PEARL HARBOR ATTACK

HEARINGS
BEFORE THE
JOINT COMMITTEE ON THE INVESTIGATION
OF THE PEARL HARBOR ATTACK
CONGRESS OF THE UNITED STATES
SEVENTY-NINTH CONGRESS
FIRST SESSION
Pursuant to
S. Con. Res. 27
A CONCURRENT RESOLUTION AUTHORIZING AN
INVESTIGATION OF THE ATTACK ON PEARL
HARBOR ON DECEMBER 7, 1941, AND
EVENTS AND CIRCUMSTANCES
RELATING THERETO

PART 38
PROCEEDINGS OF HEWITT INQUIRY

Printed for the use of the
Joint Committee on the Investigation of the Pearl Harbor Attack

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PROCEEDINGS OF HEWITT INQUIRY

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302. Navy Department Intelligence Report, Serial No. 2741, dated 29 July
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Midget sub beached on OAHU.
Above is shown a captured track chart of Jap carriers, covering the period from PEARL HARBOR to MIDWAY. During the operations noted, this Jap Carrier Force was commanded by the late Vice-Admiral NAGUMO as CinC First Air Fleet. The approximate approach of the Carrier Task Force to HAWAII is indicated. According to another document, recovered from a crashed enemy plane shortly after the raid, Jap aircraft flew off their carriers about 200 miles due north of OAHU, rendezvoused further south, and then flew in for a coordinated attack. From 0755 to 0825 (HONOLULU Time), VT and VD attacks were made on U. S. installations. After a 15-minute lull, these were followed by horizontal VB strikes and recurrent VD attacks.
**Translation of code tables carried by Jap planes. Simple combinations of two KANA syllables served to report disposition and movements of U.S. Fleet.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Message</th>
<th>Origin</th>
<th>Weather</th>
<th>Remarks</th>
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**CONTINUED**
Photostat of a document from a crashed Jap plane after the PEARL HARBOR raid. Above, code designations are applied to ship anchorages near FORD ISLAND. Below, sectors from LAHAINA (on MAUI, HAWAIIAN ISLANDS) are indicated in code. Codes were presumably to be used for either voice or radio transmission.
Chart of torpedo runs, recovered from crashed Jap plane. Broken lines indicate aircraft from CV KAGA. Solid lines denote planes from other carriers.
Captured Japanese photograph of FORD ISLAND under attack on 7 December 1941. A VAL has just scored a near miss.
Above photograph is captioned in Japanese "the pitiful American Capital Fleet".
Photographs of the PEARL HARBOR raid were widely distributed among Jap personnel for morale purposes. Captured souvenir albums of Jap sailors often contain a set of these photos along with several equally dramatic shots of the PRINCE OF WALES and REPULSE sinking off SINGAPORE. Above photograph shows WHEELER FIELD during raid.
One enemy submarine was definitely sunk near the Empire on the 29th.

Absence of sighting and contact reports between HAWAII and the Mainland indicate the probable return of that sub to the Empire.
MANILA Harbor photographed on 5 November by TICONDERAGA aircraft. Note concentration of destroyers.
Results of Third Fleet aircraft strike on MANILA Harbor 11-14 November 1944. Ship in foreground is a new type 6500 ton freighter, Sugar Baker (a), described in "Weekly Intelligence", Vol. 1, No. 21.

Two freighters on the bottom near the breakwater give testimony to the effectiveness of the strike.
Burning ships and shore installations at MANILA Harbor.

Pier Seven and other installations showing damage from Third Fleet bombs, 11-14, November 1944.
KUMA - NATORI CL
ESTIMATE OF REVISED ARMAMENT

BASED ON PHOTOGRAPHS OF 26 OCTOBER 1944, SULU SEA,
TAKEN BY 23-6 & 341 BOMBING SQUADRONS OF 5TH BOMBARDMENT GROUP

CINCPAC - CINCPPOA
RESTRICTED
CHART OF FLOATING MINES
IN
JAPAN SEA AREA
MARCH 1943 to MAY 1943

JAP SECRET (HI) NOTICE TO MARINERS 1943,
SUPPLEMENT TO NO. 10

LEGEND

OCEAN CURRENTS

1 TO 2 KNOTS

3 TO 1 KNOTS

WIND DIRECTION

CONFIDENTIAL
GENYO CLASS TANKER VICTIM OF PB4Y

On 31 October, a PB4Y of the 115th Bombing Squadron observed and photographed a 10,000-ton GENYO Class Jap tanker off KUDAT airdrome in MARUDU Bay (North BORNEO). The Allied plane attacked and apparently sank the AO with a single 250-pound GP hit, which ripped an eight-foot hole in the starboard bow. A 4-5-second delay fuse was used. Photo below shows the victim on the next day.

On 1 November another PB4Y observed the same ship lying on its side in this same location. On the following day it was observed on the bottom in 10-15 fathoms.
"Method of dropping target bombs.

Number next to circles indicate the order of dropping.

White are dropped according to detector signal.
Green are dropped when the X area is reached.
Kasei 23 engine, used in JACK. Photo from captured document.
Heavily camouflaged HELEN, under Allied strafing attacks. Photo from AAF, SWPA.
GEORGE
JAP NAVY FIGHTER-INTERCEPTOR

ARMAMENT
(A) 2 x 20MM IN WINGS
2 x 20MM BELOW WINGS (PACKAGE)
2 x 7.7 MG IN FUSELAGE
(B) 4 x 20MM IN WINGS

BOMBS 2 x 77 OR 2 x 132 EXTERNALLY

MAXIMUM SPEED 407 MPH (354 knots) at 19,700 FT (HIGH BLower)
CLIMB 4200 FPM AT SEA LEVEL (ESTIMATED)
5.5 MINUTES TO 20,000 FT (ESTIMATED)

RANGE PROBABLE MAX NORMAL RANGE 600 SM OR 521 NM
PROBABLE MAX TACTICAL RANGE 65%

CEILING 40,000 FT (ESTIMATED)
ARMOR & VULNERABILITY NO ARMOR OR FUEL TANK PROTECTION KNOWN FROM CURRENT INFORMATION, BUT MAY EXIST.

WING LOADING 32 LBS PER SQ FT (ESTIMATED)
POWER LOADING 385 LBS PER HP (ESTIMATED)

REMARKS: THIS IS ANOTHER OF THE NEW JAPANESE NAVY SHORT RANGE FIGHTERS OR INTERCEPTORS. IT HAS A SLIGHTLY MORE POWERFUL ENGINE THAN 'JACK' AND WILL PROBABLY OUT PERFORM IT BY SOME FEW MILES PER HOUR AT MOST ALTITUDES. IT IS A DEVELOPMENT OF 'REX.' THE FIRST MODELS HAD THE LOW-MID-WING AND ARMAMENT AS IN (A). THE PRODUCTION MODELS ARE PROBABLY ALL LOW WING WITH ARMAMENT AS IN (B). THIS DRAWING HAS BEEN DEVELOPED FROM INCONCLUSIVE SOURCES AND MUST BE VIEWED AS PROVISIONAL.
CAT BAI A/F, located 3 miles SE of HAI PHONG, has two intersecting hard surfaced runways and is reported to be a first-class military installation. Included in the facilities are a radio station, repair shops and AA positions. Revetment areas are being extended and an attempt is being made to camouflage the taxiways.
HON GAY - the chief coaling port of FRENCH INDO-CHINA, located on the north shore of the Gulf of TONKIN. Facilities include a coal treating plant with steam and electric loading devices, concrete piers and extensive railroad yards.
CAM RANH BAY - one of the finest fleet anchorages in the ORIENT. Affording complete typhoon protection, it was a staging point for Jap troops enroute for the conquest of MALAYA and NETHERLANDS EAST INDIES.

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LUZON AIRFIELDS

These photos, taken by carrier-based planes, are representative of the Jap-held airfields encountered by our aircraft on recent strikes against LUZON.

An example of the concentration of Jap fields in the vicinity of MANILA. Five of the six CLARK landing grounds are visible; the sixth is hidden by the cloud in upper right. Center - the four ANGELES airfields.
GRACE PARK Airfield, located in the northern part of MANILA, is a fighter field. The new runway is concrete, however, the old runways outlined above are not paved and are believed unserviceable.

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LEGASPI Airfield, situated 1/2 miles north of LEGASPI Town, is a medium bomber field with an improved runway. Note bomb crater, fallen trees and debris in foreground – the result of one of our recent strikes.
Fort STOTSENBURG, former American Army Headquarters, now believed to be a Japanese Garrison Headquarters at least partly responsible for the defense of the many airfields in this area.

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Enemy AK, approx. 3000 tons, similar to KASAGISAN MARU class, being strafed by Independence VF's west of LUSONG BAY S.W. BUSUANGA Island on Sept. 24. In this photograph it is clear that both her fore and aft decks are afire. Cargo on the forward deck is apparently a pile of life rafts. The stern gun (probably 3-inch) is not an AA type and is not manned. Another gun is mounted forward, partially visible. The ship apparently has steam up but her screw is not turning.

Enemy Patrol Craft (XPC), Under way in LUSONG BAY. This photograph was taken at masthead height by a strafing Hellcat-pilot just after his plane zoomed over the dodging vessel. The vessel is a former whale-killer boat (132 ft. class) described in "Weekly Intelligence", Vol. 1, No. 14. One man is crouched on the 3-inch bow gun platform. The stern 13 mm AA gun is manned.
CONFIDENTIAL

YAMATO CLASS BB

IMPORTANT NOTE: The sketch represents the impression of
a POW translated through the interpreter and draftsman
and should be considered as such. Places shown (by scale)
on DIVE's, although NR visible are now very possibly carried.
TOSHIMA CLASS JAP MINELAYER WITH INFLUENCE GROUND MINES
Sightings in the Western NEW GUINEA-MOLUCCAS areas indicate the submarine concentration in the PALAU-MINDANAO region has moved southward.

Two submarines were sighted in BALIKPAPAN Harbor on 10 October.
OSCAR Model 1, a captured photograph.
Figure 1. Harmonization pattern for GEORGE.
Captured photograph shows cruiser or BB recovery of old Jap float recce plane, DAVE. This type, though obsolete, still is in limited use.
Captured photograph of the GEKKO, Model 11, version of IRVING, apparently after a belly landing.
Figure 1 - Tracing of Japanese sketch purports to show method of releasing towed cable bomb against Allied bomber.
Figure 2 - Detail of towed cable bomb, from captured sketch. Container apparently is mounted below wing. Cable is drawn back along fuselage to reel near tail, connected with disengaging device. Bomb, protected by a split cylinder safety cover, is expelled by electrically detonated powder charge.

When the bomb is fired, the safety cylinder splits into two parts and scatters.
B-29 OVER YAWATA  XX Bomber Command reports balloons seen over this target may have been released from Jap planes. Balloons of this nature could be automatically inflated and equipped with trailing cables and explosive charges.
How not to release aerial burst bombs. These photos, from ComAirForward, show Liberators under attack over IWO Jima, with phosphorus bombs bursting harmlessly too high, too low and too far behind. Ideal burst is slightly above and in front of bomber.
Supreme Military Council

Emperor

Board of Marshalls and Admirals

Aides-de-Camp

Imperial Headquarters

Chief of Army General Staff

Inspector General of Army Aviation

Inspector General of Military Training

Chief of Navy General Staff

Minister of War

Minister of Navy

(Figure 1.)
JAPANESE HIGH COMMAND

Note: — The Supreme Military Council and Board of Marshalls and Admirals act in an advisory capacity.
Section of Type 3 Land Mine Fuze.
Type 3 Land Mine

Case
Fuzes Seat
Bursting Charge

Type 3 Land Mine and Fuze. Scale shown in these photos is apparently in decimeters (10 centimeters).

Packing of Type 3 Land Mine. They are packed 5 in a box with 5 fuzes (which are packed independently).

Fragments from Type 3 Land Mine.
Type 3 Land Mine with trip wires tied to sticks of wood. One mine is under each stick and one in the middle. They may be detonated by pressure on top of either mine or by pulling either trip wire. For use in this manner, the captured document advises that the mines be buried about 5 cm (2 inches) under the ground.

Explosion of Type 3 Land Mine (large)

Type 3 Land Mine Fuze, showing component parts.
Views of wrecked phosphate plant. The mining of phosphate was tiny ANGAURs' only industry. Mines were worked largely by Koreans and natives, and had been abandoned after initial Blue air-strikes.
Small boat basin north of SAIPAN Town (ANGAUR). Radio tower on point was all that remained of radio station here.

Looking north from small boat basin to phosphate loading pier, ANGAUR.

Destroyed warehouses in SAIPAN Town (ANGAUR).
Jap 37 mm anti-tank gun in covered emplacement near SAIFAN Town, overlooking the beach.

Jap pillbox defending western side of ANGAUR. This installation was at GARANGAOI Cove.

Personnel shelter near phosphate plant.
Jap 75 mm gun emplacement near MIDDLE Village, ANGAUR. This was one of a battery of four guns.

Two views of Jap 75 mm anti-aircraft gun at ANGAUR.
In desperation, the Japs at ANGAUR even strung heavy rope between trees at this beach.

Two types of anti-boat obstacles encountered at ANGAUR. They were of flimsy construction, and offered no real hindrance to U.S. troops.
Remains of Jap lighthouse demolished by Naval gunfire prior to U.S. landings at ANGAUR. It has housed a Jap CP and several MGs, and when captured was used by us as a strong point.

Anti-tank trench along beach near SAIPAN Town.
YAP TOWN under attack by carrier planes.

CONTINUED
Burning aircraft at YAP's soggy airfield. All photos shown here were taken on 8 September (1944) by the USS FRANKLIN (CV-13).
The bomb-scarred and shell-pocked revetment area of YAP's airfield, also drenched by recent heavy tropical rains.
Marine rifleman leads way for General Sherman tank, tracking enemy at Horseshoe Valley, PELELIU. Two U.S. tanks, knocked out, are seen blocking road at upper left.
Figure 7b. (from Southeast Area Fleet Air Combat Doctrine)

Figure 6a. (from Southeast Area Fleet Air Combat Doctrine)

Figure 6b. (source as above)

Figure 7a. (source as above)
Sketch No. 2

Sketch No. 3

Sketch No. 4

Sketch No. 5

Figure 11a. (from Southeast Area Fleet Air Combat Doctrine)

Figure 11b. (source as above)

Figure 11c. (source as above)
CHART OF JAPANESE AIR SEARCHES OUT OF TRUK
WOLEAI, PALAU AND SAIPAN

The red has no significance other than to make the planes more readily noticeable. The red figures go with the red lines. The figures on the inside of cross lines thus denote the number of the sector. Miles shown are nautical miles.
Div. No. 1 - 3 Sections, 9 planes.

Div. No. 2 - 3 Sections, 9 planes.

Period of radar contact

Sphere of effective illumination

Release point

1200 - 1500 m

Parachute flares

1 meter equals 3.28 ft.
Drop at 3200 feet where the target is on a straight course and the target angle is 60 to 80 degrees.

Drop at 3800 feet where the target is in an inside turn and the target angle is 100 to 130 degrees.

Drop at 2500 feet where the target is in an outside turn and the target angle is 30 to 60 degrees.

Sketch No. 0

CONFIDENTIAL

Impossible

Proper

Enemy

Unsuitable

Impossible

Place of transmission.

Sketch No. 1

Transmit only when heading in the direction of the attack unit.

