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ONI 222-J The Japanese Navy

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Official United States Navy Reference Manual Prepared by the Division of Naval Intelligence June 1945

Instructors Reading this Document

PORT 1110853

Contents

Silhouettes of Japanese
 Naval Vessels

- List of Japanese Naval Vessels Unline
 by Design Classes
- Statistical Summary of Principal Combatant Types
- War Loss Section
- Graphic and Statistical Reference to War Loss Section

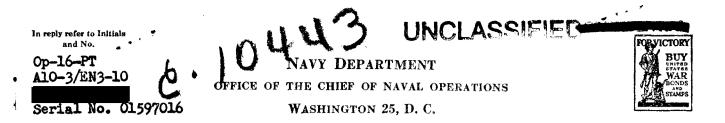
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Page No	o. Title
Ι	Introduction
II a II	The Naming of Japanese Warships
III	Japanese Warship Type Terminology and Equivalents
V	List of Japanese Naval Vessels by Design Classes
XII	Silhouettes of Japanese Naval Vessels
1.	Statistical and Pictorial Summary
XVII	War Loss Section
XXII	Statistical and Graphic Reference to Wan Loss Section

1

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9 August 1945

From: The Director of Naval Intelligence. To: All Holders of ONI 222-J, THE JAPANESE NAVY.

Subject: "List of Japanese Naval Vessels by Design Classes" in ONI 222-J - Changes to.

1. The new standard reference manual, ONI 222-J, THE JAPANESE NAVY, was distributed in July, 1945.

2. Inasmuch as recent operations have altered the subject list substantially, and many of the Principal Combatant Types have been rendered inoperative, the following changes to ships in this category should be entered on pages VI and VII of ONI-222-J:

> Note: *Indicates ship heavily damaged. **Indicates ship heavily damaged, probably destroyed.

BATTLESHIPS

KONGO CLASS

ISE CLASS *BB-7 ISE **BB-8 HYUGA

NAGATO CLASS *BB-9 NAGATO

AIRCRAFT CARRIERS

CV UNRYU CLASS *AMAGI *KATSURAGI

AIRCRAFT CARRIERS (SMALL)

Add: CVL IBUKI (identification unconfirmed)

AIRCRAFT CARRIERS (ESCORT)

*CVE-4 KAIYO

Add: SEAPLANE CARRIERS

Add: CVS-1 NOTORO

AOBA CLASS **CA-3 AOBA

HEAVY CRUISERS

NACHI CLASS Delete CA-5 HAGURO (War Loss) *CA-7 MYOKO Delete CA-8 ASHIGARA (War Loss) Delete note "(one unit sunk, May 1945)"

ATAGO CLASS *CA-10 TAKAO

TONE CLASS *CA-17 TONE

Delete CA-19 IBUKI (see CVL IBUKI)

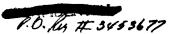
LIGHT CRUISERS

Add: KUMA-NATORI CLASS

Add: *CL-5 KITAGAMI

**CL-22 OYODO

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2 9 SEP 1945

Op-16-PT A10-3/EN3-10

Serial No. 01597016

9 August 1945

Subject: "List of Japanese Naval Vessels by Design Classes" in ONI 222-J - Changes to. FLEET SUBMARINES (SS) LIGHT CRUISERS I-161 CLASS Delete YASOJIMA, (ex Escort) Delete I-161 (War Loss) (War Loss) Delete I-163 (War Loss) DESTROYERS I-168 CLASS Delete I-169 (War Loss) MINEKAZE CLASS Delete I-174 (War Loss) Delete I-175 (War Loss) Delete DD-12 NADAKAZE (Decommissioned) HATSUHARU-SHIGURE CLASS I-176 CLASS Delete I-179 (War Loss) Delete I-184 (War Loss) Delete I-185 (War Loss) Delete DD-60 HATSUHARU (War Loss) ASASHIO-KAGERO CLASS Delete DD-95 AMATSUKAZE I-361 CLASS Delete I-365 (War Loss) (Decommissioned) SUBMARINES, COASTAL TYPE -TAKANAMI CLASS Delete DD-127 KISHINAMI under 1,000 tons (OSS) (War Loss) Delete DD-128 SHIRANAMI RO-60 CLASS Delete RO-67 (Decommissioned) (existence unconfirmed) Delete RO-68 (Decommissioned) SHIMAKAZE CLASS Delete DD-129 SHIMAKAZE RO-35 CLASS Delete RO-36 (War Loss) (War Loss) Delete RO-42 (War Loss) Delete RO-48 (War Loss) SUBMARINE CRUISERS (SS) Delete RO-51 (War Loss) Delete RO-52 (War Loss) I-5 CLASS Delete I-5 (War Loss) Delete I-6 (War Loss) Delete RO-53 (War Loss) Delete RO-54 (War Loss) RO-100 CLASS I-9 CLASS Delete RO-111 (War Loss) Delete I-10 (War Loss) Delete RO-114 (War Loss) Delete RO-117 (War Loss) <u>I-400 CLASS</u> (Cruiser - Transport) Add I-402, I-404 Delete RO-118 (War Loss)



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Serial No. 01597016

Op-16-PT

A10-3/EN3-10

.

9 August 1945

Subject: "List of Japanese Naval Vessels by Design Classes" in ONI 222-J - Changes to.

RO-100 CLASS Delete RO-119 (War Loss) Delete RO-120 (War Loss) Delete RO-121 (War Loss) Delete RO-123 (Existence unconfirmed) Delete RO-124 (Existence unconfirmed) Delete RO-125 (Existence unconfirmed)

RO-500 CLASS Delete RO-501 (War Loss)

C. G. Moore, ' By direction.

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ERRATA - ONI-222-J

- Page 31 CA HEAVY CRUISERS, NACHI CLASS Under "Dimensions," delete "11,500 tons (standard)" and insert "12,000 tons (standard)"
- Page 35 CA HEAVY CRUISERS, ATAGO CLASS Under "Dimensions," delete "12,500 tons (standard)" and insert "<u>11,000 tons</u> (standard)"

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INTRODUCTION TO ONI 222-J—THE JAPANESE NAVY

ONI 222-J is the standard reference manual on the Japanese Navy.

Reference manuals on the world's navies will hereafter be issued in loose-leaf form and in the present size $(8 \times 10\%')$. Replacement sheets and revisions will be issued by ONI and properly included in the basic manual by copy holders.

ONI 222-J replaces the previous manual of this title issued in July 1944. This publication should be destroyed upon receipt of the complete manual.

ONI 222-J is issued in two parts. The first part includes an operational design list, war loss list, and silhouette chart of principal combatant types, as well as drawings, statistics, and photographs. The second part covers minor combatant types, including information on hospital ships, and warships of other nations seized by the Japanese.

JUNE 1945.

HEWLETT THEBAUD Rear Admiral, U. S. Navy Director of Naval Intelligence

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ONI 222–J 645616°----45-----1 Division of Naval Intelligence

Issued June 1945

I

THE NAMING OF JAPANESE WARSHIPS

The following table illustrates the system for naming Japanese naval vessels. Familiarity with the principles on which Japanese naval nomenclature is based will facilitate classification of new or previously unreported vessels.

BATTLESHIPS Names of ancient provinces AIRCRAFT CARRIERS Names of birds or dragons Note: Aircraft carriers of the UNRYU Class, bearing names of mountains, were converted from large cruiser hulls. BATTLE CRUISERS, LARGE CRUISERS, Names of mountains and HEAVY CRUISERS NOTE: TONE and MOGAMI Classes, originally designed as light cruisers, were named for rivers. LIGHT CRUISERS Names of rivers DESTROYERS Names of astronomical and earthly phenomena SECOND-CLASS DESTROYERS Names of plants Designated by numerals SUBMARINES, MINESWEEPERS, SUB-MARINE CHASERS, MOTOR TORPEDO BOATS SPECIAL SERVICE SHIPS Land projections and points which are guiding points in navigation.

II

JAPANESE WARSHIP TYPE TERMINOLOGY AND 'EQUIVALENTS

Type Symbol	ONI 222-J Type Designation	JAPANESE TYPE TERMINOLOGY	OFFICIAL U. S. NAVY Type Designation	Type Symbo
BB	Battleship	Senkan	Battleship	BB
CVB	Large Aircraft Carrier	Kokubokan	Aircraft Carrier, Large	CVB
CV	Aircraft Carrier	Kokubokan	Aircraft Carrier	CV
CVL	Small Aircraft Carrier	Kokubokan	Aircraft Carrier, Light	CVL
CVE	Escort Aircraft Carrier	Kokubokan	Aircraft Carrier, Escort	CVE
				-
CVS	Seaplane Carrier	Suijokibokan	Dropped	Dropped
CB	Large Cruiser		Large Cruiser	CB
CA	Heavy Cruiser	Itto Junyokan (First Class Cruiser).	Heavy Cruiser	CA
CL	Light Cruiser	Nito Junyokan (Second Class Cruiser).	Light Cruiser	CL
DD	Destroyer	Itto Kuchikukan (First Class Destroyer).	Destroyer	DD
ODD	Destroyer, Second Line or Escort.	Nito Kuchikukan (Second Class Destroyer).	Dropped	Dropped
тв	Torpedo Boat	Suiraitei	None	None
	-		(Nearest equivalent Des-	
			troyer Escort Vessel)	(DE)
SS	Submarine Cruiser	Itto Sensuikan (First Class Sub-	Submarine	SS
		marine). Long-range Cruiser (Jun) Sub-		
		marine.		
SS	Fleet Submarine	Itto Sensuikan (First Class Sub- marine).	Submarine	SS
		Navy Ministry Large (Kaidai) Submarine.		
OSS	Submarine, Coastal	Nito Sensuikan (Second Class Submarine). Navy Ministry Medium (Kai-	Submarine	SS
		chu) Submarine.		
\mathbf{SM}	Submarine Minelayer	Kisen Sensuikan	Minelaying Submarine	\mathbf{SM}
APS	Transport Submarine	Yusen Sensuikan	Transport Submarine	APS
\mathbf{PF}	Frigate	Kaibokan (Sea Defense Vessel).	Frigate	\mathbf{PF}
OCA	Cruiser, Second Line	Kaibokan (Coast Defense Ship).	Dropped	Dropped
CL(T)	Training Cruiser	Renshu Junyokan	Dropped	Dropped
XCL	Auxiliary Cruiser		None	None
CM		Fusetsukan	Minelayer	CM
-	Minelayer		-	
XCM	Converted Minelayer	Tokusetsu Fusetsukan	Minelayer	CM
AM	Minesweeper	Sokaitei	Minesweeper	AM
PG	Gunboat	Hokan (Large, Ocean-going Gunboat).	Gunboat	PG
\mathbf{PC}	Submarine Chaser, Large	Kusentei (Submarine Chaser)	Submarine Chaser, 173 ft	\mathbf{PC}
SCS	Submarine Chaser, Small	Tokumu Kusentei (Special Duty Submarine Chaser).	Submarine Chaser, 110 ft	\mathbf{SC}
РТ	Motor Torpedo Boat	Gyoraitei	Motor Torpedo Boat	\mathbf{PT}
PR	River Gunboat	Kaje Hokan	River Gunboat	PR
AV	Seaplane Tender	Suijokibokan	Seaplane Tender	AV
XAV	Converted Seaplane Tender.	Tokusetsu Kansen	Seaplane Tender	AV
XAPV	Converted Aircraft Transport.	Tokusetsu Kansen	Aircraft Ferry	APV
	-		-	
AS	Submarine Tender	Sensuibokan	Submarine Tender	AS
XAS	Converted Submarine Tender.	Tokusetsu Kansen	Submarine Tender	AS
AR	Repair Ship	Tokumukan	Repair Ship	AR
ARS	Salvage Vessel	Tokumukan	Salvage Vessel	ARS
XARS	Converted Salvage Vessel	Tokumukan	Salvage Vessel	ARS
AO	Fuel Oil Tanker	Tokumukan	Oiler, Fuel Oil Tanker	AO
				A T3
AF	Provision Storeship	Tokumukan	Provision Storesnip	\mathbf{AF}
	Provision Storeship Cable Layer	Tokumukan Denran Fusetsutei	Provision Storeship Dropped	AF Dropped

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Division of Naval Intelligence Issued June 1945

JAPANESE WARSHIP TYPE TERMINOLOGY AND EQUIVALENTS-Continued

Type Symbol	ONI 222-J Type Designation	JAPANESE TYPE TERMINOLOGY	OFFICIAL U. S. NAV Type Designation	Y Type Symbol
LSV	MLC Carrier	Tokusetsu Kansen	Landing Ship, Vehicle	LSV
AG	Miscellaneous Auxiliary		Miscellaneous Auxiliary	AG
AGS	Surveying Ship	Tokumukan	Surveying Ship	AGS
YP	Patrol Vessel, District		Patrol Vessel, District	ΥP
APD	Numbered Naval Transport	Yusokan	Fast Transport, Destroyer	APD
LSM	Numbered Auxiliary Trans- port.	Tokusetsu Yusokan	Landing Ship, Mechanized	LSM
CMc	Minelayer, Coastal	Fusetsutei*	Minelayer, Coastal	CMc
AMc	Minesweeper, Coastal	Sokai Tokumutei**	Minesweeper, Coastal	AMc

*Referred to in other publications as DM. **Referred to in other publications as AM(S).

