approach of the attack force will be covered by further intensified attacks on enemy air bases in FORMOSA, KYUSHU and on islands of the NANSEI SHOTO.

The scheme of maneuver will be designed to gain early use of sufficient airdrome capacity in OKINAWA, together

with unloading facilities adequate to support its development, to maintain positive control of the air in the area.

Air bases will be activated rapidly to support the air garrison listed under Forces Required. The air force to be based ashore will total approximately 650 airplanes.

The port of NAHA will be developed to its maximum capacity to accommodate support shipping and to support forces for subsequent operations. NAKAGUSUKU BAY will be developed as an advanced fleet base with port facilities to provide logistic support for major fleet units and occupation forces.

Following is the general sequence of operations in NANSEI SHOTO:

Phase I Capture the southern portion of OKINAWA including small adjacent islands and develop base facilities.

Phase II Seize the remainder of OKINAWA and IE SHIMA and develop additional necessary base facilities in favorable localities.

Phase III Exploit our position in the NANSEI SHOTO seizing and developing additional positions with forces locally available.

VI FORCES

a. Ground Forces.

Tenth Army Headquarters and Army troops.

CORPS	PRINCIPAL TROOPS	MOUNTING AREAS
III Amphibious Corps	1st MarDiv	RUSSELLS

CORPS	PRINCIPAL TROOPS	MOUNTING AREAS
	2nd MarDiv	SAIPAN
	6th MarDiv	GUADALCANAL
XXIV Army Corps	7th Infantry Division	LEYTE
	96th Infantry Division	LEYTE
	77th Infantry Division	NEW CALEDONIA

In area reserve:

27th Infantry Division at ESPIRITU SANTO.

One infantry division to be designated, mounted in the South Pacific.

b. Garrison Air Forces

4 Groups Marine Fighters	288 VMF
2 Squadrons Marine Night fighters	24 VMF(N)
2 Squadrons Marine torpedo bombers	36 VMTB
2 Squadrons Navy heavy patrol bombers	24 PB(HL)
1 Squadron Navy photographic	6 VD
1 Squadron photo-reconnaissance (P-38)	12 F-5
2 Groups Army medium bombers	128 B-25
2 Groups Army heavy bombers	96 B-24
2 Squadrons Navy Medium seaplanes	24 PB(MS)

See Appendix F for detailed list of Garrison and Service Units.

c. NAVAL FORCES

(1) Assault

8 BB	24 DMS
9 OBB	36 LCI(G)
11 CV	12 LCI(M)
7 CVL	18 LCI(L)

18	CVE(combatant)	20	LCT
1	CB	6	ATF
12	CA	2	ATR
10	CL	1	AKN
4	CL(AA)	4	AN
158	DD	48	PC-PCS-SC
48	DE	24	YMS
8	AGC	1500	LVT (cargo)
12	DM	300	LVT (tank)
24	AM	800	DUKW

		Troop Capy	Cargo Capy (MT)
90	APA (AP-APH-LVS)	117,000	90,000
36	AKA (AK)	5,400	108,000
8	LSD	1,600	8,000
150	LST	30,000	75,000
60	LSM	4,500	12,000
16	APD	2,200	
		160,700	293,000

(2) For Area Reserve

To be deployed at mounting points by D-Day and to be additional to naval forces allocated for the initial assault.

1	AGC
12	PC-PCS-SC
12	DE

	Troop Capy	Cargo Capy (MT)
30 APA(AP)	39,000	30,000
12 AKA(AK)	1,800	36,000
20 LST	4,000	10,000
10 LSM	750	2,000
Totals	45,550	78,000

(3) Garrison

Base Supported

The following naval craft, to be obtained from assault forces where possible, are expected to be based at OKINAWA and will require logistic support from the base:

20 LCT	200 LCM	150 LCVP	24 PT
2 YMT	6 YO		2 YNg
2 YOG	4 YHB	2 YP	

Fleet Supported.

The following additional naval craft, to be obtained from assault forces where possible, will be required for the support and defense of the base, and will be supported from fleet sources:

18 DD	8 ATF	1 ARL	4 AM	1 ARB	
6 DE	10 LST	1 AD	4 AN	1 ARS	
18 PC-PCS	18 LCI(L)	1 AGP	1 AVR	1 AVD	
6 YMS SC	18 LCI(G)	1 ARD	1 AV	2 AVP	

d. Summary of Forces (See Appendix F for details)

	Combat	Service	Totals
ARMY	95,811	47,932	143,743
NAVY	2,468	57,281	59,749
MARINE	73,676	10,177	83,853
	171,955	115,390	287,345

Area Reserve 2 Infantry Divisions in SoPac 28,400

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ICEBERG

APPENDIX A

GROUND FORCES

1. ENEMY STRENGTH AND CAPABILITIES.

APP.

The estimated strength of the Japanese Forces in the OKINAWA Group, as of 15 October 1944 is 48,600, including:

1 Army headquarters	750
2 First line infantry divisions	35,000
1 Fortress group (Possibly an independent mixed brigade)	4,500
Naval personnel	2,100
Air Base personnel	1,500
Shipping engineer personnel	2,500
1 Tank regiment (30 L, 47 M tanks)	750
Construction personnel	1,500
Total	48,600

An additional first line division (less 1 regt) is estimated to be on MIYAKO JIMA, 150 miles SW of OKINAWA JIMA; the excepted regiment is estimated to be in the DAITO Group, 170 miles east of OKINAWA JIMA. A fourth division is estimated to be in the AMAMI O SHIMA Group, 90 miles northeast of OKINAWA JIMA. Reinforcement of the NANSEI SHOTO was initiated in July 1944, at which time the two divisions arrived at OKINAWA JIMA. By target date these divisions will have had over seven months in which to organize for defense. As a result of the capture of LUZON and IWO JIMA, the Japanese will probably exert maximum effort to complete full defensive preparations in the NANSEI SHOTO.

The civil population of 443,000, three-quarters of whom live in the southern half of OKINAWA JIMA, offers a potential source for homeguard, milita, and guerilla forces who in them-

selves constitute a serious threat of opposition.

From previous experience it is known that the Japanese will resist fanatically any invasion of the NANSEI SHOTO, and will counterattack and reinforce within the limits imposed by our superior air and naval forces.

Information as to enemy defensive installations on OKINAWA JIMA is meager, but there are indications that the southern half of the island (south of a general line from SERAKAKI to CHIMU) will contain the bulk of garrison forces, and have strongly organized defenses at the beaches and in depth. The northern half of the island is mountainous with a high central ridge bordered by tarraces. Therefore, it is assumed that, with the exception of MOTOBU Peninsula, the Japanese will defend this area lightly. IE SHIMA is fortified, and is the location of an excellent airfield. The NAHA Harbor area is reported to be defended by coast defense guns installed on the high ground south of NAHA. These guns are capable of opposing amphibious assault within their range on the east as well as on the west coast. The areas guarding the approaches to NAKAGUSUKU WAN and CHIMU WAN, including the small satellite islands off the east coast, are reported to be heavily fortified. Five airfields are situated in the southern half of OKINAWA JIMA, - two in the JINA-KATENA area, two in the NAHA area, and one on the east coast midway between KATENA and NAHA. These fields are expected to be strongly defended.

Information on landing beaches is sketchy although locations of fifteen are known on the southern half of OKINAWA JIMA; of these, ten are on the west coast, one on the southeast, and four

on the east. Further reconnaissance will probably reveal other suitable beaches. There is at least one landing beach on each satellite island off the east coast. Fringing reefs are found off all beaches.

According to available information, the most favorable coastline for landing and for advance inland is west of KATENA, north and south of the river mouth.

2. ASSAULT FORCES REQUIRED

The strength of the forces required for the seizure and occupation of OKINAWA JIMA is estimated to be an army of two corps of three reinforced divisions each in the assault, with two Army divisions in area reserve.

Units of the XXIV Corps will be mounted in LEYTE and NEW CALEDONIA. Rehearsals will take place in the mounting areas.

Units of the III Amphibious Corps, less one division, will be mounted in the GUADALCANAL - RUSSELLS area and rehearsed in the GUADALCANAL area. The 2nd Marine Division will be mounted in the MARIANAS and will be the third division of this Corps.

Two Army divisions, the 27th at ESPIRITU SANTO, and an additional division to be designated, will constitute the area reserve.

3. DEFENSE FORCES REQUIRED

OKINAWA JIMA lies within bomber range of FORMOSA, the CHINA COAST and JAPAN proper and within fighter range of other islands of the NANSEI SHOTO Group. It can be expected that enemy reaction to the occupation of this island and any other islands in the NANSEI SHOTO will be strong in air and surface vessel counterattack with a possible attempt on the part of the Japanese to retake OKINAWA JIMA. It is estimated that two infantry

divisions taken from the assault force will be required for garrison.

The principle bases requiring antiaircraft protection will be NAHA, BATEN KO, YONABARU, KUBA SAKI, ONO MISAKI, KOGUSUKU, OSUNOHANA, CHIMU, and TSUKEN JIMA. It is contemplated that eight airfields will be activated in the southern half of OKINAWA JIMA and a seaplane base on TSUKEN JIMA. In order to provide the necessary anti-aircraft artillery protection for installations on OKINAWA JIMA five Army AAA gun battalions, five Army AAA automatic weapons battalions, two Army AAA searchlight battalions and four Marine anti-aircraft battalions will be required.

Coast defenses are required for the protection of the Port of NAHA, the naval base of NAKAGUSUKU WAN and the seaplane base of TSUKEN JIMA. Three Army 155-mm gun battalions of seacoast artillery (SM) will be required.

4. SCHEME OF MANEUVER

The scheme of maneuver for operations against the NANSEI SHOTO will comprise three phases, as follows:

PHASE I. See Annex 1

The southern half of OKINAWA JIMA (that part south of a general line from SERAKAKI to CHIMU), including the satellite islands off the east coast, has been selected as the objective area for this phase. The scheme of maneuver is designed to isolate the objective area by seizing ISHIKAWI Isthmus in order to prevent enemy reinforcement from the north. Simultaneously the assault forces will seize and occupy a general east-west line from KUBA SAKI in order to prevent enemy reinforcement from the south. After capture and occupation of the northern half of the objective area, the attack is continued to capture

[redacted]

and occupy the remainder of the objective area.

PHASE II. See Annex 1.

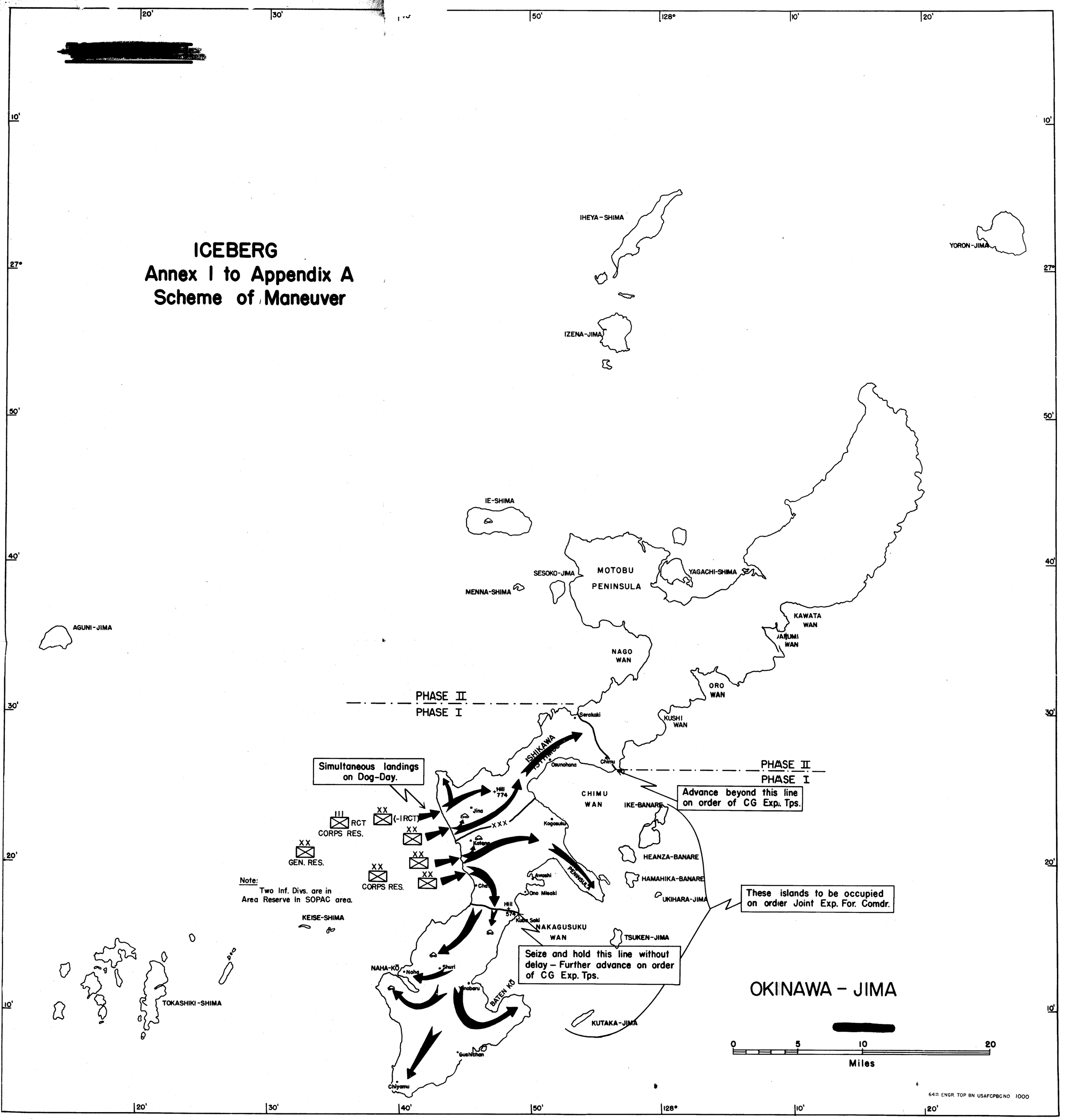
This phase comprises the capture and occupation of the remainder of OKINAWA JIMA and of IE SHIMA. It will be initiated upon completion of PHASE I on W-Day to be announced by the Commanding General Expeditionary Troops. The seizure of these objectives will be accomplished by a shore-to-shore amphibious assault on IE SHIMA, and a combined shore-to-shore amphibious and land assault against the north half of OKINAWA JIMA. Forces locally available will execute the operation. The scheme of maneuver should embrace the early capture of MOTOBU Peninsula, followed by the capture of IE SHIMA, followed by capture of the remainder of OKINAWA JIMA.

PHASE III

This phase will comprise the seizure and occupation of other positions in the NANSEI SHOTO as directed by CinCPOA.

[redacted]

ICEBERG
Annex I to Appendix A
Scheme of Maneuver



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ICEBERG

APPENDIX B

AIR FORCES

1. CONCEPT OF OPERATIONS.

Preliminary air bombardment of FORMOSA and OKINAWA will be conducted by the Far Eastern Air Force and 20th Air Force from bases in LUZON, CHINA, and the MARIANAS to the extent that execution of their primary mission permits.

Air operations in direct preparation for the assault will consist of a series of carrier based attacks on FORMOSA, the NANSEI SHOTO, and the KYUSHU - WESTERN HONSHU area, in that order, to destroy enemy air effectiveness at the objective and supporting bases. This succession of attacks will culminate in a sustained attack on KYUSHU just prior to the assault on OKINAWA.

Air opposition having been eliminated by carrier strikes, replenishment of enemy air bases will be prevented by shore based attacks on FORMOSA and the southern RYUKYUS by aircraft based in LUZON and CHINA, and by continued action of fast carrier groups on KYUSHU and the northern islands of NANSEI SHOTO.

Escort carriers will maintain control of the air at OKINAWA and provide direct air support for the assault.

Very heavy bombers from the MARIANAS will provide general support by continuing operations against targets in the EMPIRE and by heavy attacks on OKINAWA.

Tasks

The tasks to be performed by the air forces are:

(1) Search and reconnaissance.

(2) Destruction of aircraft, aircraft installations and fixed defenses.

(3) Covering strikes on the EMPIRE.

(4) Neutralization of enemy bases from which operations in the objective area may be threatened.

(5) Destruction of enemy naval forces and shipping.

(6) Close protection of our surface forces.

(7) Direct air support of landings and operations ashore.

(8) Air defense of the captured base until garrison air fields are activated.

(9) Continued neutralization of by-passed enemy bases.

(10) Photographic reconnaissance of objective areas.

2. OPERATIONS.

a. Carrier Forces.

Fast Carriers (See Annex 1 to Appendix B)

The Fast Carrier Task Force will sortie from ULITHI on D-15 and will conduct sustained strikes on the FORMOSA - MIYAKO areas on D-11 and D-10. After fueling and receiving replacements, strikes will be conducted against the OKINAWA - AMAMI O SHIMA areas on D-7, D-6 and D-5. Then after again fueling and receiving replacements strikes will be conducted against the KYUSHU - WESTERN HONSHU areas on D-3, D-2, D-1 and D Days retiring as necessary for fueling.

Thereafter the Task Groups will rotate in maintaining a covering position and in conducting supporting strikes as necessary for continuing operations.

During the strikes against OKINAWA on D-7, D-6 and D-5, bombardment by the fast battleships will be conducted.

Escort Carriers

The escort carriers will escort and provide air cover for the Expeditionary Force during its movement to the

objective and provide direct air support for the assault, occupation and development of the objective as required. Sufficient escort carriers will remain at the objective to provide air defense until garrison airfields are activated.

Transport Carriers

Transport carriers will transport to the area of operations, replacement aircraft, parts, pilots and aircrews for the CVs and CVLs and CVEs. Transport carriers will also transport designated garrison aircraft to the objective.

b. Shore Based Air Forces.

Naval Search Squadrons, POA

Maintain search of ocean areas north and west of the MARIANAS. If development of airfields on IWO JIMA will permit, extend this reconnaissance as far as practicable toward the NANSEI SHOTO and HONSHU when the Fast Carrier Task Force departs from ULITHI on D-15.

Interdict enemy search by offensive patrols from the MARIANAS and IWO JIMA ahead of the Fast Carrier Task Force.

Strategic Air Force, POA

Neutralize enemy bases in the CAROLINES and BONINS. Strike targets of opportunity.

Strike the AMAMI GUNTO and JAPAN as practicable.

Provide fighter escort for VLR attacks on the EMPIRE.

China Based Air Forces.

The 14th Air Force and 20th Bomber Command operations will be coordinated by the Commanding General, CHINA-BURMA-INDIA in conformity with Alternate PAC-AID. Specific operations desired by POA are:

Conduct repeated photographic reconnaissance of OKINAWA.

Beginning D-30 sorties allocated to the support

of POA will be directed against air installations on Northern FORMOSA.

20th Air Force (MARIANAS)

From D-30 to D-8 and D-5 to D Day all sorties which are allocated to the support of ICEBERG will be directed against OKINAWA airfield installations and fixed defenses.

Any sorties which may be scheduled for D-7 and D-6, when the fast carriers are attacking OKINAWA, should be directed against airfields in Southern KYUSHU.

Far Eastern Air Force.

Initiate attacks on enemy air bases in FORMOSA as soon as the situation in LUZON permits.

Maintain neutralization of airfields on FORMOSA and the SAKISHIMA GUNTO following the carrier attacks on these areas.

Maintain search of the SOUTH CHINA SEA, STRAIT OF FORMOSA and the sea areas east of FORMOSA.

3. COORDINATION.

In accordance with the provisions of Alternate PAC-AID, the Commanding General 14th Air Force will coordinate the operations of the 14th Air Force and of the 20th Bomber Command.

The Commanding General, Strategic Air Force, POA, will coordinate the operations of his command with the 20th Air Force in the MARIANAS.

CinCPOA will coordinate the operations of carrier aviation and all shore based air forces assigned to the Pacific Ocean Areas. He will also coordinate the activities of all air forces under his command with those assigned to other areas.

[redacted]

4. AIR BASE DEVELOPMENT.

Air bases will be developed to accommodate the following air force:

4 groups Marine fighters	288 VMF
2 squadrons Marine night fighters	24 VMF(N)
2 squadrons Marine torpedo bombers	36 VMTB
2 squadrons Navy heavy patrol bombers	24 PB(HL)
1 squadron Navy photographic	6 VD
1 squadron Photo reconnaissance (P-38)	12 F-5
2 groups Army medium bombers	128 B-25
2 groups Army heavy bombers	96 B-24
2 squadrons Medium seaplanes	24 PB(MS)

Eight airfields, four fighter and four bomber, and one seaplane base will adequately support this force.

Operationally, it is desirable that these units be installed as follows:

2 groups VMF	D ≠ 5
2 squadrons VMF(N)	D ≠ 5

Additional:

2 groups VMF	D ≠ 20 or earlier
2 squadrons VMTB	D ≠ 20 or earlier
1 group VBM	D ≠ 30
1 group VBM	D ≠ 40
2 squadrons PB(HL)	D ≠ 50
2 groups VBH	D ≠ 50
2 squadrons Photo	D ≠ 50
2 squadrons PB(MS)(tender based commencing D≠2)	D ≠ 60
2 CV groups 200 replacement aircraft	When construction troops available from other airfields.

[redacted]

Subject to adjustments imposed by engineering problems, these units could well be segregated as follows:

4 fighter fields, Marine, each to accommodate 1 VMF group. On each of two of these fields there will be additionally 1 VMF(N) squadron. Provision will also be made for 1 Marine wing headquarters. One of the VMF groups, and one VMF(N) squadron will be located in the southern portion of the island. The remainder of the fighters may be in one general area to the north.

3 Army fields, one for two groups of heavy bombers, the other two each to support one medium bomber group. One photographic reconnaissance squadron will be located on one of these fields.

1 Navy field for 2 VMTB squadrons, 2 PB(HL) squadrons, 1 photographic squadron, plus troop carrier terminal and transient facilities. 1 utility towing squadron and 1 drone squadron when NAKAGUSUKU WAN becomes available as a secure fleet anchorage.

One seaplane base for the operation of 1 squadron of PB(MS) and 1 Rescron and NATS seaplanes.

If terrain studies make a different grouping of units desirable, or permit the use of fewer fields by interlocking dispersal areas, the segregation indicated may be varied.

CINCPOA WAR PLANS

[redacted]

ICEBERG
Annex I to Appendix B
PROPOSED FAST CARRIER TASK FORCE OPERATIONS

KIRIN
HOKKAIDO
LIAONING
HOPEI
Fuchow
JAPAN SEA
KOREA
SHANTUNG
HONSHU
Tokyo
Yokohama
YELLOW SEA
KIANGSU
SHIKOKU
Nagasaki
KYUSHU
Wind 6 Kts
SHANGHAI
EAST CHINA SEA
Chung King
CHEKIANG
FUKIEN
Foochow
Kweilin
Amoy
Kilirun
FORMOSA
Takao
KWANGTUNG
Pescadores Is.
Canton
HONG KONG
HAINAN I.
LUZON STRAIT
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Okinawa Jima
Chichi Jima
Haha Jima Retto
Iwo Jima
Marcus
Asuncion
Agrihan I.
Pagan
MARIANAS
Tinian
Saipan
Rota
GUAM
Yap I.
Ngulu Is.
Palau Is.
Woleai Is.
Puluwet Is.
Truk Is.
CAROLINE ISLANDS
Ulithi Is.

STRIKES
5 Groups D-3
2 Groups D-2
3 Groups D-1
5 Groups D-Day

AFTER D-DAY
Groups rotate in providing cover and conducting strikes as necessary.

Gps. 3,4,&5 Fuel D-2
Gps. 1 & 2 Fuel D-1

VF Sweeps D-4

Gps. 1,2,3,4,5 0600 D-4

STRIKES
5 Groups D-7
2 Groups D-6
3 Groups D-5

Wind 7 Kts

Gps. 3,4,&5

Gps. 1 & 2 Mile D-5, D-4

3 Gps. Fuel D-6
2 Gps. Fuel D-5

1800 D-8
0600 D-8

VF Sweep

D-10
D-11
Wind 5 Kts.

1800 D-9
Gps. 1,2, 3,4, &5 Fuel D-9
0600 D-9

1800 D-12
TOP
OFF
0600 D-12

1800 D-13
0600 D-13
1800 D-14
0600 D-14
1800 D-15

Groups 1,2,3,4 &5 Depart ULITHI D-15.

[redacted]

ICEBERG

ANNEX 2 TO APPENDIX B

OPERATIONS OF POA SHORE BASED AIR FORCE AND SUPPORT DESIRED FROM OTHER COMMANDS

POA
20th AF
14th AF
FEAF
OBJECTIVE

KIRIN
HOKKAIDO
LIAONING
HOPEI
Fuchow
JAPAN SEA
KOREA
SHANTUNG
HONSHU
Tokyo
Yokohama
YELLOW SEA
KIANGSU
SHIKOKU
Nagasaki
KYUSHU
IWO JIMA
INTERDICTION
SHANGHAI
SEARCH AFTER D-15
STAGED AT
SEARCH
EXTENDED
1000 MILES
FIGHTER ESCORT FOR VLR
STRATEGIC MISSIONS
EAST CHINA SEA
Chung King
CHEKIANG
Okinawa Jima
SAIPAN
D-7
INTERDICTION OF ENEMY SEARCHES
Chichi Jima
Haha Jima Retto
FUKIEN
Foochow
SEARCH FROM LUZON
INTERDICTION
Kweilin
Mirun
Amoy
INTERDICT AIR BASES
KWANGTUNG
Iwo Jima
Marcus
Pescadores Is.
FORMOSA
Canton
Takao
HONG KONG
D-30 TO D-8, D-5 TO D
NEUTRALIZE AIRFIELDS
LUZON STRAIT
Asuncion
Agrihan I.
Pagan
HAINAN I.
MARIANAS
LUZON
Tinian
Saipan
Manila
Rota
GUAM
SOUTH CHINA SEA
MINDORO
SAMAR
PANAY
Saigon.
NEGROS
Ulithi Is.
Yap I.
Ngulu Is.
SULU SEA
MINDANAO
Palau Is.
Davao
Woleai Is.
Puluwat Is.
Truk Is.
BORONEO
CAROLINE ISLANDS

JICPOA D-2065

[redacted]

ICEBERG

APPENDIX C

NAVAL FORCES

1. ASSAULT SHIPPING

In order to deploy assault shipping to mount 6 divisions for the assault with 2 additional divisions in reserve, it is planned that ships be provided in the manner indicated in the following table:

[redacted]

	APA(AP-APH-LSV)	AKA(AK)	LST	LSD	LSM	AGC
Assigned 7th Fleet for LINGAYEN	70	19	120	10	30	4
Est. overhaul required after LINGAYEN	10	1	40	2	5	0
To be made available for DETACHMENT from forces employed at LINGAYEN	15	6	0	3	0	0
Remainder available for ICEBERG from LINGAYEN	45	12	80	5	25	4
To be redeployed from DETACHMENT to ICEBERG	15	6	0	3	0	2
To be employed from New Construction and from overhaul to ICEBERG	30	18	70	0	35	1
Total for ICEBERG on D-Day	90	36	150	8	60	7
Additional for ICEBERG reserve to be deployed from DETACHMENT	30	12	20	0	10	1

It is expected that following the landing at LINGAYEN and after selected ships are returned to the West Coast for overhaul, the remaining 60 troop ships (APA-AP-APH-LSV) will be organized in 4 transport squadrons.

These squadrons should adhere approximately to the following operating schedule:

[redacted]

TransRon I	Depart LINGAYEN for MARIANAS empty	Dec. 28
	Arrive MARIANAS (1800 miles)	Jan. 4
	Complete interim upkeep	Jan. 14
	Complete loading 3rd MarDiv for DETACHMENT	Jan. 20
	Arrive IWO JIMA (780 miles)	Jan. 23
	Depart IWO JIMA for MARIANAS with 3rd MarDiv	Feb. 13
	Arrive MARIANAS	Feb. 16
	Complete unloading and depart MARIANAS	Feb. 21
	Arrive SoPac available to load one division as reserve for ICEBERG	Mar. 1
TransRon II	Depart LINGAYEN for NEW GUINEA with Casuals	Jan. 6
	Arrive NEW GUINEA (2000 miles)	Jan. 13
	Complete unloading	Jan. 17
	Arrive GUADALCANAL (900 miles)	Jan. 20
	Complete interim upkeep	Feb. 7
	Complete rehearsals 6th MarDiv	Feb. 13
	Complete final loading and depart	Feb. 19
	Arrive OKINAWA (2870 miles)	Mar. 1
TransRon III	Depart LINGAYEN	Dec. 24
	Arrive NEW GUINEA (2000 miles)	Jan. 3
	Complete unloading and reloading	Jan. 10
	Arrive LINGAYEN (2nd Trip)	Jan. 17
	Depart LINGAYEN	Jan. 22
	Arrive LEYTE (950 miles)	Jan. 25
	Complete interim upkeep	Feb. 12
	Complete rehearsals 7th Div	Feb. 19
	Complete final loading and depart	Feb. 25
	Arrive OKINAWA (1000 miles)	Mar. 1
TransRon IV	Depart LINGAYEN	Dec. 24
	Arrive NEW GUINEA (2000 miles)	Jan. 3
	Complete unloading and reloading	Jan. 10
	Arrive LINGAYEN (2nd Trip)	Jan. 17
	Depart LINGAYEN	Jan. 22
	Arrive LEYTE (950 miles)	Jan. 25
	Complete interim upkeep	Feb. 12
	Complete rehearsals 96th Div.	Feb. 19
	Complete final loading and depart	Feb. 25
	Arrive OKINAWA (1000 miles)	Mar. 1

[redacted]

In addition to these transport squadrons released from LINGAYEN, two new squadrons which are to be used in DETACHMENT should adhere approximately to the following operating schedule:

TransRon V	Depart IWO JIMA with Casuals	Jan. 27
	Arrive SAIPAN	Jan. 30
	Complete interim upkeep	Feb. 11
	Complete rehearsals 2nd MarDiv	Feb. 18
	Complete final loading and depart	Feb. 24
	Arrive OKINAWA (1250 miles)	Mar. 1
TransRon VI	Depart IWO JIMA with one combat Div.	Feb. 10
	Arrive MARIANAS	Feb. 13
	Complete unloading and depart	Feb. 18
	Arrive ESPIRITU (2250 miles)	Feb. 26
	Complete interim upkeep	Mar. 8
	Available to load 27th Div as reserve for ICEBERG	

In addition to these squadrons, two newly formed squadrons from new construction will adhere approximately to the following operating schedule:

TransRon VII	Depart PEARL	Jan. 22
	Arrive GUADALCANAL (3200 miles)	Feb. 3
	Complete voyage repairs	Feb. 7
	Complete rehearsals 1st MarDiv	Feb. 13
	Complete final loading	Feb. 19
	Arrive OKINAWA (2870 miles)	Mar. 1
TransRon VIII	Depart PEARL	Jan. 18
	Arrive NEW CALEDONIA (3400 miles)	Jan. 31
	Complete voyage repairs	Feb. 3
	Complete rehearsals 77th Div.	Feb. 9
	Complete final loading	Feb. 15
	Arrive OKINAWA (3800 miles)	Mar. 1

[redacted]

2. FIRE SUPPORT GROUPS

It is desirable that the total fire support force be devided into three groups in order to:

(a) Provide fire support during rehearsals for troops mounting in LEYTE and in GUADALCANAL.