Sketch No. 2

1,000 - 1,300 ft.
ONI 220-J

JAPANESE SUBMARINES

RESTRICTED

EXHIBIT NO. 6

PUBLICATIONS AND DISTRIBUTION BRANCH - DIVISION OF NAVAL INTELLIGENCE
JAPANESE SUBMARINE CRUISER

I-15
I-58
I-1
I 108
I-161
I-153
I-159
I-158
I-124
RO-31
RO-60
RO-57
RO-51
RO-100
RO-33

ITEM NO. 75
LIST OF JAPANESE SUBMARINES
(Classes are also shown by Japanese designations)

CRUISER TYPE (JUN)
I-1 Class (completed 1920-1928)
(I-9 Class)
  1-1  I-3
  1-2  I-4
I-5 Class (completed 1932 1938)
  1-3  I-7
  1-6  I-8
I-9 Class (completed 1943)
(I-10 Class)
  I-9  I-12
  I-10  I-13
  I-11
I-15 Class (completed 1938 1943)
(I-19 Class)
  I-15  I-32
  I-17  I-33 (salvaged)
  I-18  I-34
  I-19  I-35
  I-20  I-36
  I-21  I-37
  I-22  I-38
  I-23  I-39
  I-24  I-40
  I-25  I-41
  I-26  I-42
  I-27  I-43
  I-28  I-44
  I-29  I-45
  I-30  I-46
  I-31  I-47-497
(I-16 Class)
  I-16  I-22
  I-18  I-24
  I-20
SUPPLY TYPE (YUSEN)
I-54 Class
  I-54  I-56
  I-55  I-57
FLEET TYPE (KAIJAI)
I-151 (completed 1924)
I-152 (salvaged) (completed 1925)
I-153 Class (some units used for training) (completed 1927 1930)
  I-153  I-157
  I-154  I-158
  I-155  I-159
  I-156  I-160
I-161 Class (completed 1928 1932)
(I-162 Class, 165 Class)
  I-161  I-165
  I-162  I-166
  I-163  I-167 (salvaged)
  I-164
I-168 Class (completed 1935 1938)
(I-169 Class)
  I-168  I-172
  I-169  I-173
  I-170  I-174
  I-171  I-175
I-176 Class (completed 1941 1944)
  I-176  I-182
  I-177  I-184
  I-178  I-185
  I-179  I-186
  I-180  I-187
  I-181  I-188
  I-182  I-190
MINE LAYERS (KISEN)
I-191 Class (completed 1927 1938)
  I-191  I-193
  I-192  I-194 (salvaged)
  I-193  (completed 1943)
COASTAL DEFENSE TYPE (KAICHI)
RO 26 Class (completed 1923 1927)
(RO 31)
  RO 26 (removed from list)
  RO 27 (removed from list)
  RO 28 (removed from list)
  RO 29
  RO 30
  RO 31
  RO 32
RO 33 Class (completed 1937)
(RO 34 Class)
  RO 33
  RO 34
  RO 35 (completed 1943)
  RO 35 (salvaged)
  RO 36
SMALL COASTAL TYPE (KAISHO)
RO 100 Class (completed 1942 1943)
  RO 100
  RO 101
  RO 102 120
MIDGET SUBMARINES (number unknown)
RO 37  RO 43
RO 38  RO 44
RO 39  RO 45
RO 40  RO 46
RO 41  RO 47
RO 42  RO 48
RO 51 Class (removed from list)
(2020 1923)
  RO 51  RO 54
  RO 52  RO 55
  RO 53  RO 56
RO 57 Class (completed 1922 1923)
  RO 57  RO 59
  RO 58
RO 60 Class (completed 1923 1927)
(RO 62)
  RO 60
  RO 61
  RO 62 (hannoi)
  RO 63
  RO 64
  RO 65 (salvaged)
  RO 66
  RO 67 (hannoi)
  RO 68
The Japanese submarine fleet is made up of obsolete units which are still in service and of relatively modern units which reflect an intensive pre-war building program. This program has produced some of the largest submarines in the world which, however, characterized by substandard design and performance qualities. Many units have hitherto been employed in supplying advanced bases and in reconnaissance activities. As allied forces advance upon the inner defense ring of the Japanese home islands and their supply lines become further extended, it is anticipated that the submarine will become one of Japan's most important defensive weapons.

Up to the present time, however, the Japanese submarine fleet has not been employed as a major tactical weapon. Their fleet consists of approximately 100 units which may be subdivided into five general groups, all of which are represented in the current building program.

Cruiser type—30 units. This is a large, long-range combatant boat which may also be used for transport and reconnaissance missions.

Fleet type—95 units. The Japanese equivalent of our own standard operational submarines, used mainly in conjunction with their surface fleet.

Coastal type—40 units. This group includes a miscellaneous assortment of medium-sized submarines, a great many of which are now obsolete.

Mine laying type—5 units. Most of these craft are now believed to be obsolete.

Supply type—4 units. Very little is known at present of this newest group, since most of the units are still under construction.

A complete list of all Japanese submarines known to have been built follows.
RO-51 CLASS (REPORTED REMOVED FROM LIST)

Operational use: Coastal patrol and training duties.
Dimensions: Length 232' o. a.; Beam 23' 6"; Draft 12' 3" (mean).
Displacement: 893 tons surface, 1,082 tons submerged.
Armament: One 3" 15 DP.
One 25" AAMG.
Torpedoes: Six 18" torpedo tubes (four 21" in RO-52).
Twelve 18" torpedoes carried.
Speed (designated): Surface 17 kts. Submerged 9 kts.
Endurance: 7,500 miles, surface.
Machinery: Two 12-cylinder Vickers Diesels @ 2,400 HP, total.
Motors: 4 electric @ 1,200 HP, total.
Fuel: 65 tons oil.
Complement: 48 officers and men.

RO-51 (ex-25)
52 56: 1919-1922
52 56: 1920-1923 at Kobe
Scrapped '32
### RO-57 Class (Reported Removed from List)

<table>
<thead>
<tr>
<th>Operational use</th>
<th>Coastal patrol and training duties.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Length 238' o.a.  Beam 23'7'';  Draft 13' (mean).</td>
</tr>
<tr>
<td>Displacement</td>
<td>Surface 889 tons.  Submerged 1,082 tons.</td>
</tr>
<tr>
<td>Armament</td>
<td>One 3'' DP mounted in CT extension.  One .25'' AAMG.</td>
</tr>
<tr>
<td>Torpedoes</td>
<td>Four 21'' bow torpedo tubes.  Eight 21'' torpedoes carried.</td>
</tr>
<tr>
<td>Speed (designed)</td>
<td>Surface 17 kts.  Submerged 9 kts.</td>
</tr>
<tr>
<td>Endurance</td>
<td>7,500 miles, maximum.  4,500 miles @ 10 kts.  3,600 miles @ 14 kts.</td>
</tr>
<tr>
<td>Diving</td>
<td>197' safe depth (max.).</td>
</tr>
<tr>
<td>Machinery</td>
<td>Two BI 12-cylinder Diesels.</td>
</tr>
<tr>
<td>Horsepower</td>
<td>2,400 HP, total @ 380 RPM.</td>
</tr>
<tr>
<td>Motors</td>
<td>4 electric @ 1,200 HP, total.</td>
</tr>
<tr>
<td>Batteries</td>
<td>67 tons oil.</td>
</tr>
</tbody>
</table>
| Equipment             | Complement 7 officers, 52 men.  (65 reported.)  Begun
|                       | Completed 7.30 22 at Kure |
| RO-57 (ex. 46)        | Begun 11.10.20  COMPLETED 7.30 22 at Kure |
| RO-58 (ex. 47)        | Begun 11.25 22 at Yokosuka |
| RO-59 (ex. 57)        | Begun 3.20.23 at Yokosuka |

**NOTES:**

79710 0—46 H
RO-60 Class  Built as an enlargement of the RO-57 design, and now considered obsolete for offensive operations.

Photo above shows old type conning tower. Number on bow designates flotilla. Number on conning tower is the ship's numeral.
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Date of Issue and Distribution Branch - Division of Naval Intelligence

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**RO-60 CLASS**

- **Begin.** All were built at Kobe
- **Completed.**
  - RO 60 (ex 59) 12 21
  - RO 61 (ex 72) 5 22
  - RO 62 (ex 73) 9 22
  - RO 63 (ex 84) 4 23
  - RO 64 10 23
  - RO 65 11 24
  - RO 66 12 25
  - RO 67 3 25
  - RO 68 2 24

**Operational Use:** Coastal patrol and short-range operations from close bases. May also be used as transports in emergencies.

**Dimensions:**
- Length: 250′ o. a. (Mean)
- Beam: 24′ 3″
- Draft: 12′ 4″

**Displacement:**
- Surface: 988 tons
- Submerged: 1,300 tons

**Armament:**
- One 3″ 15 DP or 3″ AA Gun
- One 303″ A.A.MG
- Torpedoes: Six 21′ (2 bow, 2 stern) tubes
- Twelve 21′ torpedoes carried

**Speed:**
- Surface: 15 1 kts
- Submerged: 7.8 kts
- Maximum diving depth: 197′

**Endurance:**
- 6,000 miles at 10 kts, 3,000 miles at 14 kts

**Machinery:**
- Two 8-cylinder Vickers BF Diesels
- Horsepower: 2,400 HP, total 680 RPM
- Two electric 1,800 HP
- Fuel: 75-90 tons

**Equipment:**
- Radio: Transmitter Special 4, Receiver 2, RDF T-4
- Hydrophones: K Type (Echo-sounding vertically only)
- Diving bells: Three 3½′ clocks looped directly below deck, 2 fitted on CT
- Periscopes: 2 with 60 mm diameter head

**Complement:**
- 6 officers, 52 men (RO 61)

---

**Notes:**

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Note variation in 3″ gun position.
RO 26 Class. Photos illustrate minor superstructural differences within this group. ▲ RO 29 32. ▼ RO 26 28.
**RO-26 and RO-29 Classes**

Operational Use: Short-range operations, patrol, and training duties. RO-29-32 are also adapted to minelaying operations.

Dimensions:
- Length: 243' 7" o. a. Beam: 20' 9" Draft: 12' 3" (mean)

Displacement:
- Surface: 746 tons (655 tons RO-29)
- Submerged: 1,000 tons

Armament:
- One 4" 7 DP or 3 15 DP (old armament)
- One 303 A 3 MG

Torpedoes:
- (RO-26-28) 4 bow, 2 stern tubes
- (RO-29-32) 4 bow tubes
- Light 21" torpedoes carried

Mines:
- 42 laid through stern chutes (RO-29-32)

Speed:
- Surface: 12.5 kts. Submerged: 7.3 kts.

Diving:
- 148 feet depth (max.)

Endurance:
- 6,600 miles @ 10 kts.

Machinery:
- 2 Fiat Diesels @ 2,600 HP total (RO-26-28)
- 2 Sulzer Diesels @ 1,200 HP total (RO-29-32)

Motors:
- 2 electric @ 1,200 HP total

Fuel:
- 114 tons oil (60 reported)

Equipment:
- Radios: Transmitter M-4
- Hydrophones: K Type

Complement:
- 35 officers, 40 men
- Begun: Completed at Kobe

<table>
<thead>
<tr>
<th>Ship</th>
<th>Year</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>RO-26 (ex 45)</td>
<td>1921</td>
<td>Reported removed from list</td>
</tr>
<tr>
<td>RO-27 (ex 58)</td>
<td>1922</td>
<td>Reported removed from list</td>
</tr>
<tr>
<td>RO-28 (ex 62)</td>
<td>1922</td>
<td>Reported removed from list</td>
</tr>
<tr>
<td>RO-29 (ex 68)</td>
<td>1923</td>
<td></td>
</tr>
<tr>
<td>RO-30 (ex 69)</td>
<td>1924</td>
<td></td>
</tr>
<tr>
<td>RO-31 (ex 70)</td>
<td>1924</td>
<td>5-10-27 at Kobe</td>
</tr>
<tr>
<td>RO-32 (ex 71)</td>
<td>1924</td>
<td></td>
</tr>
</tbody>
</table>
RO-33 CLASS

Operational use: Experimental medium-range submarines for anti-shipping and coastal operations, mine laying, and transport duties.

Dimensions:
- Length: 248 ft. (75.6 m)
- Beam: 22 ft. (6.7 m)
- Draft: 10'9" (mean)

Displacement: 700 tons surface.

Armament:
- One 3" DP.
- One .303" MGC.
- 8 torpedoes carried.

Mines:
- Reported carried.

Speed:
- Surface: 18.8 knots
- Submerged: 8.3 knots

Diving:
- 260' safe depth (max), 72 seconds to periscope depth.

Endurance:
- 11,000 miles @ 10 knots.

Machinery:
- Two 8-cylinder Mitsubishi Diesels, Mk. 21, Type 8.
- 3,000 HP total @ 450 RPM.
- 2 electric 1,500 HP total @ 395 RPM.
- 240 cells, Mk. 1, Type 7.
- 107 tons oil.

Equipment:
- Radio, Transmitter Special 4, Receiver Special 90, RDF-Type 4, Telephone Type 90.
- Hydrophones, Type 93.
- 42-54 officers and men.

NOTES:

RO-33: Begun 1933, Completed 1935 at Mitsubishi.

RO-34: Begun 10-10-34, Completed 12-12-35.

V RO-33

RO-35 CLASS

A development of the RO-33 design, this type is now the standard coastal submarine. Units of this class have been reported used for supply operations. The appearance of this type is unknown.

Dimensions:
- Length: 255' (77.7 m)
- Beam: 24' (7.3 m)
- Draft: 12'13" (mean)

Displacement: 950 tons surface.

Armament:
- 25 mm. twin deck mount or 2.40 mm.

Torpedoes:
- Four 21" bow tubes, ten 21" torpedoes carried.

Speed:
- Surface: 20 knots
- Submerged: 8 knots

Diving:
- 260' safe tested depth.

Endurance:
- Surface: 5,000 miles at 16 knots.
- Submerged: 60 hours at 3 knots.

**RO-100 Class**

**Operational Use:** Short range coastal operations sometimes involving supply and evacuation of troops; also escort duties.

**Dimensions:**
- **Length:** 180' o. a. (estimated)
- **Beam:** 30'
- **Draft:** ?,

**Displacement:** 500 tons surface (estimated).

**Armament:**
- **1 Twin 98'' (25 mm.) deck gun.**

**Torpedoes:**
- 4 bow tubes; eight 21'' (?) torpedoes carried.

**Mines:** Reported carried.

**Speed:**
- Surface 14.0 kts.
- Submerged 8 kts.

**Diving:**
- 240' safe tested depth.
- 45 seconds time to periscope depth.

**Endurance:**
- Surface, 2,500 miles at 12 kts.
- Submerged, 60 hours at 3.5 kts.

**Machinery:**
- Motors, Batteries, Fuel.

**Equipment:**
- Hydrophones.

**Cargo capacity:**
- 7 tons in hull, 4 tons on deck.

**Complement:**
- RO 100 107: Completed 1942.
- RO 108 125: Completed 1943.

Others were building at a rate of 16 a year.

The two tubular projections aft may be deck torpedo tubes or mine chutes.

**NOTES:**
I-151 and I-152 were both experimental submarines which became the prototypes of the subsequent Fleet type standard design. I-151 follows British designs, while German practices influenced the design of I-152.

**Dimensions**
- 100' a. a. Beam 28'11''
- Draft 15'3''

**Displacement**
- Surface 1,700 tons
- Submerged 2,000 tons

**Armament**
- One 4.7'' 1 AAMG (probably 303''s)

**Torpedoes**
- 6 bow, 2 stem torpedo tubes, twenty 21'' torpedoes carried

**Speed**
- Surface 17 kts
- Submerged 9 kts

**Diving**
- Endurance

**Machinery**
- 4 Sulzer Diesels 5,000 HP, total @ 340 RPM
- 4 electric @ 1,800 HP, total

**Fuel**
- 470 tons of oil

**Equipment**
- 60 officers and men

I-151 (ex 44) completed at Kure 6 24.

Note: This and following submarines are of various types called I-4 (eye) Class.