LIST BY DESIGN CLASSES

DESIGN CLASSES

STATISTICAL SUMMARY

AK LOSS

LIST OF JAPANESE NAVAL VESSELS BY DESIGN CLASSES

The various types of naval vessels are grouped, in order of their relative importance, under the following principal headings:

(A) PRINCIPAL COMBATANT TYPES
(B) MINOR COMBATANT TYPES
(C) AUXILIARY TYPES
(D) DISTRICT CRAFT
(E) HOSPITAL SHIPS
(F) AVAILABLE NON-JAPANESE WARSHIPS

When two or more vessels are known to be built to a common design, they are grouped under the name ship of the class. The name ship is usually the first unit built to a given design. Established usage will, however, sometimes create exceptions to this rule.

Ships without sisters are listed separately, and the term "Class" dropped, to denote that these are single ships.

• Denotes single ship, not unit of a class.

The two accepted methods for transliteration of Japanese words into English spelling are the Hepburn System and the Kokutai (Japanese official) System. The Hepburn System represents the more nearly phonetic approach to spoken Japanese and is followed in this publication.

The following list of equivalents is provided to enable the user of ONI 222–J to reconcile any Kokutai version of a Japanese ship name with the more familiar or Hepburn spelling:

Hepburn	Kokutai
${f FU}$	$\mathbf{H}\mathbf{U}$
SHI	SI
SH	SY
CHI	\mathbf{TI}
TSU	TU
\mathbf{CH}	ТҮ
JI	ZI
JU	ZYU
JO	ZYO
Typical examples are:	
SHIRETOKO	SIRETOKO
CHIDORI	TIDORI
ASHIGARA	ASIGARA
MUTSU	MUTU

ONI 222-J

V

LIST BY DESIGN CLASSES

(A) PRINCIPAL COMBATANT TYPES

BATTLESHIPS

KONGO Class bb 4-Haruna

ISE Class BB 7—ISE BB 8—HYUGA (Both units refitted 1944)

NAGATO Class bb 9—Nagato

AIRCRAFT CARRIERS

HAYATAKA (JUNYO) Class cv 8—Hayataka (Junyo) (ex Kashiwara Maru)

CV UNRYU Class Amagi Katsuragi Kasagi Aso (Under construction) Ikoma (Under construction)

AIRCRAFT CARRIERS (Small)

• CVL 1-HOSHO (Training vessel)

ZUIHO Class cvl 4---Ryuho (ex as Taigei)

AIRCRAFT CARRIERS (Escort)

• CVE 4-KAIYO (ex Argentina Maru)

CVE's (Kobe type) 2 units, 1 completed.

CVE's ("MAC" ships) 2 completed, others building.

•Denotes single ship, not unit of class.

*Variation in main armament differentiates this unit from TAKANAMI Class.

HEAVY CRUISERS

AOBA Class ca 3—Aoba

NACHI Class

са 6—Надиго са 7—Муоко са 8—Азнідага (One unit sunk, May 1945)

ATAGO Class ca 10-Takao

TONE Class ca 17—Tone

• са 19-Івикі

LIGHT CRUISERS

AGANO Class CL 24-YAHAGI CL 25-SAKAWA (One unit sunk, April 1945)

• сь 22-Очоро

• YASOJIMA, (ex-Escort)

DESTROYERS

MINEKAZE Class

DD 4—SAWAKAZE DD 8—YUKAZE DD 10—SHIOKAZE DD 12—NADAKAZE DD 15—NOKAZE Units believed rearmed for escort duty.

KAMIKAZE Class dd 16—Kamikaze dd 18—Harukaze dd 21—Hatakaze

FUBUKI Class dd 52-Ushio dd 56-Hibiki

HATSUHARU-SHIGURE Class dd 60-Hatsuharu dd 61-Hatsushimo

DD 66-SHIGURE

ASASHIO-KAGERO Class

dd 84--Kasumi dd 87--Shiranuhi dd 92--Yukikaze dd 95--Amatsukaze dd 101--Hamakaze

TERUTSUKI Class Harutsuki Yoitsuki Natsuzuki Hanazuki

TAKANAMI Class

dd 121—Fujinami dd 127—Kishinami dd 128—Shiranami *Asashimo

SHIMAKAZE Class DD 129-SHIMAKAZE

ESCORT DESTROYERS

MATSU Class

The following names have been reported for units of this class: Момо KATSURA Момі HASHI TAKE SAKURA Uме Maki SUGL Kusu TSUBAKI SUSUKI Hinoki SUMIRE KAYA HASU KASHIWA Enoki TACHIBANA KAEDE Yanagi Kashi HAGI Keyaki FUJI Kiri Аог NARA KIKU TSUTA

KURI-WAKATAKE Class

ODD 7 — KURI ODD 18—HASU ODD 11— KAKI ODD 26— ASAGAO ODD 12— TSUGA

All units of this class have been converted to some subsidiary capacity such as escort vessels, light minelayers, fast minesweepers, and

			•
tenders. I have beer	Many of the OI transferred		I–165 Class I–165
of Matsu		1	I–168 Class 1–169
as MOMI	ss was former Class	ly known	I–176 Class 1–177
TORPED	O BOATS		I-179
	~		I-201 Class
CHIDORI TB 1CHI			I-201
тв 1Сні тв 3Том			1–202
тв 310х тв 4Нат			I-351 Class
			1–351
OTORI CI TB 6—HAY			I-361 Class
тв 0—11А тв 11—КА			1–361
тв 12—Кі			1-362
10 12 14			1–363
		Hanna	1–364
	RINE CRU	JISERS	1–365
(SS)			
I–5 Class			SUBMARI
1–5 Class 1–5	I6	1–8	Type—u
			(OSS)
I-9 Class	ı–12	· 1-14	RO-57 Class
I-10	1-13	ı—15	R0-57
I-15 Class	1		RO-60 Class
1-26	1-41	*ı –47	RO-62
I-36	1 -44	*ı–48	RO-63
1-37	1–45	*1–4 9	RO-35 Class
138	* I-46		RO-36
I-400 Clas	s (Cruiser Tr	ansport)	RO-41
1-400 chuc	1–401	1-405	RO-42
1-400	1-401	1 100	RO-43
			RO -46
	SUBMARI	NES	DO 100 (II-
(SS)			RO-100 Cla RO-109
I 159 Cla	7.0		RO-109 RO-111
I-153 Clas I-153	ss 1–156	I 159	RO-111 RO-112
1–155 1–154	1–157	1 100	RO-113
1-155	1–151 1–158		ко-114
	ng and guard	vessels)	
•		- /	RO-500 Clas
I-161 Clas	SS		по-500 (ex

I-184 I-186 I-185 I-187 1–20**3** I-205 I-204 1 - 352I~366 1-371 1-367 I-372 1-368 I-373 I-369 1-370

I-174

I-175

RO-52

RO-53 RO-54 RO-55

RO-56

INES. Coastal under 1,000 tons s

ro-57	ro-58	ro-59
RO-60 Class		
ro-62	ro-64	RO-68

R0-02	R0-04	R0-
ro-63	RO-67	•

nu-35 Ulass	
ro-36	ro-47
ro-41	RO-48
ro-42	RO -49
ко-43	ro-50

ass

ro-109	ro-115	ro-121
RO -111	RO-117	ro-123
RO-112	ro-118	RO -124
ro-113	RO-119	R O-125
ко-114	RO-120	

RO-51

58

I-163

German U-1224) RO-501

LIST BY DESIGN CLASSES

A few 1,600-ton minelayers and 1,200-ton U-Kreuzers have also been reported turned over to the Japanese.

SUBMARINE MINE-LAYERS (SM)

I-121 Class I-121 1-122

TRANSPORT SUB-MARINES (APS)

I–52 Class _I –52	1–53	
I–54 Class 1–54	1—56	1–58

ARMY TRANSPORT **SUBMARINES**

YU Type Number of units undetermined.

MIDGET SUBMARINES

MATO Type

SMALL SUBMARINES

HA-101 Class

	Reports indicate
that displacemen	t of these units is
under 500 tons.	
на-101	на-106
102	107
103	108
104	109
105	110

HUMAN TORPEDO (Kamishio)

ULITHI Type

(B) MINOR COMBATANT TYPES

FRIGATES	(\mathbf{PF})	FUKUE ·	**Ukuru	***MIKURA Class	
2	()	Amakusa	**Okinawa	Mikura	YASHIRO
SHIMUSHU	Class	Manju	**Амамі	MIYAKE	CHIBURI
Shimushu	ETOROFU	Kanju	**Aguni	Nomi	Shonan
Kunajiri	Oki	Kasado		KURABASHI	
HACHIJO	TSUSHIMA				

*These units formerly of the I-16 Class probably carry midget submarines. •Denotes single ship, not unit of class. **Grouped in UKURU Class. Six additional units reported. See page 107. ***Five new units reported. See page 109.

ONI 222-J

I-161

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I-162

Division of Naval Intelligence

Issued June 1945

LIST BY DESIGN CLASSES

FRIGATES (PF)-Con.

	#1 Class—(formerly
called PF	UN-2 Class)
PF 1	PF 35
3	37
9	39
13	41
1 7	43
19	45
23	47
25	49
27	51
29	53
31	

Additional units believed operational; numbers unknown. DE-UN-1 appears to be related in design to this class.

KAIBOKAN #2 Class-(formerly called PF UN-1 Class)

calleu FF	UN-I Class)
PF 2	PF 36
4	38
6	40
8	42
1 2	44
14	46
16	48
18	50
22	52
26	54
30	56
32	112
34	130

Additional units believed operational; numbers unknown.

SECOND-LINE CRUISERS

 OCA 1—ASAMA—training auxiliary (CM 1 TOKIWA is a sistership) OCA 2—YAKUMO 	NO. 13 Class ам No. 1 3 ам No. 14
• OCA 3—AZUMA—immobilized	NO. 7 Class
IZUMO Class	ам No. 8
oca 4—Izumo	ам No. 11
OCA 5-IWATE	
• OCA 6-KASUGA-training aux-	NO. 19 Class
iliary	ам No. 19–24
• ocl—Yahagi	am No. 27
• OBB-FUJI-training auxiliary	ам No. 29
• OBB-SHIKISHIMA-training aux-	ам No. 30
iliary	AM No. 33

• Denotes single ship, not unit of class.