(b) Operate in relays at the objective, because the period during which fire support will be required extends over a considerable period of time.

The groups may be organized as follows:

"A"	"B"	"C"
5 OBB	2 OBB	2 OBB
		1 CB
2 CA	2 CA	1 CA
2 CL	1 CL	
9 DD	4 DD	5 DD

Groups should operate in accordance with the following approximate schedule:

Group A	Depart IWO JIMA (DETACHMENT D ∕13)	Feb. 2
	Arrive ULITHI	Feb. 5
	Complete interim upkeep rearming, etc.	Feb. 19
	Arrive OKINAWA (ICEBERG D - 6)	Feb. 23
Group B	Depart IWO JIMA (DETACHMENT D∕ 10)	Jan. 30
	Arrive LEYTE	Feb. 2
	Complete upkeep, rearming, rehearsals	Feb. 24
	Arrive OKINAWA (ICEBERG D - 1)	Feb. 28
Group C	Assemble in GUADALCANAL	Jan. 25
	Complete rehearsals etc.	Feb. 19
	Arrive OKINAWA (ICEBERG D - 1)	Feb. 28

Upon arrival at the objective Groups B and C would combine to form the relief for Group A which could then retire to LEYTE for replenishment of ammunition.

3. CLOSE AIR SUPPORT UNITS

Of the 18 CVE now temporarily allocated to the 7th Fleet,

[redacted]

it is expected that 9 will be returned for employment in DETACHMENT, after which they will be available for employment in ICEBERG. The remaining 9 will be returned to the control of Pacific Ocean Area Forces about 1 February, in time for use in ICEBERG; these are exclusive of CVE employed as oiler escorts and as ASW units; and are exclusive of transport CVEs.

These 18 CVEs should be disposed approximately as follows:

Screen for advance Fire Support Group	8 CVE
Screen for Amphibious Force mounting in LEYTE	4 CVE
Screen for Amphibious Force mounting in SoPac	4 CVE
Screen for Amphibious Force mounting in MARIANAS	2 CVE

4. MINESWEEPING GROUP

The Minesweeping Group should depart LEYTE or ULITHI in time to reach the objective with the fire support units arriving on D - 6; this group should receive adequate air support from the escort carriers which accompany them and from aircraft of the covering force.

The approach to the objective should be on a northwesterly course leaving KOBA JIMA and KUME SHIMA to the northward then circling to the north, northeast and finally southeast in order to reach a disembarkation area along the western beaches of OKINAWA. The approach courses shown on Annex 3 to Appendix C take advantage of deep unminable waters where possible, through which the fleet can proceed without the necessity of sweeping. Although there is no evidence of mines immediately westward of OKINAWA, the final approach track for a distance of about 20 miles, where depths of less than 500 fathoms are encountered, should be swept on D-6 in order to permit close approach of the fire support group. The area adjacent to selected landing

[redacted]

beaches inside the 100 fathom curve should be swept during the period between D-5 and D-1; this area contains about 15 sq. miles.

5. COVERING FORCE

Operations of the Covering Force are described in Appendix B. Battleships and cruisers are expected to be provided with HC ammunition to about 15% capacity; this should be expended against selected targets at the objective. After preliminary air strikes, the operations of the Covering Force will be governed by the activities of enemy naval and air forces, and by requirements for tactical air support at the objective.

	D-40	D-35	D-30	D-26	D-20	D-15	D-5
GUADALCANAL	11 APA 3 APH 1 LSV 5 LSD 2 AGC 50 LST 20 LSM 5 APD 6 AKA	2 OBB 1 CB 1 CA 5 DD	18 LCI(G) 6 LCI(M) 9 LCI(L) 20 LCT 3 PC-PCS-SC 6 YMS	15 APA 6 AKA 9 DD 1 AGC	4 CVE 6 DD 12 DE 6 DM		
LEYTE		29 APA 1 LSV 2 LSD 12 AKA 2 AGC 50 LST 20 LSM 6 APD		2 OBB 2 CA 1 CL 14 DD 18 LCI(G) 6 LCI(M) 9 LCI(L) 8 PC-PCS-SC 6 YMS 20 LSM		4 CVE 6 DD 6 DE 6 DM	
NOUMEA			15 APA 6 AKA 9 DD 6 DE 1 AGC 6 YMS 25 LST 10 LSM			For Troops in Area Reserve 15 APA 6 AKA 10 LST 6 PC-PCS-SC 6 DE 5 LSM	

	D-40	D-35	D-30	D-26	D-20	D-15	D-5
ULITHI				5 OBB 2 CA 2 CL 18 DD 8 CVE 6 DE	24 DMS 24 AM 6 ATF 2 ATR 1 AKN 4 AN 6 YMS 20 PC-PCS-SC		
MARIANAS			15 APA 6 AKA 9 DD 1 AGC 1 LSD 25 LST 10 LSM 5 APD			2 CVE 6 DD 6 DE	
ESPIRITU	Units of Covering Force are not included, as this Force will be previously organized and assembled. The Covering Force will contain the following: 8 BB 11 CV 7 CVL 7 CA 7 CL 4 CL(AA) 76 DD					For Troops in Area Reserve 15 APA 6 AKA 1 AGC 10 LST 6 PC-PCS-SC 6 DE 5 LSM	

CINCPAC
WAR PLANS

[redacted]

ICEBERG

ANNEX 2 APPENDIX C
TRACKS OF ASSAULT FORCES

ALL POSITIONS 1800 LCT EASTERN HEMISPHERE DATES

ASSAULT SHIPPING ALSO DISPOSED FOR AREA RESERVE TROOPS:

DIVISION	LOCATION	DATE READY TO COMMENCE LOADING
27th DIV.	ESPIRITU	D+7
1 ADDITIONAL DIV.	SOPAC	D-2

TRANSPORT GROUP
TRACTOR GROUP
2nd MARDIV

XXIV CORPS.
7th DIV.
96th DIV.
TRANSPORT & RELIEF FIRE SUPPORT GROUP
TRACTOR GROUP

ADVANCE FIRE SUPPORT GROUP
MINESWEEPING GROUP

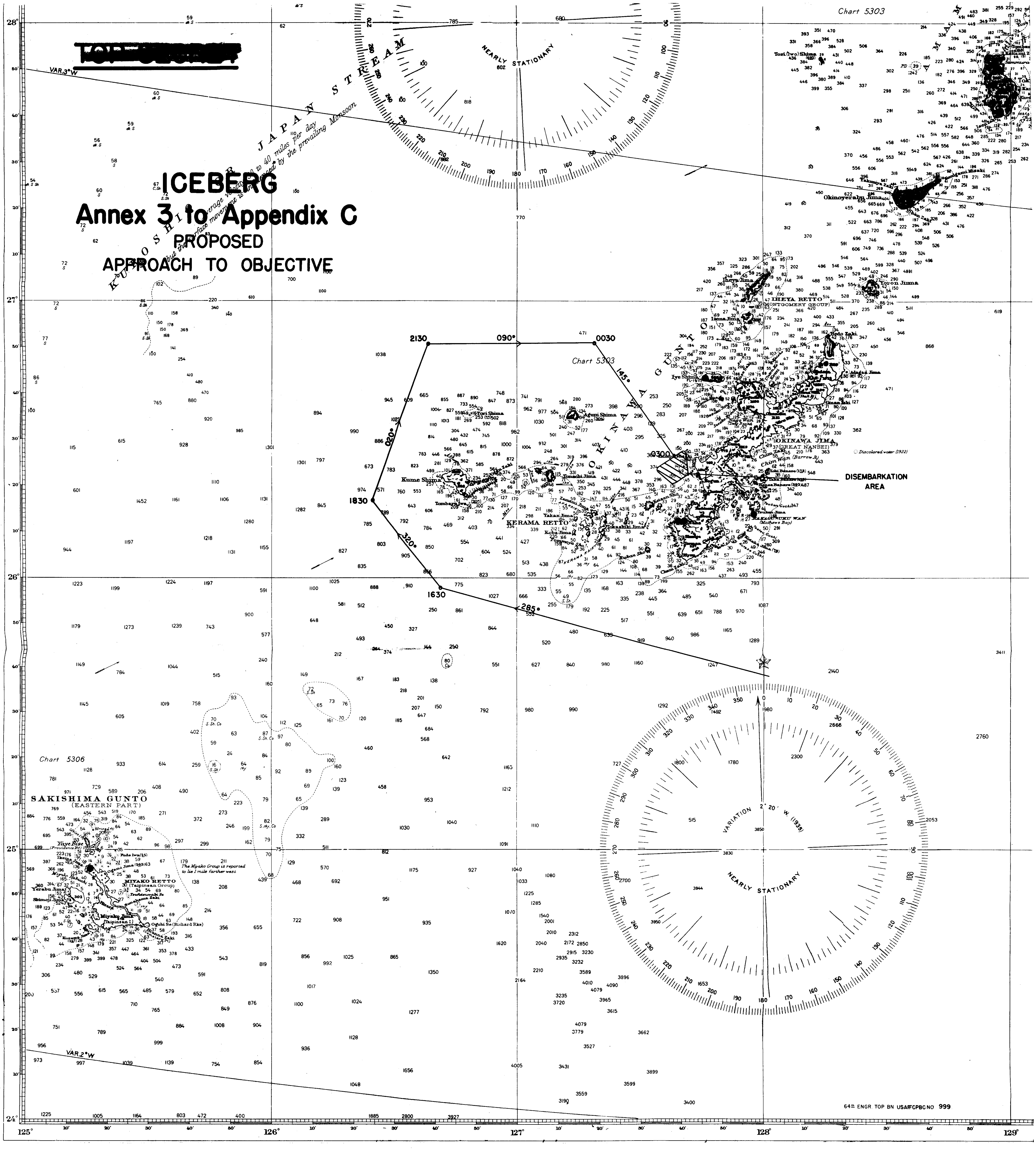
TRANSPORT & RELIEF FIRE SUPPORT GROUP D-11 D-14
TRACTOR GROUP D-15 D-19

DEPART GUADALCANAL NOUMEA

III CORPS 77 th DIV.
1st MARINE DIVISION
6th MARINE DIVISION

JICPOA D-2067

W.O.-1003



[redacted]
ICEBERG
Annex 3 to Appendix C
PROPOSED
APPROACH TO OBJECTIVE
KUROSHIO OR JAPAN STREAM
Average velocity 10 to 40 miles per day but the surface movement is influenced by the prevailing Monsoon
VAR. 3° W
NEARLY STATIONARY
Chart 5303
Chart 5306
2130
090°
0030
145°
0300
020°
1830
320°
1630
285°
DISEMBARKATION AREA
OKINAWA GUNTO
OKINAWA JIMA (GREAT NANSEI)
IHEYA RETTO (MONTGOMERY GROUP)
Iheya Jima
Izena Jima
Iye Shima
Agumi Shima
Tori Shima
Kume Shima
Tombaru Iwa
Tonachi Jima
KERAMA RETTO
Zamami Jima
Yakan Jima
Tokashiki Jima
Koba Jima
Keisan Sho
Kukan Sho
Kerama Kaikyo
Okinoyerabu Jima
Yoron Jima
Tori (Iwo) Shima
Hedo Zaki
Adadan Jima
Nago Wan
Chim Wan (Barrow B.)
NAKAGUSUKU WAN (Mathews Bay)
Tsuken Jima
Kudaka Jima
Chinen Zaki
Ginan Zaki
Discolored water (1922)
SAKISHIMA GUNTO (EASTERN PART)
MIYAKO RETTO (Taipinsan Group)
Miyako Jima (Taipinsan I.)
Yaye Bise (Providence Rf.)
Ikema Jima
Ogami Jima
Irabu Jima
Shimoji Jima
Kurima Jima
Ogubi Se (Richard Rks)
Fude Iwa
The Miyako Group is reported to lie 1 mile farther west
VARIATION 2° 20′ W. (1935)
VAR. 2° W
28°
27°
26°
25°
24°
125°
126°
127°
128°
129°
64th ENGR. TOP BN USAFFCPBC NO 999

Pac-124-jh

[redacted]

ICEBERG

Appendix D

Submarine Operations

1. DISCUSSION.

Commencing about February 1, it is expected that shore based aircraft operating from NORTHERN LUZON will effectively close the LUZON STRAIT to enemy shipping; will reduce the flow of shipping to and from the SOUTH CHINA SEA to a fraction of its present volume; and will constrict the area used by this shipping to a relatively narrow belt close to the CHINA coast. Unless cargo is transhipped by land carriers through CHINA, all ships carrying even this reduced cargo must pass through the FORMOSA STRAIT.

Inability to use this shipping from the southern area coupled with an increased demand for imports from North CHINA, will tend to increase greatly the volume of shipping from JAPAN to KOREA, SHANGHAI and other North CHINA ports.

The danger of being bottled up in the SOUTH CHINA SEA Area will probably induce the Japanese to move all important naval combatant units to the EMPIRE either before or immediately after our operation against LUZON. Thus the requirement for our submarines in the southern area should be greatly reduced.

2. TASKS.

The augmented submarine force in the Northern Area should be disposed to perform the following tasks:

(a) Provide life-guard service in the vicinity of OKINAWA from D-30 to D-7; and in designated EMPIRE areas from D-20 to D/20; and in designated areas around FORMOSA and SAKISHIMA GUNTO from D-20 to D/15.

(b) Provide strong submarine patrols south of OKINAWA JIMA and north of AMAMI O SHIMA in order to intercept and destroy enemy forces attempting to threaten our operation or attempting to retire from the area.

(c) Maintain patrols in areas around commercial terminals in the EMPIRE; in the area north of FORMOSA STRAIT; and across the shipping lanes from the EMPIRE to North CHINA ports; in order to inflict maximum attrition on enemy shipping.

(d) Be prepared to concentrate as required to provide strategic or tactical support of the 5th Fleet.

3. RESTRICTIONS.

Operating zones and bombing and attack restrictions will be prescribed in the Current CinCPOA Operating Procedure, with addenda and zone notices as required.

[redacted]

ICEBERG

APPENDIX E

LOGISTIC MEASURES

Appendix E is based upon the logistical requirements for Phase I only.

[redacted]

APPENDIX E

LOGISTIC MEASURES

1. OPERATIONAL REQUIREMENTS

The concept of operations requires:

a. Early establishment of facilities for fleet anchorage with logistic support at NAKAGUSUKU BAY; and eventual development of an advanced fleet base.

b. Rapid construction of airdrome facilities sufficient to support the air program.

c. Expansion of the port of NAHA to support assault and garrison forces, planned developments in the area, and to mount forces for subsequent operations.

d. Installation of service elements to accomplish tasks of development.

2. FACTS AFFECTING LOGISTICS

a. Approximate Distances From OKINAWA To:

	Nautical Miles	Approx. Sailing time (10 knots) Days
SAN FRANCISCO	6246	26.
PEARL HARBOR	4155	17.3
ENIWETOK	2145	9.
GUAM	1200	5.
ULITHI	1200	5.
PALAU	1200	5.
GUADALCANAL	2860	11.
MANILA	1000	4.
DAVAO	1360	5.7
CANTON	865	3.6
AMOY	535	2.2
FORMOSA (TAKAO)	555	2.3
SHANGHAI	450	1.9
SASEBO	440	1.8
SHIMONOSEKI	485	2.
OSAKA	635	2.6
TOKYO	840	3.5
VLADIVOSTOK	1055	4.4

b. Geography

OKINAWA JIMA, the largest island in the NANSEI SHOTO, lies between 26° 03' and 26° 52' N latitude and between 127° 41' and 128° 20' E longitude, commanding the sea approaches to the China Coast. The island was a key point in the communication between JAPAN and the islands under Japanese Mandate. It is a long narrow island (67 miles long and 3 to 10 miles wide), made up of plateaus and ridges with many bays offering sheltered anchorage. NAKAGUSUKU, the foremost of these, has long been used as a fleet base by the Japanese Navy. The island has a total population of 443,000 mostly concentrated in the southern half. NAHA, the largest city on the island, (66,000) is the capital of the island group.

c. Climate

The climate of the OKINAWA Area is controlled by the monsoonal circulation between the Asiatic Continent and the North Pacific Ocean. From October through March winds blow in a clockwise direction out of the region of high pressure in SIBERIA, and the resulting air flow over these islands is from the north and northeast. During April and May there is a gradual reversal in the direction of air flow, and from June through August the winds over the islands are predominatly south and southeast, a part of the clockwise circulation around the center of high pressure in the North Pacific Ocean. During the transitional months of April, May and September, the direction of air flow usually alternates several times between northeast and south. Fog and dust rarely occur on these islands. The climate is sub-tropical to tropical with mean variation only 17° to 20°. Average daily maximum temperature in summer 85° - 88° with mean daily minimum of 72° - 79°. Air temperature in winter averages between 55° and 65°. Annual precipitation is heavy and by months is somewhat erratic. Frequently a day's downpour will equal the whole monthly average. In general summer months have the greatest precipitation. Winter precipitation, however, occurs over more extended periods than in summer. Average number of days with precipitation (.004 inches or more) are shown in the following table. Figures in parentheses indicate the average inches of rainfall.

	NAHA
January	19($5\frac{1}{2}$)
February	18($4\frac{1}{2}$)

	NAHA
March	18(6)
April	16(5)
May	17(10/)
June	16(8)
July	16(7½)
August	19(7½)
September	18(7)
October	16(6½)
November	16(5½)
December	17(4½)

The following table indicates the average number of days with specified cloud cover as of 0600 L.S.T.

		NAHA
January	.7 or more	24
	.4 - .6	2
	.3 or less	5
February	.7 or more	22
	.4 - .6	2
	.3 or less	7
March	.7 or more	22
	.4 - .6	3
	. 3 or less	6
April	.7 or more	21
	.4 - .6	2
	.3 or less	7
May	.7 or more	25
	.4 - .6	3
	.3 or less	3

		NAHA
June	.7 or more	24
	.4 - .6	3
	.3 or less	3
July	.7 or more	18
	.4 - .6	5
	.3 or less	8
August	.7 or more	19
	.4 - .6	5
	.3 or less	7
September	.7 or more	19
	.4 - .6	3
	.3 or less	8
October	.7 or more	18
	.4 - .6	3
	.3 or less	10
November	.7 or more	18
	.4 - .6	4
	.3 or less	8
December	.7 or more	22
	.4 - .6	3
	.3 or less	6

d. Topography

The CHIMA WAN, a bay on the west coast of OKINAWA roughly divides the island in two parts. The northern portion is hilly with elevations up to 1500 feet. The southern half is less rugged and is better adapted for the development of a military base incorporating an anchorage, harbor improvements, flying fields, and other facilities ashore, being mostly of rolling and terraced hill land.

e. Hydrography

The most important feature of OKINAWA'S hydrography is the existence of two large bays on the eastern coast - NAKAGUSUKU BAY and CHIMU BAY. These waters are extensive in area and offer good depths for anchorage. Large areas of land level enough for base development lie close to these protected waters. The chief difficulty in constructing ship unloading facilities is the width of the coral reefs which fringe the shores.

f. Water Supply

Because of the limestone formation of SOUTHERN OKINAWA, streams and other sources of water near the surface are scarce. Most of the many shallow wells to be found are polluted. It is believed that a sufficient supply of water can be obtained by drilling deep wells in certain areas. However, initially the employment of both distillation and purification units is indicated. NAHA had in 1936 a municipal water system supplying 400,000 gallons per day. It served 23% of the population as well as the wharves. There are 3,676 wells in the city, the water from which is polluted and unpalatable.

g. Survey of Airfield Sites

While complete topographic data is not yet available it is possible to locate existing airfields and tentatively select sites for others. Fields now operative or under construction are the NAHA Field (3 runways), MACHINATO (1 runway), KATENA (1 runway), YONTAN (3 runways), and YONABARU (1 runway). Some of these have well developed dispersal areas with revetments. The small island of IE SHIMA has a field with three (3) runways and evidences of two more underway. Most of the possible sites lie in the coastal flats in the southern portion of OKINAWA but additional runways of fighter length may be feasible in the northern portion.

h. 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.

(2) Civilian Population

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. Some locally produced foods are said to be sufficient; however, rice must be imported. Nutritional deficiency diseases are present.

(3) Diseases

The following diseases 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

Yellow fever

i. Communication Survey

(1) Telephone, telegraph and cable

(a) Submarine Cable

OKINAWA has a submarine cable connection with FORMOSA and JAPAN via other islands of NANSEI SHOTO, and also with YAP. Terminals for these cables are in the vicinity of NAHA and SANAPI.

(b) Telephone and Telegraph Systems

NAHA is the center of a telephone and telegraph system connecting principal places on the island. Size and guage of the cables are unknown.

(c) All plans for communication installations should be prepared on the promise that no enemy equipment or material will be salvageable and that all necessary equipment must be supplied.

(2) Radio

Existing radio installations in OKINAWA Area are as follows:

IZENA SHIMA - one station - 45 miles North of NAHA.

OKINAWA - four stations within 3 miles of NAHA.

KUME SHIMA at GIMA - one station - 47 miles West of NAHA.

ZAMAMI or YAKABI SHIMA - one station - 17 miles West of NAHA.

AGUNI SHIMA - one station 32 miles Northeast of NAHA.

Existing lookout stations are as follows:

HEDO SAKI on Northern tip of OKINAWA.

KUME SHIMA.

CHIYAMU ZAKI on Southern tip of OKINAWA.

A power plant is located near NAHA NAIKO.

A radar tower is reported in vicinity of NAHA.

The southern portion of OKINAWA is apparently suitable for radio transmission and reception to East, South and West.

j. Public Utilities

(1) Electric Light and Power Facilities

The OKINAWA Denki Kaisha (Electric Company) supplies electricity for light and power in both NAHA and SHURI. The generators of this company are run by steam from coal-fired boilers and their capacity in 1938 was 2300 KW. It is believed that there are small generators in the larger villages and towns. No gas installations have been reported.

(2) Water System

The only extensive water piping system on the island was completed at NAHA in 1935. In 1938, it served 3,244 households with 400,000 gallons of water per day over 30 miles of pipe.

(3) Sewerage

NAHA has the only modern sewage system with $3\frac{1}{4}$ miles of pipe.

k. Military Government See Next Page —

Discussion will be issued separately at a later date.

l. Transportation

(1) Roads

The rugged terrain features of the Northern half of OKINAWA JIMA have

[redacted]

2. FACTS AFFECTING LOGISTICS.

k. Military Government.

(1) Characteristics of Inhabitants.

The population in 1940 was 442,497. This is a population density of about 1,000 per square mile compared to only 243 per square mile on SAIPAN. However, since the population is concentrated in the southern portion, the density in that portion which we expect to develop is far higher. There are two principal towns, one with a population of 65,700 and a second with 17,500. The population is more than 20 times that of GUAM while the area is only twice as great. The natives of this area are not true Japanese. The area was semi-independent with political and cultural ties with China until 1879. Since that date the Japanese have imposed their educational and political system on the natives with marked success. However, the fact that practically all governmental, educational and commercial posts are filled by Japanese from the main islands and the fact that mainland Japanese look down upon the natives has led to some degree of resentment.

These natives are the same type as those found upon SAIPAN and TINIAN as the latter emigrated from the OKINAWA area in search of better living conditions. In OKINAWA the great majority of the people are small scale farmers and fisherman. The standard of living is lower than on the main islands of Japan. Generally speaking the people are poorly educated and will be apathetic both towards our forces of occupation and towards making any effort to aid themselves under the occupation. The small element of the population from the main islands will, if possible, be repatriated by the Japanese before occupation and those who fall into our hands will be antipathetic and must be placed under detainment pending screening and probable internment.

(2) Plans for Administration.

(a) Law and Order.

No figures are available on the number of mainland Japanese we may expect to find. However, to provide for internment of these and of such elements among the natives as may be potentially dangerous, provision must be made for an internment camp capable of expansion to hold 10,000 people. During the

assault phase this camp will consist merely of a wire enclosure and emergency shelter constructed of salvaged materials.

(b) Labor

Central pools of laborers will be established under Military Government officers designated as labor supervisors. The allocation of laborers will be on a priority basis and under uniform wage scales established by the Island Commander. Payment of wages due will be centralized under Military Government finance officers and be chargeable to the allotment of funds made available to the service involved.

It is estimated that the Military Government section of the Island Commander's staff will be able to furnish upwards of 30,000 civilian laborers should any such number be required. The rate at which they could be furnished will depend on the rapidity with which civilians come through our lines and the extent to which they have been demoralized by the preliminary assault. Such labor, however, will be very largely unskilled and will require provision of interpreters and supervisory personnel.

(c) Finance.

CNO Top-Secret Serial 0210513 of 9 September advises that the JCS have approved in principle the issuance of supplementary military yen currency for use in troop pay disbursements, military government, and other official purposes. For the OKINAWA area 300,000,000 Yen of this currency will be provided initially. Other yen currency, which is legal tender in the area, will continue in circulation and will be inter-changeable at par with the Supplementary Military Yen. Transaction in any other currency will be prohibited. No exchange rate between the military yen brought in by our forces and U.S. dollars has been established to date. All supplemental military yen will be in the custody of Military Government finance officers. Allotments will be made on request to all military units for troop payments and other expenses.

(d) Industry

Sugar refining on a small scale is the only industry of even minor importance on the island. As in the case of SAIPAN it is expected the mills will be destroyed and the sugar cane fields will be required either for military installations or to produce subsistence crops for the civil population.

There are unimportant iron, coal and sulphur deposits in the North Central section, salt beds and a small quarry in the southern section. The quarry could be worked for building or road-making materials.

The principal agricultural products are sugar cane and sweet potatoes. Sugar cane is the commercial crop and sweet potatoes the major subsistence crop. Small scale stock-raising is widespread and pork constitutes a major item in the native diet. Fishing is important to the native subsistence. It is estimated that the displacement of the population necessitated by the development of military installations on the best agricultural land plus the cessation of fishing, dispersal of livestock and the demoralized condition of the population will make necessary the importation of food for the civil population and that it will be a considerable period before this can be corrected in part by importation of seed and implementation of an agricultural program.

(e) Resources Useful to Us

Aside from labor and a very limited amount of building materials no resources can be expected. An agricultural program and restoration of fishing can contribute towards the support of the civilian population.

precluded the development of even the primitive road net found in most of the Japanese Islands. The developing of a road system sufficient for our military needs would involve considerable equipment and time. Railroad facilities are not known to exist in this area.

The southern half of OKINAWA JIMA has a population upwards of 300,000 people, which would indicate an intricate road net for the area. The only road known to support two lanes of traffic is a short stretch of a few miles connecting NAHA and SHURI. This road is surfaced with stone blocks. It is doubtful if it would support American military traffic. Roads that correspond to arterial highways, appear to be only 12 feet wide and of coral surfacing. Other roads are probably like our country lanes. The use of horse-drawn 30-inch narrow guage railroads is evidence that local roads will not support ordinary traffic requirements.

Until aerial photographic coverage is available to indicate otherwise, it must be assumed that a complete rebuilding of the OKINAWA JIMA road net will be necessary. Such expedients as one-way traffic, separate routes for track-laying type of vehicles and rigid traffic control are indicated.

The study of local materials available for road construction and the nature of the terrain in the southern half of OKINAWA JIMA would indicate that excellent roads can be constructed with modern equipment. Three two-lane all-weather highways, in and out of NAHA, will be required for military purposes including the moving of cargo handled at the port. A like number of similar roads will be required for the movement of cargo, to and from discharge facilities on NAKAGUSUKU WAN.

(2) Railways

A 30-inch guage steam railroad connects NAHA with West Coast communities on the southern half of OKINAWA. It is probable that these railroads have been used for transportation of the heavier military equipment used by the Japanese in the island fortification program. A cross-island branch also connects NAHA with YONABARU on NAKAGUSUKU BAY. To what extent the horse-drawn lines running south from NAHA to ITOMAN and north along the east coast from YONABARU can be adopted to military traffic cannot be determined at this time. Lack of information on the condition of road beds and equipment, and the probability of

destruction as a defense measure makes the use of the railway questionable.

m. Harbors

(1) Capacity

Little is known of the existing cargo handling capabilities either of NAHA Port or facilities on NAKAGUSUKU BAY. It is estimated that the existing waterfront facilities at NAHA will accommodate 50,000 MT per month and with improvement of shore transportation facilities increase to 105,000 MT per month. A moderate dredging program in NAHA Port to improve the channels for shallow draft vessels (LST, LCT, LSM, etc.) should increase the port capabilities by an additional 120,000 MT per month, aggregating a maximum of 225,000 MT per month one way. Present intelligence indicates that facilities in NAKAGUSUKU BAY will have to be new construction.

(2) Facilities

Existing facilities at NAHA consists of a 835 foot cement pier and a 475 foot cement pier, with approximately 18 feet of water alongside. The configuration of the harbor entrance precludes ships larger than an LST. It should be noted that the sinking of an LST within the harbor might immobilize the waterfront facilities. Aerial photography may disclose facilities in NAKAGUSUKU BAY of which we are not now aware. Additional facilities for small craft serving the fleet will be required.

(3) Berths

Bow and stern moorings to accommodate 10 ships will be required at NAHA. Ample anchorage areas are available at NAKAGUSUKU BAY.

(4) Development

Operations in the vicinity of NAHA will be from bow and stern moorings by barge or landing craft to shore facilities. Piers or wharves for liberty ships are not practicable. Prevailing weather conditions make the use of pontoon type piers undesirable.

In the absence of intelligence to the contrary, it will have to be assumed that beach landings in NAKAGUSUKU BAY will accommodate discharge of cargo until shore facilities can be constructed. Development of 13 Liberty ship berths is desirable and should be constructed if practicable.