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**Item No. 86**
**NOTES:**

| Dimensions | Length 330'11" o. a. |
| Beam 25'1" |
| Draft 16'10" |
| Displacement | Surface 1,190 tons |
| Submerged 2,000 tons |
| Armament | One 4.7", one AAMG (probably 303") |
| Torpedoes | 6 bow, 2 stern torpedo tubes; twenty 21" torpedoes carried |
| Speed | Surface 20 kts |
| Submerged 9 kts |
| Diving | |
| Endurance | |
| Machinery | 2 Sulzer Diesels 6,000 HP total |
| Motors | 2 electric 1,800 HP total |
| Batteries | |
| Fuel | 470 tons of oil |
| Equipment | |
| Complement | 60 officers and men |
| I-152 (ex S-51) | completed at Kure 4-25 |
I-153 CLASS—Characteristic Japanese conning tower and tail-fin design are clearly visible in the photograph.

Note appearance variations.
There are two distinct appearance groups in this class. I.156, I.159, and I.160 are typified by the drawings. I.153, I.155, and I.158 vary slightly in conning tower and bow design as illustrated by some of the photos. The appearance group to which I.154 and I.157 correspond is undetermined.

### I-153 Class (Includes I-153, I-155 Classes)

**Description:**

The oldest class of Fleet submarines now operational, developed from the experimental I-151, I-132 designs. Slight variations among these standard submarines (I.153, I.155) constitute class differentiations.

- **Length:** 331' 0" a. a. Beam 26' Draft 16' 1" (max.)
- **Displacement:** Surface 1,635 tons. Submerged 2,100 tons.
- **Armament:** One 4"., 7. and .30 cal. MG (2 A.A.M.G. reported).
- **Torpedoes:** 6 bow, 2 stern tubes; sixteen 21" torpedoes carried.
- **Aircraft:** 1 floatplane reported carried on I.154.
- **Speed:** Surface 20 kts. Submerged 8.0 kts.
- **Endurance:** 6,970 at 14 kts., 5,200 at 16 kts.
- **Diving Depth:** 176' safe, 200' tested.
- **Time:** 81 seconds to periscope depth.

This class is the most maneuverable of Fleet type submarines.

**Machinery:**

Two 8-cylinder Diesels (Zino, Swiss model, Mk 3) - 6,800 hp. total - 300 RPM.

**Motors:**

Two electric - 1,800 HP. total - 190 RPM.

**Batteries:**

240-cell Exide (Mk 1, Type 5). Fuel capacity, 255 tons oil.

**Equipment:**

- Periscopes: 3
- Radio Transmitter: Special 3
- Receiver: 3
- Telephone: 90 Type
- Direction Finder: 93 Type
- Sonic Sear: 93 Type
- Hydrophones: 93 Type
- Echo-ranging: 93 Type

**Complement:**

9 officers, 73 men.

---

<table>
<thead>
<tr>
<th></th>
<th>Begin</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-153</td>
<td>4.1.24</td>
<td>3.30.27 at 4.157</td>
</tr>
<tr>
<td>I-154</td>
<td>11.15.24</td>
<td>12.15.27</td>
</tr>
<tr>
<td>I-155</td>
<td>3.1.24</td>
<td>9.3.27</td>
</tr>
<tr>
<td>I-156</td>
<td>11.3.26</td>
<td>2.31.29</td>
</tr>
</tbody>
</table>

**NOTES:**
**T-161 CLASS**

- Older units.

- Newer units - note similarity to T-168 class.

*Number of folding radio masts has probably been reduced to a single mast forward, or removed altogether.*
Two designs are included in this class. 1-165, 167 is illustrated by the drawing. 1-161, 164 shown by some of the photos emphasizes much of the I-153 Class design in its conning tower and superstructure.

NOTES:

Operational use: Standard Fleet submarines. Slight variations differentiate these from the I-153 Class.

Dimensions:
- Length 321' 3"
- Beam 26' 27"
- Draft 16' (max)

Displacement:
- Surface 1,638 tons
- Submerged 2,100 tons

Armament:
- One 4" 7" (or one 4" reported)
- One .30 cal. MG

Torpedoes:
- 4 bow; 2 stern tubes
- Fourteen 21" torpedoes carried

Speed:
- Surface 20-21.6 knots
- Submerged 8-8.5 knots

Endurance:
- Surface: 7,350-7,960 in 14 knots
- Submerged: 10 hrs. @ 5 kts., 20 hrs. @ 4 kts.
- 6,200-6,500 in 16 knots
- 40 hrs. @ 3 kts., 80 hrs. @ 2 kts.

Diving:
- 197' rate, 246' max. depth, Time 81 seconds to periscope depth

Machinery:
- 2 Sulzer Diesels @ 6,000 HP total
- 2 electric @ 1,800 HP total @ 90 RPM

Batteries:

Fuel capacity:
- 207.252 tons oil

Equipment:
- Radio, Transmitter, Special 8, Receiver 3, Direction finder Type 4, Telephone 90 Type
- Sonic gear, Hydrophones 91 Type (I-165), 93 Type (I-161)

Complement:
- 9 officers, 70-73 men
I-168 Class—Two or more Type "A" or smaller landing craft can be nested and stowed on deck abaft the conning tower.

Photographs and drawing show original 4" armament. Conning tower design may also be changed with increased AAMG armament.
## I-168 Class

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<table>
<thead>
<tr>
<th>Submarine</th>
<th>Began</th>
<th>Completed at</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-168</td>
<td>5-26-33</td>
<td>6-26-35</td>
<td>Transport</td>
</tr>
<tr>
<td>169</td>
<td>1-25-33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>170</td>
<td>1-25-33</td>
<td>11-9-35</td>
<td></td>
</tr>
<tr>
<td>171</td>
<td>2-15-33</td>
<td>12-24-35</td>
<td></td>
</tr>
<tr>
<td>172</td>
<td>12-16-33</td>
<td>1-8-37</td>
<td></td>
</tr>
<tr>
<td>173</td>
<td>4-5-34</td>
<td>1-8-37</td>
<td></td>
</tr>
<tr>
<td>174</td>
<td>10-16-34</td>
<td></td>
<td>Transport</td>
</tr>
<tr>
<td>175</td>
<td>11-1-34</td>
<td>1938</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**
- **Length:** 343' 0"  
- **Beam:** 26' 11"  
- **Draft:** 13' (mean)

**Displacement**
- **Surface:** 1,400 tons  
- **Submerged:** 2,100 tons (7)

**Armament**
- **One 4" DP or one 4.7" (I-171 only), four 13 mm AA MG.**

**Torpedoes**
- **4 bow, 2 stern tubes, fourteen 21" torpedoes carried.** Some units may be equipped to carry midget submarines.

**Speed**
- **Surface:** 23.9 kts (des.)  
- **Submerged:** 8.8 kts

**Endurance**
- **Surface:**
  - 10,500 nautical miles @ 14 kts
  - 8,170 nautical miles @ 16 kts
- **Submerged:**
  - 10 hrs @ 5 kts
  - 25 hrs @ 4 kts
  - 40 hrs @ 3 kts

**Tested depth**
- 229-278’

**Machinery**
- Two 8-cylinder Diesels (Kampon Mk. 1, Model 8)

**Motors**
- 2 electric—1,800 HP. total—190 RPM

**Batteries**
- 326 cells, Mk. 2, Type 3 (also Mk. 1, Type 9)

**Fuel capacity**
- 342 tons oil

**Equipment**
- Some units fitted with lateral periscopes.
- Radio, Transmitter—Special 3, Receiver—3, 4, Telephone—90 Type Direction Finder—14
- Sonic Gear—Hydrophones—93 Type, Echo-ranging—91 Type (I-168, 169),
- 93 Type (I-170)

**Complement**
- 9 officers, 75 men (84-95 reported)

**Notes:**

---

**Item No. 93**
I-121 CLASS—A new minelayer was reported completed in 1943. No characteristics are known. This single unit minelayer may be the I-125, on which all work was stopped in 1928.

These ships are easily recognized by their broad hulls and a deck gun, placed far forward.
1-1 CLASS—All photos show pre-war rig and armament. Aircraft hangar is visible on port side of hull abaft the conning tower.
### ONI 220-J *RESTRICTED*

**Publication and Distribution Branch — Division of Naval Intelligence**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
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<td>12</td>
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<td>26</td>
<td></td>
<td></td>
<td></td>
<td>Launched 5 22 28</td>
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</tbody>
</table>

**I-1 Class**

**Operational use:** This class represents the first long-range "cruiser" design, was a close copy of the World War I German prize, U-183-190. In recent operations, these ships have served as submarine transports in the support of landing operations.

**Dimensions:**

**Displacement:** Surface 1,956 tons (standard). Submerged 2,480 tons (normal).

**Armament:**
- One 5"/5 (alt. 5"/5 gun removed on all units).
- One 303" AAMG (1 twin .50 cal. reported).

**Torpedoes:** 4 bow, 2 stern tubes, twenty-two 21" torpedoes carried.

**Aircraft:** 1 collapsible floatplane formerly carried in hull compartment.

**Speed:**
- Surface: 18.8 kts. @ 310 RPM. Submerged: 8.1 kts.
- Endurance: 12,400 miles @ 14 kts., 9,500 miles @ 16 kts.
- Diving: 197' safe, 245' tested, 50' periscope depth.
- Time: 80-90 seconds to periscope depth.

**Machinery:** Two 10-cylinder MAN Diesels (RA model, Mk 1).

**Horsepower:** 6,000 HP, total @ 390 RPM. Motors: two electric, -1,800 HP, total.

**Batteries:** 240 cells in 2 groups. Mark 1, Type 8.

**Aux. Generator:** 6-cylinder, 450 HP Diesel.

**Fuel:** 43,000 gal. (normal). 170,000 gal. (max.).

**Equipment:**
- Periscopes: 2 (not fitted with altiscope).
- Radios: Transmitter — Special type 3.
- Receiver — Type 3.
- Direction finder — Type 4.
- Telephone — Type 90.

**Sonic gear:**
- Hydrophone — Type 93.
- Echo-ranging — Type 91.

**Complement:** 7-8 officers and 85 men.

Capacity as submarine transport — 50 troops and 20-40 tons cargo, landed by means of a barge carried on the deck abaft the conning tower. Reports indicate that an additional 500 tons of aviation gasoline, 300-500 kg. bombs, and supplies enough for 200 men for 50 days were carried on different operations.

**NOTES:**
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### I-5-8 Class

**Operational Use**

Large, cruiser-type submarines for trans-Pacific patrols. In recent operations they have been employed as submarine transports in support of combined operations. Their fuel capacity also indicates use as supply submarines.

Although dimensions and statistics vary considerably, photographs show all units as similar to the I-7 type, illustrated by drawings and photographs.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>15-6</th>
<th>1-7-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam</td>
<td>390'</td>
<td>359'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Displacement</th>
<th>Surface Submerged</th>
<th>1,900</th>
<th>1,955</th>
<th>2,500 tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft</td>
<td>15'5&quot; 15'9&quot; (mean)</td>
<td>14'5&quot;</td>
<td>(mean)</td>
<td></td>
</tr>
<tr>
<td>Armament</td>
<td>One 5&quot;0, one 47 mm, and 1 (twin?) or two 5&quot;5,2</td>
<td>One 37 mm, or 303 AA twin 50 cal. MG's (1 1-20 MG)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torpedo tubes</td>
<td>4 bow, 2 stern</td>
<td>6 bow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aircraft</td>
<td>1 floatplane (on all types, this may be replaced by cargo)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>Surface Submerged</td>
<td>18.8 knots (1-5)</td>
<td>23.8 knots</td>
<td></td>
</tr>
<tr>
<td>Endurance</td>
<td>Surface Submerged</td>
<td>11,150 (1-6)</td>
<td>12,700 mi (1-5)</td>
<td>15,130 mi (1-5)</td>
</tr>
<tr>
<td></td>
<td>9,500 (1-6)</td>
<td>10,500 mi (1-5)</td>
<td>14,000 mi (1-6)</td>
<td>16 kts.</td>
</tr>
</tbody>
</table>

**Endurance Submerged**

- 1-5-6: 8 hrs. @ 5 kts.
- 1-7-8: 70 hrs. @ 3 kts.

**Safe Divin Depth**

- 1-5-6: 246' - 262' (1-6)
- 1-7-8: 328' (1-7)

**Diving time to periscope depth**

- 1-5-6: 70 seconds (1-6)
- 1-7-8: 70 seconds (1-7)

**Machinery (1-6)**

- Two 7-cylinder Diesels (Kampon Mk 1, Model 7)

**Horsepower (1-6)**

- 6,000 total

**Motors (1-6)**

- Two electric - 1,800 HP. total

**Batteries (1-6)**

- 240-cell Mk 7, Type 5

**Fuel capacity (1-6)**

- 589 tons

**Equipment (1-5, 6)**

- Transmitter: Special 3
- Receiver: 3 or 4
- Telephone: 90 Type
- Direction finder: 1-4
- Underwater Sound Gear: 93 Type
- Hydrophones: 93 Type
- Echo ranging gear: 91 Type
- 88 men (1-5) 97 men (1-6)
- Begun: 10 30 29 (1-5)
- Completed: 7 31 32 at Kawasaki (1-5)

**Note:** One collapsible floatplane is carried in two 9' x 30' hull sections about the conning tower. The plane is assembled on the deck and catapulted off the 50' slanting runway. Handling is facilitated by a folding kingpost and boom, which are secured on the deck when not in use.

---

**ITEM NO. 98**

---

70716 O—48 H
<table>
<thead>
<tr>
<th>No.</th>
<th>Completed</th>
<th>Equipment</th>
</tr>
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<tbody>
<tr>
<td>1-15</td>
<td>1939</td>
<td>Plane</td>
</tr>
<tr>
<td>1-16</td>
<td>3-30-40</td>
<td>Midget SS</td>
</tr>
<tr>
<td>1-17</td>
<td>1940</td>
<td>Plane or barge</td>
</tr>
<tr>
<td>1-18</td>
<td>1939</td>
<td>Midget SS or plane</td>
</tr>
<tr>
<td>1-19</td>
<td>1940</td>
<td>Barge</td>
</tr>
<tr>
<td>1-20</td>
<td>1940</td>
<td>Midget SS or plane</td>
</tr>
<tr>
<td>1-21</td>
<td>1940</td>
<td>Barge</td>
</tr>
<tr>
<td>1-22</td>
<td>1940</td>
<td>Midget SS or plane</td>
</tr>
<tr>
<td>1-23</td>
<td>1938</td>
<td>Plane</td>
</tr>
<tr>
<td>1-24</td>
<td>1940</td>
<td>Midget SS or plane</td>
</tr>
<tr>
<td>1-25</td>
<td>1941</td>
<td>Barge</td>
</tr>
<tr>
<td>1-26</td>
<td>1941</td>
<td>Midget SS or plane</td>
</tr>
<tr>
<td>1-27</td>
<td>1941</td>
<td>Midget SS or plane</td>
</tr>
<tr>
<td>1-28</td>
<td>1941</td>
<td>Plane</td>
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<td>1-29</td>
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<td>1-30</td>
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<td>Plane</td>
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<tr>
<td>1-48</td>
<td>1943</td>
<td>Plane</td>
</tr>
<tr>
<td>1-49</td>
<td>1943</td>
<td>Plane</td>
</tr>
</tbody>
</table>

All units were built at Yokosuka, Kure, Sasebo, Kawasaki-Kobe, or Mitsubishi-Kobe.
Drawing and photos are of the I-16 as it appeared at St. Nazaire in 1943. The hangar forward houses a collapsible floatplane. Photo on the left, showing one of this class submerging, illustrates the Rising-Sun recognition device sometimes painted on decks and conning towers.