TRAINING CRUISERS

KATORI Class cl (t) 2-Kashima

MINELAYERS (Large)

• CM 1-TOKIWA (ex oca; oca 1-Asama is a sistership)

HATSUTAKA Class cm 7—Hatsutaka cm 9—Wakataka

CONVERTED MINE-LAYERS

• XCM 2—CHOAN MARU
• XCM 3
• xcm 4—Kinjo Maru
• XCM 5KOEI MARU
• XCM 6—MINSEI MARU
• XCM 8SHINKO MARU
TATSUHARU MARU CI

TATSUHARU MARU Class

xcm 9—Tatsuharu Maru xcm 10—Tatsumiya Maru

MINESWEEPERS (Fleet Sweepers)

NO. 1 Class ам No. 1 ам No. 4 ам No. 2 ам No. 5 ам No. 3

110. 10 01035	
ам No. 13	am N
ам No. 14	am N
NO. 7 Class	
AM No. 8	am N
ам No. 11	
NO. 19 Class	
ам No. 19–24	am N
ам No. 27	am N
ам No. 29	am N
ам No. 30	am N
AM No. 33	

NO. 101 Class, ex British

AM No. 101 AM No. 102 Number represents ship's name and has been adopted as design designation.

GUNBOATS

• pg 2-Saga

- pg 3—Asuga
- рд 4—Атака
- pg 5—Hitonose (ex Chinese Ming Sen)

HASHIDATE Class pg 7----Uji

SUBMARINE CHASERS-(Large)

PC 1 Class (includes former PC 4 Class) **P**C 1-10 PC 12 PC 13 Class (includes former PC 50 Class) **PC** 14-15 рс 35-37 рс 17-21 рс 41-44 PC 23 рс 46-47 PC 26 PC 49-52 PC 28 PC 56-63 PC 30-31 PC 67 PC 33 PC 109

No. 4	SCS 1 Class	
No. 5	scs 3–9	scs 41–45
	scs 11–13	scs 48
	scs 16–17	scs 50–52
	scs 20	scs 55
No. 15	scs 24	scs 57–61
No. 17	scs 27	scs 63–94
	scs 29	scs 96–100
	scs 32	scs 151–164
No. 12	scs 34	scs 166–177
	scs 36–37	
	SCS 101 Class units)	(captured Dutch
Ňо. 3 4	scs 101–117	
Vo. 38		
Vo. 39	SCS 251 Class	(formerly called
No. 41	SCS 51 Class)	
	scs 251	

MOTOR TORPEDO BOATS

PT 1 Class (Adapted from Italian design) рт 4

PT 101 Class (Dutch built; salvaged at Soerabava) рт 101 рт 109-113 PT 114, ex Philippine Q III рт 115-118 рт 121

PT 10 Class **РТ 10-16**

PT 151 Class рт 151-156

PT 201 Class рт 201-205 рт 213-218

PT 220 Class рт 220-229 рт 316-326 рт 349-354

PT 235 Class

PT 241 Class рт 241-286 рт 457-467

рт 506-528

рт 470-473

PT 301 Class рт 301-315

PT 327 Class рт 327-348 рт 355-357

PT 411 Class рт 411-420 рт 426-450

PT 468 Class рт 468 рт 482-490

PT 469 Class рт 469

PT 474 Class рт 474-481

PT 538 Class рт 538-553 рт 1101-1108 рт 838-900

Additional boats have been completed.

HAYABUSA No. 1 Class PGM Nos. 1-9

(C) AUXILIARY TYPES

SANUKI MARU Class XAV 8-SANUKI MARU

> AIRCRAFT TRANS-PORTS

KAMOGAWA MARU Class XAPV 4-KAMOGAWA MARU

SUBMARINE TENDERS

• AS 1-KOMABASHI

JINGEI Class AS 3-CHOGEI

LIST BY DESIGN CLASSES

HAYABUSA No. 10 Class рдм Nos. 10-26 рдм Nos. 51-73 рдм Nos. 204-211

HAYABUSA No. 74 Class рдм Nos. 74–100 PGM Nos. 201-203

RIVER GUNBOATS

• pr 1—Toba

HIRA Class PR 2-HIRA PR 4-KATADA рв 3-Нојџ PR 5-SETA

ATAMI Class pr 6—Atami

pr 7—Futami

SUMIDA Class PR 8-SUMIDA

- pr 9—Fushimi • pr 10-Maiko
- (ex Portugese PR MACAU) • pr 11----TATARA
- (ex USS WAKE)
- pr 13-Suma (ex HMS Moth) • Pr 14—Narumi (ex Italian pr Ermanno Car-LOTTO)
- pr 15-Okitsu (ex Italian OCM LEPANTO)

CONVERTED SUB-MARINE TENDERS

• XAS 1-MANJU MARU (ex Santos Maru)

REPAIR SHIP

• AR 3-OSHIMA

SALVAGE VESSELS

- ARS 1-KURIHASHI
- ARS 2-YODOHASHI
- ARS 3-SARUHASHI

• Denotes single ship, not unit of class.

ONI 222-J

Division of Naval Intelligence

Issued June 1945

рт 401-410 рт 451-454 рт 421-425

рт 455-456 рт 501-505

рт 235-240

SEAPLANE TENDER

• АУ 1-ТАКАСНІНО

(Name uncertain)

CONVERTED SEA-

PLANE TENDERS

KAMIKAWA MARU Class

XAV 2-KUNIKAWA MARU

XAV 3-KIMIKAWA MARU

• XAV 7-OKITSU MARU

LIST BY DESIGN CLASSES

CONVERTED SALVAGE VESSELS

- XARS 1—MATSUEI MARU (ex Shoei Maru)
- XARS 5—ESA MARU (ex British salvage vessel, Elsie Moller)
- XARS 6-HARUTA MARU

FUEL OIL TANKERS

SUNOSAKI Class ao 1---Sunosaki

SHIRETOKO Class AO 2-SHIRETOKO

ONDO Class ao 8-Ondo ao 9-Hayatomo

KINESAKI Class (formerly called HAYASAKI Class)

AO—KINESAKI (EX AG NANSHIN) AO—HAYASAKI AO—SHIRASAKI AO—ARASAKI (Also employed as AF's.) • AO—NOSAKI (EX AG NANKAI)

• AO-KURASAKI (ex Oha Maru)

HARIO Class

- —Harjo
- AO-NOTORO, (formerly cvs-1)
- AO-KAMOI, (formerly cvs-2)

PROVISION STORE-SHIPS

• AF 2-Kashino

MUROTO Class

COASTAL MINELAYERS

(Called "Special Minelayers" by the Japanese)

TOSHIMA Class CMC 1---TOSHIMA CMC 2---KUROSHIMA

• Denotes single ship, not unit of class.

CABLE LAYERS

HASHIMA (HATSUSHIMA) Class

- arc 1—Hashima (Hatsushima) arc 2—Tsurushima arc 3—Tateishi
- ARC 4-ODATE
- arc 5–-Toyo Maru
- ARC 6-YAMABATO MARU

MISCELLANEOUS AUX-ILIARIES

- AG 1—SETTSU (ex BB; target ship)
- AG-YAKAZE (ex DD; target ship)
- AG—HAKACHI (Target ship)
- AG-OHAMA (Target ship)
- AG-OSASHI (Target ship)
- AG 2—OTOMARI (Ice-breaker)

SURVEYING SHIPS

- AGS 1—YODO (ex pg 1)
- AGS 2-KOSHU
- AGS 3-KATSURIKI, (ex cm-2)

PATROL VESSELS

PATROL BOAT NO. 1 Class No. 2

 PATROL BOAT
 NO. 31 Class

 No. 34
 No. 38

 36
 36

PATROL BOATS

• No. 46

(D) DISTRICT CRAFT

CMC 3-KATOKU CMC 4-ASHIZAKI CMC 5-WASHIZAKI CMC 6-ENTO CMC 7-KATASHIMA CMC 8-KUROKAMI

- No. 102
- No. 103
- (ex US ам--Finch) • No. 104
- (ex Dutch)
- No. 105
- (ex US Arayat)
- No. 106
- (ex Dutch dd-Banckert) • No. 107
- (ex USS Genesee)
- No. 108
- (ex Dutch Arend)
- No. 109

TRANSPORTS (YUSO-KAN)—APD

(Listed by the Japanese as "First-Class Transports") Ships are numbered in one and two-digit numbers.

AUXILIARY TRANS-PORTS (TOKUSETSU YUSOKAN)—LSM

(Listed by the Japanese as "Second-Class Transports")

Ships are numbered starting with 101.

The following class names have been reported:

HA Class I Class NI Class

ATTACK TRANSPORTS-APA

TAMATSU MARU KIBITSU MARU DAYASAN MARU These ships are similar in design; more units are believed to exist.

- смс 9—Enoshima смс 10—Kurozaki смс 11—Ninoshima
- СМ_С No. 1 Class см_с No. 3 • см_с No. 101

SMALL MINELAYERS

(Japanese designation)

TSUBAME Class

см_с 12---Тзиваме

SOKUTEN Class

CMC 19—KYOSAI CMC 20—NARIU CMC 22—YURISHIMA

AH 1—AMERICA MARU AH 2—YOSHINO MARU AH 3—FUSO MARU AH 4—SEATTLE MARU AH 5—SIBERIA MARU AH 6—CHICAGO MARU AH 7—MIZUHO MARU AH 8—ASAHI MARU

(Design class list, through Principal and Minor Combatant Types, of Siamese, Nanking-Chinese, Manchukuan, ex French, ex British, and ex U. S. units, believed available to Japan.)

PRINCIPAL COMBAT-ANT TYPES

LIGHT CRUISERS

NING HAI Class NING HAI PING HAI (Chinese)

DESTROYERS

- HAI WEI (Manchukuo, ex Japanese KASHI (Momo Class))
- PHRA RUANG (Siamese, ex British Radiant ("Thornycroft M" Class))
- THRACIAN (ex British ("Admiralty S" Class); status doubtful)

VAN GHENT Class WITTE DE WITH (ex Dutch; status doubtful)

• Denotes single ship, not unit of class.

ONI 222-J

CMC 23—NUWASHIMA CMC 24—MAESHIMA CMC 27—TAKASHIMA CMC 28—ARAIZAKI CMC 29—ISHIZAKI CMC 31—SAISHU CMC— NIIZAKI CMC 22-31—Formerly designated YURISHIMA Class

(E) HOSPITAL SHIPS

AH 9—KOHOKU MARU AH 10—MANILA MARU AH 11—ARABIA MARU AH 12—HOKUSHIN MARU AH 13—BAIKAL MARU AH 14—MURO MARU AH 15—TENO MARU AH 16—MIKASA MARU LIST BY DESIGN CLASSES

AJIRO Class CMC—AJIRO

COASTAL MINESWEEP-ERS

(Called "Special Minesweepers" by the Japanese)

No. 3 Class Am_C No. 3–22 • Am_C No. 101–107

AH 17—BUENOS AIRES MARU AH 18—URAL MARU AH 19—HIKAWA MARU AH 20—RYUKO MARU AH 21—TACHIBANA MARU AH 22—TAKASAGO MARU AH 23—HIKAWA MARU #2

(F) AVAILABLE NON-JAPANESE WARSHIPS

TORPEDO BOATS

TRAD Class

TRAD PUKET RAYONG CHANDARABURI SURASDRA PATTANI JUMBARA (Siamese)

FUEL OIL TANKERS

• AO SAMUI (Siamese) NOTE: USS STEWART, Old World War I "Flushdecker" DD, may have been refitted after salvaging.