3. TROOP AND TONNAGE REQUIREMENTS

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

(1) Estimated tonnage lift per man

	Org. Equip. Initial Maint. and Const. Material		
	Total Lift	Initial Lift	Later Echelon
Divisional Corps & Army Tactical Troops	5 MT	2	3
All other Troops	10 MT	5	5
Subsequent Maint. Requirements	.8 MT per man per month		

(2) Loading Capacities without Stowage

AP's - 1500 personnel and 2000 MT

AK's - 9000 MT

ESTIMATED PERSONNEL LIFT

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	9th Month	TOTAL
Div., Corps, & Army Tactical Troops	159,000	43,000								202,000
Other Troops	25,000	27,000	40,000	20,000						112,000
Replacements		3,000	3,000	3,000	1,000			(Omitted from Population)		10,000
TOTAL TROOPS	184,000	73,000	43,000	23,000	1,000					324,000
Assault Shipping Lift	160,000	45,000								205,000
Flight Echelons	1,000	3,000								4,000
Garrison Shipping Lift	23,000	25,000	43,000	23,000	1,000					119,000
AP's Required	15	17	29	15	1			(@ 1500 per AP)		77
POPULATION ESTIMATE										
Balance Forward	-	184,000	254,000	294,000	274,000	224,000	174,000	162,000		-
Total Troops from above	184,000	70,000	40,000	20,000				(Less Replacements)		314,000
SUB-TOTAL	184,000	254,000	294,000	314,000	274,000	224,000	174,000	162,000	162,000	
Withdrawals	-	-	-	40,000	50,000	50,000	12,000			152,000
Estimated Population	184,000	254,000	294,000	274,000	224,000	174,000	*162,000	162,000	162,000	(* Used as Basis for supply level)
ESTIMATED DISCHARGE CAPABILITIES IN MT	277,500	375,000	437,000	500,000	500,000	500,000	500,000	500,000	500,000	

Beach capacities estimated are for garrison type of cargo and are based on very meager information. A new study will be made as soon as aerial photographic interpretations are available. Experience in the MARIANAS indicates that assault type of cargo will exceed these estimates during the assault phase.

ESTIMATE OF TOTAL MT OF ORIGINAL EQUIPMENT, INITIAL MAINTENANCE AND CONSTRUCTION MATERIAL

Div., Corps & Army Troops	@ 5 M.T. per man	202,000 x 5	equals	1,010,000
Other Troops	@ 10 M.T. per man	112,000 x 10	equals	1,120,000
			TOTAL	2,130,000

ESTIMATE OF TONNAGE LIFT IN M.T.

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	9th Month	TOTALS
Maintenance @ .8 MT/man	147,000	203,000	235,000	219,000	179,000	139,000	130,000	130,000	130,000	
Build-up Supply Level	-	27,000	36,000	67,000	130,000					260,000
Civil Affairs **	9,000	27,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	
Div., Corps & Army Troop Totals	320,000	86,000							)	) 2,130,000
Other Shipping	125,000	200,000	200,000	200,000	180,000	343,000	352,000	124,000	)	
TOTAL	601,000	543,000	489,000	504,000	507,000	500,000	500,000	272,000	148,000	
Lifted in Assault Ship	320,000	80,000								400,000
Lifted in Garrison AP	30,000	34,000	58,000	30,000	2,000			(@ 2000 MT)		154,000
Lifted in AK	251,000	429,000	431,000	474,000	505,000	500,000	500,000	272,000	148,000	
AK Required *	28	48	48	54	56	56	56	30	16	
	(* Less Assault Shipping to be reused to lift Rear Echelons of Tactical Troops)									
AK Involved (120 day turn around)	28	76	124	178	206	214	222	198	158	

** Tentative for estimation purposes only.

4. CONTEMPLATED DEVELOPMENT

PROJECT	CONSTR. TROOPS REQUIRED	M. T. ORGANIZATIONAL AND SPECIAL EQUIP'T	CONSTR. DAYS TO PLACE IN OPER. STATUS	CONSTR. DAYS FOR FINAL COMP.	M. T. CONSTR. MATERIAL
Field #1 4 VMF - 72 1 VMF (N) - 12	1 - NCB - 1115	8959	40 days (Strip ≠ 20% Taxiways & Hardstands)	180 days	17,300
Field #2 4 VMF - 72 1 VMF (N) - 12	1 - NCB - 1115	8959	20 days (Strip ≠ 95% Taxiways & Hardstands)	150 days	17,300
Field #3 4 VMF - 72	1 - NCB - 1115	8959	30 days (Strip completed)	180 days	17,300
Field #4 4 VMF - 72	1 - NCB - 1115	8959	40 days (Strip ≠ 20% Taxiways & Hardstands)	180 days	17,300
Field #5 8 VBH - 96	1 AvEngBn - 804	7140	(Activated for Fighters 3 days after seizure) 40 days (Strip ≠ 30% Taxiways & Hardstands)	180 days	25,000
Field #6 4 VBM - 64	1 AvEngBn - 804	7140	(Activated for Fighters 3 days after seizure) 20 days (Strip ≠ 80% Taxiways & Hardstands)	150 days	17,900

PROJECT	CONSTR. TROOPS REQUIRED	M. T. ORGANIZATIONAL AND SPECIAL EQUIPT	CONSTR. DAYS TO PLACE IN OPER. STATUS	CONSTR. DAYS FOR FINAL COMP.	M. T. CONSTR. MATERIAL
Field #7 4 VBM - 64 1 Photo REC - 12 1 Combat Map - 12	1 AvEngBn - 804	7140	(Activated for Fighters 5 days after seizure) 30 days (Strip & 85% Taxiways & Hardstands)	160 days	25,000
Field #8 2 PB(HL) - 24 2 VMTB - 36	1 - NCB - 1115	8959	(Activated for Fighters 5 days after seizure) 40 days (Strip, Taxiways and Hardstands Complete)	150 days	18,000
Field #9 Seaplane Base 2 PB (MS) 1 RES SQN.	1 - NCB - 1115	8959	50 days	180 days	11,600
Navy LION	7 - NCB - 7805	50981	120 days	180 days	109,000
Army Storage & Facilities	3 Engr. Con. Bn. - 2845	16200	-	-	21,600
Harbor and Waterfront Facilities	3 - NCB - 3345	27849	45 days	180 days	42,000
Road Constr.	3 - NCB - 3345	21849	-	180 days	15,000
Misc. Constr. (dumps, Depot, Hq. Hosp. Rehab. Camps, Utilities, Civil Affairs, etc.)	8 - NCB - 8920	58264	-	180 days	100,000
TOTALS	3 AvEngBn - 2412 3 EngBn - 2845 27 - NCB -30,105 35,462 Total Personnel	250317			454,300

NOTE: (1) Measurement tons of construction material for airfields and LION includes BuDocks tonnage in standard components of ACORNS and LIONS, or equivalent for Army and Marine Fields.
(2) Const. Days for operational completion are days required on the site by construction troops with their equipment.

5. EVACUATION PLAN

a. Casualties and Replacements

Estimate of Casualties

Dead and Missing	5,000
Local hospitalization	7,000
Requiring evacuation	13,000
Total Casualties	25,000

b. Surface Evacuation Facilities Required

Casualties will be evacuated by surface vessels from the target to the MARIANAS, supplemented by air evacuation as soon as suitable landing fields are available. Sufficient hospitalization will be provided in GUAM and SAIPAN to stage these patients. Evacuation from the MARIANAS to rear area hospitals in SoPac and OAHU will be by surface and air utilizing regularly established services as far as possible.

Surface shipping required. It is estimated that a total of 10 AH's will be required, to be utilized as follows: 2 AH's for Fleet Support, 2 AH's for evacuation between the MARIANAS and rear areas, 6 AH's for evacuation from target to MARIANAS. Evacuation from target will require the following:

	Patients	
6 AH	9,000	(3 round trips)
3 APH	2,100	(1 trip)
13 APA	1,900	(1 trip)
	13,000	

c. Air Evacuation

Air evacuation facilities required:

From	To	No. Patients Per Week	Provided by	Service Beginning
Target	GUAM & SAIPAN	500	ComFwdArea	As soon as suitable air fields are established on target.
SAIPAN	OAHU	200	ComGenPOA (ATC)	D + 21
GUAM	OAHU	200	ComAirPac (NATS)	D + 21
GUAM	SOPAC	200	ComGenPOA (ATC)	D + 21

d. Care of Civilians See Next Page

Instructions will be issued separately at a later date.

5. EVACUATION PLAN

d. Care of Civilians

(1) During the Assault Phase. 340,000 out of a total population of 440,000 live in the southern half of the Island. It is practically certain that they will be cut off from any possibility of escape to the northern section and that the principal city of 65,700 and the principal town of 17,500 will be largely or completely destroyed. Based on the estimated number of civilians in the area, the anticipated advance of our lines and assuming 10% killed, it is estimated that the number of civilians within our lines during progressive phases of the assault will be as follows:

D + 10	26,200
D + 20	52,680
D + 30	150,315
D + 40	306,000

Shipping restrictions will curtail issues of food and clothing and the supply of construction materials to the barest minimum consistent with sustaining life and curbing the spread of disease. Principal dependence must be put upon captured stocks of food, clothing and salvaged materials and to this end all units must be indoctrinated with the vital necessity for turning over all captured stocks and all captured transport for the use of Military Government. Provision must also be made during later phases of the assault for the salvage, transfer and temporary storage of all such material.

Food. Subsistence for assault and garrison phases will be calculated on the basis of an 1800 calorie diet which approximate 20 oz. per person per day. Requirements for the first 30 days are estimated at 2000 tons of which approximately 600 tons should be loaded in assault shipping.

Water. It is anticipated that all sources of water will be polluted and that provision must be made for the supply of potable water for civilians. Rigid enforcement of the principle of sterilization by boiling will be necessary. Water purification and distillation units will be provided on a basis of providing one quart of potable water per person per day for a total of 240,000 persons.

Shelter. Shelter provided in the assault phase will of necessity be limited to that provided for the wounded and sick.

ENCLOSURE (B)

Administration. Twelve (12) Military Government camp units staffed and equipped to administer 2500 civilians each and capable of expansion to 10,000 capacity during the garrison phase will be established. These camp units do not provide shelter other than for wounded.

Clothing. It is to be expected that large numbers of civilians will come into our lines in rags. No clothing is provided in the assault shipping. Clothes, cloth and findings for 60,000 adults and 60,000 children, approximating 225 measurement tons, should be echeloned in by D + 30. Stocks of Red Cross clothing now available on the WEST COAST should be utilized for this purpose.

(2) During the Garrison Phase.

(a) Housing and Camps.

The Military Government camp echelons installed in the Assault Phase will be expanded during the garrison phase by utilization of salvage materials. Housing and buildings, other than warehouses, which are still standing or which are capable of restoration will be utilized for billeting of civilians. Civilians will be billeted on other civilians in undamaged areas where practicable. In accordance with the policy enunciated in JCS 1074/1 of 1 November 1944 and CNO Top-Secret despatch 062252 of November, non-interned homeless civilians will be afforded the minimum shelter necessary for the avoidance of disease and unrest. Existing local resources of materials and labor will be exploited to the maximum and the importation of construction materials for civilian housing will be restricted to the amounts necessary to maintain the foregoing standard when local resources are exhausted. Interned civilians will be afforded shelter equivalent to that provided for prisoners of war.

(b) Medical and Hospital Facilities required for Civilians.

It is estimated that 10,000 beds may be necessary for the care of wounded civilians during and by the end of the assault phase. However limitations of shipping and procurement preclude the furnishing of medical facilities in that amount. In order to furnish required minimal humanitarian medical care reconciled with and adjusted to the limitation of shipping and procurement the following approximate type of medical care is outlined.

[redacted]

ASSAULT PHASE

Required Number	Unit	Off.	Men	Total	Meas. Tons	Remarks
15	G6	120	1185	1305	5400	200-bed Tent Hospitals.
25	G10	25	150	175	1250	Dispensaries for out-patient care with 10 beds each.
* 16	N2A	0	224	224	4208	100-man camp) Housing for Medical
* 4	N4A	0	12	12	592	25-man camp) Personnel
* 3	G14	0	0	0	6	Field Dental Units
1	G18	2	4	6	23	Epidemiology
TOTAL		147	1575	1722	11479	

GARRISON PHASE

2	G2	0	0	0	6272	600-bed Quonset
6	N5B	0	0	0	1566	Camp buildings to replace N2A about D plus 180
1	G4	16	172	188	1426	200-bed Quonset
1	G18	2	4	6	23	Epidemiology
TOTAL		18	176	194	9287	

* May arrive in later echelons.

6. LOGISTIC SUPPORT FOR THE FLEET

a. General

Fleet units will utilize the harbors of GUAM, SAIPAN, ULITHI and LEYTE for logistic replenishment. Replenishment will be effected by fleet oilers, ammunition ships, supply ships and Naval Supply Depots in GUAM, SAIPAN and LEYTE.

Limited ship repair facilities will be available at GUAM and in ServRon 10 located in ULITHI and MARIANAS. Limited floating repair facilities will be made available at LEYTE by ComServPac.

Floating storage, fuel, provisions and GSK supplies will be provided by ComServPac.

b. Fleet Ammunition

Surface ships supporting this operation will be loaded with full complement of ammunition. Replenishment ammunition will be provided in AE's and AKE's loaded on the WEST COAST and located at LEYTE, ULITHI, MARIANAS or as directed by Fleet Task Force Commander. A reserve of Fleet ammunition will be available at the Naval Magazine, SAIPAN, and Naval Ammunition Depot, GUAM. Details of loadings of AE's and AKE's will be furnished Fleet Task Force Commanders by CinCPOA.

c. Fleet Fuel

Prior to the sortie from ULITHI by the Fast Carrier Task Force on or about 15 February 1945, all ships, all fleet oilers, and all floating fuel storage at ULITHI will be filled to capacity. It is estimated that there will be available at ULITHI, in floating storage, approximately 600,000 barrels of fuel oil.

Fire support groups and assault forces mounting out from ULITHI, MARIANAS, LEYTE, and SoPac as well as fleet oilers and floating storage temporarily assigned to these locations will also be filled to capacity.

Consumption of fuel oil for all surface forces engaged in the operation is estimated at 6,600,000 barrels, covering a period of approximately 30 days from departure from the various mounting points.

Commercial tankers will continue to deliver their cargoes to ULITHI via ENIWETOK, using convoy system between these two bases. Diversions will be effected by CinCPOA as necessary to meet mounting and staging requirements.

Reserve fuel storage of 300,000 barrels will be available at KWAJALEIN, 450,000 barrels at GUAM, and 150,000 barrels at SAIPAN. Approximately 1,000,000 barrels will be available in SoPac forward storage, as well as 500,000 barrels at MANUS. These latter two storages will be available in emergencies only, subject to arrangement with ComSoPac and CinCSoWesPac respectively.

It is estimated that PEARL storage will be not over 5,000,000 barrels as of 1 March 1945. The distance of 3,500 miles to ULITHI involving an average turn around period of approximately 26 days for commercial tankers places this reserve out of reach, as far as sustaining the operation is concerned once it has commenced.

Total estimated fuel required in the Central and South Pacific combined for the month of March covering the period of this operation may be summarized as follows:

ICEBERG Requirements	6,600,000 bbls.
SoPac Requirements	800,000 bbls.
MARSHALL-MARIANA-LEYTE Requirements	800,000 bbls.
PEARL Requirements	800,000 bbls.
TOTAL	9,000,000 bbls.

Fleet oilers are tentatively assigned for distribution during this operation as follows:

*Immediate support basing on ULITHI (Task Force Oilers)	30
Reserve support MARSHALLS-MARIANAS	4
Local support SoPac	2
Maximum under overhaul	6
	42

*Com5thFleet will assign fleet oilers from this group as required for temporary service during the mounting phase of Amphibious Forces in SoPac and at LEYTE. In addition to the reserve oilers assigned to MARSHALLS-MARIANAS support, Com5thFleet will spot oilers in the MARIANAS as required for Amphibious Forces staging through.

d. Potable Water

In addition to the above, the following 3 AO's and 1 AOG are assigned

to potable water service:

SEVERN (AO61)

OCKLAWAHA (AO84)

PONAGANSET (AO86)

TOMBIGBEE (AOG11)

Each of the AO's carry approximately 100,000 barrels of potable water, plus the normal cargo of drummed lubricants and compressed gases of regular fleet oilers. The AOG carries 15,000 barrels of water. These vessels may be replenished at GUAM. Water supply is also available at MANUS and may be available at LEYTE, depending upon completion of water facilities at the latter base.

In the event the PASIG (AW3) and ABATAN (AW4) are completed in time they will be available for potable water service. Each of these vessels will have a distillation capacity of 120,000 gallons per day.

7. SUPPORT OF LAND BASED FORCES - GENERAL PLAN

a. Responsibility for Supply

ComGenPOA, ComGenFMFPac, ComServPac and ComAirPac will be responsible in accordance with existing policies for the initial supply of all units mounted in the Pacific Ocean Areas, and for the resupply of all personnel and organizations to be located on the captured objectives.

ComSoPac will be responsible for the provision of adequate areas and accommodations for the rehabilitation or staging of units moved to his area, and for the coordination of the logistic support of all elements of all services stationed in or mounted from his area.

b. Supplies to Accompany Troops

The following supplies, in general, will be necessary for the initial support of the operation:

Thirty (30) days of supply of all classes except ammunition.

Water in drums or in cans sufficient for 2 gal/man/day for five (5) days.

Five (5) CinCPOA units of fire for all ground force weapons except artillery and AA will mount with 7 U/F.

Aircraft munitions as follows:

Fighters - 20 Missions

Search Bombers	- 5 Missions
Strike Bombers (VBH)	- 10 Missions
Strike Bombers (VMB)	- 12 Missions

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

The following levels of supply will be necessary to furnish continuing support and to provide against losses in supplies from various causes:

Classes I, II, and IV (less construction materials)

Minimum level	- 60 days
Operating level	- 30 days

Class III (less Avn)

Minimum level	- 30 days
Operating level	- 30 days

Class III (Avn)

Minimum level	- 30 days
Operating level	- 30 days

Class V Ground Weapons

10 U/F

Class V Aircraft Munitions

Fighters	- 40 Missions
Search Bombers	- 10 Missions
Strike Bombers (VBH)	- 20 Missions
Strike Bombers (VBM)	- 24 Missions

d. Reserve Supplies

(1) SAIPAN

Class I - 30 days for 200,000 men

Class II and IV (less construction and aviation material) - 30 days supply for 4 Army Divisions (reinforced)

Class III (less Avn) - 30 days supply drummed products for force of 100,000 men.

Class III (Avn) - 1,000,000 gal. AvGas and related lubes in drums.

Class IV - 15 U/F for 1 Army Division

20 U/F for 1 155mm Gun Bn

15 U/F for 1 155mm How Bn

5 U/F for 1 Tank Bn (Army)

15 U/F for 1 AAA Bn (Army)

(2) GUAM

Class II and IV (less construction and aviation material) - 30 days supply for 2 Marine Divisions (reinforced)

30 days supply for 50,000 Navy personnel

Class III - 30 days supply drummed products for ground force of 100,000 men.

1,000,000 gal. AvGas and related lubes in drums.

Class V - 15 U/F for 1 Marine Division

20 U/F for 1 155mm Gun Bn (Marine)

15 U/F for 1 155mm How Bn (Marine)

5 U/F for 1 Marine AA Bn

(3) Service Squadron TEN

Service Squadron TEN, located at ULITHI and the MARIANAS will be stocked with the following supplies:

10 days supply in self-propelled ships of Classes I, II, III (less Avn) and IV for -

Army	-	80,000 men
Navy	-	10,000 men
Marine Corps	-	60,000 men

e. Method of Supply

The following method of supply is tentatively established.

(1) Prescribed stocks for this island will be built up to established levels within 150 days.

(2) All units will be mounted with 30 days of all classes of supplies except Class V, and with 5 U/F.

(3) Essential maintenance supplies for 30 days of all classes (except Class III Avn, and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by D + 35 will be loaded on the WEST COAST and sailed approximately D - 40 to arrive at ULITHI on D - 5. This shipment will be held at ULITHI for forward movement on call of Commander Expeditionary Troops. This shipment will constitute the first re-supply shipment and should include one

ship fully loaded with drummed AvGas (30,000 drums) and matching lubes.

(4) The second re-supply shipment should be scheduled to arrive at ULITHI by D / 5 for movement forward on call of Commander Expeditionary Troops. This shipment should contain 20 days supply of all Classes (except Class III Avn and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by D / 35. One ship fully loaded with drummed AvGas (30,000 drums) and matching lubes, will be included in the second re-supply shipment.

(5) Subsequent shipment of maintenance supplies of all Classes (except Class III Avn and Class V) for the support of the garrison forces will be loaded and despatched from the WEST COAST to arrive at ULITHI at 10 day intervals beginning with D / 15. These shipments will consist of approximately 15 days maintenance supplies until the prescribed levels are reached. Thereafter, only sufficient supplies will be included to maintain those levels.

(6) ComServPac will arrange for barges and IX tankers loaded as below. These tankers and barges will be available at ULITHI as indicated to be forwarded to objective on call of Commander Expeditionary Troops. If not called for they will be forwarded to objective as indicated.

No. & Type	Capacity	Cargo	Ready Date at ULITHI	ETA Objective
1 - AOG	12,000 bbl.	AvGas	D	D / 20
1 - AOG	12,000 bbl.	Av Gas	D / 10	D / 30
2 - AOG	12,000 bbl.	6000 MoGas 6000 Diesel	D / 15	D / 25
1 - IX Tanker	70,000	AvGas & Lubes 40,000 MoGas	D / 20	D / 35
1 - IX Tanker	70,000	24,000 Diesel	D / 20	D / 35

(7) Initially all fuel will be supplied in drums. Tank farms or other bulk storage will be provided as soon as practicable.

(8) Ammunition for re-supply of the landing forces will be loaded and despatched to ULITHI for shipment forward on call of Commander Expeditionary Troops. Shipments will be loaded and made as follows:

Five (5) LST's with Artillery ammunition to arrive ULITHI by D - 10.

Three (3) AK's each with 8 CinCPOA U/F for 2/3 of 1 Army reinforced division and 1/3 of 1 Marine division reinforced to arrive ULITHI by D - 5.

Three (3) AK's similarly loaded to arrive ULITHI by D + 5.

Three (3) AK's similarly loaded to arrive ULITHI by D + 15.

Three (3) AK's similarly loaded to arrive ULITHI by D + 25.

Three (3) AK's similarly loaded to arrive ULITHI by D + 35.

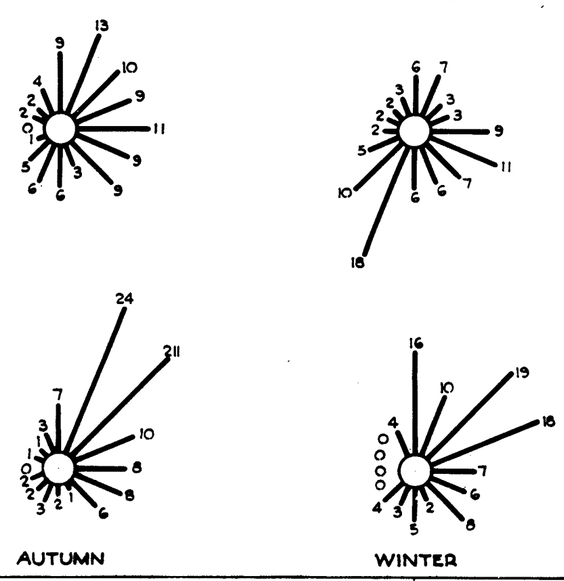
(9) ComFwdAreaCentPac will be prepared to make emergency shipments by air of rations, ammunition and medical supplies.

SEASONAL WIND ROSES.

SHOWING PERCENTAGE FREQUENCY OF WINDS AT A HEIGHT OF 0-3400 FT. AS RECORDED AT NAHA WEATHER STATION.

SCALE OF WIND PERCENTAGES

0 10 20 30 40 50 60 70 80 90 100



NOTE:
Ie Shima reported to have three hardsurfaced runways at this point as follows: NS 4500', NE/SW 4000+', and EW 4500'. Construction of 10,000' runway said to be possible.

IE SHIMA

HAMAMOTU

OKANEKU

NAGO WAN

KUSHI

UNNA

CHIMU WAN

KOGUSUKU

KUBA SAKI

NAKAGUSUKU WAN

KAWATA WAN

ARUMI WAN

ORA WAN

URA

BENOKI

ICHI HANARE

TAKA HANARE SHIMA

HEIANZA HANARE

HAMASHIMA HANARE

UKIHARU SHIMA

TSUKEN SHIMA

KUTAKA SHIMA

SHURI

NAHA

YONABARU

OMINE

ITOMAN

CHIYANU

AIRFIELD No. 6 BOMBER

AIRFIELD No. 5 BOMBER

AIRFIELD No. 1 FIGHTER

AIRFIELD No. 3 FIGHTER

AIRFIELD No. 8 BOMBER

AIRFIELD No. 2 FIGHTER

PORT OF NAHA (ARMY DEVELOPMENT)

AIRFIELD No. 7 BOMBER

AIRFIELID No. 4 FIGHTER

POSSIBLE FLEET AMMUNITION DEPOT

POSSIBLE FLEET FUEL STATION

POSSIBLE SEAPLANE BASE

MAJOR FLEET ANCHORAGE

PROPOSED NAVAL BASE LION SHIP REPAIR FACILITIES

128° 00' 128° 20' 26° 40' 26° 20' 127° 40'

GRAPHIC SCALE IN NAUTICAL MILES
0 1 2 3 4 5 6 7 8 9 10

GRAPHIC SCALE IN THOUSANDS OF YARDS
0 2 4 6 8 10 12 14 16 18 20

NATURAL SCALE 1 : 218,087
ELEVATIONS IN FEET
SOUNDINGS IN FATHOMS

GENERAL NOTES

1. Sites of Airfields No. 2, 5, 6, 7 and 8 based on incomplete data of first phase photographic interpretation report on sortie of 29 Sept., 1944.
2. Base map taken from H.O. Chart No. 2338.

OKINAWA

POSSIBLE LOCATION OF AIRFIELDS AND OTHER FACILITIES

ANNEX 1 TO APPENDIX E

[redacted]

CINCPOA 48 DESIGN GROUP - 855

64th ENGR. TOP BN. USAFCPBC NO 998

16 OCTOBER, 1944

LATER : 2 CV GROUPS
200 REPLACEMENT AIRCRAFT

4 VMF	72	D+5
1 VMF (N)	24	D+5
4 VBM (B-25) ARMY	64	D+30
4 VMF	72	D+5
1 VMF (N)	24	
8 VBH (B-24) ARMY	96	D+50
4 VMF	72	D+20 OR EARLIER
4 VBM (B-25) ARMY	64	D+40
1 PHOTO REC. (P-38)	12	

TSUKEN SHIMA SEAPLANE BASE — D+60

2 PB (MS) TENDER BASED (D+2 TO D+60)	24	

4 VMF	72	D+20 OR EARLIER
2 VMTB	24	D+20
2 PB (HL)	36	D+50
1 COMBAT MAP. (B-24)	12	

· KEY ·

(1) INDICATES NUMBER OF AIRFIELD
——— FIGHTERS
——— OTHER TYPES

· OKINAWA ·

PROPOSED ASSIGNMENT OF AVIATION SQUADRONS

GRAPHIC SCALE IN STATUE MILES

1 0 1 2 3 4 5 6 7 8 9 10

NATURAL SCALE 1 : 218,078

64th ENGR. TOP. BN. USAFCPBC NO 997

ANNEX 2 TO APPENDIX "E"

15 OCTOBER 1944

APP

ICEBERG

APPENDIX F

TROOP LIST

S U M M A R Y O F P E R S O N N E L

ASSAULT FORCE

(a) Total	238,009
(b) To be used in Garrison Force	82,944
(c) To be withdrawn	155,065

GARRISON FORCES

(a) To be moved to area	77,736
(b) To be provided by Assault Force	82,944
(c) Total	160,680

THIS TENTATIVE LIST OF ASSAULT AND SUPPORTING SERVICE TROOPS IS DEEMED THE MINIMUM FOR ACCOMPLISHMENT OF PHASE I OF THIS OPERATION ONLY. THEIR AVAILABILITY HAS NOT BEEN DETERMINED.

ICEBERG

ASSAULT FORCE

	FIELD ARMY							ARMY CORPS			AMPHIBIOUS CORPS		
		Army		Navy		Marine			Army			Marine	
	T/O	No.	Strength	No.	Strength	T/O	No.	Strength	T/O	No.	Strength	T/O	No.	Strength
Headquarters, Field Army	-	1	1358		54	-	-	113						
Headquarters, Corps									100-1	1	180			
Headquarters, Company	-	1	560						100-2	1	105			
Hqs & Hqs Dets Sps Troops, Type "C"									200-35-C	1	46			
Hq and Service Bn.												F-850	1	1217
Hq & Hq Det Sp Troops, Type "D"	200-35-D	1	66											
Divisions (not reinforced)										5	71000		3	52200
									(includes 2 in area reserve)					
TOTAL			1984		54			113			71331			53417
AVIATION														
VMF- MAG						D-101	4	3468						
VMF (N) Sqdns						D-108	2	798						
VMTB						D-103	2	680						
F-5 Sqdn (Photo Recon, P-38)	1-757	1	342											
VBM Groups (B-25)	1-112 & 1-127	2	3206											
PB(MS) Sqdns				2	410									
TOTAL			3548		410			4946						
AAA UNITS														
Hq & Hq Btry AA Brig (Opn. Det.	1-022 44-10-1	1	44											
Hq & Hq Btry AA Group	44-12	3	207											
AAA Bn Gun Mobile	44-15	2	1486											
AAA Bn Gun (SM)	44-115	3	1935											

	ASSAULT FORCE											
	FIELD ARMY						ARMY CORPS			AMPHIBIOUS CORPS		
	Army			Navy		Marine		Army			Marine	
	T/O	No.	Strength	No.	Strength	T/O	No.	Strength	T/O	No.	Strength	T/O	No.	Strength
AAA S/L Bn (SM)	44-135	2	1694											
AAA Bn AW Mob	44-25	1	817											
AAA Bn AW SP	44-75	1	709											
AAA Bn AW (SM)	44-125	3	2289											
AAA Bn - Marine												E-175	4	5040
TOTAL			9181											5040

NOTE: Arrival of AAA units except those required for the assault to be integrated to conform with construction of airfields.