**NOTES:**

Operational use: Long-range cruiser-type submarines for Fleet operations and patrol, also capable of refueling and supplying short-range submarines. Certain units carry aircraft, midget submarines, or landing craft, while others have been converted to minelayers and transports.

**Dimensions:**
- Length 357-359' o. a.
- Beam 30' 6".
- Draft 16'.

**Displacement:**
- Surface 1,950-2,190 tons.
- Submerged 7,980 tons.

**Armament:**
- One 5" 50-cal. deck gun aft (removed when landing craft are carried), one 25 mm. twin AA mount.

**Torpedoes:**
- 6 bow tubes (8 reported), twenty 21" torpedoes carried.

**Mines:**
- 3 units are known to be minelayers.
- Aircraft: 1 floatplane carried in hangar forward of CT, launched on elevatable bow catapult.

**Midship SS:**
- 1 carried on deck in place of hangar (I-16 only).

**Landing Craft:**
- 1 or more Type A, B, or F carried on deck aft, depending on operational assignment.

**Speed:**
- Actual speed is probably 20 kts. maximum (surface).

**Diving:**
- 328' safe tested depth.
- Endurance: 14,000 miles @ 16 knots.

**Machinery:**
- Two 10-cylinder Diesels, Kampon Mk. 2, Model 10.

**Horsepower:**
- 6,000 total.
- Motors: 2 electric @ 2,000 HP, total @ 169 RPM.

**Batteries:**
- 240 cells—Mark 2, Type S.

**Fuel:**
- 816 tons oil, probably carried for refueling other submarines.

**Equipment:**
- Radio: Transmitter—Special 3, Mk. 4, Receiver—Type 4.
- Sonic gear: Hydrophones—Type 93. Echo ranging gear—Type 93.
- Radar: Installed on all units.

**Complement:**
- 101-113, depending upon duties.
Pearl Harbor type is shown on this page, Sydney Harbor type on opposite page. Both types have been reported discontinued.
Photos show salvage operations in Sydney Harbor.

**MIDGET SUBMARINES**

<table>
<thead>
<tr>
<th></th>
<th>Pearl Harbor Type</th>
<th>Sydney Harbor Type (MOTO)</th>
<th>Ko Hyoteki Type</th>
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<tbody>
<tr>
<td>Length</td>
<td>41'</td>
<td>80 6'</td>
<td>82 4'</td>
</tr>
<tr>
<td>Beam</td>
<td>5'</td>
<td>6'</td>
<td>6'</td>
</tr>
<tr>
<td>Conning tower</td>
<td>4 6'</td>
<td>4 6'</td>
<td>4 6'</td>
</tr>
<tr>
<td>Periscope height</td>
<td>5'</td>
<td>5'</td>
<td></td>
</tr>
<tr>
<td>Torpedoes</td>
<td>two 18'</td>
<td>two 18'</td>
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<tr>
<td>Speed</td>
<td>24.3 kts. max.</td>
<td>24 kts. max.</td>
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</tr>
<tr>
<td></td>
<td>4 kts. merged</td>
<td>12 kts.</td>
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<tr>
<td>Endurance</td>
<td>175 mi. @ 5 kts.</td>
<td>180 mi. @ 6 kts.</td>
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<tr>
<td></td>
<td>18 mi. @ 20 kts.</td>
<td>70 mi. @ 12 kts.</td>
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<tr>
<td>Diving Motors</td>
<td></td>
<td>100' safe depth</td>
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<tr>
<td>Batteries</td>
<td></td>
<td>one 600 HP electric</td>
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<tr>
<td></td>
<td></td>
<td>224 cells, Type D</td>
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<td>Equipment</td>
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<td>1 Magnetic compass</td>
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<td>1 Radio transmitter</td>
<td>8 000 -10,000 kc.</td>
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<td>1 Radio receiver</td>
<td>Automatic stabilizer</td>
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<td></td>
<td></td>
<td>depth setter up to 30</td>
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<tr>
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<td>1 4' 5 16&quot; plate</td>
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<td></td>
<td>5 compartments</td>
<td>5 compartments plus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 for batteries</td>
<td>2 torpedo compartments</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 oil compartment aft</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The appearance of this</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>type is unknown</td>
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</tr>
<tr>
<td>Scuttling charge</td>
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</tr>
<tr>
<td>Complement</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Midget submarines are transported to their operational areas by large I-Class submarines or mother-ships. Only 1-16 is believed left in operation as a submarine mother-ship.

When carried on a submarine, the midget SS is secured to the pressure hull with four heavy clamps and one auxiliary clamp. An access hatch, telephone and battery-charging leads connect the two submarines. The Midget is launched by releasing the four main clamps from the parent ship and the auxiliary clamp from within the midget.

The Midget SS has also been carried in the holds of large CHITOSE and MIZUHO Class seaplane tenders and in whalers. Hosted by the two port cranes, they were lowered into the hold and secured on tracked cradles or trucks.
NEW TYPES

I-9 CLASS  A cruiser type, completed during 1940-1943. The appearance of this group is thought to be similar to the I-5-8 Class.

Operational For long-range patrol, supply, and use operations. One aircraft is carried for spotting purposes.

Dimensions  Length 373' Beam 31' Draft 14' 5"

Displacement  Surface 2,400 tons (I-9-10)

Submerged 2,200 tons (I-9-11-14)

Armament  One 5" 50 cal. deck gun

Two 25 mm. twin AAMG

Torpedoes  Six to eight 21" bow tubes

Twenty 21" torpedoes carried

Aircraft  One collapsible floatplane

Speed  Surface 93 kts. Submerged 8 kts.

Diving  327' safe test depth

Endurance  Surface, 16,000 miles @ 16 kts.

Submerged, 60 hours @ 3 kts

Machinery  Two 10-cylinder Diesels, Kaminak Mk. Model 10

Horsepower  6,000 HP. total

Motors  Two electric, 1,800 HP. total @ 177 RPM

Batteries  240 cells, Mk. 2, Type 5

Fuel  936 tons

Equipment  Radio: Transmitter-Special 4

Receiver-Type 8

Telephones-Super 3

RDF-T4

Sonic gear—Hydrophones-Type 93

Echo ranging gear-Type 93

Complement 114-135, depending upon operations

I-176 CLASS  A continuation of the "Medium" or Fleet type submarine design. The appearance of this class is unknown.

Dimensions  Length 335' Beam 22' Draft 13' (estimated)

Displacement  1,609 tons

Armament  One 5" 50 cal. deck gun

One 25 mm. twin AAMG

Some units have two 25 mm. twins for total armament

Torpedoes  Twelve 21" torpedoes carried

Aircraft  One floatplane may be carried

Speed  Surface 23.5 kts. Submerged 8 kts.

Diving  262' 275' safe test depth

Endurance  8,000 miles @ 16 kts

Machinery  Two sets of Diesels @ 2,000 HP. total

Motors  

Batteries  

Fuel  352 tons oil

Equipment  Hydrophones—Type 93

Echo ranging gear—Type 93

Radar installed on all units

Complement 98 officers and men

Some of these units have been employed as transports

I-176-180  Completed 1941

I-181-185  Completed 1942

I-186-189  Completed 1943

MISCELLANEOUS

SIAMESE Submarines

Dimensions  Length 164.1' Beam 13' 5"

Draft 11.10' (maximum)

Displacement  325 tons. surface

Armament  One AAMG

Five 21" torpedo tubes

Speed  Surface 14.5 kts. Submerged 8 kts.

Horsepower  Surface 1,000. Submerged 540

Fuel  27 tons oil

Complement 24

MACHANU, VILIN, completed 1936

BLAJUNBOL, SINSAMUDAR, completed 1937

ITALIAN Submarines in the Far East

COMMANDANTE CAPPELLINI

LUIGI TOELLI

REGINALD GIUDIANI

Since these submarines have been reported as having been turned over to the Germans, they are illustrated with Italian Submarines shown in ONI 220 G.
**SEIZURES**

**ex-DUTCH Submarines**

K 10 (1900)  
K 13 (1924)  
K 18 (1932)

**Dimensions**

910' x 918' x 20' x 17'" x 9'"

**Displacement**

521 712  
611 818  
782 1,024 tons

**Armor**

One 3" AA, 1 or 2 AAMG for all

**Torpedoes**

Four 17"  
Four 11"  
Eight 21" tubes

**Speed**

16 9 4 5  
17 8 5  
17 9 5  

Sisterships in these classes are illustrated in ONI 220-G, German Seizures.

**ex-U.S. Submarine S-38**

**REPORTED TYPES**

**I-54 Class**

Large supply type (YUSEN) submarine  
Two of four units are reported completed

**Surface displacement**

2,800 tons

**Length**

360' o. a. Beam 20' 10" Draft 14' 5"

**Armor**

Two 25 mm. multiples  
Two 21" torpedo tubes, 4 torpedoes carried

**Speed**

Surface 16 kts. Submerged 7.5 kts.

**Endurance**

Surface, 8,000 miles @ 16 kts.  
Submerged, 60 hours @ 3 kts.

**Capacity**

540 tons aviation gasoline  
200 500 Kg. bombs or 200 aerial torpedoes  
Provisions for 200 men for 1 month

**CRUISER TYPE (OTSU)**

12 units (similar to I-15 Class)

**Surface displacement**

2,100 tons

**Speed**

Surface 22 kts.; Submerged 8 kts.

**Endurance**

Surface, 16,000 miles @ 16 kts.  
Submerged, 60 hours @ 3 kts.

**Aircraft to be carried by 6 units**

Another type (KO) of 2,200 tons is reported building

**FLEET TYPE (KAIDAI)**

**Surface**

1,600 tons  
Length, 346'

**Armor**

Four 25 mm. AAMG.

**Torpedoes**

Six bow torpedo tubes  
Twelve 21" torpedoes carried

**Speed**

Surface 23.5 kts. Submerged 8 kts.

**Endurance**

Surface, 8,000 miles @ 16 kts.

**Diving**

260' safe tested depth  
Complement 86 officers and men

**SEAGOING TYPE (RO) (KAICHU)**

18 units.

**Surface displacement**

950 tons

**Armor**

7 20 mm. twins

**Torpedoes**

Four 21" torpedo tubes

**Speed**

Surface 20 kts.

**Endurance**

5,000 miles @ 16 kts.

**Diving**

260' safe tested depth  
50 seconds crash diving time

**KAISHO DESIGN**

18 units.

**Surface displacement**

900 tons

**Armor**

One 25 mm. AAMG.

**Torpedoes**

Four bow torpedo tubes  
Eight 21" torpedoes carried

**Speed**

Surface 14.2 kts. Submerged 8 kts.

**Diving**

240' safe tested depth  
45 seconds crash diving time
<table>
<thead>
<tr>
<th>GROUP ATOLL</th>
<th>MARSHALL ISLANDS - JALUIT, HEADQUARTERS</th>
<th>E. CAROLINES - HQ - TRUK</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLAND (OR ATOLL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R = UNCONFIRMED REPORT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADMINISTRATIVE OFFICE</td>
<td>XX</td>
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<tr>
<td>NAVAL RADIO</td>
<td>XXXX</td>
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<tr>
<td>NAVAL DEFENCE FORCE</td>
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<tr>
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<td>SHORE BATTERIES (A)</td>
<td>S</td>
<td>S</td>
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<tr>
<td>AA BATTERIES (A)</td>
<td>A</td>
<td>A</td>
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<tr>
<td>LOOKOUT TOWERS &amp; CONTROL STATIONS</td>
<td>XX</td>
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<tr>
<td>METEOROLOGICAL STATION OR FACILITY</td>
<td>XX</td>
<td>XX</td>
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<tr>
<td>MUNITIONS DEPT</td>
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<td>F3</td>
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<td>ULITHI</td>
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</tbody>
</table>

**TABLE A (PAGE TWO)**

- **ADMINS. OFFICE**
- **NAVAL RADIO**
- **NAVAL DEFENCE F.O.**
- **Landing Field**
- **Seaplane Facilities**
- **Air Base @ D**
- **Air, Tech. Sec. @ 5**
- **Air, Group @ B**
- **Public Works, Dept.**
- **Civil Eng., Units**
- **Navy Yard Units**
- **Ordnance Specialists**
- **Shore Batteries @ A**
- **AA Batteries @ F**
- **Lookout Towers @ B**
- **Control Stations @ A**
- **Meteorological Stations @ F**
- **Munitions Dept.**
- **Supply Dept.**
- **Branch @ B**
- **Military Post Office**
- **Army Troops Estimated No.**
- **Fleet Anchorage**
- **Submarine Base**

**TABLE A (PAGE ONE)**

- **Group**
- **W. Carolines - Palau, Headquarters**
- **Marianas**
- **Bonin**

**TABLE B (PAGE ONE)**

- **Atoll**
- **Lands or Atoll**
- **Admins. Office**
- **Naval Radio**
- **Naval Defence F.O.**
- **Landing Field**
- **Seaplane Facilities**
- **Air Base @ B**
- **Air, Tech. Sec. @ 5**
- **Air, Group @ B**
- **Public Works, Dept.**
- **Civil Eng., Units**
- **Navy Yard Units**
- **Ordnance Specialists**
- **Shore Batteries @ A**
- **AA Batteries @ F**
- **Lookout Towers @ B**
- **Control Stations @ A**
- **Meteorological Stations @ F**
- **Munitions Dept.**
- **Supply Dept.**
- **Branch @ B**
- **Military Post Office**
- **Army Troops Estimated No.**
- **Fleet Anchorage**
- **Submarine Base**
NOTE: All Lighthouses are now undoubtedly being used for observation posts or Battery Control Stations. Informant believes batteries are emplaced near each lighthouse. All are "PROHIBITED AREAS".
(Looking at the harbor mouth of Honolulu & mouth of Pearl Harbor)

珍珠港

 seated on (V place)

$1.59 (Largest Red Crane)

AIEA Sugar Factory
CONFIDENTIAL

Taken up by DAW Date 19 Nov 1942 CINCUS Routing No. 114-4

Office of Origin PW2 (Comm Task Force 9) Date 19 Nov 1942

File No. PW2/A4-3/1(0780)

Cross File No. 

No. copies received Orig & 3 List of Enclosures received A-2

Subject: Revised Schedule for remainder of second quarter fiscal year, 1942.

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Order</th>
<th>Act. Sym.</th>
<th>Date Rec.</th>
<th>Initial</th>
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<td>00</td>
<td>Admiral</td>
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</tr>
<tr>
<td>01</td>
<td>Chief of Staff</td>
<td></td>
<td></td>
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<tr>
<td>05</td>
<td>Flag Secretary</td>
<td></td>
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<tr>
<td>11</td>
<td>Op. Officer</td>
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<tr>
<td>15</td>
<td>Flag Lieut.</td>
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<tr>
<td>16</td>
<td>War Plans</td>
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<td>21</td>
<td>Security Off.</td>
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<td>90</td>
<td>Gunnery Off.</td>
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<td>95</td>
<td>Aviation Off.</td>
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<tr>
<td>96</td>
<td>Aerologist</td>
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</tr>
</tbody>
</table>

Out. Mail Yeo.

File Yeoman

SYMBOLS
A — Action
I — Information
C — Copy distributed
R — Recommendation

REMARKS

Action taken

Affixed seal by undersign
MEMORANDUM

From: 3rd
To: 11

Note:

Tarea no se ha terminado.