SUBMARINES

VIRUN Class Virun Machanu Sinsamudar Blai Jumbol (Siamese)

MINOR COMBATANT TYPES (less PC, SC, PT and PR)

COAST DEFENSE SHIP

RATANAKOSINDRA Class

RATANAKOSINDRA SUKHODAYA (Siamese)

DHAMBURI Class

DHAMBURI SRI AYUDHYA (Siamese)

MINESWEEPERS

• CHAO PHYA (Siamese; ex British HAVANT (old "HUNT" Class))

GUNBOATS-ESCORT TYPE

• YAT SEN (Chinese)

• AMIRAL CHARNER (ex French, BOUGAINVILLE Class)

TAHCHIN Class TAHCHIN MAEKLONG (Siamese)

YACHT

• ANGTHONG (Siamese)

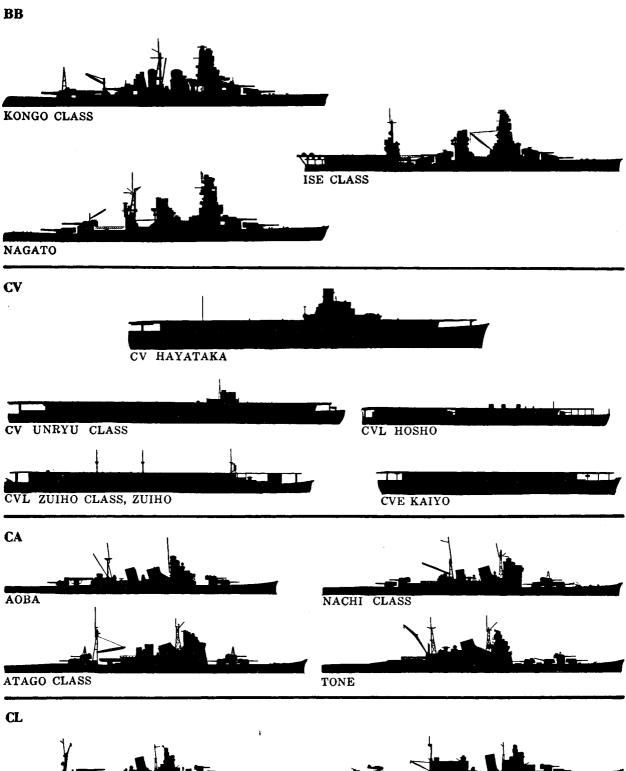
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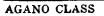
Issued June 1945

XI

JAPANESE NAVAL VESSELS

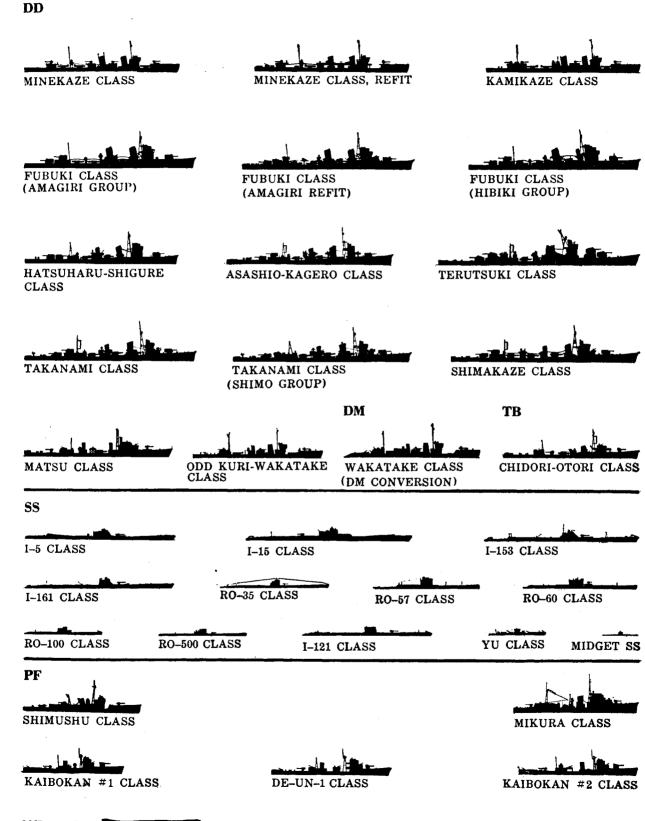






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JAPANESE NAVAL VESSELS



ONI 222–J

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STATISTICAL AND PICTORIAL SUMMARY

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General Remarks

The following general remarks apply to the material found in the statistical pages which follow:

1. For All Types of Warships

a. Figures for guns and torpedo tubes denote the actual number of barrels or tubes (not mounts). Where known, the type of mounting is mentioned.

b. It is believed that all major warships and most minor units are fitted with protection against magnetic mines.

2. For BB, CV, CVL, CVE, CA, CL, DD, TB, CM, AM, PG, PF, and PC.

a. All units are believed to be fitted with searchlights; present number and mark undetermined in most cases.

3. For BB, CV, CVL, CVE, CA, CL, DD, PF, APD.

a. All units believed fitted with some form of radar.

Ships' Characteristics Glossary

Armor Thickness figures shown, reported maximum and minimum thickness in inches. These figures do not indicate either the extent or distribution of armor plate of belts, decks, bulkheads, or armored structures. BHP brake horse power. Boilers only data given will be found under "Notes." С. Т. abbreviation for conning tower. In surface ships this denotes armored ship and fire control stations other than in masts or tower-masts. Caliber the bore of guns with semi-automatic or non-automatic breech mechanisms (generally 3" and above) is given in inches; of automatic weapons-in millimeters (mm). Certain small guns in captured ships are designated by weight of shell, i. e.-"6 pdr," meaning "six pounder." Numeral following the slant is the length caliber.

the number of charges normally carried. Depth as applied to submarines means diving depth, in feet. Economical economical speed. elevation, maximum of gun mount. steaming endurance, in nautical Endurance miles. H as applied to submarine torpedotubes, indicates that these tubes can be re-loaded from within the pressure hull. horse power

Max. Sust. maximum sustained speed. length, over-all. (oa) pdr. see caliber. (pp). length, between perpendiculars. Proj. (lbs) projectile weight. Protection see armor thickness. Range the horizontal range of guns, in terms of thousands of yards. Reciprocating compound, triple or quadruple expansion marine steam engines. re-loads number of torpedoes carried, other than those in the torpedo-tubes. RPM revolutions per minute. shaft horse power SHP Stand. standard. TT Turbine Turbine, geared

(wl)

torpedo tube: numeral indicates the actual number of tubes, irrespective of the type of mount. turbine, direct drive. turbine, geared drive; turbine with reduction gears.

the vertical range of anti-aircraft

(AA) guns, in terms of thousands

depth charges; the numeral indicates

of feet.

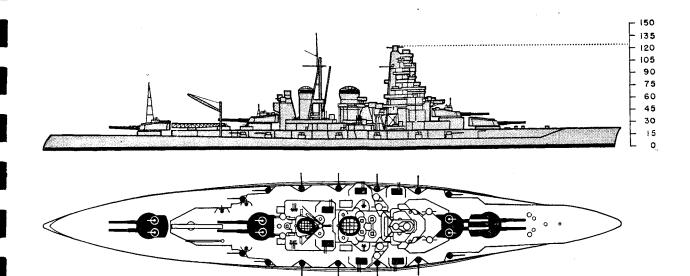
length, at water line, at standard displacement.

ΗP

Elev.

Ceiling

D. Chgs.



BB—Battleships—KONGO Class

BB 4-HARUNA

Begun—March 1912 Completed—April 1915 Modernized—1929, 1934 Complement—1,250

Dimensions

Displacement: 30,000 tons (stand.). Length: 704' 0'' (oa). Beam: 98' 0'' over bulges (at water line). Draft: 27' 6'' (mean); ...' ...'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Prcj. (lbs.)
8	14''/45	41	35°	32, 000		1, 400
14	6''/50	3	30°	21, 000	· · · · • •	100
12	5''/40	89	85°	15, 000	35, 000	45
Director Control for above batteries						

8 3^{''}/40 3 75° 12,000 25,000 10 25 mm (in twin mounts);

1 catapult; 3 scout observation planes.

Protection

Propulsion

	Speed (knots)	Endurance (miles)	$_{HP}$	RPM
Designed:	26. 0	• • • • • .	64,000	
*Full:	27. 0		• • • • • • •	
Max. Sust:	• · · • • •	2, 600		
Cruising:				
Economical:	10. 0	7, 370		••••

Drive: Turbines, direct; Screws: 4.

Fuel: Oil; Capacity: 4,500 tons (max).

Notes

*Full speed may be 30 knots, maximum endurance 9,000 nautical miles.

14.5

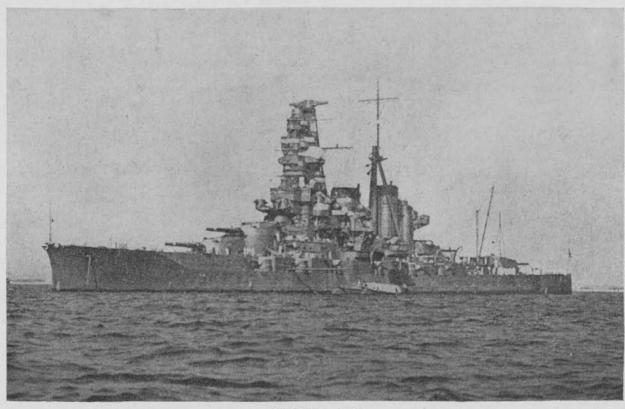
Remarks

The KONGO Class set the basic pattern for Japanese battleship development through the KAGA Class of 1920. These units were the first Japanese dreadnaught capital ships having a center-line main battery plan and guns heavier than 12".

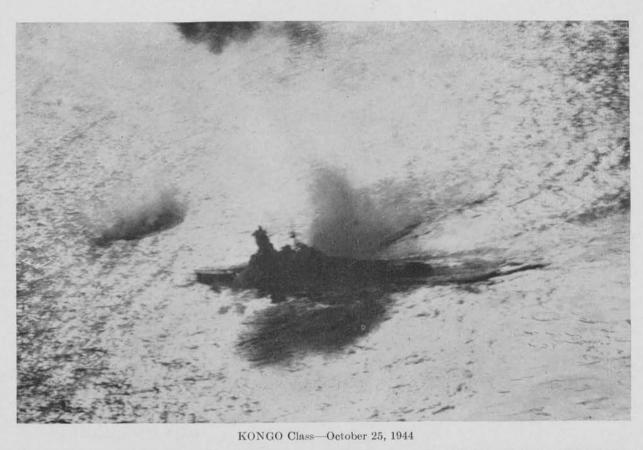
Designed by Sir George Thurston and built by Vickers, KONGO is very similar to HMS TIGER, Britain's most powerful battle-cruiser of World War I. She was the last Japanese capital ship to be ordered abroad; some of the material for her Japanese-built sisters was also imported. Units of the KONGO Class were rated as battle-cruisers until their modernization of 1928–31, when protection was improved and all-oil boilers were installed. Incressed angles of elevation and ranges for main and secondary batteries, and new antiaircraft armament fire and damage control systems were incorporated during the past 10 years. Despite these improvements, the HURUNA remains substandard in armor protection. Their speed advantage in Pacific operations has been partially neutralized by the appearance of the modern fast American battleships.



KONGO-December 1938.



HARUNA-1937

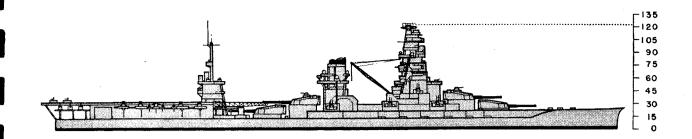


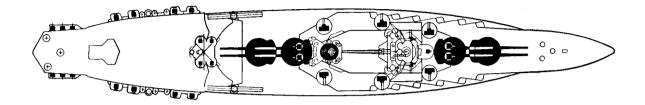


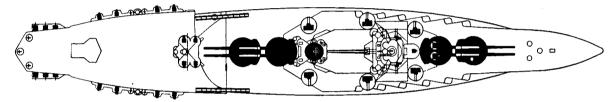
KONGO Class-October 26, 1944.