ARTILLERY

Hq & Hq Btry Corps Arty									6-50-1	1	112	E-149	1	117
Hq & Hq Btry FA Group	6-12	1	99						6-12	2	198			
155mm How Bn									6-335	3	1617	E-135	3	1950
155mm Gun Bn									6-357	3	1686	E-185	3	2178
Observation Bn (FA)									6-75	1	505			
8 inch or 240mm How Bn	6-359	2	1178											
TOTAL			1277								4118			4245

TANK DESTROYER

TD Bns	18-25	1	671											

TANKS

Hq & Hq Tank Group	17-22	1	101											
Tank Bns Medium	17-45	4	2916									(one medium tank Bn incl. orgn. in each Marine Division)		
LVT (Tank) Bns	17-115	3	2331			F-1020	1	869						
TOTAL			5348					869						

ASSAULT FORCE

	FIELD ARMY						ARMY CORPS			AMPHIBIOUS CORPS		
		Army		Navy		Marine		Army			Marine	
	T/O	No.	Strength	No.	Strength	T/O	No.	Strength	T/O	No.	Strength	T/O	No.	Strength
MISC. TROOPS														
Army M P Bn	19-35	2	1112											
Liaison Sqdn (Air)	1-977	1	140											
Field Depot (reinforced)												-	1	2500
Amphib Recon Bn												E-335	1	303
TOTAL			1252											2803
CHEMICAL														
Maint Det	-	1	41											
Depot Co	3-67	1	184											
Chemical Bn Motorized	3-25	1	622											
TOTAL			847											
SIGNAL														
Sig Const Bn	11-25	1	595											
Sig Repair Co	11-127	1	188											
Sig Radio Intelligence Coll	11-77	1	259											
Signal Service Bn	-	1	829											
Sig Bn (Corps)									11-5	1	790	E-530	1	793
Photo Co	11-37	1	148											
Sig Oper Bn	11-95	1	662											
JASCO	-	3	1131	6	844	-	3	1131						
Sig Serv Bn (Sonic & Deception)	-	1	574											
TOTAL			4386		844			1131			790			793
MEDICAL														
Med Bns	8-15	2	930							1	465		1	374

ICEBERG

ASSAULT FORCE

		FIELD ARMY					ARMY CORPS			AMPHIBIOUS CORPS		
		Army		Navy		Marine		Army			Marine	
	T/O	No.	Strength	No.	Strength	T/O	No.	Strength	T/O	No.	Strength	T/O	No.	Strength
Amb. Co Mtzd Sep	8-317	1	93											
Evac Hosp (400 beds)	-	4	908											
Evac Hosp (600 beds)				1	232								1	232
Med Lab	8-611	1	58											
Med Depot Co	8-661	1	178											
Malaria Survey Units									-	3	30			
Malaria Control Units									-	3	36			
Epidemiological and Malaria Team G-19				1	102									
Surgical Teams	-	10	60											
TOTAL			2227		334						540			606

FINANCE

Finance Disbursing Sections	14-500	2	54

ORDNANCE

Gp Hq & Hq Det	9-12	1	53
Bn Hq & Hq Det	9-16	8	200
Bomb Disposal Sqds	9-179	6	42
Heavy Maint Co (FA)	9-9	3	594
Heavy Maint Tk Co	9-37	2	420
Depot Co	9-57	3	558
Maint Co AA	9-217	2	326
Med Auto Maint Co	9-127	3	360
Hvy Auto Maint Co	9-327	2	422
Ammo Co	9-17	6	1116
MM Co	9-9	6	1014
Evac Co	9-187	1	185
TOTAL			5290

Ordnance units in Marine Field Depot

ICEBERG

ASSAULT FORCE

		FIELD ARMY				ARMY CORPS		AMPHIBIOUS CORPS	
		Army	Navy	Marine		Army		Marine	
	T/O	No. Strength	No. Strength	T/O	No. Strength	T/O	No. Strength	T/O	No. Strength
AVIATION SERVICE UNITS									
Service Groups (Special)	Est	2 1400							
Hq & Serv SQ (MAG)				D-115, D-116	4 2600				
AW Sqdns (M)				E-691	4 920				
AACS Det	1-447	1 110							
Base Hq & Air Base Sqdns	1-422	1 370							
Aviation Sqdns	1-999	1 253							
M P Co (Aviation)	19-217	1 104							
TOTAL		2237			3520				
ENGINEER									
Engr Hq Corps						5-100-1	1 7		
Engr Hq Army	5-100-1	1 72							
Hq & Hq Co Engr Comb Gp	5-16	2 170					1 85		
Engr Combat Bn	5-15	3 1992					12 7968		
						(3 per Corps)			
						(3 per each of 3 Divs)			
Engr Lt Pontoon Co	5-87	2 406							
Engr Treadway Bridge Co	5-627	2 288							
Engr Water Supply Co	5-67	1 141							
Engr Maint Co	5-157	1 200							
Engr Topo Bn Army	5-55	1 467							
Engr Dump Truck Co	5-88	3 342							
Engr Lt Equip Co	5-367	2 246							
Naval Const Bn	P-1 Comp							3	3348*
								(one per Mar Div (Navy))	
Mar Engr Sep Bn								E-285	2 2012
Engr Depot Co	5-47	1 218							
TOTAL		4542					8060		2012

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ICEBERG

ASSAULT FORCE

		FIELD ARMY						ARMY CORPS			AMPHIBIOUS CORPS		
		Army			Navy		Marine			Army			Marine
	T/O	No.	Strength	No.	Strength	T/O	No.	Strength	T/O	No.	Strength	T/O	No.	Strength
QUARTERMASTER														
Gas Supply Co	10-77	2	256											
Serv Bns	10-67	5	4275											
Truck Bns	10-55	3	1461									Included in		
Sterilization Cos	10-177	3	477											
Car Cos	10-87	1	135									Marine Field		
Depot Supply Cos	10-227	4	776											
Graves Reg Co	10-297	2	260									Depot		
Salvage Collection Cos	10-187	2	418											
Bakery Co	10-147	3	504											
Hq & Hq Co QM Base Depot	10-520-1	1	154											
Hq & Hq Det QM Gp	10-22	1	32											
Hq & Hq Det QM Bn	10-56	3	51											
Railhead Co	10-197	4	708											
TOTAL			9507											
TRANSPORTATION														
Port Cos	55-117	6	1380											
Base Cos				4	1000									
CB Special	F-1			1	1098									
Amphibious Truck Cos	55-37	11	2112			E-705	5	920						
LVT (C) Bn		10	4970			E-50	5	2485						
MT Bn												F-715	1	619
TOTAL			8462		2098			3405						619
ADJUTANT GENERAL														
Base P O	12-601	1	98											
Hq & Hq Det Rep Bn	20-46	1	24											

ICEBERG

ASSAULT FORCE

		FIELD ARMY					ARMY CORPS			AMPHIBIOUS CORPS		
		Army			Navy		Marine			Army			Marine		
	T/O	No.	Strength	No.	Strength	T/O	No.	Strength	T/O	No.	Strength	T/O	No.	Strength
Replacement Co	20-47	6	210											
TOTAL			332											
GARRISON BEACH PARTY				3	240									
MILITARY GOVERNMENT**														
M P Bn	19-55	1	678											
Const Bn	P-1			1 (incl. in Engr Troops)										
Misc. Personnel	-		500											
TOTAL			1178											
GRAND TOTAL			62323		7328*			13984			84839			69535

GRAND AGGREGATE TOTAL (ARMY, NAVY, MARINE) - 238,009

NOTES: * Includes 3348 Navy C.B. personnel listed in Marine Amphibious Corps Column.
** Tentative for estimation purposes only.

ICEBERG

GARRISON FORCE

		TOTAL		FROM ASSAULT FORCES						ADDITIONAL			
		All Services		Army		Navy		Marine		Army		Navy		Marine	
	T/O	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength
ISCOM AND STAFF															
Hq & Hq Bn		1	700							1	700				
NAVAL BASE COMDR															
Staff, NOB		1	250									1	250		
SHORE BASED AIRFORCE COMDR STAFF															
Hq & Hq Sqdn RS	1-800-15	1	256							1	256				
BOMBER COMMAND HEADQUARTERS		1	251							1	251				
MAW HQ		1	334											1	334
HQ & HQ CO SERVICE COMMAND		1	335							1	335				
CORPS HQ & HQ CO AND SPECIAL TROOPS	100-102 200-35-C	1	331		331										
TOTAL			2457		331						1542		250		334
DIVISIONS - Inf.		2	28400	2	28400										
AVIATION															
VMF - MAG	D-101	4	3468					4	3468						

ICEBERG

GARRISON FORCE

	T/O	TOTAL All Services No.	TOTAL All Services Strength	FROM ASSAULT FORCES Army No.	Army Strength	Navy No.	Navy Strength	Marine No.	Marine Strength	ADDITIONAL Army No.	Army Strength	Navy No.	Navy Strength	Marine No.	Marine Strength
AVIATION (Continued)															
VMF(N) Sqdns	D-108	2	798					2	798						
VMTB Sqdns	D-103	2	680					2	680						
PB(HL) Sqdns		2	410									2	410		
Photo Sq (incl Interp Sq)		1	500									1	500		
F-5 Sqdns (Photo-Recon P-38)	1-757	1	342	1	342										
VBM Groups (B-25)	1-112 & 1-127	2	3206	2	3206										
VBH Groups (B-24)	1-112 & 1-117	2	3510							2	3510				
PB(MS) Sqdns		2	410			2	410								
TOTAL			13324		3548		410		4946		3510		910		
AAA UNITS															
Hq & Hq Btry AA Brig	44-10-1	1	75	1	75										
Hq & Hq Btry AA Gp	44-12	3	207	3	207										
AAA Bn Gun Mobile	44-15	2	1486	2	1486										
AAA Bn Gun (Sm)	44-115	3	1935	3	1935										
AAA S/L Bn (Sm)	44-135	2	1694	2	1694										
AAA Bn AW Mobile	44-25	1	817	1	817										
AA Bns Marine	3-175	4	5040					4	5040						
AAA Bn AW Sp	44-75	1	709	1	709										
AAA Bn AW (Sm)	44-125	3	2289	3	2289										
TOTAL			14252		9212				5040						
ARTILLERY															
Hq & Hq Btry (FA) Gp	6-12	1	99	1	99										

ICEBERG

GARRISON FORCE

		TOTAL			FROM ASSAULT FORCES					ADDITIONAL					
		All Services			Army		Navy		Marine		Army		Navy		Marine
	T/O	No.	Strength		No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength
ARTILLERY (Continued)															
1 Hq & Hq Btry CA Gp	4-152	1	75								1	75			
155mm Gun (CA) (Sm) Bn	4-155	3	1614								3	1614 (D/45)			
155mm How Bn	6-335	3	1617		3	1617									
155mm Gun Bn	6-357	3	1686		3	1686									
Observation Bn	6-75	1	505		1	505									
TOTAL			5596			3907						1689			
MISCELLANEOUS TROOPS															
T D Bn	18-25	1	671		1	671									
Tank Bn (Medium)	17-45	1	729		1	729									
M P Bn (Army)	19-35	1	556		1	556									
TOTAL			1956			1956									
CHEMICAL WARFARE															
Depot Co	3-67	1	184		1	184									
Maint Det		1	41		1	41									
TOTAL			225			225									
SIGNAL															
Port Sig. Serv Co	11-327	1	165								1	165			
Sig Serv Organization		1	550		1	550									
Sig Const Cos Hvy	11-27	2	504								2	504			

ICEBERG

GARRISON FORCE

		TOTAL		FROM ASSAULT FORCES				ADDITIONAL			
		All Services		Army		Navy	Marine	Army		Navy	Marine
	T/O	No.	Strength	No.	Strength	No. Strength	No. Strength	No.	Strength	No. Strength	No. Strength
SIGNAL (Continued)											
Sig Constr Bn	11-25	1	456	1	456						
Sig Repair Co	11-127	1	188	1	188						
Sig Depot Co	11-167	1	188					1	188		
Sig Radio Intelligence Co	11-77	1	259	1	259						
TOTAL			2310		1453				857		
MEDICAL											
Special Hosp #3 (aug)		1	355							1	355
Special Hosp #4 (aug)		1	355							1	355
Special Hosp #6 (aug)		1	157							1	157
Special Hosp #7 (aug)		1	157							1	157
Special Hosp #8 (aug)		1	157							1	157
G-10 Dispensary		7	42							7	42
G-18 Epidemiological Unit		4	32							4	32
Optical Unit, Mobile		1	2							1	2
Fleet Hospital #106 (1000 bed)		1	130							1	130
Fleet Hospital #112 (1000 bed)		1	287							1	287
Base Hospital #4 (1000 bed)		1	328							1	328
Fleet Hospital #116 (1500 bed)		1	891							1	891
Optical Unit Base		1	2							1	2
Med. Storehouse #2		1	55							1	55
Fleet Dental Clinic		1	24							1	24
General Hospital (1000 bed)	8-550	2	1180					2	1180		
Station Hospital (500 bed)	8-560	2	702					2	702		

ICEBERG

GARRISON FORCE

		TOTAL		FROM ASSAULT FORCES						ADDITIONAL			
		All Services		Army		Navy		Marine		Army		Navy	Marine
	T/O	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No. Strength	No. Strength
MEDICAL (Continued)													
Station Hospital (250 bed)	8-560	1	192							1	192		
Station Hospital (150 bed)	8-560	2	244							2	244		
Station Hospital (100 bed)	8-560	2	160							2	160		
Sanitary Cos	8-117	3	351							3	351		
Med Maint Team Type #2		1	9							1	9		
Veterinary Det (food insp)		1	5							1	5		
Dental Prosthetic Team		1	4							1	4		
Amb Co Motorized Sep	8-317	1	93	1	93								
Med Lab	8-611	1	58	1	58								
Med Depot Co	8-661	1	178	1	178								
Malaria Survey Unit		5	65	3	39					2	26		
Malaria Control Unit		5	60	3	36					2	24		
Epidemiological & Malaria Control Component G-19	G-19	1	102			1	102						
TOTAL			6377		404		102				2897	2974	
FINANCE													
Finance & Disbursing Det		1	27	1	27								
ORDNANCE													
Ord Gp Hq & Hq Det	9-12	1	53	1	53								
Ord Bn Hq & Hq Det	9-76	3	75	3	75								
AA Maint Co	9-217	2	326	2	326								

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GARRISON FORCE

		TOTAL		FROM ASSAULT FORCES						ADDITIONAL					
		All Services		Army		Navy		Marine		Army		Navy		Marine	
	T/O	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength
ORDNANCE (Continued)															
Med Maint Co	9-9	4	676	4	676										
Ammo Cos	9-17	3	558	3	558										
Ord Auto Maint Co (Hvy)	9-327	1	211	1	211										
Hvy Maint Co. (FA)	9-9	1	198	1	198										
Ord Depot Co	9-57	2	372	2	372										
Bomb Disp Sqds	9-179	3	21	3	21										
Ord Med Auto Maint Co	9-127	2	240	2	240										
Hq Co Ord Base Gp	9-312	1	41							1	41				
Ord Base Auto Maint Bn	9-316	1	449							1	449				
Ord Base Arm Maint Bn	9-315	1	726							1	726				
Ord Tire Repair Co	9-347	1	145							1	145				
TOTAL			4091		2730						1361				
AVIATION SERVICE UNITS															
Service Groups Special		4	2800	2	1400					2	1400				
Hq & Serv Sqdns (MAG)	D-115, D-116	4	2600					4	2600						
AW Sqdns (M)	E-691	4	920					4	920						
ACORNS (less CBs)		2	1000									2	1000		
CASUs		1	420									1	420		
PATSU		1	316									1	316		
Airways Station (CT &RR)	1-447	1	152	1	110						42				
CBMU	P-5	6	1662									6	1662		
Base Hq & Adv Base Sqdns	1-422	3	370	3	370										
Aviation Sqdns	1-999	3	759	3	759										
M P Co (Aviation)	19-217	1	104	1	104										

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GARRISON FORCE

		TOTAL		FROM ASSAULT FORCES				ADDITIONAL			
		All Services		Army		Navy	Marine	Army		Navy	Marine
	T/O	No.	Strength	No.	Strength	No. Strength	No. Strength	No.	Strength	No. Strength	No. Strength
AVIATION SERVICE UNITS (Continued)											
Signal Co. (Aviation)	11-217	3	543					3	543		
Det Weather Sqdn		1	75					1	75		
TOTAL			11721		2743		3520		2060	3398	
ENGINEER											
Base Engr Hq	5-592	1	72					1	72		
Hq & Hq Co Engr Const Gp	5-72	3	255	3	255						
Engr Const Bn	5-75	3	2703					3	2703		
Engr Petroleum Dist Co	5-327	1	228					1	228		
Engr Dump Truck Co	5-88	8	912	3	342			5	570		
Engr Base Equip Co	5-377	1	184					1	184		
Engr Hvy Shop Co	5-357	1	178					1	178		
Engr Maint Co	5-157	2	400	1	200			1	200		
Hq & Hq Co Base Depot Gp	5-592	1	75					1	75		
Avn Engr Bn	5-415	3	2421					3	2421		
Engr Parts S Plat	5-567	1	59					1	59		
Engr Firefighting Plat	5-500	5	145					5	145		
Engr Serv Organization (EC)	5-500	5	290					5	290		
S/L Maint. Team	5-500	3	9					3	9		
Gas Generating Det	5-500	2	46					2	46		
Engr Base Depot Co	5-267	1	160					1	160		
Naval Const Bn (Avn)	P-1	5	5580							5	5580
Naval Const Bn (LION)	P-1	7	7812							7	7812
Naval Const Bn (Seaplane Base)	P-1	1	1116							1	1116

GARRISON FORCE

	T/O	TOTAL All Services No.	TOTAL All Services Strength	FROM ASSAULT FORCES Army No.	Army Strength	Navy No.	Navy Strength	Marine No.	Marine Strength	ADDITIONAL Army No.	Army Strength	Navy No.	Navy Strength	Marine No.	Marine Strength
ENGINEER (Continued)															
Naval Const Bn (Harbor Const)	P-1	3	3348									3	3348		
Naval Const Bn (Gen Const)	P-1	6	6696			3	3348					3	3348		
Naval CB Brigade Hq		2	156									2	156		
Naval CB Regt Hq		6	402									6	402		
Naval ABC Depot	P-1	1	1116									1	1116		
Engr Water Supply Co	5-67	2	282	1	141					1	141				
Engr Light Equip Co	5-367	2	246	2	246										
TOTAL			34891		1184		3348				7481		22878		
QUARTERMASTER															
Gas Supply Co	10-77	1	128	1	128										
Truck Bn	10-55	1	487							1	487				
Sterilization Cos	10-177	2	318	2	318										
Laundry Cos	10-167	2	546							2	546				
Salvage Repair Co	10-237	2	402							2	402				
Depot Supply Co	10-227	2	388	2	388										
QM Service Cos	10-67	6	1314	6	1314										
Graves Reg Plat	10-297	2	65	2	65										
Salvage Collection Co	10-187	1	209	1	209										
Bakery Cos	10-147	3	504	3	504										
Hq & Hq Det QM Base Depot	10-520-1	1	154	1	154										
Base Depot Co (Supply & sales)	10-387	1	130							1	130				
Hq & Hq Det QM Bn	10-56	2	34	2	34										
TOTAL			4679		3114						1565				

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GARRISON FORCE

		TOTAL		FROM ASSAULT FORCES						ADDITIONAL					
		All Services		Army		Navy		Marine		Army		Navy		Marine	
	T/O	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength
TRANSPORTATION															
Hq & Hq Co Major Port	55-110	1	528							1	528				
Port Cos	55-117	8	1840	6	1380					2	460				
CBs (Special)	F-1	2	2196			1	1098					1	1098		
Base Cos		20	5000			4	1000					16	4000		
CB Rgt Hq		1	67									1	67		
Pontoon Oper Bns		2	2436									2	2436		
Truck Cos (M)		4	460									4	460		
TOTAL			12527		1380		2098				988		8061		
ADJUTANT GENERAL															
Base Post Office	12-601	1	98	1	98										
Base Censhorship Det	Est	1	136							1	136				
Hq & Hq Det Rep Bn	20-46	1	24	1	24										
Replacement Cos	20-47	6	210	6	210										
TOTAL			468		332						136				
NAVAL BASE UNITS															
Garrison Beach Party		3	240			3	240								
*LION		1	7031									1	7031		
Naval Supply Depot		incl. in LION pers.										incl. in LION pers.			
*P T Operating Base		1	217									1	217		
*Standard Landing Craft Units		2	2960									2	2960		

*For details see Annex I to Appendix F

ICEBERG

GARRISON FORCE

	T/O	TOTAL All Services No.	TOTAL All Services Strength	FROM ASSAULT FORCES Army No.	FROM ASSAULT FORCES Army Strength	FROM ASSAULT FORCES Navy No.	FROM ASSAULT FORCES Navy Strength	FROM ASSAULT FORCES Marine No.	FROM ASSAULT FORCES Marine Strength	ADDITIONAL Army No.	ADDITIONAL Army Strength	ADDITIONAL Navy No.	ADDITIONAL Navy Strength	ADDITIONAL Marine No.	ADDITIONAL Marine Strength
NAVAL BASE UNITS (Continued)															
*Rec. Station (2000 men)		1	199									1	199		
*Communication Units			1161										1161		
Port Cargo and Trans Unit		1	206									1	200		
Fleet Canteen		2	50									2	50		
Officers Club		2	40									2	40		
Naval Ammunition Depot		incl. in LION pers.										incl. in LION pers.			
Aviation Supply Depot		1	400									1	400		
TOTAL			12498				240						12258		
MILITARY GOVERNMENT **															
Central Administration			45												45
Public Safety (MP Bns)	19-55	2	1356	1	678					1	678				
Finance and Supply			80								80				
Economics			55	)						(	55				
Law and Courts			32	)						(	32				
Property Custodian & Claims			25	)						(	25				
Engineering Public Serv (C Bn)	P-1	P-1	1116	)		1	1116			(					
Public Welfare			130	)- - - -500				***------		(	130				
Intelligence, Interpretation Public Relations			230	)						(	230				
Labor			65	)						(	65				
Transportation			55	)						(	55				

*For details see Annex I to Appendix F
**Tentative for estimation purposes only
***500 Army personnel included in assault force

ICEBERG

GARRISON FORCE

	TOTAL		FROM ASSAULT FORCES				ADDITIONAL			
	T/O	All Services No. Strength	Army No. Strength	Navy No. Strength	Marine No. Strength		Army No. Strength	Navy No. Strength	Marine No. Strength	
MILITARY GOVERNMENT (Continued)										
Camp (250 men) N1A	8	176						8 176		
Camp (100 men) N2A	4	44						4 44		
Hospital (600 bed) G-2	4	1400						4 1400		
Dispensary G-9	8	40						8 40		
Camp N5C	8	-						8 -		
Dispensary, Dental, G-12	16	32						16 32		
TOTAL		4881	1178	1116			895	1692		
GRAND TOTAL		160680	62124	7314	13506		24981	52421	334	
including (a) from Assault		82944								
(b) Additional Units		77736								

[redacted]

ICEBERG

ANNEX I

TO

APPENDIX F

LION

	Unit	No. of Units	Personnel
A-1	Administration	1	175
A-5	Intelligence	1	9
A-7	Shore Patrol	3	69
B-1	H.E.C.P.C.	2	54
B-2	Underwater Detection (Augmented)	1	102
B-4(F)	Port Director	1	114
B-4(C)	Harbor Patrol	2	58
B-5(A)	Boat Pools	2	56
B-6	Surface Radar	2	90
B-8	Minesweeping	2	4
B-9	Fleet Moorings	1	-
B-10	Navigational Aids	1	-
C-10	F.P.O. (Augmented)	1	25
D-1	Storage Facilities (Augmented 50%)	1	975
D-3	Tank Farm	1	16
D-11	Drum Filling Plant	1	101
D-13	Cobbler & Tailor Shop	1	11
D-19	Material Recovery Unit	1	33
E-1	Combined AR, AS, AD	2	1528
E-5	Ship Servicing	1	89
E-6	Mobile Amphibious Repair	1	520
E-8	Small Boat Repair	1	68
E-13	Linesweeping Equipment Repair	1	10
E-16	Oxygen Plant	2	24
E-17	Acetylene Plant	1	6
E-18	CO_2 Transfer	1	4
E-19	Typewriter Repair	2	2

ANN I

LION (Cont'd)

	Unit	No. of Units	Personnel
G-2	Hospital (600 bed)	1	193
G-8	Dispensary (25 bed)	3	42
H-14(A)	Tank Farm, MoGas	1	-
J-1	Base Ordnance	1	16
J-2	Machine Gun Component	1	6
J-3	Ammunition Component	20	360
J-5(A)	Torpedo Depot	1	57
J-10	Optical Shop	1	5
J-11(A)	Mine Assembly Depot	1	69
J-11(E)	Depth Charge Testing Component	1	4
J-12(A)	Net Component	1	70
J-13(B)	Degaussing Component	1	21
N-7(A)	Camps (1,000 men)	7	567
N-8(C)	Camp Buildings (Northern)	7	-
N-9	Base Recreation	1	-
N-10	Base Education	1	2
N-12	Laundry	6	30
N-6(A)	Bakery	3	54
P-2	Construction Equipment	1	-
P-8	Port Development	1	-
P-9	Wooden Pier	4	-
P-10	Pontoon Assembly Plant	1	557
P-11	Truck & Equipment Overhaul Plant (Augmented 50%)	1	835
P-12	Fire Fighting Component	1	-
	TOTAL		7,031

P.T. Operating Base

A-4	Administration	1	10
C-3	Radio	1	10
C-8	Visual	1	-

P.T. Operating Base (Cont'd)

Unit		No. of Units	Personnel
E-11	P.T. Operating Base Repair	1	134
G-10	Dispensary (10 bed)	1	4
J-2	Machine Gun	1	4
J-4(C)	Base Demolition	1	-
J-6(A)	Field Torpedo Circus	1	11
N-1(A)	Camps (250 man)	2	44
N-5(C)	Camp Bldgs. (North)	2	-
N-9	Base Recreation	1	-
P-6(D)	Fire Protection, etc.	1	-
	TOTAL		217

Standard Landing Craft Units (2)

A-3	Administration	2	96
E-10	SLCU Maintenance	2	122
G-8	Dispensary	2	28
N-1(A)	Camps (250 man)	6	132
N-5(C)	Camp Bldgs. (Northern)	6	-
	Boat Personnel		582
	Estimated Additional Boat Crews		2,000
	TOTAL		2,960

Receiving Station (2,000 man)

A-3	Administration	1	48
N-7(A)	Camps (1,000 man)	2	81
N-7(C)	Camp Bldgs. (Northern)	2	-
G-7	Dispensary (50 bed)		70
	TOTAL		199

Navy Communication Units

	Mobile Units	-	375
	Administrative Dets.	-	92
	Garrison Units	-	390
	Camp - Administration	-	130
	FruPac	-	174
	TOTAL		1,161

A16/Ice

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

Serial 000170

21 December 1944

[redacted]

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

Subject: Changes to Joint Staff Study, ICEBERG.

Reference: (a) CinCPOA serial 000131 of 25 October 1944.

Enclosures: (A) Appendix G to Joint Staff Study ICEBERG, with Annex 1, Logistics Measures and Annex 2, Troop List.
(B) Appendix H to Joint Staff Study ICEBERG, with Annex 1, Major Forces Required.

1. Enclosures (A) and (B) are forwarded herewith for insertion in reference (a). Additional annexes to Enclosure (B) will follow. Change Table of Contents to reflect addition of these appendices.

2. These enclosures will constitute the bases for logistic preparation and procurement of forces.

FORREST SHERMAN
Deputy Chief of Staff

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CominPac (1)	172	

R E Keeton

R. E. KEETON,
Assistant
Flag Secretary.

~~TOP SECRET~~

ICEBERG

APPENDIX G

PHASE II

SEIZURE OF IE SHIMA AND OPERATIONS
ON OKINAWA SUBSEQUENT TO PHASE I

1. GENERAL

Phase II will be initiated as soon as it is apparent that the necessary combat troops and fire support ships may be diverted from Phase I Operations. This date, W-Day, will be selected by the Commanding General Expeditionary Troops. For planning purposes W-Day is assumed to be D plus 30.

The scheme of maneuver will be designed to provide early seizure of IE SHIMA and initiation of a major airfield development, and occupation of OKINAWA to the extent required for security of our installations on IE SHIMA and establishment of control over the entire island of OKINAWA.

There is insufficient information available at present to warrant the assumption that favorable sites for air or naval development will be secured in the northern portion of OKINAWA.

2. GROUND FORCES

It is estimated that in this phase the seizure of IE SHIMA and OKINAWA southwest of a line joining KAWATA WAN (26° 38' N 128° 9' E) and SHANA WAN (26° 40' N 128° 7' E) will require two corps of two divisions each. One corps will probably be employed in a land advance to the northeast from positions held at the conclusion of Phase I. The other corps will be available for amphibious operations to seize IE SHIMA and MOTOBU PENINSULA and to envelop Japanese forces opposing our land advance.

After the line KAWATA WAN - SHANA WAN has been established, the Commanding General Expeditionary Troops will

proceed to gain control of the remainder of the island to such a degree as to assure the security of our position. A corps of three divisions should be sufficient to establish and maintain this control throughout OKINAWA JIMA and IE SHIMA, thus making it possible to release the remaining divisions for third phase operations.

As soon as it becomes evident that Japanese forces have been disorganized and enemy capabilities reduced to passive resistance the number of divisions in the OKINAWA - IE SHIMA Area may be reduced to two.

3. AIR FORCES

IE SHIMA will be developed as an air base for the operation of two heavy bomb groups and two long range fighter groups. It is estimated that these fields will be operational for fighters by W / 10 and for bombers by W / 50.

Alternate

The tactical situation in Phase I may require early capture and initial development of IE SHIMA, with forces provided for Phase I, in order to provide additional shore based air support. In this case the two fighter groups, one Army and one Marine, with supporting and service troops, scheduled for installation on OKINAWA will be utilized for this contingency. If so used, the facilities acquired at IE SHIMA will make acceptable a delay in activation of two airfields on OKINAWA. If such a diversion of forces is made those listed herein will be available for activation of airfields on OKINAWA.

4. NAVAL FORCES

Upon completion of Phase I, it will be desirable for reasons of security to retain in the immediate area only those units of the fire support force as will be required for the

prosecution of Phase II. It is estimated that this will comprise about one half of the fire support force initially committed. This reduced force will be available to support the shore-to-shore operation against IE SHIMA, and the advance northward on OKINAWA as required.