1) Remar 21
2) Lugar 22 al
3) Remue 5/6 del
### CONFIDENTIAL OPERATING SCHEDULE FOR THE 2ND QUARTER FISCAL YEAR

#### GENERAL DIRECTIVE

**EXPANSION TRAINING, TACTICS, PATROLS, INDOCTRINATION, ADVANCED BASE OPERATIONS.**

#### PATROL WING ONE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>DAY</th>
<th>EXPANSION TRAINING</th>
<th>FLEET EXPANSION</th>
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<td>VP 14</td>
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#### PATROL WING TWO

<table>
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<th>TASK GROUP 91</th>
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<td>VP 23</td>
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</tr>
<tr>
<td>VP 24</td>
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</tbody>
</table>

**NOTE:** EXPANSION TRAINING WILL BE CONDUCTED IN CONJUNCTION WITH OTHER MISSIONS WHENEVER PRACTICAL.

EXPANSION TRAINING INCLUDES TACTICS, COMMUNICATIONS, ADVANCED FLIGHT INSTRUCTIONS, PILOT QUALIFICATIONS, FLIGHT CREW INDOCTRINATION, RECOGNITION, FOREIGN SHIPS AND AIRCRAFT, ETC.
<table>
<thead>
<tr>
<th>CITY</th>
<th>SERVICES</th>
<th>WING</th>
<th>TACTICS</th>
<th>ENROUTE TASK GROUP</th>
<th>ENROUTE TASK GROUP</th>
<th>INTERM</th>
<th>UPKEEP</th>
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<td>CURTISS</td>
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<td>WING</td>
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<td>TACTICS</td>
<td>UPKEEP</td>
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<td>ENROUTE TASK GROUP 9.1</td>
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<td>MCFARLAND</td>
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<td>TACTICS</td>
<td>WING</td>
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<td>THORNTON</td>
<td>PLANE GUARD SERVICES</td>
<td>UPKEEP</td>
<td>TACTICS</td>
<td>WING</td>
<td>UPKEEP</td>
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<td>UPKEEP</td>
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<td>PLANE GUARD UPKEEP</td>
<td>UPKEEP</td>
<td>DOCKING</td>
<td>UPKEEP</td>
<td>SERVICES</td>
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<td>AVOCKET</td>
<td>UPKEEP</td>
<td>SUBMARINE BASE TACTICS</td>
<td>WING</td>
<td>TACTICS</td>
<td>UPKEEP</td>
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</table>

**NOTE:**
1. SERVICES INCLUDES SHIP GUNNERY.
2. TANGIER DATES FOR DUTY WITH TASK GROUPS 9.2 AND 9.1 INDEFINITE.
BERTH NUMBERS

TIME 0000
DATE 12-4-47

NOTE: This form shows all vessels in Dry Dock No.1, Floating Dry Dock No.2, Marine Railway and berth at 1010 Pier, Pier No.1, Pier No.2, Pier No.3 and Repair Basin. Form to be filled in and delivered to the Production Officer's Desk at 0800 A.M. and 1000 P.M. daily.

Signed:

79718 O-46 H
Dec 8, 1941 - 8:12
Crew started

Dec 8, 1941 - 12:12
Diet

Dec 8, 1941 - 16:24
2235 (Received information from Spirit Town, Interpreted Stantley) (by telephone)

Farrow
Die 11/41
(16.44) 00.15, in falls and W 314, arrived at
point through gap at 0126.

(23.17) 00.15, will arrive in thirty minutes.

PS 24 (16.44) 00.15, will arrive in about twenty minutes.

(17.40) 00.15, will arrive at 0126.

2352 17:27 17 06:00 Open gate - McKenzie

1246 17:27 06:00 Open gate - McKenzie

D355 (DE 20 V DW 2X) 07

1351 (DE 20 V DW 2X) 07, air unidentified ships of Indiaman

1917 17:27 07 Send action to nearest

1939 (DE 20 V DW 2X) 07, area approaching

1948 (DE 20 V DW 2X) 07, area approaching

1619 (16.44) 01:00.15, a 48915, docks 0.5

1901 (16.44) 01:00.15, a 48915, docks 0.5

1502 01:00.15 Air is in visual

1543 00:32 Air is in visual

1839 00:32 Air is in visual

01:00.15 Air is in visual

17:40 17:27 17 06:00 Open gate - McKenzie

17:27 06:00 Open gate - McKenzie

54 - 122
2144 (Y290) G.81) 17/31/44

20-24 Dec 31/44

MD 8
French

1737 (DKC V DE16) BT 19H 0554 E 1973
  126 137 012 016
1742 (DKC V DE16) BT 19H 2854 E 1973
  126 137 012 016
1752 (DKC V DE16) BT 19H 5154 E 1973
  126 137 012 016
1753 (DKC V DE16) BT 19H 5254 E 1973

MHS V 19/3

1748 (DKC V DE16) BT 19H 2854 E 1973

1757 (DKC V DE16) BT 19H 3154 E 1973

1715 (DKC V DE16) BT 19H 0454 E 1973

1747 (DKC V DE16) BT 19H 2854 E 1973

1758 (DKC V DE16) BT 19H 3154 E 1973

1759 (DKC V DE16) BT 19H 3254 E 1973

1760 (DKC V DE16) BT 19H 3354 E 1973

MD 8
French
If you are not placing your hand near point until you think above.

Open gate to Thornton departing about 1845 and for Allen building at 1:15. X is the moment and together close and between moments.

Open gate for Thornton in 1654 when rode approaching.

At last no number again.

Finish remaining x and end clearly is good.

Don't have your shoulders.

And never build ahead.

The M37X and M388 completed.

Deux.

12-16.

Wore our finished.

12. V. T125, M34 is finished.

Deux V. D2.4, X2 Tony, zt2, CX, 909 win 05.

Tire group of friendly plans above during a time we finished.
6552 Commenced to close - Red light in
6562 Gate closed
6579 Commenced to open gate
6598 Gate open - White light on
6618 Operator stood in
6638 Sail stood in with ton
6654 Redbird stood in
6664 Gate secured in open position - Call up
6678 Tag Golden Gate 0.45
6695 Sunrise

Dec 5 1941
8:15

6958
1646

12-16

Dec 6 1941
10-24

1934 Tunnel one white light -
1905 Section and in with ton
1818 Cape - " " " "
1828 Section - " " " "
1838 Commenced opening gate
1842 Gate stood in
1915 Commenced opening gate
1925 Gate open - White light on
1930 Notice with two red and one

Totals 0-44
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>19:48</td>
<td>Sail into tow stern and mules with tow stern</td>
</tr>
<tr>
<td>20:08</td>
<td>Commenced closing gate - Gate closed</td>
</tr>
<tr>
<td>20:26</td>
<td></td>
</tr>
<tr>
<td>20:37</td>
<td>Commenced opening gate - Gate open - Rail stand in</td>
</tr>
<tr>
<td>20:46</td>
<td>Commenced opening gate - Gate open - Rails aboard in</td>
</tr>
<tr>
<td>20:53</td>
<td>Rail stand in</td>
</tr>
<tr>
<td>21:02</td>
<td>Commenced opening gate - Gate open - Rails aboard in</td>
</tr>
<tr>
<td>21:27</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>21:29</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>21:39</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>21:59</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>22:06</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>22:49</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>22:52</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>23:06</td>
<td>Commenced opening gate - Gate open - Greens aboard</td>
</tr>
<tr>
<td>23:45</td>
<td>End boat patent (Poe and Draper)</td>
</tr>
</tbody>
</table>

12/19/41 00-48
Dec 7/41  00-08  EST

0447  Commenced opening gate
0458  Gate open - white lights -
0508  Crown 2nd in -
0532  Cornet -
0618  Handed flag -

08 - 15

0206  Japanese air raid -
0345  Commenced closing gate -
0446  Gate closed
0522  Commenced opening gate
0610  Gate cleared
0703  Gate open - British war
0704  Monaghan cleared
0724  Kenedy cleared
0746  Another air raid

16 - 20  Dec

1609  Hopkins 3 zone in
1635  Turner in
1745  Needham in
1730  Commenced to close gate
1940  GATE CLOSED

23 - 24  Dec 7/41

2008  Commenced opening gate -
2117  Gate open - with aid of whistle -
2145  Commenced closing gate
2152  Gate closed -
2233  Yard security officer Marco's
due in must be boarded out
9:40  Watched gate for 782 Mareye to enter.
9:44  Gate closed.
9:44  Watched gate for YT #132 & YT #53.
9:45  Gate closed.
9:50  Watched gate.
9:53  YT #153 & #152 entered.
9:54  Bobbin gig entered.
9:56  Seagull entered.
9:31  Gate closed.

04-08, Dec 8, 1941

04:20  Started open.
04:23  Watched.
01:29  Started to close.
02:23  Started to open gate.
03:41  Started open.
05:50  Leave.
06:31  Left.
05:34  Conveyance out.
06:01
06:04
06:16
07:06
07:30  Conveyance out.
07:30  Gates closed.

Ensign Bonds came aboard confirming Captain of the Yards order – OPEN CLOSE GATE ONLY ON ORDERS FROM SIGNAL TOWER.
Time | Event
-----|--------
1516 | Eat open
1524 | Thorton entered
1525 | Thoresby entered
1533 | Wright entered
1535 | Fonius cleared
1539 | Perry entered
1544 | Commenced closing gate
1550 | Sat closed
1553 | Commenced opening gate

16:00

16:18 | [Signature]
16:30 | [Signature]
16:35 | [Signature]
16:38 | Commenced to open gate
16:44 | [Signature]
16:46 | Troopers Hercules Gall with Dodge volunteer
16:50 | Commenced to open
16:59 | [Signature]
17:00 | [Signature]
17:50 | [Signature]
18:11 | FT 30 np. 31.15.42-22 25

1717
1737
1725
1742
1748
1753
1754
<table>
<thead>
<tr>
<th>Time</th>
<th>Action</th>
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<tbody>
<tr>
<td>23:24</td>
<td>Dec 8, 1941</td>
</tr>
<tr>
<td>23:24</td>
<td>As before</td>
</tr>
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<td>No Remarks</td>
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<th>Time</th>
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<tbody>
<tr>
<td>00:24</td>
<td>Closer opening gate</td>
</tr>
<tr>
<td>00:24</td>
<td>Wire was cut and wall was moved</td>
</tr>
<tr>
<td>00:24</td>
<td>Total load was raised in</td>
</tr>
<tr>
<td>00:24</td>
<td>Commenced closing gate</td>
</tr>
<tr>
<td>00:24</td>
<td>Gate closed</td>
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<th>Time</th>
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<tbody>
<tr>
<td>00:19</td>
<td>Commenced opening gate</td>
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<tr>
<td>00:19</td>
<td>Breaker closed</td>
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<tr>
<td>00:19</td>
<td>Breaker closed</td>
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<tbody>
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<td>03:15</td>
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<td>03:15</td>
<td>Breaker closed</td>
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<tr>
<td>03:15</td>
<td>Breaker closed</td>
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<tbody>
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<tbody>
<tr>
<td>03:24</td>
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<table>
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<tr>
<th>Time</th>
<th>Action</th>
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<tbody>
<tr>
<td>04:07</td>
<td>Tug out M S \text{Makura} \text{?}</td>
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<tr>
<td>04:07</td>
<td>Gate open</td>
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<td>immed. Notify Captain of the yard.</td>
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N. H. McCreary
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**SYMBOLS**
- A - Action
- I - Information
- C - Copy distributed
- R - Recommendation

**REMARKS**

Classification changed to Confidential 5 Sept. 1941.

Received by incoming Mail Yeoman to be given up. Keep red routing slip attached to correspondence.

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SYMBOLS:
A — Action, I — Information, C — Copy Distributed, E — Recommendation

REMARKS:
Received by officer messenger mail by Lieut. Garnam Duborg and retained by WP Office. cJp

Duplicate receipt returned July 3-3-41

Signature of above.
No. copies received: 1 copy
List of Enclosures received:
Subject: Joint Security Measures for the Protection of the Fleet and Pearl Harbor Base.

A: Annex No. VII, Section VI, Joint Agreements of the Joint Coastal Frontier Defense Plan Hawaiian Department and Fourteenth Naval District.

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**SYMBOLS**
- A — Action
- I — Information
- C — Copy distributed
- R — Recommendation

**REMARKS**
Retained by War Plans: (2 copies)
File No. A4-3/A4-3/L/serial 0342

Cross File No.  

No. copies received: ten  
List of Enclosures received:  

Subject: ANNEX BAKER TO COMMANDER NAVAL BASE DEFENSE FORCE OPERATION PLAN NO. 1-41 DATED FEBRUARY 27, 1941.

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Additional Remarks:
- Teeman writes (handwritten notes on the document).
- Markings indicate routing and handling instructions.
- Initials and action taken fields are filled out for tracking.

Remarks: Teeman - Make entry in special card index on subject of:
PATROL WING TWO
U. S. NAVAL AIR STATION
Pearl Harbor, T. H.

RESTRICTED

AIRCRAFT BATTERY AREA ASSIGNMENT DISTRIBUTION:

CinCPac
Tail Airbatfor
Subbasefor
Combat Ships
Combat Div ONE
Combat Div FOUR
Command for
Submarinesfor
Combat Div TWO
Combat Div FIVE
Combat Div SIX
Combat Div NINE
Sub Air Wing Units (each)
Sub Air Wing TWO Units (each)
Lexington Air Group
Enterprise Air Group
Saratoga Air Group
Marine Air Group 21
U.S. S. LEXINGTON
U.S. S. ENTERPRISE
U.S. S. SARATOGA
N.A.A., Pearl Harbor
N.A.A., Kaneohe Bay

"A" 10th Wing Air Corp, Hickam Field
Headquarters, 14th Wing, Wheeler Field
Commander Hawaiian Air Force
Combatfor
Submarinesfor
Subdt. 14 M.D.
Subbasefor
Subinbatfor
Combat Wing, Basefor
Subron 203
"A", KSC, 3, Port DeRussy
Subinbatfor
U.S. S. Harbor Defense, Pearl Harbor
U.S. S. Harbor Defense, Ford Island
"A", U.S.S. PENNSYLVANIA
Pay 300D Pt. II

ITEM NO. 144
PATROL WING TWO
U. S. NAVAL AIR STATION
Pearl Harbor, T. H.

RESTRICTED

NIGHT AIR DEPARTMENT NIGHT FLYING SCHEDULE DISTRIBUTION:

Cable Vaults
Central Auditor
Censor
Comms
Combat
Combat Div O.E.
Combat Div PNR
Comms
Censor
Combat
Combat Div Nine
Combat Div Four
Combat Div Five
Combat Div Six

Patrol Wing ONE (All units - each)
Patrol Wing TWO (All units - each)
Lexington Air Group
Enterprise Air Group
Coral Sea Air Group
Marine Air Group 21
S.O., USS Lexington
C.O., USS Enterprise
C.O., USS Saratoga
C.O., NAS Pearl Harbor
C.O., NAS Kaneohe Bay

Engineer-Mechanic Av. Rp. Unit
S.S., 18th Wing Air Corp, Hickam Field
Headquarters, 14th Wing, Wheeler Field.
S.O., Hawaiian Air Force.

Cable Vaults
Fleet-Cop M.M. TH
FL-1
FL-2

Y4

ITEM NO. 145
PATROL WING TWO
U. S. NAVAL AIR STATION
Pearl Harbor, T. H.