KIRISHIMA—December 1938. Division of Naval Intelligence Issued June 1945







BB—Battleships—ISE Class (Refitted)

вв 7—Ise

Begun—May 1915 Completed—December 1917 Modernized—1943-44 Complement—1426

BB 8—HYUGA

Begun—May 1915 Completed—April 1918 Modernized—1943-44 Complement—1424

Dimensions

Displacement: 32,000 tons (stand.). Length: 715' 0'' (oa). Beam: 94' 0'' (hull without bulges). Draft: 28' 8'' (mean); ..' ..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
*8	14''/45	41	35°	32, 000		1, 400
**16	5''/40	89	85°	15,000	35,000	45
Director	r Control	for abc	ove ba	tteries.		
$20\ 25\ \mathrm{m}$	nm (in tw	rin mou	ints);	3 7.7 mm	1.;	
2 catapa	ults; 25 p	lanes (r	reporte	d).		

Protection

Propulsion	Speed (knots)	Endurance (miles)	$_{HP}$	RPM
Designed:	23. 0	• • • • • •	45, 000	
Full:	25.5		81, 386	
Max. Sust.:		4,600		
Cruising:				
Economical:	10. 0	9, 000		
Drive: Turbines,	geared; Scr	ews: 4.		
Evel, Oil, Comosi	t 1 500 to	ma (mar)		

Fuel: Oil; Capacity: 4,500 tons (max.).

Notes

•In converting these ships, 4 14''/45 guns, the No. 5 and No. 6 turrets of main battery were sacrificed. In addition, 16 5.5''/50 casemate guns have been removed.

**Eight gun positions, probably for triple 25-mm mounts, line flight deck, port and starboard. Near fantail, 6 smaller mounts are ranged in two platforms port and starboard. Four possible 25-mm triple mounts have. been added atop mainmast structure and a mount has replaced the two rangefinders abaft No. 2 turret. When first photographed, one unit of refitted ISE's mounted the starboard catapult at a higher level than the port catapult. Note variation in drawings above.

ONI 222–J

Division of Naval Intelligence

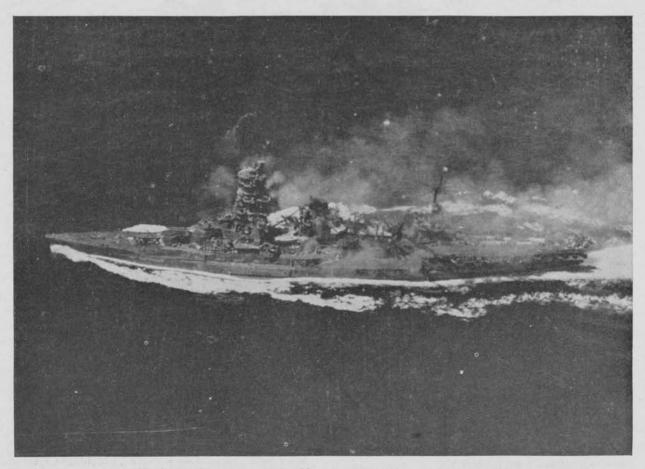
5

Remarks

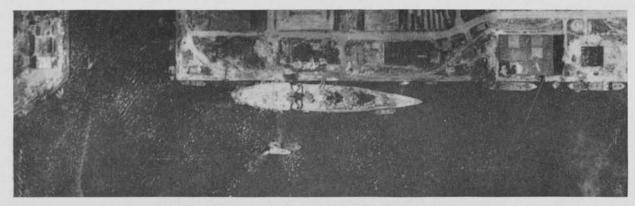
Units of this class were developed through the FUSO Class from the KONGO design speed being sacrificed for greater gun power and protection. The ISE Class was apparently intended to offset the contemporary American PENNSYLVANIA and NEW MEXICO Classes of 12 14"-gun battleships. A slight speed advantage and a heavier secondary battery were expected to compensate for the superior armor protection of their trans-Pacific counterparts. Japanese refusal or inability to adopt the triple turret resulted in the six twin turret system, arranged as in the USS ARKANSAS. With the NAGATO Class, these vessels formed Japan's most powerful group of active capital ships until the advent of the modern YAMATO Class.

The ISE Class was probably built of Japanese material, as their construction occurred at a time when both Great Britain and the United States were engaged in the first World War. As first commissioned, with two stacks and two tall, unencumbered tripod masts, they were very handsome vessels. Their 1933–36 modernization was apparently quite thorough. Such external changes as the removal of the forward stack, addition of blisters, mounting of a new AA battery and additions to the foremast-bridge structure reflect the probable installation of new boilers and engines, and improvements to armament and protection. One unit of this class has recently displayed an unusual capacity to resist underwater damage.

Recent alterations to the ISE's made them the first hybrid "Battleship-Aircraft Carriers" in the world. This makeshift expedient was probably dictated by the depleted Japanese regular aircraft carrier force; it may have been intended as a temporary measure to maintain shipborne air strength pending the commissioning of replacement carrier tonnage. An aircraft platform stowage deck, catapults, and aircraft handling and servicing equipment were substituted for the after group of 14"-gun turrets, thus reducing main battery fire power by 33 percent. The 5.5" secondary casemate battery was also removed, presumably in favor of increased antiaircraft armament. Recent photographic coverage indicates the removal of the catapults from both units. It is possible that the stowage decks may be utilized as large antiaircraft platforms. Restoration of the main battery to its original 12 guns now appears doubtful, in view of the course of the war.



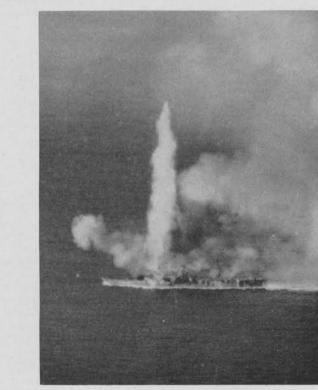
ISE Class-October 25, 1944. Note asymmetrical catapult arrangement.



ISE Class. Singapore-February 10, 1945. Catapults removed.



ISE Class-October 25, 1944.



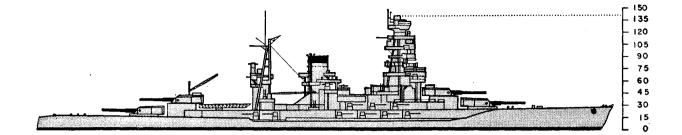
ISE Class-October 25, 1944.

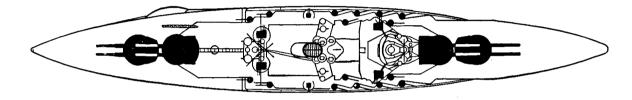
ONI 222-J

Division of Naval Intelligence

Issued June 1945

ISE Class—October 25, 1944.





BB—Battleships—NAGATO Class

вв 9—Насато

Begun—August 1917 Completed—November 1920 Modernized—1935-36 Complement—1317

Dimensions

Displacement: 34,000 tons (stand.). Length: 700' 0'' (oa). Beam: 95' 0'' (hull without bulges). Draft: 30' 0'' (mean); ..'..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. $(ft.)$	Proj. (lbs.)
8	$16^{\prime\prime}/45$	3	35°	36, 000		2,205
*18	5. 5''/50	3	30°	19, 000		84
*8	5''/40	89	85°	15,000	35, 000	45

Director control for above batteries. 1 catapult; 3 scout observation planes.

Protection

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	23. 0		80, 000	
Full:	26. 0			
Max. Sust.:		4, 700		
Cruising:	• • • • • •			
Economical:	10. 0	10, 500		

Drive: Turbines, geared; Screws: 4.

**Fuel: Oil; Capacity: 3,400 tons (max.).

Notes

*Secondary and AA batteries may have been changed. **Fuel capacity may be higher.

Originally mounted 20 5.5" guns.

Remarks

The NAGATO Class, as originally projected, was to comprise four units. These ships were the first of Japan's 16" gun capital ships and were design contemporaries of the American COLORADO's. The last two units of the class. KAGA and TOSA, were subsequently redesigned as larger ships-39,000 tons with ten 16-inch guns. The ships were launched but were not completed because of restrictions imposed by the Washington Naval Treaty. The NAGATO appears to be a logical development of the ISE Class, but mounting eight 16-inch guns rather than the twelve 14-inch guns on the ISE and HYUGA. The influence of the British QUEEN ELIZABETH Class is evident in hull proportions, speed and general arrangement of her design. Her system of armoring also appears to follow that of the British prototype. Though rated at 23 knots for many years, it now appears likely that the NAGATO's actual speed has always been around 25-26 knots.

ONI 222–J

Division of Naval Intelligence

Issued June 1945

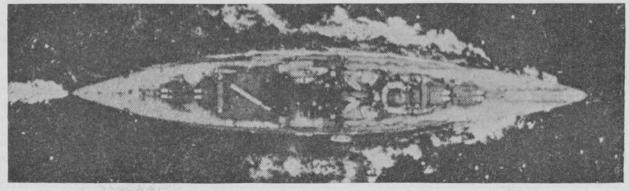
The most outstanding outboard feature of NAGATO is the large heptapodal foremast with its numerous tops and bridges for fire and ship control purposes. The central vertical leg is thick enough to accommodate an electric lift running between the foretop and main deck. When first commissioned, NAGATO and MUTSU had two upright stacks. Around 1924–25 the forward stack was trunked toward the second stack; during the 1935–36 refit it was removed. Little is known about the modernization of these vessels, inasmuch as it has affected their external appearance to a lesser degree than did the reconstruction of the older battleships. New boilers, a reduction in the secondary battery and an increase in antiaircraft armament have been definitely established, although fire and damage control systems were probably modernized as well. Protection may have remained virtually unchanged.

The design is reported to provide for 560 separate watertight compartments.

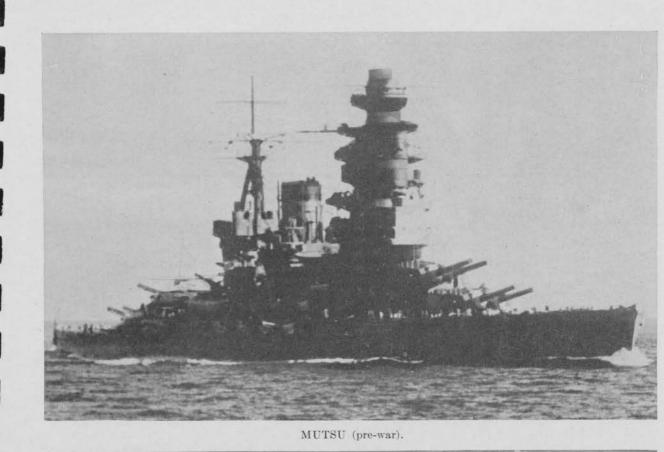
In combat value, the NAGATO may be placed somewhere between the COLORADO and NORTH CARO-LINA Classes. The loss of the MUTSU by accidental explosion was therefore a heavy blow to Japanese naval surface strength.



MUTSU (pre-war).



MUTSU (pre-war).





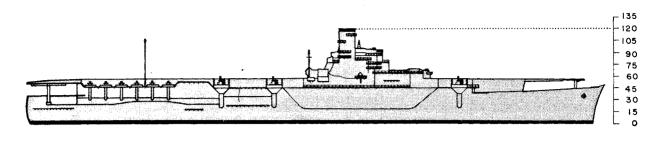
NAGATO-October 24, 1944.

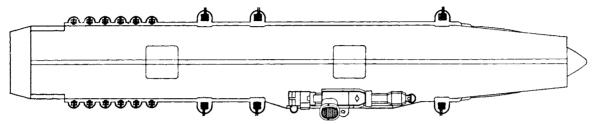


NAGATO-1938.