It is expected that a covering force of reduced strength, carriers and battleships, will be required to remain within striking distance of OKINAWA throughout Phase II and for an indefinite period thereafter in order to prevent enemy surface ship raids, to augment the shore based air defenses, and to strike adjacent enemy positions.

Landing craft will be retained in sufficient numbers to implement the shore-to-shore assault on IE SHIMA, to provide means for shore-to-shore amphibious assaults in the northern part of OKINAWA and for use in unloading cargo ships supporting the operation.

No naval facilities other than small craft repair and minor harbor services are planned for IE SHIMA. It is expected that various bays and inlets will be discovered in the northern portion of OKINAWA which will be suitable for PT bases and for other small craft anchorages. It is not intended that any provision be made at the present time for naval shore establishment or nets except in NAKAGUSUKU WAN, KERAMA RETTO and NAHA; destroyer mooring buoys and secondary navigation buoys however should be available for several small craft anchorages which are expected to become available.

5. FORCES REQUIRED

a. Ground Force — From

IE SHIMA

Assault

1 Division — Phase I

[redacted]

Garrison	From
1 RCT	Assault force
1 Bn AAA Gun (reinf) (Army)	
OKINAWA	
As directed by ComGen 10th Army	Phase I

b. Air Forces

IE SHIMA

Garrison	
2 Gps VBH (Army)	1 PALAU - 1 U.S.
2 Gps VF (Army)	U.S.
4 Air service groups (Sp)(Army)	1 PALAU - 3 U.S.
2 Avn Engr Bns	MARIANAS if available, or U.S.
1 A.W. Squadron	

c. Naval Forces

Covering Force	3 CV	3 CL
	1 CVL	18 DD
	2-3 BB	
	2 CB or 3 CA	
Fire Support Force	4 OBB	18 DD
	2 CA	9 LCI(G)
	2 CL	
Air Support Force	None	
Assault Shipping	30 LST	50 LCM
	36 LCI(L)	150 LCVP
	20 LSM	
Base Defense & Support Force	None	

d. Service Units - See Annex 2 .

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ANNEX 1 TO APPENDIX G

LOGISTIC MEASURES - PHASE II

1. GENERAL

In addition to the logistic measures discussed in Appendix E to Phase I the following factors applicable to Phase II are significant.

2. FACTS AFFECTING LOGISTICS

a. Terrain

IE SHIMA lies on the northwest side of OKINAWA at a distance of three miles from the tip of MOTOBU PENINSULA. It is a limestone island, roughly oval in form, five miles long and two miles wide. This island contains approximately 5500 acres, nearly all of which area is sufficiently level for development purposes. The island is topped by a nearly level plateau which averages about 150 feet above sea level. This area appears to have been intensively cultivated. Near the eastern end is a volcanic plug about 555 feet high called IKOSUKU YAMA or "Sugar Loaf" at the south base of which lies a large village. A major air base development has been undertaken by the enemy.

b. Water Supply

It is believed that an ample supply of water can be developed by drilling wells in the center of the island down to approximately sea level. In the case of this island a depth of 150 - 200 feet is indicated. The enemy has probably developed a water supply system which might be salvaged.

c. Harbors

There is no sheltered anchorage area adjoining the island. Berthing facilities are few and concentrated near the village on the southeast shore. This is the leeward side of the islands for the prevailing winds of northerly directions. These facilities are located on embayments in the coral reef on the Southeast shore. They appear to be of solid construction. The wharf on the west side is not yet completed.

It does not appear that the water alongside these structures is deep enough to accommodate anything but small boats or barges at high tide. There is no protection for small craft against southerly blows and it seems not unlikely that the samll developed harbor at TOGUIGHI Harbor (dredged to 6½ ft. in 1939) may serve for the transshipment of supplies for the support of the IE SHIMA Air Base, particularly during a period of winds from the south.

In view of the difficulty or impossibility of providing protected berthing for large ships here lightering must be considered as the only practicable means of supply. Tanker moorings could be installed on the south side of the island for delivery of fuel by submarine hose.

d. Beach Capacities

The southern and eastern shores have four firm, coral and sand beaches from 9 to 35 yards wide and 125 to 900 yards long. The remainder of the island is bounded by rocky sea-cliffs.

A fringing reef 360 to 720 yards wide with scattered coral heads, and without channels, borders the island.

Moderate slopes lead inland from all beaches, rising about 20 feet to a border of casuarina trees. Scattered clumps of trees form two rather distant lines between the casuarinas and the airfield.

Interruption of the tree fringe behind the beaches, and breaks in the slope offer good exits in addition to the roads and trails leading inland from all beaches. These roads join with the predominantly east-west road net which links all portions of the island. Several of the roads appear to be about six to eight feet wide and unsurfaced, although several such as the southern coast road, 135 yards inland, are about 12 feet wide and coral surfaced.

It is estimated that the above beaches will afford unloading capacities totaling 75,000 MT/Mo.

3. CONTEMPLATED DEVELOPMENT

a. Airfield Development

IE SHIMA is well adapted to the construction of flying fields because of its relatively level terrain. Approach conditions are over water and are ideal. Much enemy construction here can conveniently be used again.

Photographic coverage shows four parallel runways which can be made ready in a comparatively short time.

Field No. 1. Photographic coverage of 10 October 1944 showed that this runway was cleared by the enemy without any grading.

Field No. 2. The runway was graded and surfaced to a length of approximately 5000 feet on 10 October 1944. A cross runway 4300 feet long, together with taxiways and hardstands, had also been completed at that date, and can probably be used again. It is planned to increase the main runway to 7000 feet for use by VBH.

Field No. 3. As of 10 October 1944 one runway at this field was operational for a length of approximately 5100 feet. A taxiway system with hardstands was partly completed, and a second runway at an angle seems to have been under construction. It is proposed to recondition the present runway for fighter planes without adding to its length.

Field No. 4. This field will be of entirely new construction at the east end of the island. It is to have a runway of 5500 feet in length.

Ready Dates. Estimated ready dates for airfields on IE SHIMA are tabulated below. These dates are predicated on:

(1) Employment of three (3) Aviation Engineer Battalions.

(2) Availability of the sites for commencing work by W + 5.

	Field No.			
	1	2	3	4
Operational for VF (4500' runway)		W+10	W+10	W+50
Operational for VBH (6000' runway)	W+90	W+50		

Final completion of the entire development is estimated at W / 230, and will provide for 5500' runways for VF and 7000' runways for VBH Fields.

b. Naval Facilities

No facilities for support of Naval Units other than small craft is contemplated.

c. Harbor Development and Waterfront Facilities

Installation of tanker and AvGas and MoGas barge moorings off southern shore for delivery of AvGas and MoGas by submarine line.

Transshipment from OKINAWA utilizing small craft will not be practicable during the early stages of development. Personnel and equipment for unloading AKs and APs from moorings at IE SHIMA must be provided during this period. Subsequent to the establishment of adequate port facilities on OKINAWA and when the inbound traffic on that island has passed its peak, transshipment from OKINAWA to IE SHIMA in small craft may be resorted to and some labor on IE SHIMA may be relieved. At this time the amount of labor required on OKINAWA will be increased accordingly.

Installation of AK moorings off southern shore with utilization of individual ship protective nets.

Installation of aids to navigation.

4. MEDICAL FACILITIES AND EVACUATION POLICY

a. Estimate of Casualties:

Dead and missing	800
Local hospitalization	800
Requiring evacuation	2,400
Total Casualties	4,000

b. Evacuation

Casualties will be evacuated by available AHs, APHs and APA to the MARIANAS. If LSTs or smaller vessels are utilized, casualties will be evacuated to OKINAWA for further evacuation by surface or air.

c. Hospitalization

Initially, hospitalization will be provided by mobile hospital units. Subsequent to the assault phase, hospitalization will be provided as directed in the base development plan, and as indicated in the garrison troop list.

d. Medical Care for Civilians

Assault: Estimated casualties, 700. Requiring hospitalization, 350. During the assault phase, civilian casualties will be handled by medical units designated for Military Government, assigned to the assault division. After the assault phase, civilians will be cared for by medical units designated for Military Government. Civilian casualties will not be evacuated from the island.

Garrison: Medical care of civilians by units assigned to garrison forces.

5. SUPPORT OF LAND BASED FORCES

a. Method of Supply

The primary method of supply will be by direct maintenance shipments from the West Coast.

When practicable the supply of Assault and Garrison Forces will be by utilization of LCTs, LSTs and other small craft from the port of NAHA or other accessible loading points on OKINAWA. Due to lack of facilities and heavy requirements for OKINAWA, transshipment may not be practicable in the early stages.

Provision should be made for AK moorings to unload at IE SHIMA any ships of regularly scheduled maintenance shipments, or any other cargo ship, assigned to the support of this operation.

b. Responsibilities for Supply, Levels of Supply and Supplies to Accompany Troops

The same general provisions as obtained in Phase I will apply in Phase II.

c. Shipping Instructions

A separate shipping designation for IE SHIMA will be assigned to

facilitate direct maintenance shipments to this port.

6. MILITARY GOVERNMENT

a. Assault Phase

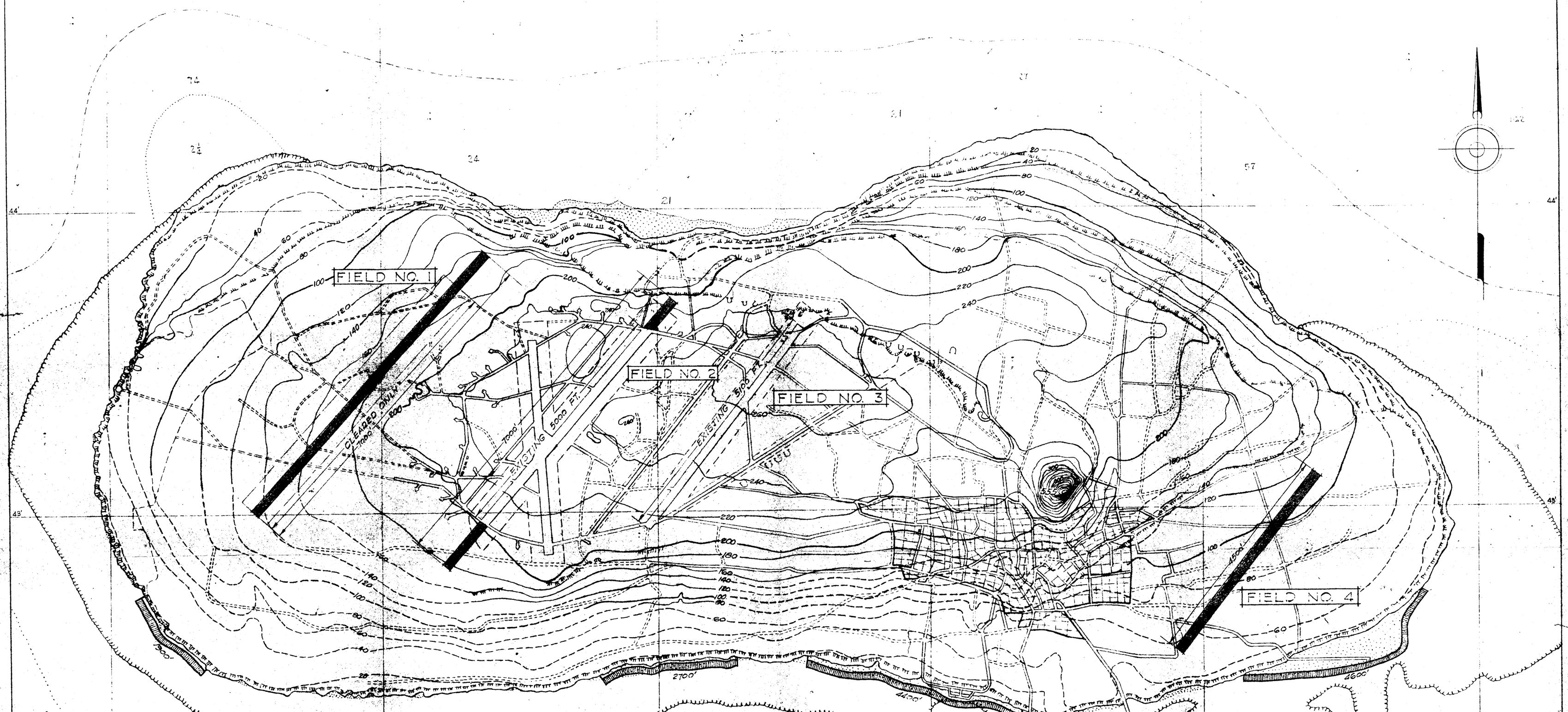
During the assault phase Military Government functions in IE SHIMA will be performed by the Military Government detachments, including medical, which are regularly assigned to the assault division.

b. Garrison Phase

Upon completion of the assault phase, the Military Government detachments assigned to the assault division will revert to the control of the garrison commander. These detachments will be augmented when practicable by one Military Government Camp Unit to be carried in garrison shipping. This unit is in addition to those previously provided for Phase I.

7. SERVICE TROOPS

Unless otherwise indicated in Annex 2 to Appendix G - Phase II, all service units will be in addition to those listed for Phase I.



GENERAL NOTES

1. SOURCES OF INFORMATION:—
   a. U.S.H.O. CHART NO. 2338, HORIZONTAL & VERTICAL CONTROL & HYDROGRAPHY.
   b. AERIAL PHOTOS—
      (1) 7473-19
      (2) 7750-81(V)
      (3) 7436-7
   c. ADVANCE SHEET OF MULTIPLEX A.M.S. - L691.
2. SOLID CONTOURS BY STEREO-COMPARISON FROM SOURCE 1b USING SOURCE 1c AS BASIC CONTROL.
3. DOTTED CONTOURS INTERPOLATED FROM SOURCE 1c USING PHOTOS 7591-48(TV).
4. BASE MAP PREPARED IN HAWAIIAN AREA CONSTRUCTION BRIGADES DRAFTING ROOM FOR 48 SECTION.
5. AIRFIELDS AND BEACHES ADDED 16 DEC, 1944 BY 48 SECTION DESIGN GROUP. EPP.

NOTE:—
STATUS OF EXISTING ENEMY AIRFIELDS GIVEN AS OF LAST PHOTO COVERAGE - 10 OCT, 1944.

INDICATES BEACHES

PROPOSED NEW CONSTRUCTION

SCALE: 1 INCH = 1000 FEET

1000 0 1000 2000 3000 4000 5000

SOUNDINGS IN FATHOMS
HEIGHTS IN FEET

FIELD READINESS DATES
USING 3 AVN. ENG. BNS.

FIELD	1	2	3	4
OPERATIONAL FOR VF		W + 10	W + 10	W + 50
OPERATIONAL FOR VBH (6000')	W + 90	W + 50		

CINCPOA - LOGISTICS - CONSTRUCTION SECTION

PREPARED BY: DESIGN GROUP
DRAWN BY: EPP
16 DEC., 1944

SCALE
1" = 1000'

IN 1 SHEET

IE SHIMA

PRELIMINARY STUDY OF
AIRFIELD SITES

(SUPPLEMENT 1
TO ANNEX 1
OF APPENDIX G)

FILE NO. 219

ANN

ICEBERG
ANNEX 2 TO APPENDIX G
TROOP LIST - PHASE II

UNIT	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Mounting From	REMARKS
Division (Reinforced) Amphibious trained and equipped for independent operation including Garrison Beach Party.	-	1 - 24500	500		1 - 5000	200		Phase I	One (1) RCT with appropriate medical units in Civil Affairs Team will remain in garrison phase. Additional Civil Affairs Team will arrive later.
JASCO									
Civil Affairs Team									
		24500	500		5000	200			
AVIATION									
VBH Groups	1-117				2 - 3564			PALAU (1)	
VF Groups	(1-37				2 - 2274				
Serv.Group Spec	(1-12 (1-452 (1-458 (1-457				4 - 2632			PALAU (1) U.S. (3)	
Air Warning Sqdn	E-691						1-230		
Base Hq & A.B. Sqdn	1-422				2 - 202				
Weather Detachment	-				1 - 15				
Aviation Sqdn	1-999				1 - 252				
					8939		230		
ANTI-AIRCRAFT									
Hq & Hq Btry, Gp	44-12				1 - 73				
Gun Bn Sem (A), plus 2 - Gun Btries Sem (A)	44-115 44-117				1 - 631 2 - 248				
AW Bn Sem, plus 2 - AW Btries	44-125 44-127				1 - 787 2 - 328				

Note: Unless otherwise indicated all units will mount from U.S.

[redacted]

UNIT	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Mounting From	REMARKS
ANTI-AIRCRAFT (Cont'd)									
S/L Btry (B)(less radar), plus	44-138				1-147				
[redacted] 1 - Plat (less radar)	44-138				1- 52				
					2,266				
FINANCE									
[redacted]n Disb Sec (AB-BG-CA-DC types)	14-500				1- 22				
					22				
MEDICAL									
Evacuation Hospital (SM) 400-bed	8-581	1-246							Departs with Assault Div. less nurses. W/Nurses
Station Hospital 500-bed	8-560				1-337				
Malaria Survey Unit (FB)	8-500				1- 13				
Malaria Control Unit (FA)	8-500				1- 12				
		246			362				
ORDNANCE									
Medium Maint Co	9-9				1-169				Only 3rd Ech. Maint.
Ord Dep Co	9-57				1-186				
Ord Med Auto Maint Co	9-127				1-120				Only 3rd Ech. Maint.
[redacted]omb Disposal Sqd	9-179				1- 7				
Ord Ammo Co Avn	9-17				1-179				
Ord Supply and Maint Co Avn	9-417				1- 78				
					739				
SIGNAL									
Communication Unit						1-100			
AACS Det					1- 30				
Sig Det Avn	11-217				1-100				
Gp Hq (Augmented)	11-500				1- 48				
Sig Serv Co	11-500				1-250				
Sig Cons Co Hv	11-67				1-204				
					632				

TOP SECRET

UNIT	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Mounting From	REMARKS
QUARTERMASTER									
Hq & Hq Det QM Bn	10-536				2- 54				2 - Med Dets of 2 Off & 8 EM each (Attchd).
QM Service Co	10-67				2- 426				Based on moving 20,000 MT per month.
QM Laundry Co SM (less 2 Plats)	10-167				½- 144				
QM Bakery Plat	10-147				2- 68				
QM Graves Reg Plat	10-297				1- 23				
QM Depot Co, Supply (less 1 Plat)	10-227				½- 134				
QM Salvage Coll Plat	10-187				1- 62				
QM Salvage Rep Plat	10-237				1- 88				
QM Truck Co	10-57				1- 134				
					1,133				
ENGINEERS									
Engr Avn Bn	5-415				3-2295				
Water Supply Plat	5-67				1- 38				
Engr Const Bn	5-75				1- 901				
Engr Dump Truck Co	5-88				3- 342				
Const Bn (Navy)	P-1						½-558		
					3576		558		
ADJUTANT GENERAL									
Base Post Office	12-605				1- 20				
Base Censorship Det	-				1- 20				
					40				
MILITARY POLICE									
Military Police Co, Avn	19-217				1- 104				
					104				
TRANSPORTATION CORPS									
Port Cos	55-117				2- 460				This is considered adequate if the supplies to be handled do not exceed 40,000 M.T. per month above normal maintenance for garrison.
Hq & Hq Det Port Bn	55-116				1- 34				
					494				

[redacted]

UNIT	T/O	ASSAULT Army	Navy	Marine	GARRISON Army	Navy	Marine	Mounting From	REMARKS
NAVAL UNITS									
GROPAC	-					1 - 367			
Boat Pool	-					1 - 350			
						717			
TOTALS		24746	500		23307	1575	230		

GRAND TOTAL ALL SERVICES

ASSAULT	GARRISON
25246	25112

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

A16/ICE

Serial 0005024 Superceded by Annex H, dated 14 April 1945

28 February 1945

~~TOP SECRET~~

From: Commander in Chief, U. S. Pacific Fleet and Pacific Ocean Areas.
To : DISTRIBUTION LIST.

Subject: Change to Joint Staff Study, ICEBERG.

Reference: (a) Cincpoa Top Secret serial 000131 of 25 October 1944.

Enclosure: (A) Appendix H to Joint Staff Study, ICEBERG with Annex 1, Major Forces Required.

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

(a) Remove and destroy by burning pages 87-105 inclusive.

(b) Insert new pages 87-98 inclusive (Enclosure (A)).

2. Corrected Annexes 2 and 3 to Appendix H will be issued at an early date.

C. H. McMORRIS,
Chief of Staff.

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O. L. THORNE,
Flag Secretary.

APP F
Phase III

~~TOP SECRET~~

ICEBERG

APPENDIX H

PHASE III

SEIZURE AND DEVELOPMENT OF ADDITIONAL POSITIONS

1. GENERAL

a. Objectives

Phase III will comprise the capture of additional islands in order to extend our air bombardment and blockade of JAPAN. Although reconnaissance is incomplete it appears that the only islands in the RYUKYUS susceptible of extensive development are MIYAKO and KIKAI. MIYAKO will be captured and developed primarily as a base for VLR aircraft. KIKAI, after capture, will be developed as an advanced base for fighters. It is expected that lack of forces, particularly Army service troops, will preclude the seizure of either of these objectives until such time as additional service units become available in the Pacific Ocean Areas.

Assuming that the necessary service troops are available, the operations comprising Phase III may conform to the following approximate time schedule, L Day being the day of initial landing on OKINAWA:

MIYAKO	A Day	L plus 90
KIKAI	F Day	L plus 120

MIYAKO is to be captured first because of the greater length of time required to develop VLR bases and in order to conform as nearly as possible to the anticipated availability dates of VLR wings.

KIKAI, being close to other enemy air bases in the AMAMI Group and a relatively short distance from JAPAN, should be captured after MIYAKO in order to allow a longer period for attrition of Japanese air forces.

Delays in the availability of service troops beyond the dates indicated above will impose corresponding delays in the seizure of the objectives.

[redacted]

b. Ground Forces

The V Amphibious Corps (3rd, 4th, and 5th Marine Divisions) is designated as the assault force for the capture of MIYAKO. The 3rd Marine Division and the Corps troops will be mounted in the MARIANAS area, and the 4th and 5th Marine Divisions in the HAWAIIAN area. Rehearsals will take place in the mounting areas.

One infantry division (reinforced) will be designated for the capture of KIKAI from the combat troops allocated to ICEBERG. Mounting and rehearsals will take place in the OKINAWA GUNTO.

c. Air Forces

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 will be provided by the Tactical Air Force, assisted as required by elements of the Fast Carrier Task Forces.

The primary function of the Fast Carrier Task Forces will be to cover the operations of Phase III by conducting continuing attacks on strategic and tactical targets on the Japanese mainland. 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 support.

Transport carriers will transport aircraft spares, pilots, and air crews to the combat areas for replenishment of CV's, CVL's, and CVE's. In addition, they will be required to transport certain garrison aircraft units to be designated.

d. Naval Forces

Phase III will require assault shipping sufficient to mount three divisions, construction forces for early activation of airfields, and ground echelon and service units of initial air garrison. Three transport squadrons will be necessary to mount the V Amphibious Corps for the seizure of MIYAKO. The capture of KIKAI will be conducted as a shore-to-shore movement, using landing ships and landing craft exclusively.

In view of the reduced strength of the Japanese fleet and our strategic position in LUZON and OKINAWA, it is believed that three fast carrier task groups will be sufficient covering force for these operations.

Escort carriers will provide air cover for assault shipping during the movement to MIYAKO and close air support during the landing operations. Three close air support units or a total of twelve CVE's will be required. Shore based aviation should be capable of providing adequate close air support for the capture of KIKAI and the employment of escort carriers is not considered necessary for this purpose.

The total fire support force will be utilized in the MIYAKO operation. This force may be reduced for the assault on KIKAI.

2. MIYAKO - Phase III c. (There is no Phase III a. or III b.)

a. General Discussion

MIYAKO has been selected as an objective in order to acquire additional airfield sites for the following purposes:

(1) To provide a base relatively close to JAPAN for VLR aircraft.

(2) To provide an offensive air base to complete the neutralization of enemy positions in FORMOSA.

(3) As a defensive southern outpost to provide greater security for our position in OKINAWA.

The capture, occupation, defense, and development of MIYAKO will be initiated as soon as the necessary service troops become available and the necessary assault shipping and combat units can be released from other

operations.

Maximum naval covering and fire support forces available will be employed

During the assault phase the Commander Expeditionary Force will be responsible for initiating the development of MIYAKO. Upon completion of the assault phase the Commanding General, Tenth Army, will be responsible for the shore defenses, administration, and logistic support of the island.

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 20,000 - 22,000. The 1940 civil population was 60,786. A corps of three reinforced divisions is considered a suitable assault force. One division, to be provided from the assault force until a relief division is available, will be required for the defense of the island. Assault and garrison forces are listed in Annex 1 to this Appendix.

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 small islands of YERABU, SHIMOJI, and KURUMA which lie from 1-1/2 to 4-1/2 miles off JUNK BAY afford possible positions for emplacement of artillery to support the landing forces. The three existing enemy airfields are grouped on an arc about JUNK BAY, at a distance of from 1 to 2 miles therefrom. The scheme of maneuver will provide for the seizure of the three small off-lying islands on A-1 day, and the emplacement of artillery to support the main landings on A Day. Two divisions in the assault will land in JUNK BAY area in order to seize the three existing airfields. The attack will then be continued to capture the remainder of the island. A third division will be held initially in floating reserve.

c. Air Forces

Prior to our attack MIYAKO will have been subjected to repeated air attacks by both shore-based and carrier aviation in order to neutralize its air bases as a safeguard for our position in OKINAWA. About A-15 an intensive air attack will be initiated to destroy defensive installations. The Fast Carrier Task Groups may assist in the preliminary bombardment of the target but will cover the operation by conducting strikes against strategic and tactical targets in KYUSHU and HONSHU. The Southwest Pacific Area air forces will be requested to assist in this operation by the neutralization of airfields in FORMOSA and by extensive heavy bomber attacks on MIYAKO. Direct air support of the assault and neutralization of adjacent supporting bases will be provided by escort carriers.

Four airfields will be constructed to accommodate two wings (8 groups) of very long range bombers, two fighter groups, one night fighter squadron, one Marine torpedo bomber squadron for anti-submarine patrol.

Air forces are listed in Annex 1 to this appendix.

d. Naval Forces

Three transport squadrons will be provided from new construction to mount the V Amphibious Corps for this operation. Two transport squadrons will assemble in HAWAII on A-46 to mount the 4th and 5th MarDivs; and one transport squadron in the MARIANAS on A-36 to mount the 3rd Mar Div.

All available fire support units will be required in order to effect maximum destruction of enemy defenses prior to the assault. The fire support units will be assembled in OKINAWA and will precede the assault force to the objective by at least five days. The minesweeping group should depart OKINAWA with the fire support group.

Naval forces are listed in Annex 1 to this appendix.

PART II

3. KIKAI - Phase III d.

a. General Discussion

The second objective for Phase III is KIKAI. This objective is selected in order to acquire additional airfield sites for the following purposes:

To operate fighters for escort, and for air defense to the north of OKINAWA.

To neutralize other bases in the AMAMI Group.

The seizure of this objective will be conducted as a shore-to-shore movement using amphibious craft and employing assault forces released from active operations in the OKINAWA area. Naval covering and fire support forces will be retained as required from the MIYAKO operation to support the assault on KIKAI.

b. Ground Forces.

The estimated strength of the Japanese forces in the AMAMI Group is one division, one independent mixed brigade, and one independent mixed regiment with supporting and service troops, totaling 21,700 - 23,700. Of this total it is estimated that 3,500 are on KIKAI. The 1940 civil population was 18, 184. In view of the enemy combat strength in the AMAMI Group, and his capability of quickly reinforcing KIKAI, it is estimated that one reinforced infantry division should constitute the assault force. One infantry division will be required for the defense of the island. Assault and garrison forces are listed in Annex 1 to this appendix.

The only potential landing beaches are at SOMACHI HAKUCHI and at SHITOOKE on the northeast coast, and at WAN and AGARE on the southwest coast. Weather permitting, the northeast coast is considered the better landing area. The scheme of maneuver will provide for landings on the northeast coast, or alternately, at WAN and AGARE in the event of unfavorable weather conditions on the northeast coast.

c. Air Forces

Air operations against KIKAI will be continuous after our establishment in OKINAWA, in order to maintain its neutralization. When the neutralization of MIYAKO and the SAKASHIMA Group is taken over by the escort carrier force, the entire offensive effort of the Tactical Air Force will be available for employment against KIKAI. KIKAI will be kept under continuous attack to destroy its defensive installations as well as to neutralize its airfields.

The proximity of KIKAI to KYUSHU makes it inadvisable to expose CVE's to attack from that major air center unless previous operations of the Fast Carrier Task Forces and the shore based aviation has resulted in an appreciable decline of Japanese offensive air capabilities. The short distance of 155 miles from OKINAWA to KIKAI 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 this period, 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 have to be provided by combat air patrols from OKINAWA and continuous attacks on enemy air bases in KYUSHU by both shore and carrier based aviation.

KIKAI will be developed to provide a base for four fighter groups, two night fighter squadrons, and one Marine torpedo bomber squadron. Air forces are listed in Annex 1 to this appendix.

d. Naval Forces

The assault shipping for Phase III-d will consist exclusively of landing ships and landing craft, which have been retained from the MIYAKO assault. It is expected that these will be assembled in OKINAWA where the assault force will be mounted.

The fire support force will consist of 6 OBB, 3 CA, 3 CL, 18 DD, 9 LCI(G), and 9 LCI(M) from the force used in the MIYAKO assault.

The same covering force employed in Phase III-c will be used to support the operations against KIKAI.

Close air support will be provided by shore based aircraft from OKINAWA; therefore, no close naval air support units will be necessary.

Naval forces are listed in Annex 1 to this appendix.