AIRCRAFT GULFLEY AREA ASSIGNMENT DISTRIBUTION:

- CINCPac
- Comairbatfor
- Comsacfor
- Combatships
- Combatdiv ONE
- Combatdiv FOUR
- Comcarfor
- Comruscofor
- Comcrudiv THREE
- Comcrudiv FOUR
- Comcrudiv FIVE
- Comcrudiv SIX
- Comcrudiv NINE
- Fatwing ONE Units (each)
- Fatwing TWO Units (each)
- Lexington Air Group
- Enterprise Air Group
- Saratoga Air Group
- Marine Air Group 21
- C.O., U.S.S. LEXINGTON
- C.O., U.S.S. ENTERPRISE
- C.O., U.S.S. SARATOGA
- C.O., U.S.S., Pearl Harbor
- C.O., N.A.S., Kaneho Bay
- Kingfisher-Nedusa Av. Rp. Unit
- C.O., 16th Wing Air Corp., Hickam Field
- Headquarters, 16th Wing, Wheeler Field
- Commander Hawaiian Air Force
- Combatfor
- Comsubforce
- Comcat., 16 N.D.
- Combasefor
- Combatfor
- Comwing, Basefor
- Subron FOUR
- C.O., RSC, 3, Port DeRussy
- Combasefor
- C.O., Harbor Defense, Pearl Harbor
- C.O., Harbor Defense, Fort Ruger
- C.O., U.S.S. PENNSYLVANIA
- PAD OOD PH TH

V5
RESTRICTED

AIRCRAFT GALLERY AREA ASSIGNMENT DISTRIBUTION:

CinC Pac

Commander

Combat Forces

Combat Ships

Combat DIV ONE

Combat DIV FOUR

Combat DIV

Combat DIV FOUR

Combat DIV FIVE

Combat DIV SIX

Combat DIV NINE

Patterson ONE Units (each) 2

Patterson TWO Units (each) 2

Lexington Air Group 10

Enterprise Air Group 10

Saratoga Air Group 10

Marine Air Group 21

C.O., U.S.S. Lexington 10

C.O., U.S.S. Enterprise 10

C.O., U.S.S. Saratoga 10

C.O., N.A.S., Pearl Harbor 10

N.A.S., Kaneohe Bay 10

Ringfisher-Kokua A.D., R.P. Unit 10

S.G., 16th Wing Air Corp, Hickam Field 10

Headquarters, 14th Wing, Wheeler Field 10

Commander, Hawaiian Air Force 10

Combat For

Commando

Coast, 14 F.D.

Commander

Combat For

Combat Wing, Base

Base

Combat DIV FOUR

C.O., R.C., 3, Fort DeRussy 2

Commander

C.O., Harbor Defense, Pearl Harbor 2

C.O., Harbor Defense, Fort Rucker 2

C.O., U.S.S. Pennsylvania 2

P.O.D. P.N. TH 2

U 4
PATROL WING TWO
U. S. NAVAL AIR STATION
Pearl Harbor, T. H.

RESTRICTED

FLIGHT A D. TACTICAL FIGHT FLYING SCHEDULE DISTRIBUTION

G-4
G-24
G-25
G-38
G-48
G-68
G-148
G-238
G-338
G-438
G-538

Patrol Wing ONE (all units 1 each)
Patrol Wing TWO (all units 2 each)
Lexington Air Group
Enterprise Air Group
Saratoga Air Group
Marine Air Group 21
C.O., U.S.S. LEXINGTON
C.O., U.S.S. ENTERPRISE
C.O., U.S.S. SARATOGA
C.O., H.A.S., Pearl Harbor
Kamehameha-Ledua Av. Rp. Unit
Comm.Gen. 16th Wing Air Corp., Hickam Field
Headquarters, 16th Wing, Wheeler Field

Combatator

Comdatwing ONE
| DATE  | RADIOGRAM NUMBER | DESCRIPTION          | TOLLS  | PAY LAST AMOUNT
<table>
<thead>
<tr>
<th></th>
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<td>NOV 11 AL</td>
<td>39 94</td>
<td>39 94</td>
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<tr>
<td>36</td>
<td>CDE KOSHI 23</td>
<td>WASHDC</td>
<td>4 14</td>
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</tr>
<tr>
<td>159</td>
<td>CDE GAIMUDAIJIN61</td>
<td>TOKYO</td>
<td>8 85</td>
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<tr>
<td>160</td>
<td>CDE GAIMUDAIJIN83</td>
<td>TOKYO</td>
<td>12 04</td>
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<td>161</td>
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<td>TOKYO</td>
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<td>362</td>
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<td>363</td>
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<td>482</td>
<td>CDE GAIMUDAIJIN165</td>
<td>TOKYO</td>
<td>23 93</td>
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<td>483</td>
<td>CDE GAIMUDAIJIN188</td>
<td>TOKYO</td>
<td>27 26</td>
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<tr>
<td>492</td>
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<td>TOKYO</td>
<td>8 12</td>
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<tr>
<td>493</td>
<td>CDE BIYOJI 59</td>
<td>SF</td>
<td>4 72</td>
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<td>494</td>
<td>CDE KOSHI 59</td>
<td>WASHDC</td>
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<td>579</td>
<td>CDE GAIMUDAIJIN18</td>
<td>TOKYO</td>
<td>2 61</td>
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<tr>
<td>598</td>
<td>CDE GAIMUDAIJIN25</td>
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<tr>
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<td>CDE RIYOJI 27</td>
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<td>3 68</td>
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<td>1319 CDE RIYOJI</td>
<td>64 SEATTLE</td>
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<td>1320 CDE GAIMUDAJIN</td>
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<td>1322 CDE KOSHI</td>
<td>62 WASHDC</td>
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<td>35 WASHDC</td>
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NOTE: ALL BILLS ARE DUE WHEN RENDERED. RETAIN LOWER PART OF BILL FOR RECORD. CANCELLED CHECK WILL SERVE AS RECEIPT. RETURN ABOVE STUB WITH CHECK. FOR FURTHER INFORMATION REGARDING THIS BILL REFER TO 223 SOUTH KING STREET. HONOLULU, T. H. TELEPHONE 6116.
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<th>By whom</th>
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<td>J-19 (K-10)</td>
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<td>PA-Kv</td>
<td>12-10-41</td>
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Nov. 41

2

#078

1319

J-19 (K-16)

1320

" "

not translated

Prob. Army

1321

" "

but gist noted

Prob. Army

1322

" "

has been

12

078

W 2578

581

LA

282

" "

Re: American (ambassador) has three

Translation

27 June 1945

Prob. Army.
SECRET

HU1918N SCDE TOKYO 63 JG 4 920PM

RIYOJI

HONOLULU

01250 LACIG EICBO AXRITD UFIFXY JADUK UOHEG NOEGJ AFTUAF SODIZ
ALACU SITEA CFUIX ADIKIU FHABI HULAC UGIAF IDEPV ERUCU GAIHS
YGOXY JAOFU SZAAY IGIZU SKIIB ZICYS IODYO ESIFD IYAMO HILLI
KIGCO AXIBD OVUCU XYUDY ELEZI AYXYL EAFCI FYLAC UHABI HULAC
UGIAF DIZAV ESOFU DAHAK AEWVA TUVEU KOXYE TUVEU KJUKA IBCAE
WYETU VEUKM IUXNY ZOZOT UVEUF BIMUA KIJCE RIMIF URIDI EPAW

TOGO

Received on 5 Dec. 41,
deciphered and translated
prior to 7 Dec. 41.

Copy of message (not translation)
mailed to Washington.

Re-deciphered on 4 July 1945.
Wheatward.
SI KYUU ZYOO HOO paragraph. Yond Gun
YOO KA MO TU SEN (SEN MEI FU MEI)
1 SE KI TAI RIKU MUKKE SYLTU KOO
3rd [RA: Long sound RIN] SAN FRANCISCO YORI NYUU
KOO paragraph SAN FRANCISCO E TEN DEN

From: Kita
To: Foreign minister, Tokyo

Urgent report

1. (Military) Transport (name unknown) departed for the mainland on 2nd
2. Surfline arrived from San Francisco on 3rd

Rec'd on 5 Dec, 41,
Deciphered and translated prior to 7 Dec. 1941.
Original code message mailed to Washington. Translation retained by Pearl.
HONOLULU

JAPANESE CONSUL MUTO

SECRET

Received on 5 Dec. 1941.
Deciphered and translated prior to 7 Dec. 1941.

Copy of message sent to Washington.
Deciphered on 8 July 1942.

Washington
From: Togo - Tokyo
To: Jap. Cons. Honolulu

Rough estimate:

Average: 2,500 yen

Per head: about 2,000 yen

Re: hie mi te on ro on

Translation:

Approximate cost of sending families home to Japan: Osaka 1,895 yen; Yushita 2,508 yen; Seki 1,240 yen. Each one (paid their expenses) himself in American currency.

Received on 5 Dec. 1941.

Duplicated and translated prior to 7 Dec. 1941.

Original message sent to Washington. Transcripts retained by Pearl.

Woodward
From—Foreign Minister No. 01240
To—Jap. Cons. Honolulu

For your information, our base at 1.240 yen will be able to transport some goods.

Togo

I am forwarding by telegram at current American exchange estimate: traveling expenses of family returning to Japan,

Okuda 1895, Yushita 2508 yen, Seki 1240 yen

more, Tokyo

#352 attached. 

except that one or the other is probably a retransmission and a different number was assigned.
OAIMUDAIJIN

TOKIO

December 3, 1941

OZL1 KOKOK THOCRR RQIR YP1AQ EMUAA DOHAQ BAGEX BDOTF COVIQ DYSWW IQAE

IYEPW JAYVX XEBAU OEBEB EYAYO QFAE JICHIQ LAVAI BENYV KOWGE

MJQRL BAIYQ OQHH OQEEQ EITAQ POMOC EEASV QOON IBQPY WIGII

ASFRJ UIJY EYXDE TUIOH GLYUI RYUEA HOQIE IYVPM IBISI PBDLY

EIBII UAOBY YONQY BIDOR QIUT EUXOL OHHYB IYQUF YHOQD URTII

UEYVI EBPYI AEERR SNOUQ YRIHD YOPYT OEFYN VMDDO TUIEL UYODE

IYAHAS REQOQ QYYIN BTQQI EUUEX IEIIE IIIOIY NETHM QDQV YUNXQ

IIQQA NGOOE VENEO IYHBB EHEEU EFEII IYVAY AOYSS YEJEU IJQZQ

LVVAK YSEDO TEWAA LIARBB OJMJQ GESEO FLISO DWOHA OBAOS HIAOW

OAJGA DERBI FNIIY IABYH BUIOS ELVWH AEGFW AQIOQ FGEDE VAUWA

IYASA HYYBU BIBEL VRZAY QLMWJ QDFU AYAAA EPAID LGQBM YAEAE

VPNOZ UGNIA HWSB EZAGU VOYFI UIUST QARQX OOHU QYUIN YUZIE

QAQY WQMI SAKW HQYRI IABEZ SRAVA JUEKG QHWOJ HAYIF YBBIQ

UUIIA QYZSK IABAD Y:NHR MNHOE QIVY PNEA EQYIE IGUKY QFEEU

QAPQ OHXZO ESIIJ XSJQH COEBM IOSOS QIJOQ GYWTE UEAII OIAJR

TBEGB QSYZK YRYAA FYGQV ANOYJ HIBBE IIRZN PQUID AEQNY EUUDA

KITA
From — Kata
To — Foreign

(gan kimitew daiz....98) kins khe fun go a too hai) kin
too rci bu dair & bu chn) so fun gi i yori - (9)
china go ni mari ten me | ho ko xam tari | kem sayik

1 bu gi

(ki bu 3 tais 5 giho man bu) (9)
dai te | bu tair | (9)

3) bu te | bu tair | 1st mai so | 2nd new waa go | de
3) bu pe ini ak bu do
4 (9) bu i | (9) new go | do

5 (9) me | te | bu tair | 4th mai so | 6 (9) new whaa de |

6 (9) bu pe ini ak bu do
7 (9) bu pe | yen ko de
8 (9) bu pe | yen ko de
9 (9) bu pe | yen ko de
2: [ra ni bai] hai guo shui (shi ren) shan [ren]

[ra ni bai] [shui guo shan ren] [ren]

[ra ni bai] [shui guo shan ren] [ren]

[ra ni bai] [shui guo shan ren] [ren]
0245(2)

If we no brai wa ma n i t o, am na, na k a ni ri a mu] me he ka be to am na ni te [no wa a, ku a, n o de] te [hehe a ku a, rebel na] me na han ko be de i 25 de 47, jut 5 de 182 de 19,

jut 1 ma n i t o [me te man] susi suj man ge hai

gegi pê he a se n a di ni, di te ne a et gi na te

kie de be Hê. E x E x suj man suj man a, te ku

ku ra [ma de bej, niti] ko e, suj man suj man, un

gogi .... gê 7 gogi, gê 1 ma de 14, mar ta wa 7, 7, gê, kawa suj, suj

ma de 5, ma ta wa 8, (sur me ri) Hê = 77

w+y*
**RCA**

RADI OGRAM
R.C.A. COMMUNICATIONS, INC.

Send the following Radiogram *via RCA* subject to terms on back hereof, which are hereby agreed to.

<table>
<thead>
<tr>
<th>Official Japanese Government Business</th>
</tr>
</thead>
<tbody>
<tr>
<td>QAGAO 08446</td>
</tr>
<tr>
<td>SVERB FJKAQ</td>
</tr>
<tr>
<td>UVATA BENDI</td>
</tr>
<tr>
<td>GOSHI VENON</td>
</tr>
<tr>
<td>OHEUY IEOVA</td>
</tr>
</tbody>
</table>

No translation to match this one.

Sent to 3 different addresses, attached.

Gift: Funds regarding money taken in for sale of tickets, Tatline.

#244
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to

568 Sculo Et Al.

Kita

21 Dec. 5

Item No. 165

RCA COMMUNICATIONS, INC.

A RADIO CORPORATION OF AMERICA SERVICE

TO SHIPS AT SEA
Send the following Radiogram "Via RCA" subject to terms on back hereinafter which are hereby agreed to.

CDE

RITOJI SANFRANCISCO

90072 DAIATE

BHEHY 094507 ROAEQ FHJWU UHQA JOQWI KUZUF TBAAO IABIB DVAAT

UVAYA BERNI YTERI NSFAS KIIBY UCASU AUIWI OYHBI AROYI ZWRYX

NOHII WNDN FYAY OUMRD ARAVA TUPWE AYPOW IYGIYI BODPA BTDAY

IADSN OTYPT UXUAA KROG CHEUY IEOVA QRORI TOESR UGUEY TARGI

IYWA KAMEO

KITA

598
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to.

CDE
KOSHI WASHINGTON DC
90072 DALATE

GAGAG
SIKYU 08480 MAABQ PHJWU UKITA JOQWX EBUZUP TRAAO IABIB DVAAT
SVERS YJHAA YTAGU SLHAA LOMYI PIVHE OAHVR JIRWI YLDJO BOTF
UVAYA DENTI YTEBN NSBAS KIBBY UCASU AUIWI OTBHZ AROYO ZOHFK
HUGK IWXCH FTYAY OUMRD AYAVA IUPWE ATPOW YFYI BODPA BTDAY
YAEKH OTYPT UXUAA EROOG CHEUY IEVOA QRGRI TOERU UGKNU TARG
EUMIA ELMEO

KITA

1941 DEC 3 PM 12 55

30418 South King Street
Honolulu
Telephone: 611
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to.

CDE

GAIMUDAIJIN TOKIO

02470 KIKIK ELTPR EUQSB DOBWO VIUVD AEBBI TPWQU IPQYS VUEUU
AIVEG OUMKC IIJOA LEETD YWQLE UOGVO MOEOM MICNQ UEEEZ QAMCR
EAEMO JOGUE

KITA

PHONE 6116

225 South King Street
Honolulu

FULL-RATE MESSAGE UNLESS MARKED OTHERWISE
Sender's Name and Address
(Not to be transmitted)
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to:

CDE

RIY0JI SANFRANCISCO

00300. DATED

02470 KIKIK ELTPR EU 35B DOBWO VIUVD AE5BI TPWJU IPYY5 VUEUU

AIVEG OUMKC IIJOA LEETD YWLE UOGVO MCOEM MNCNQ UEEKZ QHMCN

EAMMO JOGUE

KITA

PHONE 61116

225 South King Street
Honolulu

FULL RATE MESSAGE UNLESS MARKED OTHERWISE
Sender's Name and Address
(Not to be transmitted)
Send the following Radiogram "Via RCA" subject to terms on back hereto, which are hereby agreed to.