ONI 222-J

Division of Naval Intelligence Issued June 1945





CV—Aircraft Carriers—HAYATAKA (JUNYO) Class

су 8-Начатака

Begun—November 1939 Completed—1942 Complement—1,330 Naval Name—HAYATAKA Alt. Naval Name—JUNYO Merchant Name—IZUMO MARU

Dimensions

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Displacement: 28,000 tons (stand.). Length: 745' 0'' (oa); 715' 0'' (pp). Beam: 88' 0'' (hull); 93' 0'' (flight deck). Draft: ..' ..'' (mean); 26' 6'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
16	5''/40	89	85°	15, 000	35, 000	45

24 60 mm to 80 mm in 6-barrel rocket mounts; 40 20 mm (reported);
51 V . . type all (as CV);

95 V...type all (as APV);
95 V...type all (as APV);
24 VF type; ...ready;
18 VB type; ...ready;
9 VT type; ...ready;
...catapults.

Protection

.. "-.." Belt (amidships); .." ends; .."-.." Decks; .."-.." Bulkheads; Flight Deck: Watertight Integrity: Good. Damage Control:....

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	28. 0		45, 000	
Full:				
Max. Sust.:				. <i>.</i>
Cruising:		••••	• • • • • •	••••
Economical:	• • • • • • • •	• • • • • • •	• • • • • •	••••

Drive: Turbines; Screws: 2.

Fuel: Oil; Capacity: .. tons (max.).

Notes

All data provisional. Fitted with air and surface search radar. Reported to have two hangar decks, running two-thirds the length of ship, and two elevators.

Remarks

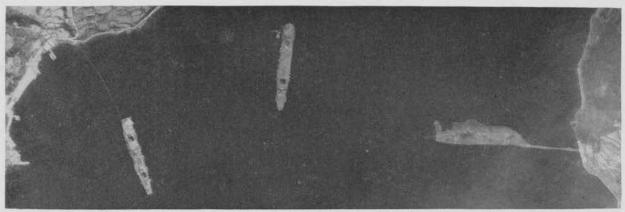
The two units of this class were started as Government subsidized trans-Pacific express liners, and converted during construction to fleet carriers. They set a precedent, in modern times, for being the first ostensible merchantmen employed as first line combatant ships, though their original design may have allowed for their conversion.

One or both of these ships may have mounted rocket guns, a possible adaptation of the German 6-barrel 150-mm "Nebelwerfer," for use against low-flying aircraft. Although evidence is lacking, the size and design of these carriers should allow for light deek and side armor and considerable compartmentation. It is understood that the Japanese considered this class unsuccessful for first line carrier duties. One reported defect, insufficient flight deck length, is subject to confirmation.

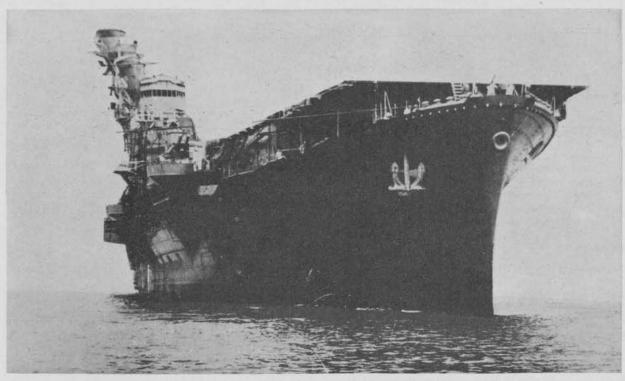
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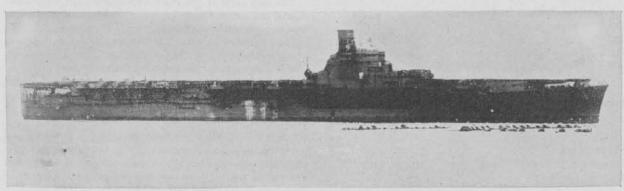
Issued June 1945



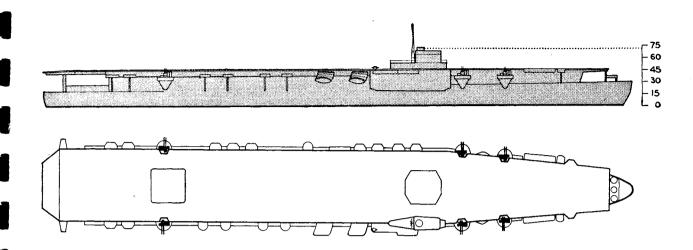
Camouflaged HAYATAKA at right; KASAGI of UNRYU Class in center; CVL, probably IBUKI, at left. Sasebo, April 16, 1945.



HAYATAKA Class.



HAYATAKA Class.



CV—Aircraft Carriers—UNRYU Class

Class built between 1942–1945 Complement–1561

CV AMAGI

- CV KATSURAGI
- CV KASAGI
- *cv Aso
- *сv Ікома

Dimensions

Displacement: 27,000 tons (stand.) (reported).

**Length: 743' 0'' (oa).

**Flight deck width: 93' 0''.

**Plane capacity: 50.

Armament

No.	Cal.	Mark	Elev.	(yds.)	(ft.)	(lbs.)
**12	$5^{\prime\prime}/40$	89	85°	15,000	35,000	45
Und	etermined	numbe	r of AA	MG.		

0.0

Notes

*Still under construction.

**Estimated.

Two elevators.

Profile drawing provisional.

Remarks

The UNRYU Class comprises the largest group of regular Japanese fleet carriers built or building to the same basic design. Except for UNRYU, which was given a carrier name, all other units were named for famous mountains, indicating a heavy or large cruiser origin. These ships were reported laid down as large cruiser of the same general type as the American ALASKA Class. Two designs were reported: one of 14,000 tons with 6 12" guns in twin turrets and another of 20,000 tons with 8 12" guns, also in twin turrets. As all of the units of this class observed to date scale to the same hull dimensions, it appears that only one of these designs, presumably the latter, was selected for the class. The UNRYU may have been begun after the decision to convert was made, and may never have borne a cruiser name.

An analysis of the incompleted IKOMA and ASO hulls substantiates their origin as large cruisers. The shape of the hull—the beam-length ratio and the fine taper fore and aft are characteristic of large cruiser design.

Units of the UNRYU Class bear a strong resemblance to the ill-fated SHOKAKU Class. The following features are similar: the shape of the flight deck, the location and size of the starboard island, and the two stacks below the level of the flight deck. The SHOKAKU's were larger ships, capable of carrying approximately 80 planes compared to UNRYU's estimated capacity of 50.

This type of conversion is interesting because it follows the precedent set by the British FURIOUS and COURA-GEOUS Class, large cruiser conversions of the early 1920's. The American SARATOGA and Japanese AKAGI, former battle-cruisers, were converted into giant carriers under the terms of the Washington Naval Treaty.

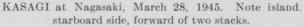


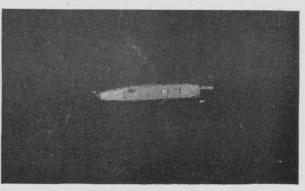
KATSURAGI, Kure, March 19, 1945 with SS I-15 Class. Note camouflage on flight deck.



Two units of UNRYU Class, KATSURAGI and AMAGI, in center, top and bottom respectively. CVE KAIYO at right. Kure—March 19, 1945.



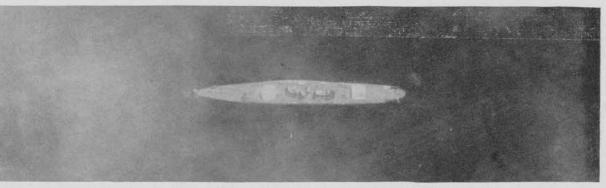




AMAGI, Kure-March 28, 1945.



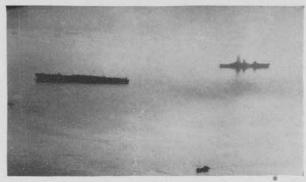
AMAGI, Kure-March 19, 1945. Note smoke from stacks.



ASO hull, Kure-March 19, 1945. Canvas has been stretched over elevators.



AMAGI, Kure-March 19, 1945 showing small island, ASO hull, showing flight deck supports near stern. BB ISE starboard side.

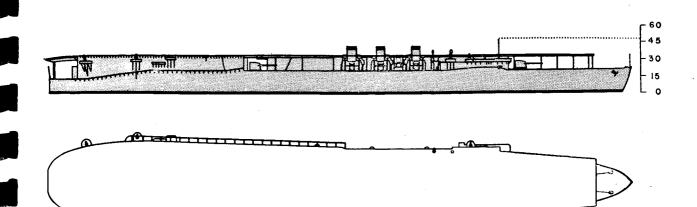


Class in background. Kure, March 19, 1945.

ONI 222-J $645616^{\circ} - 45 - 3$ Division of Naval Intelligence Issued June 1945 NOTES

1. 1

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CVL—Light Aircraft Carriers—HOSHO

CVL 1—Hosho

Begun—December 1919 Completed—December 1922 Modernized—1940 Complement—551

Dimensions

Displacement: 7,470 tons (stand.). Length: 552' 0'' (oa). Beam: 62' 0'' (hull); 74' 0'' (flight deck). Draft: ..''' (mean); 15' 0'' (max.).

Armament

	No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
	4	5. 5''/50	3	30°	19, 000		84
	*2	3''/40	3	7 5°	12,000	25,000	14.5
12	VF	type	: 9 1	eady;			
12	VSI	B type	; 9 1	eady;			
12	VT.	B type	; 9 1	eady;			
	V	type	; 1	ready;			
		• • • • • • • • • • •	: 0	catapul	lts.		

Protection

'' Belt (amidships);'' (ends);
· · · · · ′ Decks, · · · · ′ Bulkheads.
Flight Deck:
Watertight Integrity: Fair.
Damage Control:

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	25.0		30, 000	
Full:	26.0	4, 500		
Max. Sust.:		4, 900		· · · · · · · · · ·
Cruising:			• • • • • •	
Economical:	10. 0	6, 000	· · · · · ·	· · · · · · · · · · ·
Drive: Turbines,	geared; Sc	rews: 2.		

Fuel: Oil; Capacity: 2,700 tons (max.).

Notes

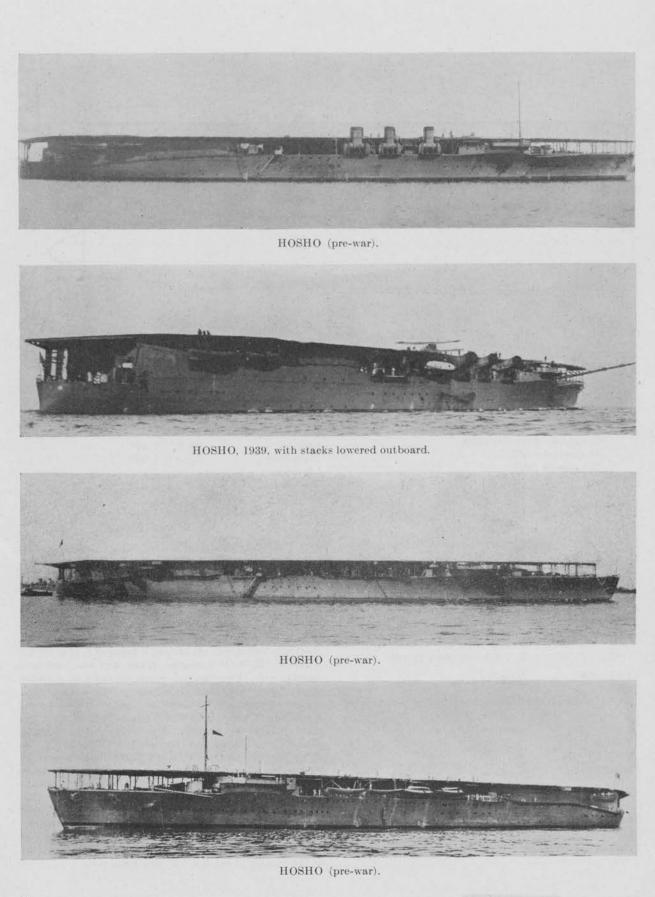
*AA armament may have been increased, including closedefense AA weapons.