ICEBERG

Annex 1 to Appendix H

MAJOR FORCES REQUIRED - PHASE III

1. GROUND FORCES

Assault Forces	MIYAKO	KIKAI
Marine Amphibious Corps of 3 MarDivs (V Amphibious Corps)	1	
Infantry Division, amphibiously trained		1
Tank Battalion (medium)		1
Engineer Combat Bn		3
Hq & Hq Co, Engr Gp		1
Amphibious Tractor Bn		3
Amphibious Tank Bn		1
Amphibious Truck Co		2
JASCO's		1
Chemical Co (motorized)		1
Garrison Forces		
Infantry Division	1	1
Tank Company (medium)	1	1
AAA Gun Bn	3	3
AAA A/W Bn	4	3
AAA S/L Bn (— 1 battery)	1	1
Hq & Hq Btry AAA Gp	2	2
155-mm Gun (CA) Bn	2	2
Hq & Hq Btry CA Gp	1	1
MP Battalion	1	1
Hq & Hq Btry AAA Brig	1	1

[redacted]

2. AIR FORCES

Garrison		From
	MIYAKO	
Army -	2 Wings VLR (includes 2 Wg Hq and 8 groups, with supporting troops)	U. S.
	1 Sq Photo Recon, VLR	GUAM
	1 Hq & Hq - Sv Co, Engr Avn Regt	CentPac
	2 Groups Fighters	U. S.
	1 Sq Night Fighters	U. S.
Marine -	1 Sq VMTB	CentPac
	1 Sq Air Warning	HAWAII
	KIKAI	
Army -	1 Hq Fighter Wing	U. S.
	4 Groups VF	1 - HAWAII 3 - 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	MIYAKO	KIKAI
CV	8	8
CVL	4	4
BB	6	6
CA	6	6
CL	4	4
CL(AA)	4	4
DD	62	62

	MIYAKO	KIKAI
Fire Support Force		
OBB	10	6
CB	2	0
CA	10	3
CL	4	3
DD	27	18
LCI(G)	9	9
LCI(M)	9	9
Air Support Force		
CVE	12	0
DD	18	0
Assault Shipping		
AGC	3	1
APA	45	0
AKA	18	0
LSV	3	0
LSD	3	2
LST	100	30
LCT	20	10
LCI(L)	0	36
LSM	30	20
DD	27	9
DE	12	6
DMS	6	4
APD	6	12
AM	6	4
YMS	12	12
PC	12	6

Garrison

Base Supported	MIYAKO	KIKAI
LCT	10	10
LCM	60	20
LCVP	20	10
YMT	4	4
YTB	4	0
YNg	2	2
Fleet Supported		
DD	9	9
DE	0	6
PC	6	6
SC	6	6
LST	10	4
LCI(L)	18	18
YMS	6	6
AGP	0	2
PT	0	24
AD	1	0
ARL	1	1
AN	4	4

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AND PACIFIC OCEAN AREAS
Headquarters of the Commander in Chief

COPY NO. 151

Serial 000211

5 February 1945

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

Subject: Changes to Joint Staff Study, ICEBERG.

References: (a) Cincpoa serial 000170 of 21 December 1944, ICEBERG Phase II and III.
(b) Cincpoa serial 000131 of 25 October 1944, ICEBERG Phase I.

Enclosures: (A) Annex 2 to Appendix H, Joint Staff Study ICEBERG, Logistic Measures Phase III.
(B) Annex 3 to Appendix H, Joint Staff Study ICEBERG, Troop List Phase III.

1. Reference (a) stated additional annexes to Appendix H to subject Study would follow.

2. Enclosures (A) and (B) are forwarded herewith for insertion in reference (b). Change Table of Contents to reflect addition of these annexes.

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Deputy Cincpac & Cincpoa

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R. E. KEETON
Ass't Flag Secretary

ICEBERG
ANNEX 2 TO APPENDIX H
LOGISTIC MEASURES - PHASE III

1. 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.

2. OPERATIONAL REQUIREMENTS

The concept of operations requires:

a. on OKINO DAITO JIMA the early availability and installation of equipment and personnel for a LORAN station.

b. On KUME SHIMA, MIYAKO JIMA and KIKAI JIMA rapid construction of additional airdrome facilities.

3. FACTS AFFECTING LOGISTICS

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

	OKINO	KUME	MIYAKO	KIKAI
OKINAWA (NAHA)	207	48	170	248
IWO JIMA	567	835	880	655
GUAM	1015	1277	1287	1215
SAIPAN	996	1265	1300	1190
ULITHI	990	1221	1200	1235
MANUS	1814	2061	1998	2075
LEYTE	900	945	845	1110
FORMOSA	546	296	209	515
KYUSHU	415	375	474	175
SHANGHAI	677	413	439	485

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

ANN

b. PHYSICAL SURVEY

(1) OKINO DAITO SHIMA (see Supplement 2 to Annex 2 of Appendix H) is roughly triangular, approximately 5000 feet in its greatest

dimension, and contains .45 square miles or 290 acres. It is a flat-topped coral formation bounded by steep rocky cliffs sloping 80 feet to the sea. Phosphate deposits are being exploited at the northwest end of the island and there is evidence of cane cultivation. No high standard roads have been built but a narrow gauge railroad links the northern phosphate diggings with the western coast. The barracks of the phosphate workers are the only settlement; population in 1938 was 2,000.

(2) KUME SHIMA (see Supplement 3 to Annex 2 of Appendix H) is about eight miles long, contains 21 square miles, and is largely undeveloped. Its topography varies from small coastal plains to sand dunes, terraces and hills, some of which rise to 1,000 feet. Agriculture is the only significant industry. A 9-foot road circles the island, generally following the coast, and a number of minor roads cross the interior, but there are no railroads. Of several settlements GIMA, on the southwest coast, is the largest. The Island's population in 1940 was 13,400.

(3) MIYAKO JIMA (see Supplement 4 to Annex 2 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.

(4) KIKAI SHIMA (see Supplement 5 to Annex 2 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 area and the population in 1940 was 18,000.

c. WATER SUPPLY

(1) OKINO DAITO JIMA. The best information available indicates the present water supply is dependent on catchments and shallow wells. Distillation units will therefore be needed in the early phases of occupation and wells driven to sea level in the center of the island will be the best source in the garrison phase.

(2) KUME SHIMA, like OKINO DAITO JIMA, apparently depends on catchments and wells for water supply. Distillation units and deeper wells will be required as at OKINO.

(3) MIYAKO JIMA 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 his airfield development may be salvageable, but distilling units must be planned.

(4) KIKAI SHIMA'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) OKINO DAITO SHIMA is surrounded by a narrow reef and has no protected inlet or anchorage. Small ships now approach the southwest side of the Island, making use of mooring buoys near a crane-equipped pier.

(2) KUME SHIMA has a useable harbor in SHIMAJIRI WAN, formed by coral reefs enclosing a large lagoon southeast of the Island. The anchorage has 15-20 fathoms and is well sheltered from all directions except southeast. Any size ship could enter, there being anchorage area for 4 cruisers and several destroyers, but local knowledge of the entrance shoals and of numerous dangers within the bay would be essential for further utilization. A channel breaks the reef at GIMA to afford

access to an anchorage suitable for small craft. Tidal currents crossing the entrance, however, reach strengths of 3½ knots.

(3) MIYAKO JIMA 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 accommodate small landing craft. A secondary anchorage is possible on the east coast, north of YASHIKUBARA. Although small and exposed to northwest winds 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. This site is only one mile from an existing airfield.

(4) KIKAI JIMA's best harbor, SOMACHI HAKUCHI, a double inlet at the town of SOMACHI, is small and open to winds between east and southeast, but appears to be suitable for LSTs and like vessels. 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 of rough volcanic 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) OKINO DAITO JIMA has no beaches, the only practicable landing point being the phosphate pier and the adjoining seawall. This pier and the small crane mounted thereon may survive the assault to be of use in increasing the discharge capacity, but an estimate of 500 M/T per day, adequate for expected needs, is all that is warranted by intelli-

gence information now available.

(2) KUME SHIMA has no known cargo handling facilities and all initial discharge will have to be made over the beaches. GIMA KO is satisfactory for small craft and there is nearly 6,000 feet of shallow water approaches or sandy beaches in this area. Because of limitations of exit from these beaches, tide conditions and relative exposure, however, estimates of the capacity are below those experienced in previous operations and vary widely. 500 M/T per day is a conservative figure subject to revision in view of later photographic coverage of the area.

SHIMAJIRI WAN offers greater capacity, at least 1700 M/T per day. Possible landing sites along the southeast coast of the island total 6,600 feet of shallow water approach or sandy beach. Because of the same limitations mentioned above for GIMA KO, however, the capacity estimate is conservative and subject to revision by later intelligence data. 2,200 M/T per day is insufficient for all anticipated needs, but by landing the prescribed build-up supplies on OKINAWA and by transshipment KUME's beach capacity becomes more nearly adequate.

(3) MIYAKO JIMA also is without any known cargo handling facilities, but in view of the enemy's airfield development it is probable that some improvements have been made. Considerable anchorage area is available favorably located off the best beaches, those on the western coast. These may be used during any of the usual weather but use of more exposed beaches on the southern and eastern coasts simultaneously will be rarely if ever practicable. Capacities are conservatively estimated as follows:

East Coast	1700 M/T per day, or
South Coast	1700 M/T per day.
West Coast	5100 M/T per day.
Total	6800 M/T per day.

This total is sufficient to handle tonnages planned for discharge.

(4) KIKAI JIMA's beach capacity appears to be far below anticipated requirements. Further intelligence may permit upward revision, but

current estimates are 500 M/T per day at SOMACHI HAKUCHI and an additional 500 for all of the island's other practicable landings. Limitations arising from off-shore conditions, lack of inlets and steep shores indicate little possibility of developing much greater capacity. Unless later photo coverage shows more favorable beaches the seizure and development of KIKAI SHIMA as proposed will be logistically feasible only by extensive use of exposed anchorages, small boats, cargo planes or gliders, parachute drops, or other relatively inefficient support methods of this nature.

4. TROOP AND TONNAGE REQUIREMENTS

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

(1) ESTIMATED TONNAGE LIFT PER MAN

		Orig. Equip. Initial Maint. & Const. Material	
	Total Lift	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 (Minimum)	5 MT

(2) LOADING CAPACITIES WITHOUT STOWAGE

AP's - 1500 Personnel and 200 MT

AK's - 6500 MT for vessels scheduled to arrive during combat period (assumed 1st month), and 9000 MT for remainder.

[redacted]

b. OKINO DAITO JIMA

ESTIMATED PERSONNEL LIFT	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
Tactical Troops	7319							7319
Garrison Troops	2000	925						2925
Replacements (not incl. Population)		640						640
TOTAL TROOPS	9319	1565						10662
In Assault Shipping	7819							7819
In Garrison Shipping	1500	1565						3065
AP's Required	1	1			(@ 1500 per AP)			2
POPULATION ESTIMATE								
Balance forward		9319						
Total Troops from "A"	9319	925			(Less Replacements)			10244
SUB-TOTAL	9319	10244						
Withdrawals		6623						6623
Estimated Population	9319	3621	* 3621	3621	3621	3621	3621	
ESTIMATED DISCHARGE (Based on very meager information)								
Capabilities in M/T's	15000	15000	15000	15000	15000	15000	15000	

ESTIMATE OF TOTAL M/T of Original Equipment & Initial Maintenance

Tactical Troops	@ 3 M/T per Man	6623	X 3	=	19869
	@ 5 M/T per Man	696	X 5	=	3480
Garrison Troops	@10 M/T per Man	2925	X 10	=	29250
					52599

[redacted]

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	7455	2890	2890	2582	2582	2582	2582	
Build up Supply Level		2000	2000	1794				5794
Military Gov't (NONE)								
Tactical Troops in Assault Shipping	23457							(
M/T for Garrison Lift	7500	10110	10110	1422				(52599
	38412	15000	15000	5798	2582	2582	2582	
								23457
Lifted in Assault Shipping	23457							4000
Lifted in Garrison AP	2000	2000				(@ 2000 MT)		
Lifted in AK	12955	13000	15000	5798	2582	2582	2582	
AK's Required	2	2	2	1	1	0		
AK's Involved (120 Day Turn Around)	2	4	6	7	6	4	2	

* Used as basis for Supply Level

[redacted]

c. KUME SHIMA

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
ESTIMATED PERSONNEL LIFT								
Tactical Troops	25736							25736
Garrison Troops	10000	19740						29740
Replacements (not incl. in Population)		1700	3000					4700
TOTAL TROOPS	35736	21440	3000					60176
In Assault Shipping	29736							29736
In Garrison Shipping	6000	21440	3000					30440
AP's Required	4	14	2			(@ 1500 per AP)		20
POPULATION ESTIMATE								
Balance forward		35736						
Total Troops from "A"	35736	19740				(Less Replacements)		55476
SUB-TOTAL	35736	55476						
Withdrawals		22644						22644
Estimated Population	35736	32832	* 32832	32832	32832	32832	32832	
ESTIMATED DISCHARGE CAPABILITIES IN M/T	66000	66000	66000	66000	66000	66000	66000	(Based on very meager information)

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

Tactical Troops	(@ 3 MT Per Man	22644	X	3	=	67932
	(@ 5 MT Per Man	3092	X	5	=	15460
Garrison Troops	@ 10 MT Per Man	29740	X	10	=	297400
						380792

[redacted]

ESTIMATE OF TONNAGE LIFT (M/T)	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
Maintenance @ .8 MT Per Man	28589	26265	26265	26265	26265	26265	26265	
Build Up Supply Level		17510	17510	17510				43902
Military Gov't.	300	300	300	300	300			
Tactical Troop Forces in Assault Shipping	89208							(380972
MT for Garrison Lift	60000	57941	57941	57941	57941			(
Total For Ships**	88889	102016	102016	102016	84506	26265	26265	
Total For Discharge Capacity	178097	84506	84506	84506	84506	26265	26265	
Lifted in Assault Shipping	89208							89208
Lifted in Garrison AP	8000	28000	4000					40000
Lifted in AK	80889	74016	98016	102016	84506	26265	26265	
AK Required	12	8	11	11	9	3	3	
AK's Involved (120 day Turn Around)	12	20	31	42	39	34	26	

* Used as basis for supply level.

** Used in computing AK's required; Build-up Supply tonnages are planned to be landed on OKINAWA since KUME's beach capacity is apparently insufficient.

[redacted]

d. MIYAKO JIMA

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
ESTIMATED PERSONNEL LIFT								
Tactical Troops	86646							86646
Garrison Troops	10000	29733	9366					49099
Replacements (not incl. Population)		3000	3000	3600				9600
TOTAL TROOPS	96646	32733	12366	3600				145345
In Assault Shipping	91646							91646
In Garrison Shipping	5000	32733	12366	3600				53699
AP's Required	3	22	8	2				35
POPULATION ESTIMATE								
Balance Forward		96646	69548					
Total Troops from "A"	96646	29733	9366		(Less Replacements)			135745
SUB-TOTAL	96646	126379	78914					
Withdrawals		56831						56831
Estimated Population	96646	69548	78914*	78914	78914	78914	78914	
ESTIMATED DISCHARGE CAPABILITIES IN M/T'S	204000	204000	204000	204000	204000	204000	204000 (Based on very meager information)	

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

Tactical Troops	@ 3 M/T per man	56831 X 3	=	170493
	@ 5 M/T per man	29815 X 5	=	149075
Garrison Troops	@10 M/T per man	49099 X 10	=	490990
				810558

[redacted]

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	77317	55638	63131	63131	63131	63131	63131	
Build up Supply Level		30000	30000	30000	13236			103236
Military Gov't.		1500	1500	1500	1500	1500		
Tactical Troops in Assault Shipping	274938							(
M/T for Garrison Lift	50000	116862	109369	109369	126133	23887		(810558
TOTAL	402255	204000	204000	204000	204000	88518	51618	
Lifted in Assault Shipping	274938							274938
Lifted in Garrison APs	6000	44000	16000	4000		(@ 2000 MT)		
Lifted in AK	121317	160000	188000	200000	204000	88518	63131	
AK's Required	19	18	21	23	23	10	7	
AK's Involved (120 Day Turn Around)	19	37	58	81	85	77	63	

* Used as basis for Supply Level.

[redacted]T

e. KIKAI JIMA

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
ESTIMATED PERSONNEL LIFT								
Tactical Troops	28374							28374
Garrison Troops	10000	20000	12325					42325
Replacements (not addt'l. Population)		2500	1500			1500		5500
TOTAL TROOPS	38374	22500	13825			1500		76199
In Assault Shipping and by Parachute	33374							33374
In Garrison Shipping	5000	22500	13825					42825
AP's Required	3	15	9			1	(@ 1500 per AP)	28
POPULATION ESTIMATE								
Balance Forward		38374	33134					
Total Troops to be Landed	38374	20000	12325			(Less Replacements)		70699
SUB-TOTAL	38374	58374	45459					
Withdrawals		25240						25240
Estimated Population	38374	33134	45459*	45459	45459	45459	45459	
ESTIMATED DISCHARGE CAPABILITIES IN M/T.	30000	30000	30000	30000	30000	30000	30000 (Based on very meager information)	

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

Tactical Troops	@ 3 M/T per man	28374 X 3 -	85122
	@ 5 M/T per man	3134 X 5 -	15670
Garrison Troops	@ 10 M/T per man	42325 X 10 -	423250
			524042

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	30700	26507	36367	36367	36367	36367	36367	
Build up Supply Level **		12549	12000	12000	12000			
Military Gov't.		450	450	450	450			
Tactical Troops in Assault Shipping	100122							(
M/T for Garrison Lift	20000	80784	80784	80784	80784	80784		(524042
(For Ships **		120290	129601	129601	129601	117151	36367	
TOTAL (less Build-up)		(12549)	(12000)	(12000)	(12000)			
(For Unloading Capacity	150822	107741	117601	117601	117601	117151	36367	
Lifted in Assault Shipping	100122							
Lifted in Garrison AP	6000	30000	18000			2000		
Lifted in AK	60851	90290	111601	129601	129601	115154	36367	
AK's Required	9	10	12	15	14	13	4	
AK's Involved (120 Day Turn Around)	9	19	31	46	51	54	46	

* Used as basis for supply level.

** Used in computing AK's required; Build-up Supply tonnages are planned to be landed on OKINAWA since KIKAI JIMA's beach capacity is inadequate.

5. CONTEMPLATED DEVELOPMENT

a. AIRFIELD DEVELOPMENT

(1) OKINO DAITO JIMA is too small for even a fighter strip in the prevailing wind direction and none is planned.

(2) KUME SHIMA has only one area suitable for dispersed airfields, the western tip of the island. Information is fragmentary but indicates that only two parallel fighter strips about 4500 feet long and 1000 feet apart can be accommodated, as shown on Supplement 3 to this Annex. Coral is available for surfacing. Solid rock and the topography appear to render the amount of grading to construct bomber fields prohibitive. If subsequent photo coverage confirms the unavailability of a VLR airfield site selection of another objective for this purpose is to be expected. For planning purposes logistic support of the alternate objective may be assumed to be the equivalent of that for KUME.

(3) MIYAKO JIMA has been described as "ideal" for airfields. Its flat surface appears to offer 6 or 7 possible sites for 7,000 foot fields. On 10 October 1944 three fields existed with a total of six runways, four having lengths of 4,000 to 5,500 feet. Both approach conditions and grading possibilities are favorable to further construction. As shown in Supplement 4 to this Annex development is contemplated as follows:

Four 7,000 foot strips, one per VLR Group, arranged in pairs.

Two fighter fields totalling three 5,000 foot strips, one field per Fighter Group plus one VF(N) or VMTB squadron.

Further intelligence may later dictate another arrangement but the above is considered a conservative estimate of the island's potentialities.

(4) KIKAI JIMA is known to have one existing airfield, approximately 4500 feet long, situated near WAN. As shown on Supplement 5 to Annex 2 of Appendix H the island's coastal plains offer the best additional sites and four fighter fields are contemplated. The terrain is

satisfactory and coral is readily obtainable for surfacing. Cross-drainage from inland slopes, particularly on the eastern coast sites, is expected to be the greatest problem. Several small villages will have to be removed complicating somewhat the care of civilians.

b. NAVAL FACILITIES

(1) At OKINO DAITO JIMA no naval facilities other than a GROPAC and a LORAN station are planned. Detailed composition of the GROPAC, to have 192 personnel, is given in Supplement 1 to Annex 3 of Appendix H; its principal components are Administration, Boat Pool, Surface Radar and Boat Repair units.

(2) KUME SHIMA's anchorage, SHIMAJIRI WAN, although relatively small warrants development and support. The components of this development, principally a standard GROPAC, a Boat Pool, a Harbor Entrance Control Post and allied harbor protection units are listed in Supplement 2 to Annex 3 of Appendix H. The aggregate personnel complement of the Naval Base will be 704.

(3) MIYAKO JIMA also has an anchorage worthy of development, and installation of an 848-man naval base consisting of forty-two components plus a 600-man boat pool is contemplated. The forty-two components, largest of which are the Port Director, Supply and Dispensary units, are listed in Supplement 3 to Annex 3 of Appendix H.

(4) KIKAI SHIMA will be the site of a GROPAC, to serve the small harbor at SOMACHI, and two PT Operating Bases. Twenty-six components, listed in Supplement 4 to Annex 3 of Appendix H, make up the 459-man GROPAC. Use of a 300-man Boat Pool is also contemplated.

c. HARBOR DEVELOPMENT AND WATERFRONT FACILITIES

(1) OKINO DAITO JIMA. Reconstruction of the phosphate loading pier and moorings will probably require augmentation by some device such as shore ramps and the use of LSTs to supply this island adequately. Lack of protected waters renders the use of pontoon piers doubtful.

No nets or underwater detection devices are considered necessary if the contemplated surface search radar can be augmented by anti-submarine craft. A GROPAC will provide essential waterfront services.

(2) KUME SHIMA. Although the initial assault on this Island will utilize GIMA KO, the limited potentialities of this harbor warrant only minor development as compared to SHIMAJIRI WAN to the southeast. A very narrow embayment in the coral of GIMA KO affords deep water as far as HANA SAKI, but the construction of wharves would be required to accommodate efficiently any but light craft. For use of GIMA KO as only a light craft anchorage no fixed underwater detection gear is contemplated. A slip mooring for a patrol vessel, however, will be required off the harbor entrance so that the patrol craft may use its detection gear free of engine noises while retaining a good position for interception.

SHIMAJIRI WAN is better suited for large ship discharge and is considered adequate for the island's needs. Should any major installation be added to the two fighter strips, however, clearing of the numerous coral heads in the bay will be necessary. For harbor protection the following is contemplated:

Torpedo net from TOKUSHIMA BISE to HANAREGAA BISE, with tug operated gate.

Sonobuoys on an arc 2 miles distant from the entrance, later supplemented by a herald southeast of HANAREGAA BISE.

A Harbor Entrance Control Post with underwater detection station and surface search radar on SHIMAJIRI SAKI.

These positions are shown on Supplement 3 to Annex 2 of Appendix H.

Waterfront facilities will be provided by a GROPAC. Pontoon piers will be installed for discharge of small craft but wharfage for AK type vessels does not appear feasible.

(3) MIYAKO JIMA. 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 4 to Annex 2 of Appendix H, will include:

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

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

A surface search radar at the above post.

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.

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

Channel buoys and channel entrance range.

Shore facilities to serve the harbor will be included in a CUB at HIRARA, and the installation of pontoon piers there is contemplated.

Additional possibilities, awaiting confirmation by later intelligence data, include a tanker mooring in the bay east of HIRARA and a secondary anchorage for about ten ships east of KURUMA JIMA. Should weather conditions prove favorable these bays, although relatively exposed, will be enclosed by nets and utilized.

(4) KIKAI SHIMA. The harbor of SOMACHI HAKUCHI, roughly only 800 yards by 500 yards in area, is the only anchorage potentially useful. Three sets of bow and stern moorings for small vessels and six pontoon wharves will be the maximum practicable development. Use of the large roadstead anchorage outside the harbor will be necessary, requiring installation of torpedo nets arranged in baffles as shown

on Supplement 5 to Annex 2 of Appendix H. Gates for emergency exit must be incorporated in the net baffles. Considerable depths close off-shore render fixed underwater detection devices inadvisable; constant patrol by anti-submarine craft will be necessary. Harbor service facilities ashore will be provided by a GROPAC at SOMACHI.

CONTEMPLATED DEVELOPMENT - ICEBERG PHASE III

d. REQUIREMENTS

PROJECT	TOTAL BATT MOS OPER'L. COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST. TRPS. REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	CONST. DAYS FOR FINAL COMPLETION	CONST. EQUIP. M/T (Organic)	CONST. MATL. M/T
OKINO DAITO JIMA			USCG Pers.				
LORAN STA.			36			1000	200
GROPAC			¼ NCB (Pl) 279	As landed	180	2240	10964
TOTALS			315			3240	11164
KUME SHIMA (For Tentative Planning Purposes only pending selection of new sites due to apparent inadequacy of KUME SHIMA).							
1 AIRFIELD (New) 2 VLR Groups (90 Planes) 2 Strips 7000'x150'	5.25	16.5	2 Eng.Avn.Bns 1610	75**	230	21300	17300*
1 AIRFIELD (New) 2 VF Groups 1-VF(N)SQD (234 Planes) 2 Strips 5000'x150'	1.7	7.4	1 Eng.Avn.Bn 805	50**	225	7700	10570*
GROPAC			1/2 NCB (Pl) 558	As landed	180	4480	10964*
ROADS			Eng.Const.Bn 944		180	7200	
Spec. Const. Equip. Crushers, Distributors, etc.							556
TOTALS			3917			40680	39390
			3 Eng.Avn.Bns ½ NCB (Pl) 1 Eng.Const.Bn.				

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

PROJECT	TOTAL BATT MOS OPER'L. COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST. TRPS. REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	CONST. DAYS FOR FINAL COMPLETION	CONST. EQUIP. M/T (Organic)	CONST. MATL. M/T
MIYAKO JIMA							
AIRFIELD NO. 1 (Existing) 2 VLR Groups (90 Planes) 2 Strips 7000'x200' 1 New Strip 1 Strip Rebuilt & Ext'd.	4.6	16.5	3 Eng.Avn.Bns 2415	50**	162	23100	17300*
AIRFIELD NO. 2 (Existing) (Activated 5 days after seizure) 1 VF Group-111 Planes 1 VF(N) Sqd. 12 Planes 2 Strips to be extended to 5000'x150'	1.5	4.8	1 Eng.Avn.Bn 805	45**	144	7700	7090*
AIRFIELD NO. 3 (New) 1 VF Group-111 Planes 1 VMTB Sqd. - 18 Planes 1 Strip 5000'x150'	1.7	4.8	1 Eng. Avn. Bn 805	50	142	7700	7090*
AIRFIELD NO. 4 (Existing) 2 VLR Groups - 90 Planes 2 Strips 7000'x200' 1 New Strip 1 Strip Rebuilt & Ext'd	4.6	16.5	3 Eng.Avn.Bns 2415	50**	162	23100	17300*
CUB			2 NCB (Pl) 2230	As landed	180	17920	28800
Roads			Eng.Const.Bn 944		180	7200	
Spec. Const. Equip Asphalt, Plant, Crushers, Pavers, Distributors							3000
TOTALS						86720	80580

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

PROJECT	TOTAL BATT MOS OPER'L. COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST.TRPS. REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	CONST. DAYS FOR FINAL COMPLETION	CONST. EQUIP. M/T (Organic)	CONST. MATL. M/T
KIKAI JIMA							
AIRFIELD NO. 1 (Under Const.) 1-VF Group-111 Planes 1-VF(N) Sqd-12 Planes Strip 4500'x150'	1.2	3.7	1 Eng. Avn. Bn 805	35**	110	7700	5800*
AIRFIELD NO. 2 (New) 1 VF Group-111 Planes Strip 5500'x150'	1.6	3.8	1 Eng. Avn. Bn 805	50**	115	7700	5300*
AIRFIELD NO. 3 (New) 1-VF Group-111 Planes 1-VF(N) Sqd.-12 Planes Strip 5500'	1.6	4.0	1 Eng. Avn. Bn. 805	50**	120	7700	5600*
AIRFIELD NO. 4 (New) 1-VF Group-111 Planes 1-VMTB Sqd-18 Planes Strip 5500'x150'	1.6	4.0	1 Eng.Avn.Bn 805	50**	120	7700	5600*
GROPAC			½NCB (Pl) 558	As landed.	180		10964*
ROADS			Eng.Const.Bn. 994		180	7200	
2 PT Bases	2.0	4.0	INCB (Pl) 1115	30	60	8960	10400
Special Const. Equip. Distributors (Asphalt)							100
TOTALS			5837			46960	43764
GRAND TOTAL (All Four (4) Locations)			19683			177600	174898

* Includes tonnage for replacement huts for hospital wards and flight personnel.

** One strip / 20% taxiways and hardstands and minimum facilities.

[redacted]

6. MEDICAL FACILITIES AND EVACUATION POLICY

a. ESTIMATE OF CASUALTIES

Type of Casualty	OKINO	KUME	MIYAKO	KIKAI
Dead and Missing	160	800	2400	1000
Local Hospitalization	150	800	2400	500
Requiring Evacuation	490	2400	7200	3500
Totals	800	4000	12000	5000

b. EVACUATION

(1) Casualties from OKINO will be evacuated directly to the MARIANAS, by surface only. An AH or APH will be provided for emergencies and evacuation. From all other objectives evacuation by surface is contemplated and by air when airfields are available, to the MARIANAS and OKINAWA. MIYAKO casualties will also be sent to the PHILIPPINES upon advance arrangement by Cincpoa with CinCSWPA. Bed credits required:

	OKINAWA	MARIANAS	PHILIPPINES
OKINO	-	490	-
KUME	1000*	1400	-
MIYAKO	500*	2000	4500
KIKAI	1000	2500	-
Totals	2500	6390	4500

* (Staging, enroute MARIANAS or PHILIPPINES).

(2) Surface ships required:

Objective	No. and Type Ship	Total Capacity
OKINO	1 AH or APH	500
KUME	2 AH	1000
	24 LST or 10 APA	1400
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

In the assault phase at all objectives medical units of the assault force will provide hospitalization. Garrison hospitalization requirements will be as follows:

OKINO	150 beds.
KUME	1025 beds.
MIYAKO	3050 beds.
KIKAI*	1850 beds.

* With a 15-day evacuation policy.

d. CARE OF CIVILIANS

Objective	Estimated Casualties	Medical Service by
OKINO	150	Med. Units of Assault Force.
KUME	1300	Mil. Govt. Units - 100 beds.
MIYAKO	6000	Mil. Govt. Units - 600 beds.
KIKAI	1800	Mil. Govt. Units - 150 beds.

7. LOGISTIC SUPPORT FOR THE FLEET

In addition to the harbors to be utilized in Phases 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	4,200,000 bbls.
L + 90 to L - 120	5,100,000 bbls.

In the event the British Pacific Fleet takes part in this operation fuel requirements will be increased by approximately 700,000 barrels for each of the above periods. All other aspects of logistic support for the Fleet for Phases 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 ComGenTENTHArmy 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 resupply 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 ComGenTENTH Army 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. ComGenTENTH Army is authorized to distribute stocks among various islands to maintain the prescribed total and stock level.

d. RESERVE SUPPLIES

Since Phase III forces are largely redeployed from Phase I, 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 with 30 days of Class III (less Avgas) supplies in drums as follows: (Approximately 30 days supply for 50,000 troops)(12 days approximately for all garrisons at all 4 targets).