CDE

GAIMUDAIJIN TOKIO

SIKYU 02480 GOGOG OBALB AOIEF ZEQQI CULEO LNYPB IRHGO EUGWL

TOIJIN IIJII AUJBN YDAEO IIICL

OFFICIAL JAPANESE GOVERNMENT BUSINESS

PHONE 6116
223 SO. KING STREET
Telephone: 6114

225 South King Street

HONOLULU

FULL-RATE MESSAGE UNLESS MARKED OTHERWISE
Sender's Name and Address
(Not to be transmitted)

ITEM NO. 170

79716 O—40 H

Naa myū ho choku go gō reku au i kei wa. Ebi ryōji haw ni te nyū bin ku ten. We wa ke to ni.

Dy JP hy UC 4/1 6

3rd afternoon one English gunboat entered Honolulu harbor and departed. About 2,100 tons. One stack, (4?) inch gun. One each fore aft. This done openly.

Furthermore immediately after entering port the sailors who came ashore received mail at the English Consulate.
GAIMUDAIJIN TOKIO

SUKYU 0230 GOCOROBABO AFLEF ZEQQI CULEO LNYPE IRAGO EUGWIL
TOIJUN IIJII AUJEN YDAEO IIICL

KITA

December 3, 1941

32.15-4
43215-

B0 GAKU
KAI NATORI

SECRET
From: Kita
To: Foreign Minister, Tokyo.

32° [we i 00 min gi] yoki ru i yō ki po hau o
se ki shiten kō o sono te i to hii shi ya no

3 rd. Wyoming and 2 seaplane tenders
left port. In addition

SECRET
GAIMUDAIJIN  TOKIO

December 3, 1941

SECRET
SECRET

From: Kita
To: Foreign Minister, Tokyo

3 Dec. 1941

Very urgent report
On the 2nd, one freighter in military service (name unknown) departed for the continent.
On the 3rd, the submarine left and went from San Francisco.

A telegram sent to San Francisco.

RIYOCI
HONOLULU
BKYU 01280 KEKEK OQUCQ SNAII UOTUB DDJYI HBBIJ EEUQO CVWQO DAANJ
OJJKV UUAKH UYDSU QSORO

TOGO

SECRET
HU181SN  SCDE  TOKYO  24  JG  4  B16P
RIYOJI

HONOLULU

01260  KOKOK  UVUBA  WWAYY  IUIQO  PETJJ  UMNVH  IAHOO  GAEY  VYTIN
DYKIE  SVSFG  BAUGL  EFRAU  ALDAI  DHIYO  MEYHE  ATLIE  LBUOL  EIELI
AWBUB

TOGO

SECRET
RIYOJI

HONOLULU

SIKYU 92466 GOGOG PJYVU VUUIY UIDJ8 OUEAI JYPGB SUUPX SEEVF
LOGAA ATTIA OTYVA GUNOO GUDZ AUAUH BUIYD LLAHI ARRLO HEOIA
QVEDE TLFRG YATAM EUEXA XIDEI PIDCO TGOOX

TOGO

SECRET
from NEW YORK DEC 3 1941

JAPANESE CONSUL GENERAL HONOLULU

SECRET
November 25, 1941

324 86 CDE JAP Gov SanFrancisco Calif 25 1218F

Japanese Consul Honolulu

TOSVC ORVVC (KONGO) MHTPOS LÀFYV IVLX USCHE OTUKY VEHYI BWOKA
CIYJ RAYDU KUIDW QKAND BEAVC EKISI GEMOU MAMIL IGXIX ECUAX
SYXK AVILU CMBUX GUCG DAKAG IICAK IEBIG IVDUK UICIF
LÌGAK IOHIE ICTUQ HWOUIM OTUKU YUKRE UKJEU KCTUK AMTC ATIEM
ECXIL ERBIV LIXE UICIV BOIRI CGAUS KUKUS
OIGGA IBDOL LIXE GIBAK APAGI CIXET UKJEU DECAX LJEKXY PADAK
AGLAZ CAJOY IUJSHI FEUKI NPUKU LAKIS AUNUK KYHTU KITPA UKINOD
UIKPU YATIG AUNOW INCUK KRAFI BANOY GUVCA YIUSO HVEIC PTIVIV
LIXGI DEDAC UKUIC IFIFW OPAKI

MUTO

SECRET
2. Sōryōzi mi ta na sa o. Dā si
Yō nih ku sa ko su tu tu ke o sa kā
Tu ma na na bāgāku
Fu ku ryōzi o ku da o to zī re.
Dā tu ma sa da ko. Tyō han ka zu ni ri.
Zī man ma sa hi re. Zyo tyō ya ma da
tē zu ko paragōru.
Sōryōzi seī tūki ka wa sa nan paragōru
Sōryōzi seī yu ge kyo ko su ke. Zō tu era ki
Yo. Tyō zyo ka zu ko. Zī zyo a ya ko.
Zyo tyō ko zī ma tei ku paragōru
Sōryōzi seī se ki kē kī ti. Dō tu ma mi 11 ko
Sōryōzi seī mo ri mu na ta da sā paragōru

2. Yo nih su mi da 3 re. De tu ma ka ne yo. 4 nen mi ko su paragōru.
Yō nih. Fu ku si ma 6 re. Dō tu ma te ku

Chocolate person

79716 O—46 H
November 18, 1941

578 284 SEDE JAP GOVT WASHINGTON DC 18 618P

RIYOJI HONOLULU

SECRET

CUIC QUEBC JSDIC LAUTUE YVEDE MUACI BWOKA UYFIA YUSUI OXULI -
MEGUI CEVEG ILYHJUKNIW XZOWI EBRUD EBYFY UYANJ XUJFU UBIJW -
IZOLY XORS IDEDA XTAC INUPU SINEY OAXEL ONCOD INOVO DJUKU -
LIDCU ISAINA XAFPU DICAF AIHEY AMKIU FYODY HHCIJ DCUIJ MILUP -
IBUILL WOUMU SXUCS DJOU SXUCE NJOOD UUBLA PIAXU HHFY OMTSA -
YBICI AYDUB IIWJO SQJUN UGINU FUSIN EDUKU GIZID JLIJU YOVED -
YPACE XICEE CHAFU CVICB HIFU XIFU EGGFI JJAFI IEGOU -
IUPWO GEKO PIQOU PUVIC IZIDI APUSH UULV CEJAF AUSDY DILUD -
UKUCE KIYH AFUCI ADKJF ICAIB HIFU XIFDII CAJFU IYIV CEJKE -
LJOCE OYPAT DJIX DJUJJ CAIFIP GITUU HKUNO SAIJJ ULXCE LAXY -
EGKI ABCII BUNDU KUIFV EUKU IFCIU SWUFI YIUST ICADA AYAIK -
UAPDO UPWOD BOHII IDCUI GMIPU DJBII LHOUA USAYO PESJI NEKIG -
IZIDI APUSM OCHIF MTSII GTICA IEHIF USLIF DIXCY EGKI ABCII -
BUNDU KUIFV EUKU KUKII FCIUS TICUS IWAUM UPWOD YWUFU YIJAF -
AUSII NESII DJYDIO KUIJI GUSHI FUSYI FVEUM KAKUK ULPJI USDUA -
PAREY ZUMED -

UKUPP ZUUPP UFURIO OYPAT HEJDA DAKUI PDIUK WOBOX YODIO JHONAI -
FVOXY CHIIJ IEAF GISISU NYDU KUER AGUUG XTOJF AKUED BOKXJ -
HAPFU CIPUJ EUKUSI NKHI IGAUS UMAPU UCIMU UCIPU UDCIP ULYKI AGIHS -
LIPSHY JOYOU WOITU GICAF UBIIIO CEJLO YSINE YILAI YCHK YLAAC -
LUJHE AIQAI FVUEM FAKUI BCBII NKXII ODIA IBEAF AABKA KUAR -
INDA OZUUE DGOIC ATICZ UKUJI IYVJN OVOOD KUNIO EZIVA EBTUD -
EMIIC IQUPP YAYKE UNEZ UNOX LIYEE HUYDU KUKIJ ODILA KAMU -

(Continued)
November 18, 1941

554 171 SCDE ETAT WASHINGTON DC 18 618P

RITOJI HONOLULU

Part 2

SECRET
1059 11 SCDE TOKYO 14 9123
RIYOJI HONOLULU

November 14, 1941

SECRET
964 44 SCDE JAP GOVT WASHINGTON DC 13 632P

RIYOJI HONOLULU

November 13, 1941

SECRET
November 8, 1941

1363 80 JAP GOVT CDE STAT NEW YORK NY 61255P

JAPANESE CONSUL GENERAL HONOLULU

MORISHIMA
To RIYOJI S.F. from KITA #304 10-7-41

To KU NA GA SYOKKAI FU SAI [RAIYOSU] PIN
Gō Nī TE' 12th KI TI TYAKU NO YO TEI SEI

Cris Clark Jehovah arrives SF 12th on Samoan

To RIYOJI NY from KITA #304 10-7-41

18th KI TI TYAKU 22-ma SYU TU PAN NO
OMOMUKI NA RU (၂၂သိန်း) Kōsī Kō GAN IN TEI
MO RE' Za PAN Kō 2 MA Kōsī DI TEI KAKU
MA GAN DA MON - NI ZYō SEN Kā TA GO TE
HA I NE GAI TA SI NA O KE TU KĀ SANFRANCISCO A
TE GO KAI DEN BRITAI SEI.

78116 O—48 H
November 5, 1941

497 50 SCDE JG TOKIO 5 7159

RIYOJI HONOLULU

AGIANG LABOR EDKUY CYATH OYOGIC JUKAI VIHII DAAOO JYUKU FAKIC
UKUDU KUJIRZ AHADU KUKOI FINGA AKKUI HICK BEJU SKYCE KROCC
YBIAY CIBAY URSAY LERU PUES HAFUK BCUUKI FORU MINGI AHAYU
ZWOLI SIEY DOKAI NYUTI OPPI HWWUP URAPU ARUWU MSILY NYWEC
IPITY SIMAI GYUS TURE PUCUF LIVIS OYEO

TOOO
To Riyoji NYC
From Kita

11-82 York St, # 302
2-10-11, 41

To: KU NA GA SYUKUKA FU, SAI 7th TO TI HA
TU 15th GO RO KI TI TO TYAKU NOUE TADATINI
BEI SEN MA TA WA PORTUGAL SEN NI TE
CE FI SU 20H I NI MU KO NITOKI SEN SI TU
YO YAKU NA TA TE NA I ARITASI

Cara Clarke Tohriyako
Hembelen to Qistin
via NY Extant
SECRET
From WASHINGTON DC

December 2, 1941

SECRET
GAIMUDAIJIN TOKIE

КИТА

SECRET
HU16SN SCDE TOKYO 21 JG 1 921PM

RIYOJI
HONOLULU

HVSHO DLIAG BYMFM DSATB HAFNT UZECZ TZDFW ZGUOB APGPL KVJGW
FMHHF NZCJH LGCQA QNGLG PZGCX VCHWT TBCUQ 1444

TOGO

SECRET
3/HU14SM TOKYO RIYOJI MU 3/19

KEZ0I MDVOS LEGNH VGEPU JDNGB HWGFD DLZGU UKDNY J111FG QDLKR

LRAIA YYUJY GWFKEK LXXAF IZHCO BLWEC MSAPlM 11111

TOGO

SECRET
SECRET
SECRET
December 1, 1941

GADMUDALIJIN TOKIO

SIKTU MKYO MZHA YOJO NZACW OZAGF SOWFE QIZYI HOVLJ ILVUX
HYXIN OZOVY HYYK BUXOW YAWIP FMAFB IEZLO IKHTA CIJNI FMAPP
EPOEZ YTHEN UAXFM APWAW QXKCI GAPEU JAGAI FAZAU BQERY IRESY
HUQLI VUYXQ QQCCA FHAQX ILYAC DAINUZ FZADI OZUVZ FMCLO SIACO
VIZXY OFEFY MEAXH TOYMD ALEIQ OFEFY MAPQF UQGAT HOFDI FMNAP
KITA

[Signature]
RCA
RADIOGRAM
R.C.A. COMMUNICATIONS, INC.
A RADIO CORPORATION OF AMERICA SERVICE
SEND ALL THE WORLD — BETWEEN IMPORTANT U.S. CITIES — TO SHIPS AT SEA

Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to

OCEAN

NAUKI TOKIO

SIPU 02490 KEEF DUNIG SSUDI JUHEI GJ700 LSOOG YABED OOUTH

HELGA CYCIS YETYI GULAO XHUIJ JACOH WIIA IWIJII DIGHT SPOF.

LIBRIE XUINS XXUVU ASTEI RBCOII IJISX SWAP YRII YIIAR RCOOC

UNCLE XMOUE ASFPO AVAFY OVOM TPELE YIIAS UGII

KATA

PHONE 6116

223 South King Street

Honolulu

ITEM NO. 25
RADIOGRAM
R.C.A. COMMUNICATIONS, INC.
A RADIO CORPORATION OF AMERICA SERVICE
TO ALL THE WORLD — BETWEEN IMPORTANT U.S. CITIES — TO SHIPS AT SEA

Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to:

CDE:
RIYOJI SEATTLE:
90073 DAIAT

1941 DEC 5

W1050 KUKUK HXMM JUJAS DKKD IVY0 IUYT KBOYY JGOTV MUJER
YDIBI ADWAO UYRA RQGR BOYBA BOATH OROHOR RAYTA DAIUS FPEJ
ODHUF ROKAJ RNGD AOJLU YRJED ZOQOG NEAYU NOGUA IOOS JERSD
TPOY AOJTV UJUOG TRLWY PBEAH AUPXI HBBUJ AOITN IHSO JITYAZ

EITA

South King Street
RCA Building
Seattle, Washington

ITEM NO. 28
RCA
RADIOGRAM
R.C.A. COMMUNICATIONS, INC.
A RADIO CORPORATION OF AMERICA SERVICE
TO ALL THE WORLD — BETWEEN IMPORTANT U.S. CITIES — TO SHIPS AT SEA

Send the following Radiogram "Via RCA" subject to terms as on back hereof, which are hereby agreed to:

CDE
GAINSTAJIN TOKIO
02520
 SIKTOY GOGEO JUDIH PUTHTC AIUEN CWIZA LEMBl OPORA IOBOI OOCIO
 AQJBA XBUGE IRDUG EDIUE ERARRG JTQIO EMEK WBYY AADCI IETY
 BIAQL GANF TOODS OPDPU UBIC FTEAO PMAO YIREB DOBEQ IGIEJ
 BAAOQ JRING AADOP DOWBY UGWLY EUMDA BLYJE FUNDI

KITA

225 South King Street
Honolulu

ITEM NO. 231
<table>
<thead>
<tr>
<th>Message from</th>
<th>Time</th>
<th>Press Message</th>
<th>Date</th>
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<tbody>
<tr>
<td>Chicago</td>
<td>1500</td>
<td>20:01</td>
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**Official Japanese Government Business**

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<th>Transmission Code</th>
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**Transmitter Codes**

1. **KAIDAL** Tokyo
2. **GENT** Kobe
3. **DENT** New York
4. **AIDEN** London
5. **BEAN** Paris
6. **EURAN** Rome
7. **HHIE** Berlin
8. **JHRO** New Delhi
9. **KIDRO** Moscow
10. **LJHRO** Cairo
11. **MIDRO** Athens
12. **NIDRO** Tokyo (1340)
Send the following Radiogram subject to terms on back hereof, which are hereby acknowledged:

GAIMUAILIN TOKIO

SIXTU O82240 GROUG QANEEL PUGIC JUQOS OOGAA LAMUE LEXUR WPJFI
NURHE QILD0 TAOMO DJABO PPOF PDIQO IDGLP UBI0Y LUI0A ODGLJ
KEDON NRENRI IENJ0 GDYPV DCHW QEXIA AAUAR HOYAH ITEDO RAARE
NOUYI IMOLU PIPER QCION ADON JIBVN UQERU UIKRE UIKE HOKA0

THE90 D0701 UETVA TORMH

KITA
Send the following RadioGRAM to the following places, the subject is enclosed:

KOSHI WASHINGTON DC
50/49

CO840 DAIATZ

81260 G5840 G9933 W5866 P5526 J5958 G9933 L5866 L5866 G5526 W5526

99989 Q5840 T5958 D5958 P5526 D5958 10006 D5958 L5866 L5896 C5958

50499 R5526 X5866 G5526 R5526 05099 D5896 G5526 A5896 A5866 U5866 R5866 T5958

69949 H5866 P5866 O5866 A5866 I5896 A5866 U5866 R5866 M5866

44999 X5958 U5958 T5958

KITA

Date: 6/49

RCA COMMUNICATIONS, INC.