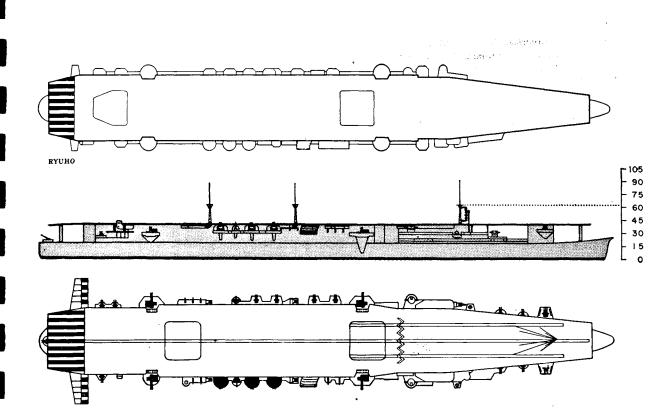
Reported used for training purposes. Has two elevators.

Remarks

HOSHO was Japan's first aircraft carrier and the world's second carrier designed and built as such from the keel up. Her basic design was apparently influenced by the British ARGUS. HOSHO is smaller, faster, and was built on a warship hull. She originally commissioned with a bridgemast "island" superstructure, which was promptly removed—probably for reasons of stability. Her folding stacks are an adaptation of a Yarrow (British) invention of the nineteenth century. She is reported to be fitted with a gyro stabilizer. A sister ship, the SHOKAKU, was cancelled after the AKAGI and KAGA were slated for conversion to carriers under Washington Treaty terms.

Modernized in 1939–40, the HOSHO is reported to have served primarily as a training ship during this war. Except that she is said to have two aircraft lifts, one forward and one aft, nothing is known of alterations affecting her performance, armament, or appearance. War experience would indicate an increase in her antiaircraft battery, even at the expense of her few 5.5'' low-angle guns.





ZUIHO

CVL—Light Aircraft Carriers—ZUIHO Class

CVL 4-RYUHO

Begun-April 1933 Completed-March 1934 Converted to carrier in 1943 Complement-989

Dimensions

*Displacement: 15,000 tons (stand.). Length: 712' 0'' (oa). Beam: 82' 0'' (flight deck). Draft:''' (mean);''' (max.).

Armament

No. **8	Cal. 5''/40	Mark 89	Fle 85°	Range (yds.) 15, 000	Ceil. (ft.) 35, 000	Proj. (lbs.) 45
40 V	 type a	 11 (as C	(\mathbf{v})	readv	· · · · · · · · ·	
	type a	`	• •		,	
	type .			•		
• • • • • • •				· · · · · · · · ·	0	eatapults.

Protection

'''' Belt (amidships);'' (ends); '''' Decks;'''' Bulkheads.
Flight Deck:
Watertight Integrity: Good.
Damage Control:

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM
***Designed:	25 . 0		13, 000	
Full:				
Max. Sust.:				
Cruising:	· · · · · ·			• • • • • • • •
Economical:				
Drive: Diesel;	Screws:			
Fuel: Oil; Cap	acity:	tons (ma	x.).	

Notes

*Before conversion from AS TAIGEI.

**Armament figures are provisional.

***Actual speed may be higher.

Has two elevators.

Plan and profile drawing represents ZUIHO, sunk in October 1944.

Plan drawing of RYUHO should be regarded as provisional.

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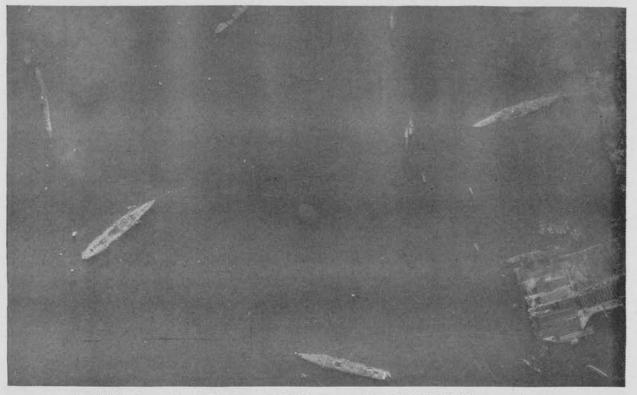
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Remarks

RYUHO was converted during 1942–43 from the submarine tender TAIGEI, an unusual fleet auxiliary reported officially to have been built within a year. As the TAIGEI, her general appearance, dimensions, and superstructure arrangement indicated that she was intended for eventual conversion to a fast combatant ship rather than for tender duties. The TAIGEI is reported to have rolled badly due to insufficient draft, though this reported defect and the draft figure have never been confirmed.

As converted, the RYUHO's design appears to follow the general pattern first observed in the SHOHO (sunk in the Battle of the Coral Sea) and later seen in great detail in the ZUIHO during the Battle for Leyte Gulf. ZUIHO and SHOHO were also converted from auxiliaries.



RYUHO, Kure-March 28, 1945. BB ISE Class at left, BB KONGO Class at right.



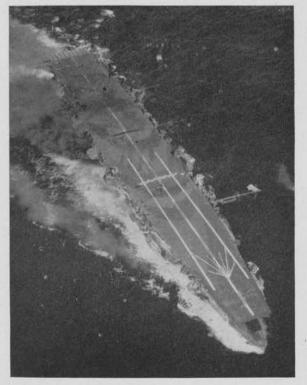
RYUHO, Kure-March 19, 1945.



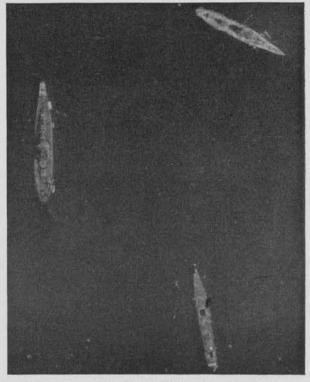
ZUIHO- October 25, 1944 prior to sinking. RYUHO similar in design to ZUIHO.



ZUIHO-October 25, 1944.



ZUIHO-October 25, 1944.



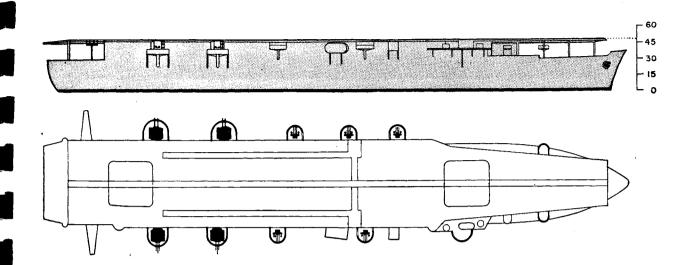
RYUHO, Kure—March 28, 1945. Note length in comparison with BB YAMATO, at left, and BB ISE Class, upper right.

AND DESCRIPTION OF

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NOTES

24



CVE—Escort Aircraft Carriers—KAIYO

CVE 4--KAIYO

Completed—1939 Modernized—1943 Complement—741 Merchant name—ARGENTINA MARU

Dimensions

Displacement: 17,000 tons (stand.). Length: 548' 0'' (oa); 516' 0'' (pp). Beam: 69' 0'' (hull); 80' 0'' (flight deck). Draft: ...'..'' (mean); 29' 0'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	F (l
8	$5^{\prime\prime}/40$	89	85°	15, 000	35,000	
••	• • • • •	• •	• • •	• • • • • • •		
• •	• • • • •	••	• • •	· · · · · ·		
V t	ype all; . ype all; . ype all; . ype all; .	. ready . ready . ready	; ; ;;		بېرې بېرې	

Protection

'' Belt (amidships);'' (ends);
" Decks;" Bulkheads.
Flight Deck:
Watertight Integrity: Fair.
Damage Control:

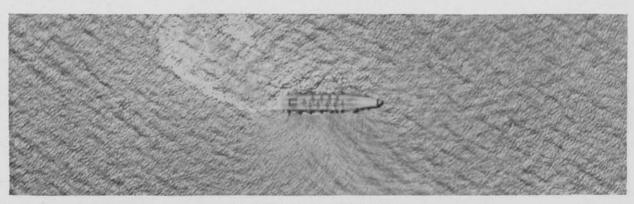
Propulsion

	Speed (knots)	Enduranc (miles)	e HP	RPM
Designed:	22.0		16, 500	
Full:	• • • • • •		••••	
Max. Sust.:	18.0			
Cruising:				• · · · · · · · •
Economical:				• • • • • • • •
Drive: Diesel; Scr	ews: 2.			
Fuel: Oil; Capacit	y:	tons (ma	.x.).	

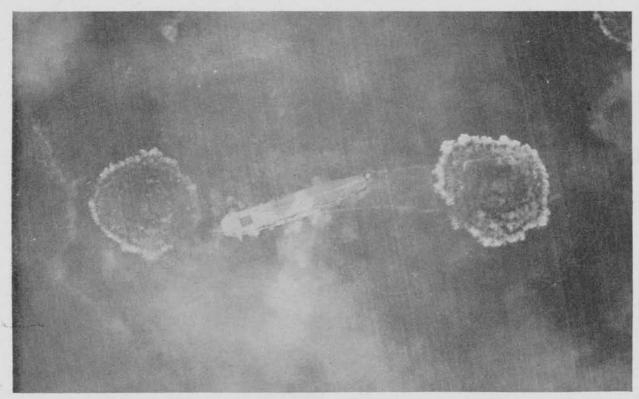
Notes

Proj. (lbs.) 45 ...

> Data and drawing provisional. Undetermined number of AA guns. Two elevators, one forward and one aft. Converted from merchant liner.



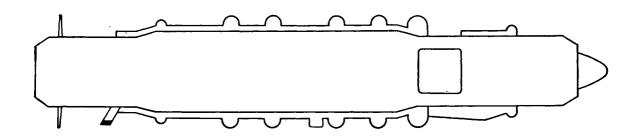
KAIYO, Takao-April 7, 1944.



KAIYO, Kure-March 19, 1945.



ARGENTINA MARU before conversion to CVE KAIYO. Dotted line represents probable location of flight deck.



CVE—Escort Aircraft Carriers—KOBE Type

2 UNITS

Built-1944-45

Dimensions

Length--535' 0'' (oa). Beam-75' 0'' (Flight deck width).

*Displacement—10,000 tons gross.

Propulsion

**Speed: 16.5 knots. Steam turbine engines; SHP 9,500. Fuel: Coal.

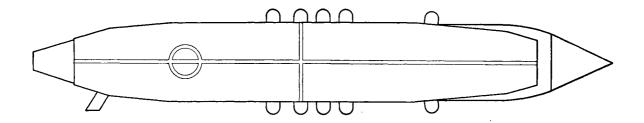
Notes

*Pre-conversion.

- **Normal cruising as AO. May be more as CVE. Converted from Type TL tanker.
 - One unit of this class completed in February 1945 at Kobe; second unit fitting out. A third tanker hull was launched in February 1945 and may be in process of conversion to CVE.

Number and location of guns undetermined. Plane capacity: 30 (estimated).

One elevator.



Escort Aircraft Carriers CVE—"MAC" Ship

Built-1944-45.

Dimensions

*Displacement: 10,000 tons (gross). Length: 520' 0'' (oa). Beam: 70' 0'' (Flight deck width); 67' 0'' (hull).

Propulsion

**Speed: 13 knots. Steam turbine engines; SHP—5,000. Fuel: Coal.

Notes

- *Pre-conversion.
- **Normal cruising as AO. May be more as CVE.
 Capacity as AO: 105,000 barrels.
 Number and location of guns undetermined.
 Plane capacity: 20 (estimated) as aircraft transport.

Remarks

This escort carrier design is the Japanese version of the British "MAC" Ship or Merchant Aircraft Carrier. There is no evidence of elevators or below-decks aircraft stowage, and it is presumed that these vessels can either transport aircraft, or operate their own antisubmarine aircraft detachment. These Japanese "MAC" Ships are being converted from Type TL (Modified) Tankers, and are believed capable of carrying oil cargo in addition to planes.