Mogas	17,000 Drums	Greases in Pounds	
White Gas	4,000 "	2-107	17,500
Diesel	8,500 "	2-108	6,250

Kerosene	350	Drums	2-109	2,000
Avlube 1120	300	"	2-110	1,250
SAE 10 lube oil	50	"	Gear Lube	
SAE 30 lube oil	850	"	SAE 90	47,650
SAE 50 lube oil	150	"		

This ship to arrive at OKINAWA by L / 70 and to be held in reserve for Phase III on call of Commanding General 10th Army. If these supplies are not used sooner, they will be discharged at OKINAWA by L / 120 and constitute drummed reserves.

(2) Avgas and related Avlube, drummed:

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.

(3) All products, bulk:

No AOGs in addition to those provided for Phases I and II are considered necessary for Phase III. However, ComServPac will have four additional YOGLs (all non self-propelled) available to ComGen10thArmy upon prior arrangement with ComServPac.

To reduce handling of drums to a minimum, AOGs are to be at targets, and installation of flexible pipelines, submarine lines and temporary bulk storage ashore near landing beaches, is to be commenced in initial assault, or as soon after assault as possible.

e. METHOD OF SUPPLY

(1) OKINC.

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 expeditionary troops employed in Phase IIIa will be provided by ComGen10thArmy on call of Commander Expeditionary Troops Phase IIIa and will constitute the first resupply shipment. These supplies will be loaded on the WEST COAST, will sail at such time as to arrive ENIWETOK by T-15 (L / 45) and will be loaded for optional discharge in one ship also carrying Phase I and/or Phase II maintenance supplies, to sail with one of the regular OKINAWA maintenance shipments. It will be

held at ENIWETOK for forward movement on call of ComGenlOthArmy. Subsequently, ComGenlOthArmy will be responsible for the resupply of the landing and garrison forces, utilizing stocks and vessels available locally to him. The regular OKINAWA maintenance shipments will include supplies necessary for the support of the OKINC Forces. No bulk storage of Mogas and Diesel is considered necessary for this island; all units stationed there will be supplied with Class III products (less Aviation) in drums, trans-shipped from OKINAWA, with special consideration to operative requirements of LORAN equipment.

(2) KUME JIMA.

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 K ∕ 35 (L ∕ 105) will be loaded on the WEST COAST and will sail at such times so as to arrive at ENIWETOK at K - 15 (L ∕ 55). This shipment will sail from the 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 on call of ComGenlOthArmy and will constitute the first re-supply shipment for Phase IIIb.

The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing K - 5 (L ∕ 65) and accompanying regular OKINAWA maintenance shipments. These shipments will be held at ENIWETOK for forward movement on call of ComGenlOthArmy. 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 these area levels.

Assuming the VLR bomber field is operational by K / 75 and a fighter field by K / 50 Avgas requirements are estimated as follows:

K / 45	-	K / 60	629,000 gal. in bulk
K / 61	-	K / 90	5,195,000 gal. in bulk

These quantities and accompanying 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 bbls. Avgas storage will be available on this island by K / 45. 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 supplies (less Avgas, Mogas, and Diesel) until the prescribed levels are reached. Re-supply of Mogas and Diesel after the 3rd 15 day shipment will be in bulk; it is contemplated bulk storage for these products will be operative K / 15.

(3) MIYAKO JIMA.

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 (L / 125) will be loaded on the WEST COAST and sailed at such time or times so as to arrive at ENIWETOK at A - 15 (L / 75). This shipment

will sail from the 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 on call of ComGenlOthArmy and will constitute the first re-supply shipment for Phase IIIc.

The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing A - 5(L/85) and accompanying regular OKINAWA maintenance shipments. These shipments will be held at ENIWETOK for forward movement on call of ComGenlOthArmy. 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.

Assuming the four airfields to be developed on this island are activated as scheduled Avgas requirements are estimated as follows:

A / 5 - A / 30	822,500	gals plus related avlubes
A /31 - A / 60	3,517,500	" " " "
A /61 - A / 90	8,579,000	" " " "

Of these quantities the first 25 days supply will be required in drums - 15,519 drums of Avgas and 465 drums (24,645 gals.) 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.

(4) KIKAI JIMA.

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 (L ∕ 155) will be loaded on the WEST COAST and sailed at such time or times so as to arrive at ENIWETOK at F - 15 (L ∕ 105). This shipment will sail from the 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 on call of ComGenlOthArmy, and will constitute the first re-supply shipment for Phase IIId.

The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing F - 5 (L ∕ 115) and accompanying regular OKINAWA maintenance shipments. These shipments will be held at ENIWETOK for forward movement on call of ComGenlOthArmy. 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.

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

F / 35 - F / 60 1,776,800 gals. in bulk

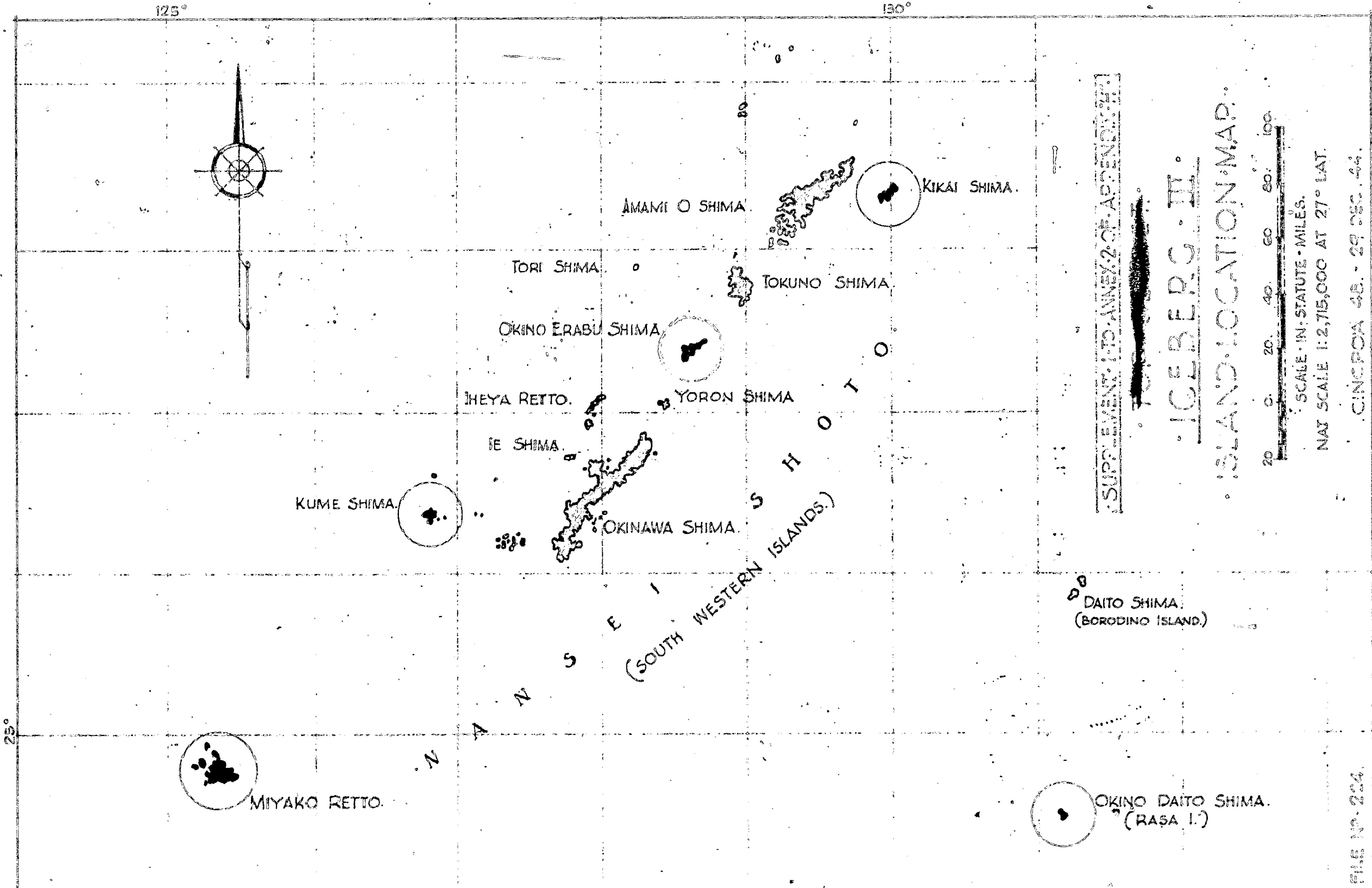
F / 61 - F / 90 3,850,000 gals. in bulk

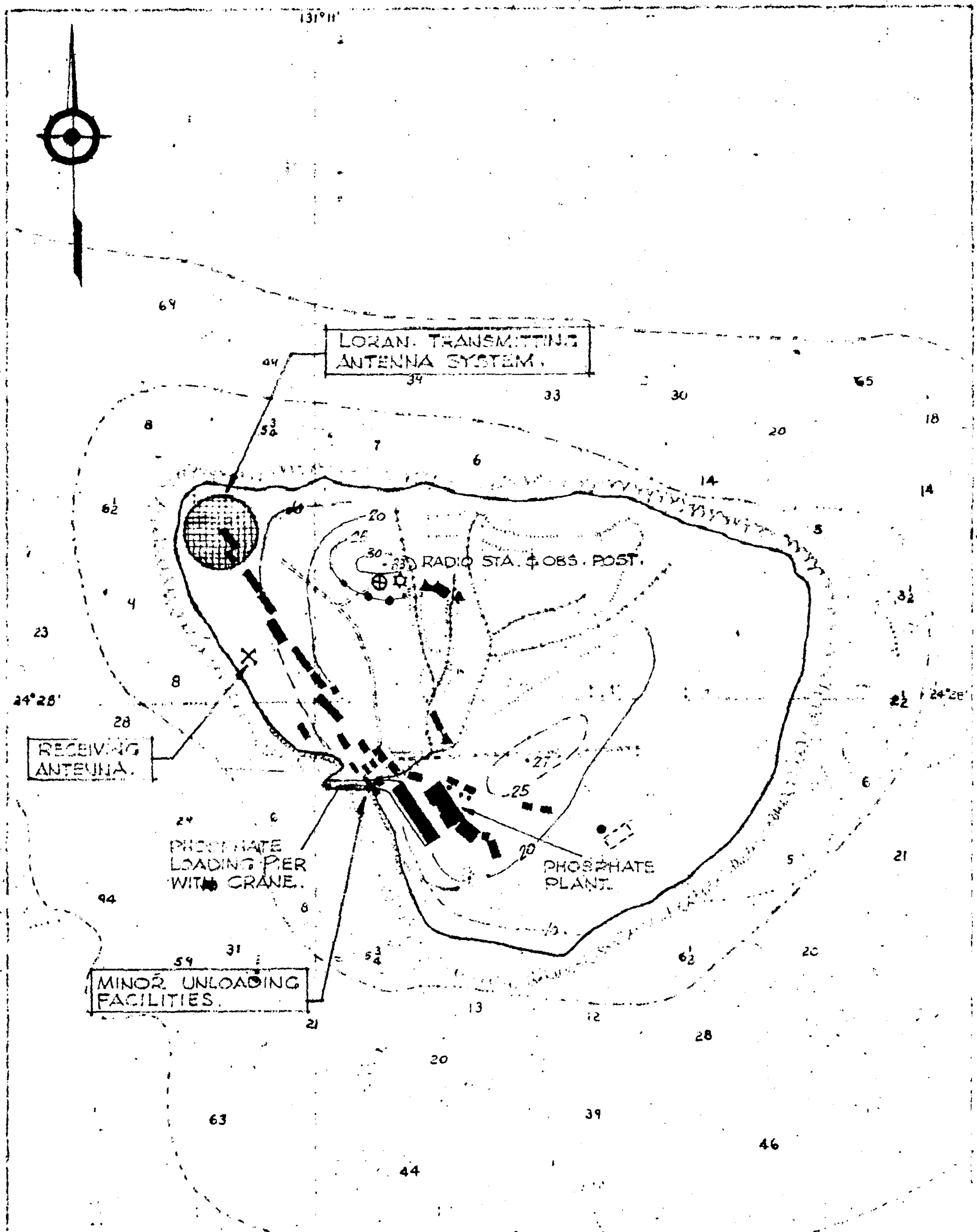
These quantities and related Avlubes will be delivered by ComServPac to the OKINAWA area prior to the respective periods shown, to be discharged as directed by ComGenlOthArmy. It is anticipated a minimum of 20,000 bbls. Avgas storage will be available on this island by F / 35. Re-supply shipments of 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.

(5) Individual shipping designators will be assigned to KUME, MIYAKO and KIKAI to facilitate these direct maintenance shipments.

9. MILITARY GOVERNMENT

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 the Troop List, Phase III.


125°
130°
25°
AMAMI O SHIMA
KIKAI SHIMA
TORI SHIMA
TOKUNO SHIMA
OKINO ERABU SHIMA
IHEYA RETTO
YORON SHIMA
IE SHIMA
KUME SHIMA
OKINAWA SHIMA
NANSEI SHOTO
(SOUTH WESTERN ISLANDS)
DAITO SHIMA
(BORODINO ISLAND)
MIYAKO RETTO
OKINO DAITO SHIMA
(RASA I.)
SUPPLEMENT 1 TO ANNEX 2 OF APPENDIX "H"
[redacted]
ICEBERG III
ISLAND LOCATION MAP
20 0 20 40 60 80 100
SCALE IN STATUTE MILES.
NAT SCALE 1:2,715,000 AT 27° LAT.
CINCPOA 48. - 29 DEC. 44.
FILE No. 224.



NOTE.
ISLAND OUTLINE, ROAD SYSTEM & GEN. DETAIL FROM AMS L 791, 1:50,000. MAP. HYDROGRAPHY FROM U.S.H.O. CHART # 5547. DETAIL ADDED FROM JICPOA SKETCH MAP, SHEET "A" OF PACIFIC REPORT No. 347.

SUPPLEMENT 2 TO ANNEX 2 OF APPENDIX "H"

[redacted]

OKINO DAITO SHIMA

STUDY FOR BASE LAYOUT.

1000 0 1000 2000

GRAPHIC SCALE IN FEET.

SOUNDINGS IN FATHOMS.
ELEVATIONS IN METERS.

FILE No.
225

CINCPOA 48. 13rd 29 DEC. 44.

AIRFIELD Nº 1.
TWO NEW RUNWAYS - 4500 FT.
2 VF. GROUPS - 222 PLANES.
1 VF(N) SQDN. - 12 PLANES.

AKAMORI SAKI.

NOTE.
ISLAND OUTLINE, ROAD SYSTEM &
GEN. DETAIL TRACED FROM AMS L 791
1:50,000 MAPS. HYDROGRAPHY FROM
U.S.H.O. CHARTS Nos. 2338 &. 2881.

AIRFIELD DEVELOPMENT INDICATED IS MAXIMUM POSSIBLE BASED ON PRESENT INTELLIGENCE. AERIAL COVERAGE MAY REVEAL POSSIBILITY OF ADDITIONAL DEVELOPMENT FOR VBH.

UNLOADING FACILITIES.

GIMA

O-SHIMA

OHA-SHIMA

SHIMAJIRI

SHIMAJIRI WAN.

SHIMAJIRI SAKI.

NAVAL BASE

1. INDICATES LANDING BEACH & NUMBER

GRAPHIC SCALE IN FEET
5,000 0 5,000 10,000 15,000 20,000

GRAPHIC SCALE IN STATUTE MILES
0 2 3 4

NATURAL SCALE 1:50,000
SOUNDINGS IN FATHOMS
ELEVATIONS IN METERS

KUME SHIMA
STUDY FOR BASE LAYOUT.

FILE Nº 228.
Drawn By: EJE 27 Dec 1944

CINCPOA 48. - 29 DEC. 44.

NOTE.
ISLAND OUTLINE & HYDROGRAPHY TRACED FROM U.S.H.O CHART # 5308.
ROAD SYSTEM & EXIST. AIRFIELD LOCATIONS FROM SKETCH. MAP. ENCL "A", CINCPAC-CINCPOA P.I. REPORT No. 449.

IKEMA JIMA

IRIHIANNA ZAKI

MIYO ZAKI

OKAMI JIMA

MIYAKO HAKUCHI

ANCHORAGE.
32 600 YARD BERTHS

AIRFIELD Nº 1.
EXISTING FIELD TO BE REBUILT FOR DOUBLE 5000 FT. RUNWAYS.
2 VLR. GROUPS - 60 PLANES.

H.E.C.P.

YERABU

JSHIMO ZAKI

SHIPS MOORINGS

JIMA

HIRARA

NAKAZONE

NAVAL BASE

TANKER MOORING

SUNAHAMA ZAKI.

SHIMOJI JIMA

AIRFIELD Nº 2.
TWO EXISTING RUNWAYS LENGTHEN TO 5000 FT.
1 VF. GROUP - 111 PLANES
1 VF(N) SQDN - 12 PLANES.

NAGAMA.

HIKA

MIYAKO

ARAGUSUKU.

JUNK BAY.

JIMA

BORA.

OROKA

HIANNA ZAKI.

1. INDICATES LANDING BEACH & NUMBER.

AIRFIELD Nº 4.
EXISTING FIELD TO BE REBUILT FOR DOUBLE 5000 FT. RUNWAYS.
2 VLR. GROUPS - 60 PLANES.

AIRFIELD Nº 3
NEW FIELD. SINGLE RUNWAY 5000 FT.
1 VF GROUP - 111 PLANES
1 VMTB. SQDN. - 18 PLANES

TANKER MOORING

KURUMA JIMA

NOTE: BECAUSE NEITHER TOPO. MAPS NOR GOOD VERTICAL PHOTO COVERAGE OF THIS ISLAND IS AVAILABLE AT THIS TIME, AIRFIELDS CANNOT BE LOCATED WITH CERTAINTY.

MIYAKO JIMA

STUDY FOR BASE LAYOUT.

1 ½ 0 1 2 3 4 5

SCALE IN STATUTE MILES.
SOUNDINGS IN FATHOMS
ELEVATIONS IN FEET.

FILE Nº 226.

CINCPOA 48 - 29 DEC 44.

NOTE:
ISLAND OUTLINE, ROAD SYSTEM & GEN. DETAIL TRACED FROM AMS L 791, 1:50,000 MAP. HYDROGRAPHY FROM U.S.H.O. CHART # 5304. EXISTING AIRFIELD LOCATION FROM SKETCH MAP, ENCL "B," CINCPAC-CINCPOA REPORT No. 447.

AIRFIELD No. 2.
NEW RUNWAY - 5500 FT.
1 VF GROUP - 111 PLANES.

AIRFIELD No. 1.
EXISTING AIRFIELD - RUNWAY TO BE COMPLETED 4500 FT.
1 VF GROUP - 111 PLANES
1 VF(N) SQDN. - 12 PLANES.

AIRFIELD No 3
NEW RUNWAY - 5500 FT.
1 VF GROUP - 111 PLANES.
1 VF(N) SQDN. - 12 PLANES.

AIRFIELD No 4.
NEW RUNWAY - 5500 FT.
1 VF GROUP - 111 PLANES.
1 VMTB SQDN. 18 PLANES.

ONOTSU.
SHITOOKA.
NAKAMA.
SOMACHI
SOMACHI HAKUCHI.
NAVAL BASE.
WAN
ARAKI
TEKUZUKII.
Airfield under construction

NOTE: RUNWAYS FOR ESCORT FIGHTERS TO BE 7500 FT. LONG WHERE POSSIBLE.

(1.) INDICATES LANDING BEACH & NUMBER.

KIKAI-SHIMA.

STUDY FOR BASE LAYOUT.
AIRFIELD SITES.

1. ½ 0. 1. 2.
SCALE IN STATUTE MILES.
SOUNDINGS IN FATHOMS
CONTOUR ELEVS. IN METERS

FILE No. 227.

CINCPOA 48. - 29 DEC. 44.

ICEBERG III

CHECK LIST OF ENGINEERING INTELLIGENCE

Island	Hydrographic Office Chart No.	Army Map Service Map No.	Strategic Engineering Study No. 119 (C of E. U.S.A.) Volume and Page	ONI 60 Page	Cincpac-Cincpoa Information Bulletin	Reconnaisance Photos Jicpoa No.	Photographic Intelligence Reports
Kikai	US H. O. #5304	AMS L791 Sheet #29	II: 238,239,280,281,334, 335,372,404,405	197,198, 199	"Amami Gunto" Bull. No.163-44 pp. 22-28	7534-2,7535-2. 7536-2,7537-3, 7538-3	Cincpac-poa No. 447 (map)
Kume	US H. O. #2581 #2338	AMS L791 Sheets 54, 55,60	I: 22,23,24,25,26,27,66,67, 68,69,70,71,100,101,120, 121,122,123,124,125,156, 158,160,192,193,194,195, 196,197	106,109, 110 (map)	"Okinawa Gunto" Bull. No. 161-44 pp.58-61	7752-1,7561-46, 12020-2	Cincpac-poa Nos. 450,451
Miyako	US H. O. #5308 #1940	None	I: 20,21,64,65,118,119,154, 190,191	71,72,75, 76,77 (map)	"Sakishima Gunto" Bull. No. 162-44 pp. 25-36	7674-1,7675-1, 7676-1,7677-2, 7678-2,7679-2. 7680-3,7682-5, 7683-5,11323-6, 11324-6,11325-6, 11326-7,11327-8, 11328-8,11934-9, 11935-10,11936-11, 12021-12	Cincpac-poa Nos. 450,451
Okino Daito	US H. O. #5349	AMS L791 Sheet #69	I: 44,45,86,140,141,176,212, 213	95,96	"Nansei Shoto" Bull. No. 63-44 pp. 21	6959-1,7655-3, 11329-4,11331-6, 11332-6,11330-5, 12025-7	Prisic #349/ Hq. Comdr. Shore Based AF, Forward Area, Cent.Pac.F.I. Memo No. 47/ Interpron 2 No.219

NOTE: The "Revised Estimate of Nansei Shoto" by the Joint Intelligence Study Publishing Board, Washington, 1 August 1944, contains maps and other pertinent material.

File No. 262

Cincpoa 48
6 February 1945

Supplement 6 to Annex 2 of Appendix H

ANN

ICEBERG PHASE III

ANNEX 3 TO APPENDIX H

TROOP LIST

S U M M A R Y O F P E R S O N N E L

ASSAULT FORCES

(a) Total	148,075
(b) To be used in Garrison Force	36,737
(c) To be withdrawn	111,338

GARRISON FORCES

(a) To be moved to area after assault	123,997
(b) To be provided by Assault Force	36,737
(c) Total	160,734

THIS LIST OF ASSAULT AND SUPPORTING SERVICE TROOPS IS DEEMED THE MINIMUM FOR ACCOMPLISHMENT OF PHASE III OF THIS OPERATION. UNITS TO BE REDEPLOYED FROM PHASE I ARE SO INDICATED, BUT AVAILABILITY OF OTHER UNITS HAS NOT BEEN DETERMINED. NOTE THE REPLACEMENT OF VBH UNITS BY VLR UNITS THROUGHOUT PHASE III.

ANNEX 3 TO APPENDIX H

SUMMARY - ICEBERG TROOP LIST - PHASE IIIa

OKINO DAITO JIMA

Units	ASSAULT Army	Navy	Marine	Total	GARRISON Army	Navy	Marine	Total	Differences Assault and Garrison Decreases	Increases
COMBAT										
Headquarters						49		49		49
Battalions			3218	3218	1070			1070	3218	1070
A.A. Artillery			295	295	445			445	295	445
Artillery			602	602	396			396	602	396
Armored			346	346	30			30	346	30
Chemical Warfare	136			136					136	
Total Combat	136		4461	4597	1941	49		1990	4597	1990
SERVICE										
Engineers		557	206	763		279		279	484	
Medical			204	204	125			125	204	125
Ordnance			46	46	110			110	46	110
Quartermaster			514	514	162			162	514	162
Signal	158		167	325	229	35		264	167	106
Military Police			26	26	44			44	26	44
Adjutant General					9			9		9
Transportation	219		585	804	219			219	585	
Naval Base Units						344		344		344
Military Government		40		40		75		75		35
Total Service	377	597	1748	2722	898	733		1631	2026	935
OKINO Total	513	597	6209	7319	2839	782		3621	6623	2925

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ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - THREADWORM

January 1945

Unit	T/O	ASSAULT Army	Navy	Marine	GARRISON Army	Navy	Marine	Remarks
IS COM HQ	A-3, N3A					1 49		
INFANTRY REGT	F-10			1 3218				
INFANTRY BN (reinf)	7-15				1 1070			
A.A. ARTILLERY								
AAA A/W Btry	E-172			1 295				
AAA Gun Btry	44-17				1 150			Light AA Gp. AAA Bn
AAA A/W Btry	44-127				1 164			
AAA S/L Plat	44-138				1 91			From Phase I
HQ & HQ Det AAA Gun Bn	44-116				1 40			
	Total			295	445			
ARTILLERY								
F.A. Bn (105 How)	F-25			1 602				
155 MM Gun (CA) Bn (- 1 Btry)	4-55				1 300			
F.A. Btry (105 MM)	6-27				1 96			
	Total			602	396			
ARMORED								
Med Tank Co	F-76			1 169				
LVT (A) Co	F-1016			1 177				
Med Tk Plat	17-27				1 30			
	Total			346	30			
CHEMICAL								
Chemical (MTZD) Co	3-27	1 136						
	Total	136						

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ENGINEER								
Naval C Bn	P-1		½ 557			¼ 279		
Pioneer Co	F-36			1 206				
Total			557	206		279		
MEDICAL								
Medical Co	F-51			2 204				
Sta Hosp (150)	8-560				1 100			
Malaria Control Unit					1 12			From Phase I
Malaria Survey Unit					1 13			From Phase I
Total				204	125			
ORDNANCE								
Ordnance Maint Plat	F-61			1 35				
Tank Maint Sec	F-61			1 11				
Ord Lt M Co	9-8				1 110			
Total				46	110			
QUARTERMASTER								
Supply and Service Plat	F-62			1 114				
Det Mar Fld Dep	E-770			1 400				
QM Comp Co	10-500				1 162			From Phase I
Total				514	162			
SIGNAL								
JASCO Det	E-518			1/3 167				
Det Sig Serv Co	11-500	1 62			1 121			
Sig Constr Plat	11-67	1 96			1 96			
Navy Comm Unit	-					1 35		
Radar Maint Det	11-167				1 12			
Total		158		167	229	35		

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ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - THREADWORM

January 1945

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
MILITARY POLICE								
M.P. Plat	F-90			26				
M.P. Plat ZI	19-57				1 44			
	Total			26	44			
ADJUTANT-GENERAL								
Army Postal Unit Type B	12-605				1 3			
Gar Censor	-				1 6			
	Total				9			
TRANSPORTATION								
Motor Transport Co	F-56			1 115				
Amph Trac Co	F-1015			2 284				
Amph Trk Co	E-705			1 186				
Port Co	55-117	219			1 219			
	Total	219		585	219			
NAVAL								
GROPAC	-					1 192		Includes Boat Pool (See attached schedule)
Loran Station	-					1 63		
Garrison Beach Party	-					1 89		After construction reduced to 35.
	Total				4	344		
CIVIL AFFAIRS								
Mil Govt A Det	-		1 14			1 14		
Mil Govt B Det	-		1 26			1 26		
Mil Govt Civ Camp Orgn	-					1 35		
	Total		40			75		
TOTALS -		513	597	6209	2839	782		
GRAND TOTAL ALL SERVICES		ASSAULT - 7319			GARRISON - 3621			

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ANNEX 3 TO APPENDIX "H"

SUMMARY - ICEBERG TROOP LIST - PHASE IIIb

KUME SHIMA	ASSAULT				GARRISON				Differences Assault and Garrison	
Units	Army	Navy	Marine	Total	Army	Navy	Marine	Total	Decreases	Increases
COMBAT										
Headquarters	--	--	--	--	505	35	--	540	--	540
Divisions	14063	--	--	14063	3206	--	--	3206	14063	3206
Aviation	--	--	--	--	6448	--	--	6448	--	6448
AA Artillery	801	--	--	801	3043	--	--	3043	801	3043
Artillery	--	--	--	--	970	--	--	970	--	970
Armored	1472	--	--	1472	117	--	--	117	1472	117
Chemical Warfare	596	--	--	596	--	--	--	--	596	--
Total Combat	16932	--	--	16932	14289	35	--	14324	16932	14324
SERVICE										
Signal	845	--	--	845	678	66	--	744	652	551
Chemical	--	--	--	--	18	--	--	18	--	18
Aviation	159	--	--	159	5194	--	--	5194	--	5035
Medical	399	87	--	486	1149	101	--	1250	376	1140
Ordnance	935	--	--	935	827	--	--	827	388	280
Engineer	2769	--	--	2769	5865	558	--	6423	2769	6423
Naval Base Units	--	89	--	89	--	793	--	793	--	704
Transportation	1835	--	--	1835	471	--	--	471	1364	--
Military Police	507	--	--	507	344	--	--	344	163	--
Quartermaster	1137	--	--	1137	1688	--	--	1688	--	551
Adjutant General	--	--	--	--	74	--	--	74	--	74
Military Government	--	42	--	42	--	92	--	92	--	50
Total Service	8586	218	--	8804	16308	1610	--	17918	5712	14826
KUME TOTAL	25518	218	--	25736	30597	1645	--	32242	22644	29150

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ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - KNOWLEDGE

January 1945

Unit	T/O	ASSAULT Army	Navy	Marine	GARRISON Army	Navy	Marine	Remarks
CIC DET	30-500				2 25			
IS COM HQ					1 480	35		
	Total				505	35		
AMPHIB. CORPS DIVISION	7-	1 14032						From Phase I
INFANTRY REGT	7-11				1 3206			From Phase I
G-2 TEAMS		1 31						
	Total	14063			3206			
AIR FORCES								
VF Grp Hqs	1-12				2 196			
VF Sqs (Army)	1-27				6 1872			
VF (N) Sqdns (Army)	1-67				1 288			
VLR Grp Hqs (Army)	1-112				2 210			
VLR Sqs	1-167				6 3882			
	Total				6448			
A.A. ARTILLERY								
AAA A/W Bn	44-25	1 801						
AAA Gun Bn	44-115				2 1234			
AAA A/W Bn	44-25				2 1602			
AAA Btry (- 1 Plat)	44-17				1 100			From Phase I
Hq & Hq Btry AAA Grp	44-12				1 65			
AAA Op Det	44-7				1 42			
	Total	801			3043			
ARTILLERY								
155 MM Gun (CA) Bn	4-55				1 488			
F.A. Bn (105 MM)	6-25				1 482			From Phase I
	Total				970			
ARMORED								
Tank Bn Medium	17-25	1 724						From Phase I
Tank Co Medium	17-27				1 117			From Phase I
AMPH Tk Bn	17-115	1 748						From Phase I
	Total	1472			117			