2304 E. 10TH STREET

Hollywood

Telephone: 6116

Telegraph

79110 0—40 H
Japanese Consulate General

Novemheber Message

December 1941
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to.

<table>
<thead>
<tr>
<th>CDE</th>
<th>GOVERNMENT BUSINESS</th>
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</thead>
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<tr>
<td>GAIMUDAIJIN TOKIO</td>
<td></td>
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**Direct**

<table>
<thead>
<tr>
<th>DWRMO</th>
<th>QRRBV</th>
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KINQU BPJMO CARVA GUOGZ ZMLZQ RFDBG UDFJP UQXVI MTTBE NWWQG

CINQV LUNUM CVNYO QXKIC RJUAI HWQG AQPLJ RJFQC QTLWE IGQXG

BIHDS VHZWN VUGUB SUPKF ODOCQ KAGIC TQMWP VLWYO QQCAJ IKQJL

ENQV ECUGS OIMJE RADDQ RGLJP MYDQU NLKAE ZPJCE DEGLB HIZAA

NSQV JOYEU NSIEM NUTTV KUPMT RGNFH INQOQ PLTAE STKZ AJTYW

WLSGU ZYFWA KPDME YCDXM YIQWQ 51111 BBBBC RVBSG HSIMO

**KITA**
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to

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<thead>
<tr>
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<th>UDFJJ</th>
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<td>OYTO</td>
<td>QXIC</td>
<td>BUXA</td>
<td>HVQG</td>
<td>AQLJ</td>
<td>RYQC</td>
<td>QTLW</td>
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<td>VUGUB</td>
<td>RUPF</td>
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<td>FEUCS</td>
<td>OIMTE</td>
<td>RADDQ</td>
<td>RLJP</td>
<td>MYDU</td>
<td>NLAH</td>
<td>ZPJCE</td>
<td>DMLB</td>
<td>HIYAA</td>
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<td>NOLQ</td>
<td>JOYOU</td>
<td>NSIEM</td>
<td>NWTV</td>
<td>KUPMT</td>
<td>RQHFN</td>
<td>XNQOQ</td>
<td>FLTAE</td>
<td>STEK</td>
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<td>KDPH</td>
<td>YCXXM</td>
<td>YKQW</td>
<td>51111</td>
<td>BBBC</td>
<td>RVBSG</td>
<td>HSIMO</td>
<td>KITA</td>
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</table>

223 035 South King Street  Honolulu  Telephone: 61
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to

1941 Nov 1 PM 11 01

(CDE)

KOSHI WASHINGTONDC

VINQU BQJMO CARVA GUGZ QMLZQ BDFGV UDQVI UQKVI METTE NWQGS
GWGQ LUEDF CVNOQ QXKIC EUAUX HVWQG AQPLJ RJFQG QTLWQ IGMEC
DEHDZ FHZWN VUGUB RUPKF ODCOD KAGIC TDMWP VLWYO QCCZJ IKQYL
EDQY HCUCS OMTJE RADDQ HGLJP MYDGV NLKAR ZPJCSE DEOAB HIYAA
NGICW JOYEU NSJBM RUWTV KUPNT RNGFQ XNQCG FLTAE STEKZ AJFYN
WLQSU ZYPWA KPDHE YCXM YIQWQ 51111 BBBBC RVBSG HSIMO

XITA

1322

207 South King Street Honolulu Telephone: 611
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to:

RIYOJI    SANFRANCISCO
RSDBR    QRRBV    DAIQU
ETUEH    FMTZLA    LACUK    UDUVY    VOUPS    ILNYY    KNUSB    IOMOA    CIJZ    URRKL
MIUYY    OCHKO    CAHII    GAGFU    HUUBC    INVOI    IBJAC    AADSI    YOGUH    AIBSI
LEGI    GQWAAP    CINKF    YKRI    MUGII    GEFWQ    IXHAH    YVENU    WOODY    KIBOBO
SBVVB
KITA

235 South King Street
Honolulu
Telephone: 6116

FULL-SIZE MESSAGE UNLESS MARKED OTHERWISE
Sender's Name and Address
(Print to be transmitted)
RCA

RADIOGRAM
R.C.A. COMMUNICATIONS, INC.
A RADIO CORPORATION OF AMERICA SERVICE
TO ALL THE WORLD — BETWEEN IMPORTANT U.S. CITIES — TO SHIPS AT SEA

RECEIVED AT 223 SOUTH KING ST., HONOLULU, AT STANDARD TIME

To elude "General"

Telephone: 6116

ITEM NO. 248
Send the following Radiogram "Via RCA" subject to terms on back hereof, which are hereby agreed to:

CDE

KOSHI WASHINGTON DC

RAHOG STBEC HSAAB BPUPF HARTF HRUNF FFLXW KEKCD PEWJK UCIA

LDLHO XRET DNMGE JQTIR FGQPC HKQJT AROZV AETUK 13333 CCRBV

KITA

PHONE 6116

225 South King Street
Honolulu

RCA COMMUNICATIONS, INC.
A RADIO CORPORATION OF AMERICA SERVICE
TO ALL THE WORLD — BETWEEN IMPORTANT U.S. CITIES — TO SHIPS AT SEA
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<tr>
<td>VQAI</td>
<td>BWGC</td>
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<td>HAVR</td>
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<td>KDUY</td>
<td>GAEY</td>
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<tr>
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KITAI

1941 DEC 2 PM 9 03

PHONE 6116

235 South King Street
Honolulu
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**Destination**: Tokyo

**Date Taken from Files**: 12/3/41

**Name of Sender**: (essential this be correct)

**Address of Sender**: (If shown on original)

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**Address of Sender:** (it shown on original) [Redacted]

**INDICATOR**—INSERT LCD, LCQ, LCP, NLT, DLT, WLT, PRESS, or GOVT.

Also Special Service as RP, TC, PC, COLLECT, etc.
Even the Emperor's Palace grounds have been damaged in recent incendiary raids on Tokyo. This XXI BomCom picture gives an excellent idea of the wide area leveled by fire.
Huge columns of smoke rose from Osaka, Japan's second largest city and greatest industrial center, after XXI BomCom B-29s made their June incendiary strike.
Enlargements of gun camera photos of the unidentified enemy plane encountered over Okinawa.
Two more views of the Jap plane sighted over Okinawa on 5 May by Air Group 9.
Tail section of SALLY 2 that attempted to land on Yontan airfield.

SALLY 2 after wheels-up landing on Yontan airfield.
This SALLY made a wheels-up landing on Yontan airfield on Okinawa to disgorge its cargo of enemy troops bent on destruction of vital installations at the field. (Signal Corps photograph).
Wreckage of two more SALLY 2s near Yonten airfield.
USS BENNINGTON aircraft took this picture of Kanoya airfield as carrier based planes struck on 13 May. A dummy plane manufacturing center is believed located here.
A large number of dummies was observed on Kenoye Airfield on 12 April in addition to several types of operational aircraft. This photo was made by XXI BomCom.
On Kikuchi Airfield, Kyushu, dummy aircraft may be seen in the revetments, while operational planes, casting solid shadows, may be seen on the field. Note the SALLY at extreme right and another in center. Picture by USS RANDOLPH on 13 May.
This VJ-17 photo shows one real aircraft (at top), two camouflaged dummies which look like real planes and three other dummies. Note the craters from bombs these fake aircraft attracted.
Rendered sketch of a SALLY dummy.
Rendered sketches of NATE (top) and SONIA dummies.
Captured drawings for construction of SALLY dummies.
Captured drawings for construction of NATE (top) and SONIA dummies.
BAKA

HEAD-ON VIEWS OF BAKA

BAKA BEING RELEASED FROM BETTY

TAIC model photos of BAKA being released from BETTY and in flight.

MODEL PHOTOS

ANGLE VIEWS OF BAKA
BAKE - RANGE ESTIMATION

- Best angle of glide - 5°35'
- Best speed of glide - 229 mph
- Max. level speed - 525 mph

Diagram:
- Rocket Power
- Altitude ft.
- Range - Miles
- Point of impact

---

PAGE 21
1. Diagram takes as an example a 100 meters by 1500 meters runway of which an area of 40 meters by 1300 meters has been repaired.

2. ◊ indicates complete repair of bomb damage.

3. ◊ indicates camouflaged, unrepaid bomb damage.

4. □ indicates red signal panel.
Front view of oxygen generating apparatus (one cylinder missing).
Oxygen generating apparatus, showing support sockets and their electrical connections.

SHADES OF DARIUS GREEN!

Identity of this nameless horror, this airborne whatisit, fortunately was neatly captioned on the photograph captured on Okinawa. It was a carefully preserved item in an enemy soldier's scrapbook. In translation the caption reads: "The brave figure of our splendid wind-dominating heavy bomber used for interception, bombing and strafing". Vintage of the two-story flying machine was not stated.
Type 92, Mod. 1 Japanese torpedo.
Tail and after body, left, and interior of the battery compartment. (MEIU No. 4 photos.)
Sugar Charlie Sugar with foremast at forecastle. This ship was attacked and left sinking by VPB-118 aircraft off the South Korean Coast on 15 May 1945.
Sugar Charlie Love: This photograph, taken by VFB-118 on 7 May off the South Korean Coast, shows details of the boom and hatch arrangement on this 2300-ton cargo ship. Foremast serves the two forward hatches, while the after hatch is handled by the kingposts and booms at the bridge. Note the gun crew member with shell on his shoulder, ready to load the 3-inch gun. Machine guns are mounted on platforms on each side of the bridge.

Fox Tare Dog: Two versions of this pre-war cargo vessel were attacked and photographed off the South Korean Coast by VFB-118 aircraft. These old three-hatch ships of approximately 1300 tons are still seen frequently. They are among the most numerous pre-war types still available to the Japanese. The after deck hatch is served by a mast placed either at the superstructure or poopdeck, as seen here.
Pillbox with wire net covering fire lane. Brush has been blown from the wire.

Heavy screen mesh laced with grass and leaves completely camouflages a 320 mm spigot mortar position.
Upper left, camouflage net covers 25 mm MG but does not camouflage emplacement. A camouflaged AT position is shown in upper right. In the center of the photograph at right is a light tank mounting a 37 mm gun. Tanks were used as pillboxes. Lower left photo shows net covering the entrance to a pillbox. It was impossible to tell from photographs whether the rock, shown at lower right, housed a MG or was a normal ground formation.
Casemated CD guns over East Boat Basin. Nets and brush have been blown away by gunfire and only the ground on top of these concrete blockhouses remains for camouflage.
U.S. Marines blow up a cave harboring Japanese snipers on Okinawa. A cloud of smoke marks the end of that particular stronghold 1,000 yards behind the front lines. Official Navy photograph.
STRONG POINT POSITIONS

The accompanying sketches are reproduced from a document captured on Okinawa (CINCPAC-CINCPAC Item No. R-18321A). The one on the left shows method of organizing a typical cave-type "fire point" (built around an LMG, riflemen and close-attack personnel concealed in spider holes). The sketch below shows the combination of several such "fire points" into a strong point position affording mutual support by interlocking fields of fire that provide all-round protection.
The photographed open sight for a Type 1 47 mm antitank gun was recovered on Iwo Jima. It is calibrated up to 1800 meters (1980 yards) in 100 meter increments. Range is set by rotating the knurled cylinder clockwise until the desired setting is opposite the index at the rear. This elevates the sighting aperture. It is used in place of the usual optical sight and is so simple that little instruction or practice would be necessary to lay the weapon.
NEW NOTE IN CAMOUFLAGE

This is one of the boats used by Japs on Okinawa who tried an infiltrating raid behind our lines. Of interest is the use of assorted pieces of bedding including quilts, blankets and native mattresses, apparently camouflage.
Front view of 11th Year Type 12 cm 45 caliber CD gun on Luzon. (5250th TIC Co. photo)
View showing elevation controls on left side of 11th Year Type 12 cm gun. (5250th TIC Co. photo).

Breech block of 11th Year Type 12 cm CD gun on Iwo Jima.
This improvised armored car was captured in the Philippines. The vehicle has 3/16 inch steel plate as armor, reinforced internally with 3½ inches of concrete. The chassis is that of a commercial 1½ ton Ford truck. It was so overloaded, however, that cross-country mobility was virtually lost. Filipinos reported that the Japanese used the car for troop transport and protection against guerrilla attacks in Panay. A light machine gun was mounted in the turret. A similar vehicle without the turret and without concrete reinforcement also was recovered. It apparently was used for the same purpose.
Graph illustrating monthly production of printed and mimeographed intelligence material for the Central Pacific Area, 1 June 1944 to 31 May 1945.
Graph illustrating quarterly production of contact print photographs.

Graph illustrating production of maps and charts for recent major Pacific operations. (Tonnage for the Philippines includes only that produced in the Central Pacific Area).
Incendiaries starting their downward path from B-29s of the XII Bomber Command during a raid on 29 May on Yokohama. In this daylight raid Superforts wrecked 6.9 square miles of the city.
A- First Sighted
B- Reported to USS WARD.
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**Number of copies required**

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**Confidential**

**Remarks.**

**Action To:**

Prepare reply

See Director

Return to Director

Show C. N. O.
Organization of the Japanese Fleets

The following revision of Op-16-F-2, OI Serial #14-41 of April 7, 1941 has been prepared as a result of information received, which gives a much more complete picture of the organization of the Japanese Fleets than we have had for several years. It supersedes and replaces the former report on this subject.

The principal changes may be summarized as follows:

(1) The Japanese Naval Forces at sea are organized into two main commands - the Combined Fleet and the Japanese Naval Forces in China.

(2) The Combined Fleet includes units such as the Fourth Fleet, which were formerly presented as quasi-independent units. According to reliable information, the Japanese now have the following subdivisions in the Combined Fleet:
   
   (a) First Fleet or Battle Force.
   (b) Second Fleet or Scouting Force.
   (c) Third Fleet or Blockade and Shipping Control Force.
   (d) Fourth Fleet or Mandated Islands Defense Force.
   (e) Submarine Force (also called the Sixth Fleet)

(3) The Japanese Naval Forces in China are divided into three main commands:

   (a) The 1st China Expeditionary Fleet (or Central China Fleet)
   (b) The 2nd China Expeditionary Fleet (or South China Fleet)
   (c) The 3rd China Expeditionary Fleet (or North China Fleet)

(4) It will be noted that the Japanese Navy now includes more vessels in active service than ever before. Only a few vessels are undergoing repair, or are attached to Naval Stations. Many merchant ships, not shown on the following pages, have been taken over by the Navy. It is evident that Japan has marshalled its naval strength and is on a full wartime footing.

Distribution By (Originator)

Date: July 29, 1941