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
AVIATION SERVICE UNITS								
AAF JCC Det	-	1 50			1 50			
AACS Mobile Unit	1-447s	1 109			1 109			
M.P. Co Aviation	19-217				2 202			
Weather Det	-				1 47			
Aviation Sqdn	1-999				2 506			
Sta Comp Sqdn	1-497s				1 103			
Air Serv Grp Hqs	1-452(T)				4 1248			
Air Eng Sq	1-457(T)				4 1032			
Air Mat Sq	1-458(T)				4 568			
Hq & Hq Sq Air Depot Grp	1-852				1 190			
Depot Rep Sq	1-857				1 369			
Depot Sup Sq	1-858				1 131			
Med Sup Plat Avn	8-497				1 21			
QM Trk Co Avn	10-517				2 204			
QM Plat Air Depot Grp	10-427				1 24			
Cml Co Air Op	3-457				1 134			
Sig Co Depot Avn	11-287				1 189			
Det VF Control Sq	1-47				1 25			
Photo Lab Bomb Gp	1-119				2 42			
	Total	159			5194			
CHEMICAL								
Chem Bn Motorized	3-25	1 596						
Chem Sup Team Type II	3-500				1 18			
	Total	596			18			
ENGINEER								
Engineer (C) Bn	5-15	3 1911						From Phase I
Hq & Hq Co Eng (C) Grp	5-192	1 81						From Phase I
Eng Avn Regt (3 Bns)	5-411				1 2604			
Maintenance Co	5-157				1 191			
Dump Truck Co	5-88				3 321			
Eng Serv Bn Comp	5-500				1 579			

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ENGINEER (Continued)								
S/L Maint	5-500				1 3			
Eng Const Bn	5-75				2 1800			
NCB	P-1					½ 558		
Eng Avn Bn	5-415	1 777						
Eng Depot Plat	5-47				1 33			From Phase I
Eng Equip Co L	5-367				1 118			
Petrol Dist Co	5-327				1 216			
	Total	2769			5865	558		
MEDICAL								
Evacuation Hosp (Semi)	8-581	1 256						Less nurses
G-6(100 beds)Dispensary M.G.	G-6		1 87			1 87		
Port Surg Hosp	8-672s	2 74						From Phase I
Malaria Control unit	8-500	1 12						From Phase I
Malaria Survey unit	8-500	1 13						From Phase I
G-8 (25 bed) Dispensary M.G.	G-8					1 14		
Sta Hosp (500)	8-560				3 984			Includes 126 nurses to arrive on call.
Mal Control unit	8-500				1 12			New units not in assault from Phase I.
Mal Survey unit	8-500				1 13			New units not in assault from Phase I.
Med Sup Team	8-500	1 23			1 23			From Phase I.
Sanitary Co	8-117				1 112			
Vet Det Food Insp	8-500				1 5			
Surg Team	8-500	3 21						From Phase I.
	Total	399	87		1149	101		
ORDNANCE								
Heavy Maint Co Tk	9-37	1 202						
Maint Co (AA)	9-217	1 157			1 157			
Ammunition Co	9-17	1 186						
Hq & Hq Det Ord Bn	9-76	1 34			1 34			
Ord MM Co	9-7	1 162			1 162			

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - KNOWLEDGE

January 1945

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ORDNANCE								
Hv Auto Maint Co	9-197	- -			½ 101			
Ord Ammo (Avn) Co	9-19	- -			1 179			
Ord Depot Co	9-57	1 180			1 180			
Bomb Disposal Sq	9-179	2 14			2 14			
	Total	935			827			
QUARTERMASTER								
QM Trk Co	10-57	2 220			2 220			
QM Serv Co	10-67	3 636			3 636			
Plat QM Salv Coll Co	10-187	1 56			1 56			
QM Dep Sup Co (Less 1 Plat)	10-227	1 142			1 142			
Plat QM Gr Co	10-297	1 23			1 23			
Hq & Hq Det QM Bn	10-536	2 60			2 60			
QM Bakery Co	10-147				1 168			
QM Ldy Co	10-167				1 270			
QM Salv Repr Co(less 1 Plat)	10-237				1 113			
	Total	1137			1688			
SIGNAL								
JASCO	11-1475	502						From Phase I.
Det Sig Serv Co(JCC / S&R)	11-500	150			1 250			
Signal Constr Co Hvy	11-67	1 193			1 193			
Naval Comm Unit						1 66		
Sig Hvy Const Co Avn	11-67				1 193			
Det Sig Serv Bn (ACS)					1 22			
Radar Maint Units	11-617				3 20			
	Total	845			678	66		
ADJUTANT GENERAL								
Army Postal Unit Type M	12-605				1 29			
Base Censorship Det	-				1 20			
Special Serv Plat	28-17				1 25			
	Total				74			

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ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - KNOWLEDGE

January 1945.

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
MILITARY POLICE								
M P Co (Corps)	19-37	1 163						From Phase I.
M P Bn (less 2 Co) ZI	19-55	1 344			1 344			
	Total	507			344			
TRANSPORTATION								
Am Trac Bn	17-125	2 1004						From Phase I.
Port Cos	55-117	2 438			2 438			
Amph Trk Co	55-37	2 360						
Hq & Hq Det Port Bn	55-116	1 33			1 33			
	Total	1835			471			
NAVAL								
GROPAC and attached naval units	-					704		See attached schedule
Garrison Beach Party	-		1 89			1 89		
	Total		89			793		
MILITARY GOVERNMENT								
Interpreters						14		
Mil Govt A Det			1 15			1 15		
Mil Govt B Det			1 27			1 27		
Mil Govt Camp C Det						1 36		
	Total		42			92		
TOTALS		25518	218		30597	1645		
GRAND TOTAL ALL SERVICES			ASSAULT 25736			GARRISON 32242		

ANNEX 3 TO APPENDIX H

SUMMARY - ICEBERG TROOP LIST - PHASE IIIc

MIYAKO JIMA	ASSAULT				GARRISON				Differences Assault and Garrison	
Units	Army	Navy	Marine	Total	Army	Navy	Marine	Total	Decreases	Increases
COMBAT										
Headquarters			1097	1097	542	35		577	1097	577
Divisions, G-2, CIC	14113		34930	49043	14113			14113	34930	
Aviation					10905		340	11245		11245
AA Artillery	4564			4564	5943			5943		1379
Artillery	1032		4278	5310	1249			1249	5310	1249
Armored	2192		1704	3896	724			724	3172	
Total Combat	21901		42009	63910	33476	35	340	33851	44509	14450
SERVICE										
Aviation	99		294	393	11036		294	11330		10937
Chemical	729			729	403			403	596	270
Engineer	2418	2230	1007	5655	17010	2230		19240	1433	15018
Medical	374	261	464	1099	2284	331		2615	464	1980
Ordnance	2265			2265	1947			1947	687	369
Quartermaster	697		2500	3197	3998			3998	2619	3420
Signal	1299		1777	3076	925	85		1010	2279	213
Adjutant General					180			180		180
Military Police	798			798	829			829	35	66
Transportation	3016		2204	5220	1128	274		1402	4125	307
Naval Base Units		178		178		2029		2029		1851
Military Gov't		126		126	37	329		366	84	324
Total Service	11695	2795	8246	22736	39777	5278	294	45349	12322	34935
MIYAKO TOTAL	33596	2795	50255	86646	73253	5313	634	79200	56831	49385

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

January 1945

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
CORPS HEADQUARTERS (MAR)	F-850			1 1097				From Phase I.
IS COM HQ					1 542	35		
AMPHIBIOUS DIVISIONS (ARMY)	7	1 14032			1 14032			From Area Reserve.
AMPHIBIOUS DIVISIONS (MAR)	F-100			2 34930				From Phase I.
G-2 TEAMS		6 31			6 31			
CIC TEAMS		4 50			4 50			
	Total	14113		34930	14113			
AVIATION COMBAT UNITS								
Hq & Hq Sq Bomb Wg VLR	1-160-1				1 224			
Hq Bomb Group VLR	1-112				4 420			
Bomb Sq VLR	1-167				12 7764			
Photo Lab Bomb Gp	1-119				4 84			
Hq VF Grp	1-12				2 196			
VF Sq	1-27				6 1872			
VF (N) Sq	1-67				1 288			
Det VF Control Sq	1-47				1 57			
VMTB Sq (Mar)	D-103						1 340	
	Total				10905		340	
AA ARTILLERY								
AAA A/W Bn Army	44-25	3 2403			4 3204			
AAA Gun Bn Army	44-115	3 1893			3 1893			
AAA S/L Bn less 1 Btry.	44-135				1 578			
HQ & HQ Btry AAA Grp Army	44-12	2 146			2 146			
Opns Det AAA	44-7	1 42			1 42			
AAA HQ & HQ Btry, Brig	44-10-1	1 80			1 80			
	Total	4564			5943			
ARTILLERY								
HQ & HQ Btry Corps Arty	E-149			1 117				From Phase I.
155 MM Gun Bn	E-185			3 2211				From Phase I.
155 MM How Bn	E-135			3 1950				From Phase I.

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ARTILLERY (Continued)								
8" How Bn (Army)	6-365	1 586						
Observation Bn (FA)	6-75	1 446						
155 MM Gun (CA) Bn (Army)	4-55				2 1176			2 Bns plus one (1) Batter
HQ & HQ Btry C.A. Gp (Army)	4-62				1 73			From Phase I.
	Total	1032		4278	1249			
ARMORED								
Tank Bn (Med) (Army)	17-25	1 724			1 724			
Amph Tk Bn	17-115	1 748						
Armored Tk Bn	F-1020			2 1704				From Phase I.
Tank Bn - Armored Flame Thrower	17-25	1 720						
	Total	2192		1704	724			
AVIATION SERVICE UNITS								
A.W. Sqdn (Marine)	E-691			294			294	
Signal Co Wing VLR	-(11-247 (11-500				1 127			
AACS Mobile Unit	-(1-447s	99			1 135			
Serv Group Hq.	-(1-452-T				6 1872			
Air Material Sq	(1-453-T				6 852			
Air Eng Sq	(1-457-T				6 1548			
Aviation Sqdns	1-999				6 1518			
Chem Co Air Oper	3-457				2 268			
Chem Depot Co Avn	3-418				1 78			
Med Supply Plat Avn	8-497				2 42			
Ord Depot Co Avn	9-57				1 180			
Ord Maint Co Air Force	9-257				1 215			
QM Truck Co Avn	10-517				6 612			
QM Plat Air Depot Gp	10-427				2 48			
Sig Hvy Const Bn (less 1 co)	11-65				1 219			

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

January 1945

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
AVIATION SERVICE UNITS (Continued)								
Sig Co Dep Avn	11-287				2 378			
MP Co Aviation	19-217				5 505			
HQ & HQ Sq Air Depot Grp	1-852				2 380			
Depot Rep Sq	1-857				2 738			
Depot Sup Sq	1-858				2 262			From Phase I.
Sta Complement Sq	1-497s				2 206			
Det Weather Sq	1-627				1 95			
Cml Maint Co Avn	3-47				1 119			
HQ & HQ Co SAW	11-400				1 119			
Det Sig Serv Bn ACS	11-500				1 22			
Radio Sq Mob (J)	1-1027				1 448			
Det Sig Serv Bn JCC	11-500				1 50			
	Total	99		294	11036		294	
CHEMICAL								
Chemical Bn MTZ (Army)	3-25	1 596						
Chemical Gen Serv Co	3-137				1 130			
Chemical Smoke Gen Co	3-367	1 133			1 133			
Chem Processing Co	3-77				1 140			
	Total	729			403			
ENGINEER								
Engineer C Bn	5-15	3 1911			3 1911			
HQ & HQ Co Eng C Grp	5-192	1 81			1 81			
Eng Topo Bn	5-55	1 426						
Naval C.B.	P-1		2 2230			2 2230		
Avn Eng Regt (3 Bns)	5-411				1 6489			
Maint Co	5-157				2 382			
Dump Truck Co	5-88				8 856			
Eng Depot Plat	5-47				1 48			
Eng Const Bn	5-75				6 5400			

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

January 1945

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ENGINEER (Continued)								
Eng Serv Bn Comp	5-500				1 635			
C/L Maint	5-500				2 6			
Sep Eng Bn (Corps)	E-285			1 1007				
Water Sup Co	5-67				1 136			
HQ & HQ Co Cont Grp	5-72				1 94			
HQ HQ Co Base Depot	5-592				1 72			
Co Base Depot	5-267				1 165			
Co Base Equip	5-377				1 173			
Co Hevy Shop	5-357				1 171			
Plat Part Sup	5-567				1 57			
Co Petrol Dist	5-327				1 216			
Co Light Equip	5-367				1 118			
	Total	2418	2230	1007	17010	2230		
MEDICAL								
Corps Evac Hosp				2 464				From Phase I.
Field Hospital	8-510	1 212			1 212			Less Nurses.
Dispensary 100 bed M.G.	G-6		2 261			2 261		1 G-6(100 Beds) / 1 G-6 Aug to 500 beds.
Malaria Control	8-500	1 12			1 12			From Phase I.
Malaria Service	8-500	1 13			1 13			From Phase I.
Sta Hosp (1000)	8-550				1 506			83 nurses to come in later.
Sta Hosp (500)	8-560				4 1144			168 nurses to come in later.
G-7 (50) in Quonset Huts						1 70		
Port Surg Hosp	8-572s	2 74			2 74			
Sanitary Co	8-117				2 224			
Vet Det Food Insp	8-500				1 5			
Med Supply Team #5 (B5)	8-500				1 31			
Med Serv Det 9 teams	8-500	9 63			9 63			
	Total	374	261	464	2284	331		

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ORDNANCE								
Hvy Maint Co (Tk)	9-37	1 202			1 202			
Hvy Auto Maint Co	9-197	2 404			1 202			
Maint Co AA	9-217	1 163			1 163			
Ammunition Co	9-17	2 372			1 186			
Bomb Disposal Sqd	9-179	3 21			3 21			
Hq & Hq Det Ord Gp	9-12	1 51						
Hq & Hq Det Ord Bn	9-76	4 136			2 68			
Ord HM Field Army Co	9-9				1 190			
Ord MM Co	9-7	2 324			2 324			
Ord MAM	9-127	2 232			2 232			
Ord Depot Co	9-57	2 360			1 180			
Ord Ammo (Avn) Co	9-17	- -			1 179			
	Total	2265			1947			
QUARTERMASTER								
QM Trk Co (Augmented)	10-57	1 135			4 540			
QM Serv Co	10-67	2 424			8 1696			& for phase I
Plat QM Salv Coll Co	10-187	1 56						
Det QM Dep Sup Co	10-227	1 40						
Plat QM G.R. Co	10-297	1 23						
Hq & Hq Det QM Bn	10-56	1 19			5 95			
Mar Field Depot (Reinf)	E-770			1 2500				
QM Salv Coll Co(less 1 Plat)	10-187				1 132			X
QM Dep Sup Co	10-227				1 186			
QM G.R. Co (less 2 Plat)	10-297				1 84			
Hq & Hq Det QM Grp	10-22				1 31			
QM Bakery Co plus 2 Plat	10-147				1 250			
QM Ldy Co plus 2 Plat	10-167				1 400			
QM Steril Co	10-177				1 159			
QM Steril Co(less 1 Plat)	10-177				1 96			
QM Salv Rep Co	10-237				1 201			X
QM Gas Sup Co	10-77				1 128			
	Total	697		2500	3998			

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
SIGNAL								
Corps Sig Bn	E-530			1 777				From Phase I.
JASCO	E-518			2 1000				From Phase I.
JASCO	11-147s	1 502						
Sig Serv Co	11-500	1 250			1 378			
Sig Const Bn	11-65	1 437			1 437			
Det Sig Repair Co	11-127	1 46			1 46			
Det Sig Depot Co	11-107	1 24			1 24			
Naval Comm Unit						1 85		
Radar Maint Unit	11-617	6 40			6 40			
	Total	1299		1777	925	85		
ADJUTANT GENERAL								
Army Postal Unit Type K	12-605				3 75			
Base Censorship Det	-				1 80			
Special Service Flat	28-17				1 25			
	Total				180			
MILITARY POLICE								
M.P. Battalion less 1 Plat	19-55	1 606			1 600			
M.P. Co Corps	19-37	1 163			1 163			
M.P. Co Special	19-500				1 66			
P.O.W. Proc. Plat.	19-237	1 35						
	Total	798			829			
TRANSPORTATION								
Amph Trac Bn (Mar)	E-50			4 2024				From Phase I.
Amph Trac Bn	17-125	2 1004						
Amph Truck Co (Army)	55-37	5 900						3 from Phase I.
Port Cos	55-117	5 1095			5 1095			
Amph Truck Co (Mar)	E-705			1 180				
Hq & Hq Co Port Bn	55-116				1 33			

ICEBERG

ANNEX 3 TO APPENDIX H

TROOP LIST - PHASE III - ADJUTANT

January 1945.

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
TRANSPORTATION (Continued)								
Hq & Hq Co Amph Truck Bn	55-500	1 17						
Navy C.B. Spec	F-1					¼ 274		
	Total	3016		2204	1128	274		
NAVAL								
CUB	-					1448		
Garrison Beach Parties	-		2 178			2 178		
Truck Co (Navy)						1 150		
Base Co (Navy)						1 253		
	Total		178			2029		
MILITARY GOVERNMENT								
Mil. Govt A Det			3 45			1 15		
Mil. Govt B Det			3 81			1 27		
Mil. Govt Camp Organ C Det						5 180		
Mil. Govt D Det						1 82		
Camps, 250 man	N1A,N5C					1 25		
Interpreters					37			
	Total		126		37	329		
TOTAL		33596	2795	50255	73253	5313	634	

GRAND TOTAL ALL SERVICES

ASSAULT 86646

GARRISON 79200

ANNEX 3 TO APPENDIX H

SUMMARY - ICEBERG TROOP LIST - PHASE IIId

KIKAI SHIMA	ASSAULT				GARRISON				Differences Assault and Garrison	
Units	Army	Navy	Marine	Total	Army	Navy	Marine	Total	Decreases	Increases
COMBAT										
Headquarters					505	35		540		540
Divisions	2072		17465	19537	8031			8031	19537	8031
Aviation					5112		340	5452		5452
AA Artillery	1491			1491	4591			4591		3100
Artillery					976			976		976
Armored			852	852	570			570	852	570
Chemical Warfare					167			167		167
Total Combat	3563		18317	21880	19952	35	340	20327	20389	18836
SERVICE										
Signal	628		500	1128	860	64		924	500	296
Chemical					130			130		130
Aviation	129		294	423	6766		294	7060		6637
Medical	25	87	232	344	1235	157		1392	232	1270
Ordnance					928			928		928
Engineer		1115		1115	8461	1673		10134	1115	10134
Naval Base Units						1318		1318		1318
Transportation	438		1666	2104	1028			1028	1666	590
Military Police					298			298		298
Quartermaster	138		1200	1338	1953			1953	1338	1953
Adjutant General					25			25		25
Military Government		42		42	15	139		154		112
Total Service	1358	1244	3892	6494	21699	3351	294	25344	4851	23701
KIKAI TOTAL	4921	1244	22209	28374	41651	3386	634	45671	25240	42537

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION

January 1945..

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ISLAND COMDRS HQ					1 480	35		
CIC UNIT					1 25			
	Total				505	35		
AMPHIBIOUS DIVISION	F-100			1 17465				
INFANTRY DIV LESS 1 RCT AND 1 BCT	7-11				1 8000			From Phase I.
PARACHUTE REGT	7-31	1 2072						
G-2 TEAMS	-				6 31			
	Total	2072		17465	8031			
AVIATION UNITS								
Hq Night Fiter Gp	1-12				1 98			
VF Group Hq	1-12				4 392			
VF Sqdns	1-37				12 3744			
Hq & Hqs Fighter Wing	1-10-1				1 245			
VF(N) Sqdns (Army)	1-67				2 576			
VMTB Sqdns (Mar)	D-103						1 340	
Fiter Cont Sqdn Det	1-47				1 57			
	Total				5112		340	
A.A. ARTILLERY								
Hq & Hq Btry, AAA Brig	44-10-1				1 80			
AAA A/W Bn SM	44-125	1 787			3 2361			
AAA Gun Bn SM	44-115	1 631			2 1262			
AAA S/L Bn less 1 Btry	44-135				1 700			From Phase I.
Hq & Hq Btry AAA Gp	44-12	1 73			2 146			
AAA Opns Det	44-7				1 42			
	Total	1491			4591			
ARTILLERY								
155 MM Gun (CA) Bn	4-155				2 976			
	Total				976			
ARMORED								
Tank Bn Med (less one Co)	17-25				1 570			

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION

January 1945

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ARMORED (Continued)								
Armored Am Trac Bn	F-1020			1 852				
	Total			852	570			
AVIATION SERVICE UNITS								
A.W. Sqdn (Marine)				294			294	
AACS Mobile Unit	1-447s	1 79			1 109			
JCC Det, Sig Serv Bn, Avn		1 50			1 50			
Air Serv Group Hq	1-452-T				5 1560			
Air Eng Sqn	1-457-T				5 1290			
Air Material Sqdn	1-458-T				5 710			
Sta. Comp Sqdn	1-422				3 309			
Weather Det	-				1 80			
Aviation Sqdns	1-999				4 1012			
M.P. Co. Avn	19-217				3 303			
Sig Serv Det, ACS	11-500				1 22			
Hq & Hq Sqdn Air Dep Gp	1-852				1 190			
Dep. Rep. Sqdn	1-853				1 369			
Dep. Sup. Sqdn	1-858				1 131			
Med. Sup. Plat Avn	8-497				1 21			
QM Trk Co Avn	10-517				2 204			
Sig Const Co, Hvy Avn	11-67				1 193			
QM Plat, Air Dep Gp	10-427				1 24			
Sig Depot Co Avn	11-287				1 189			
	Total	129		294	6766		294	
CHEMICAL								
Chem Co Mtzed	3-27				1 167			
Chem Co Gen Serv Serv Unit	3-137				1 130			
	Total				297			
ENGINEER								
N.C.B.	P-1		1 1115			1½ 1673		
Eng Bn 'C'	5-15				2 1274			From Phase I.
Eng Avn Regt(4 Avn Eng Bns)	5-415				1 3381			
Hq & Hq Co Eng C Gp	5-192				1 81			From Phase I.
Lt Equip Co	5-367				1 188			

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION

January 1945.

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ENGINEER (Continued)								
Eng Const Bn	5-75				2 1800			
Engr Maint Co	5-157				1 191			
Engr Serv Bn Comp	5-500				1 579			
Engr Dump Truck Co	5-88				4 428			
Eng S/L Maint Team	5-500				1 3			
Eng Dep Plat	5-47				1 33			
Parts Supply Plat	5-567				1 57			
Petrol Dist Co	5-327				1 216			
Const Grp Hq & Hq Co	5-72				1 94			
Water Supply Co	5-67				1 136			
	Total		1115		8461	1673		
MEDICAL								
Evac Hosp, Corps				1 232				From Phase I.
Port Surg Hosp					2 74			From Phase I.
Malaria Control Unit	8-500	1 12			1 12			From Phase I.
Malaria Survey Unit	8-500	1 13			1 13			From Phase I.
G-6(Aug. to 150 beds)M.G.	G-6		1 87			1 87		
Field Hospital (400)	8-510				2 424			1 from Phase I.
G-7 (50)	G-7					1 70		
Sta Hosp (500 bed)	8-560				2 572			84 nurses to come in later.
Sanitary Co	8-117				1 112			
Vet Det Food Insp					1 5			
Med Supply Team Type 4	8-500				1 23			From Phase I.
	Total	25	87	232	1235	157		
ORDNANCE								
Hvy Maint Co (Tk)	9-37				1 202			
Ordnance MM Co	9-7				1 162			
Hq & Hq Det Ord Bn	9-76				1 34			
Ord Depot Co	9-57				1 180			
Ord Ammo Co	9-17				1 179			
Med Maint Co (AA)	9-217				1 157			

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
ORDNANCE (Continued)								
Bomb Disposal Sqdn	9-500				2 14			
	Total				928			
QUARTERMASTER								
Sect QM Trk Co (Augmented)	10-57	1 13						
Plat QM Serv Co	10-67	1 100						
Det QM Dep Sup Co	10-227	1 25						
Mar Field Depot	E-770			1 1200				From Phase I.
QM Trk Co (Augmented)	10-57				2 268			
QM Serv Co	10-67				4 876			
Plat QM Salv Coll Co	10-187				1 56			
QM Dep Co Supply	10-227				1 186			
Plat QM G.R. Co	10-297				1 23			
Hq & Hq Det QM Bn	10-56				2 60			
QM Bakery Co	10-147				1 160			
QM Ldy Co (less 1 Plat)	10-167				1 211			
QM Salv Rep Co (less 1 Plat)	10-237				1 113			
	Total	138		1200	1953			
SIGNAL								
Sig Co Wing	11-247				1 127			
JASCO	E-518			1 500				From Phase I.
Det Sig Serv Co	11-500	1 191			1 266			
Signal Const Bn Hvy	11-65	1 437			1 437			
Naval Comm Unit						1 64		
Radar Maint Unit	11-617				4 30			
	Total	628		500	860	64		
ADJUTANT GENERAL								
Army Postal Unit Type K	12-605				1 25			
	Total				25			
MILITARY POLICE								
MP Co ZI	19-57				2 298			
	Total				298			

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION

January 1945.

Unit	T/O	ASSAULT Army	ASSAULT Navy	ASSAULT Marine	GARRISON Army	GARRISON Navy	GARRISON Marine	Remarks
TRANSPORTATION								
Hq & Hq Co Amph Trk Bn	55-500				1 17			
Amph Truck Co	55-37				3 540			
Amph Trac Bn	E-50			2 1014				From Phase I.
Amph Trac Co	E-46			2 280				From Phase I.
Amph Truck Co	E-705			2 372				From Phase I.
Port Cos	55-37	2 438			2 438			
Hq & Hq Co Port Bn	55-116				1 33			
	Total	438		1666	1028			
NAVAL								
GROPAC						1 459		See attached schedule.
PT Operating Bases						2 470		
Boat Pool						1 300		
Garrison Beach Party						1 89		
	Total					1318		
MILITARY GOVERNMENT								
Mil Govt A Det			1 15			1 15		
Mil Govt B Det			1 27			1 27		
Mil Govt Camp Orgn C Det						2 72		
Camps 250 man	N1A					1 25		
Interpreters					15			
	Total		42		15	139		
TOTALS		4921	1244	22209	41651	3386	634	

GRAND TOTAL ALL SERVICES

ASSAULT 28374

GARRISON 45671

~~TOP SECRET~~

NAVAL BASE UNIT FOR OKINO DAITO JIMA

GROPAC

		Off.	E.M.	Total
A - 3	Administration (mod.) (1 Officer as Port Director)	4	30	
B - 5A	Boat Pool - including crews for LCM and LCV(P).	2	65	
B - 7	Surface Radar	1	20	
B - 8	Minesweeping	1	1	
D - 10	Storage (mod)	1	8	
D -	Disbursing	1	3	
E - 9	Mobile small boat repair (aug)	1	24	
G - 10	10 Bed dispensary	1	3	
J - 4A	Bomb Disposal	1	1	
J - 4B	Mine Disposal	1	1	
J - 4C	Base Demolition	-	-	
N - 1A	Camp (250 men) modified	-	22	
N - 9	Base Recreation	-	-	
		14	178	192

NAVAL BASE UNITS FOR KUME

GROPAC

		Off.	E.M.	Total
Standard GroPac plus Additional functional components		21	274	
B - 1	HECP	4	23	
B - 3	Underwater Det.	5	24	
J - 12B	Net Component	3	27	
B - 7	Radar (med)	1	20	
B - 8	Minesweeping	1	1	
B - 9	Fleet Moorings	-	-	
B - 10	Nav Aids	-	-	
		35	369	404
Boat Pool (boats supplied by ComPhibsPac)				300
GRAND TOTAL				704

NAVAL BASE UNITS FOR MIYAKO JIMA

CUB

		Off.	E.M.	Total
A - 2	Admin	7	55	
A - 6	Intelligence	2	3	
A - 7	Shore Patrol	3	20	
B - 1	HECP	4	23	
B - 3	Underwater Det.	5	27	
B - 4A	Port Director	10	14	
B - 4C	Harbor Patrol	1	28	
B - 5A	Boat Pool	1	5	
B - 5B	Barge Pool	-	28	
B - 6	Radar	1	46	
B - 8	Minesweeping	1	1	
B - 9	Fleet Moorings	-	--	
B - 10	Navigation Aids	-	--	
D - 2	Supply (modified)	10	75	
D - 4	Tank Farm (modified)	1	11	
D - 15	Cobbler & Tailor Shop	-	5	
D - 22	Disbursing Office	1	5	
E - 8	Small Boat Repair (equip. aug.)	4	64	
E - 9	Small Boat Repair (mot.)	-	18	
E - 16	Oxygen Plant	-	12	
E - 17	Acetylene Plant	-	6	
- 19	Typewriter Repair	-	1	
	Dispensary (100 bed)	8	100	
	First Aid Sub-Dispensary	1	2	
	Sub-Disp. Dental	1	1	
	[illegible]Gas Tank Farm	-	--	
	[illegible]e Machine Gun	1	5	
	[illegible]nition Storage	5	10	
	[illegible]omb Disposal	1	1	
	[illegible]ine Disposal	1	1	
	[illegible]te Demolition	-	--	
	[illegible]ine Assy. Depot (fwd)	3	30	
	[illegible]t Component	5	45	
	[illegible]mp (250 man)	-	25	
	[illegible] (250 man)	-	--	
	Camp (1000 man)	-	81	
	Camp (1000 man)	-	--	
	Bakery (1000 men)	-	6	
	Base recreation	-	--	
12A	Fire Prot - Basic	1	4	
12C	Fire Prot - Waterfront	-	2	
7)Q- 2	Pre-embarkation Unit	-	--	
		78	760	848
Boat Pool (boats supplied by PhibsPac)				600
	GRAND TOTAL			1448