One unit was completed in Yokohama, January, 1945; two more are believed under construction.

A smaller version was seen under construction at Habu Shipyards, Inno Shima, in March 1945. This ship is estimated to be approximately 475 feet over-all.



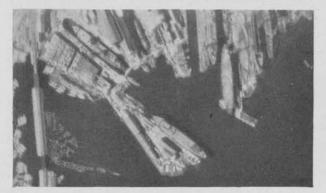
Two CVE's fitting out, one probable CVE hull on ways, Kawasaki Yards, Kobe—January 20, 1945.



Hull has now been launched and is fitting out. Kawasaki Yards, Kobe—February 27, 1945.



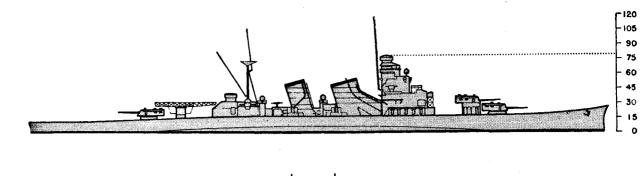
KOBE Type CVE. Note rectangular flight deck.

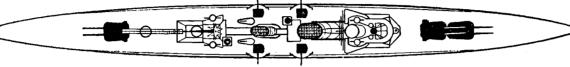


CVE "MAC" ships building and fitting out, Yokohama-January 28, 1945.



CVE "MAC" ship at Inno Shima-March 1945.





CA—Heavy Cruisers—AOBA Class

са 3-Аова

Begun—February 1924 Completed—September 1927 Modernized—1938, 1940 Complement—657

Dimensions

*Displacement: 9,000 tons (stand.). Length: 598' 0'' (oa). Beam: 50' 9''. Draft: 16' 0'' (mean); ..' ..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
6	8′′/50	3	42°	31, 100		254
**4	4. 7''/50	10	85°	19, 400	25,000	45
Directo	or Control	for abo	ove bat	teries.		
8 2.	5 mm AA.					
***8 24	4'' TT; 8 r	eloads;				
Dep	oth Charge	s: Yes;				
1 ca	atapult; 2 s	cout o	bservat	ion planes	3.	

Protection

2'' Belt (amidships);'' (ends);
'' Upper Belt;'' Secondary Battery;
$1\frac{1}{2}^{\prime\prime}-1^{\prime\prime}$ Decks; 1 ^{$\prime\prime$} Bulkheads;
1" Turret;" Barbette; 3/8" Shield;
5" at magazines (reported).
Splinter Protection
Watertight Integrity: Fair (modified bulges).
Damage Control

Propulsion	Speed (knots)	Endurance (miles)	HP		R	P.	м	
Designed:	33 . 0	1, 500	103, 000					
Full:			110, 500					
Max. Sust.:		1,740						
Cruising:								
Economical:	10. 0	8, 000						
Drive: Turbines,	geared; Scre	ews: 4.						
Fuel: Oil; Capaci	ty: 1,400 to	ons (max.)). , ,					
Fuel: Coal; Capa	city: 400 to	ns (max.)).					•

Notes

*Full load displacement may be 11,660 tons. **AA armament may have been changed.

***Original TT battery believed changed from 4 twin 24'' TT mounts to 2 quadruple 24'' TT mounts.

Remarks

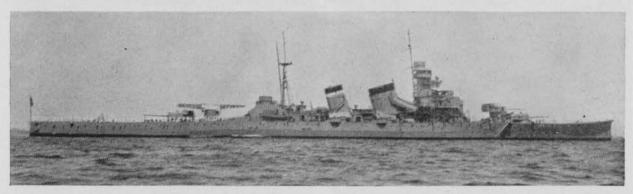
The AOBA Class and the preceding FURUTAKA Class comprised Japan's first group of modern 8"-gun cruisers. These ships were built immediately following the Washington Conference. It has been reported that units of this class were originally projected as slightly modified KUMA-NATORI Class light cruisers. In redesigning these units as heavy cruisers, the Japanese were influenced by the British 9,800 ton, 7.5"-gun cruiser HAWKINS. The construction of these ships was very light, protection was probably sub-standard, and internal arrangements were very cramped, making them a limited success as all-round cruisers. Two of the 10 boilers were fitted for mixed firing.

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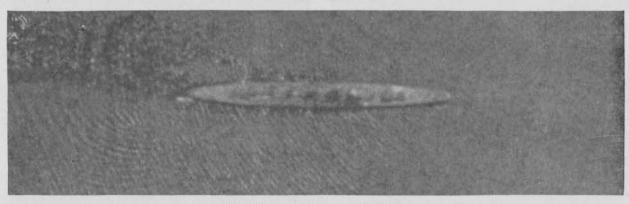
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AOBA Class (pre-war).



AOBA Class (pre-war).

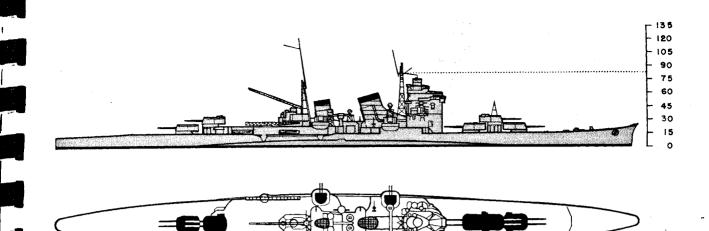


AOBA Class—September 2, 1942.



AOBA Class (pre-war).

41



CA—Heavy Cruisers—NACHI Class

One unit sunk, May 1945

CA 6-HAGURO

Begun—March 1925 Completed—April 1929 Modernized—1935–36 Complement—814

са 7-Ичоко

Begun—October 1924 Completed—July 1929 Modernized—1935-36 Complement—814

CA 8—Ashigara

Begun—April 1925 Completed—August 1929 Modernized—1934–35 Complement—814

Dimensions

Displacement: 11,500 tons (stand.). Length: 656' 0'' (oa). Beam: 62' 4''. Draft: 18' 0'' (mean); 22' 6'' (max.)

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
10	8′′/50	3	42°	31.100		254
*8	4. 7''/50	89	85°	19, 400	25,000	45

Director control for above batteries.

8 25 mm AA; 2 13 mm in twin mounts;

**16 24" TT; 16 reloads;

2 catapults; 4 scout observation planes.

Protection

4" Belt (amidships); ..." (ends); ..." Upper Belt; ..." Secondary Battery; 5"-1¼" Decks; 1"-¾" Bulkheads; 2" Turret; ..." Barbette; ¾" Shield. Splinter Protection: ¾6" to bridge. Watertight Integrity: Good (bulges). Damage Control:

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM			
Designed:	33.0		100, 000				
Full:	35.8		138, 500	326			
Max. Sust .:	• • • • • • •						
Cruising:	• • • • • •						
Economical:	15.0	14,000					
Drive: Turbines, geared; Screws: 4.							

Fuel: Oil; Capacity: 3,300 tons (max.).

Notes

- *May be 45 caliber.
- **Original TT battery believed changed from 4 twin 21'' TT mounts to 4 quadruple 24'' TT mounts.

Fitted with mattress type, air search radar. One unit of this class is also equipped with ladder type air search radar antenna, Mark I Model III land-based, possibly designated Mark II, Model IV when shipborne.

Remarks

The NACHI Class, an enlarged AOBA design, established the maximum main battery standard for all known Japanese heavy cruisers that followed. The American PENSACOLA'S are the only occidental vessels of this type that equaled the NACHI in the number of 8" guns carried. Traditional adherence to the twin mount forced Japanese designers to concentrate the

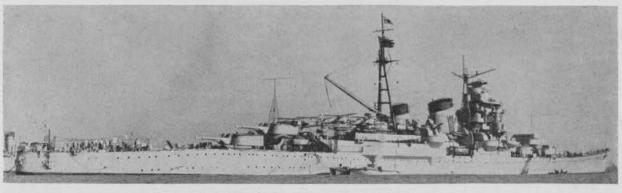
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Division of Naval Intelligence

NACHI's superstructure amidships in order to accommodate five turrets along the center-line. The arrangement of the forward turrets was copied from a battleship designed by the British for Brazil prior to World War I. In turn, the NACHI's main battery plan was later repeated in the American BROOKLYN and ST. LOUIS Classes of light cruisers.

The enclosed bridge-foremast of the AOBA was developed to a full-fledged tower bridge in the NACHI Class, the flush-deck hull with its wavy sheer line being retained. The flare of the hull near the waterline amidships indicates an inclined water-line belt. Protection is reported to include triple hulls and armor covering vitals some 410 feet long. During the 1934–36 modernization blisters were added, raising the displacement; the antiaircraft armament was increased, torpedo tubes raised a deck and the superstructure remodeled. A pylon replaced the pole foremast at a later date. Several units of this class were reported to have developed signs of structural weakness around main battery mounts prior to this modernization.

Despite their formidable paper characteristics, NACHI Class cruisers have not displayed any unusual capacity to resist battle damage.



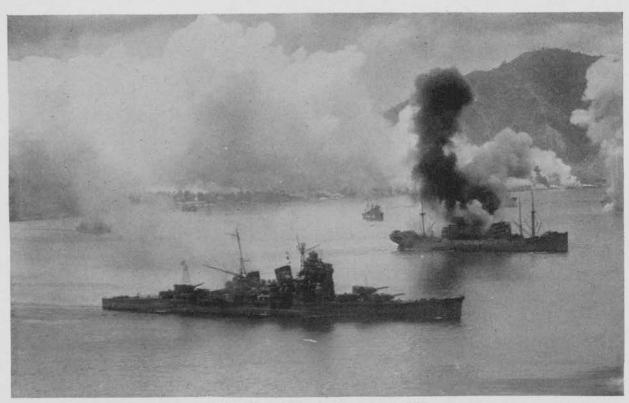
ASHIGARA—December 1940.



NACHI-November 5, 1944.



ASHIGARA-May 28, 1941.



NACHI Class, Rabaul-November 2, 1943.



NACHI Class, PF MIKURA Class at left. Rabaul-November 2, 1943.



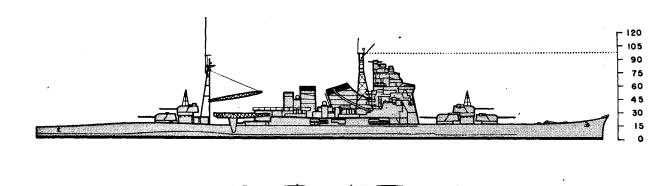
MYOKO-May 1, 1939.

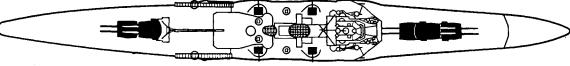
ONI 222-J

Division of Naval Intelligence Issue

Issued June 1945

NOTES





CA—Heavy Cruisers—ATAGO Class

са 10-Такао

Begun-April 1927 Completed-May 1932 Complement-900

Dimensions

Displacement: 12,500 tons (stand.). Length: 657' 0'' (oa). Beam: 64' 0''. Draft: 18' 0'' (mean); ...' ...'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
10	8′′/50	3	42°	31, 100		254
*4	4.7''/50	10	85°	19, 400	25,000	45
Director	control fo	r abov	e bat	teries.		

8 25 mm AA;

**16 24" TT; 16 reloads;

2 catapults; 4 scout observation planes.

Protection

4" Belt (amidships);" (ends);
" Upper Belt;" Secondary Battery;
5" Decks;" Bulkheads;
2" Turret; 4" Barbette; 3/1" Shield.
Splinter Protection:
Watertight Integrity: Good.
Damage Control:

Propulsion

	Speed (knots)	Endurance (miles)	, HP	RPM
Designed:	33. 0		100, 000	
Full:	·			
Max. Sust.:		2, 200		
Cruising:				
Economical:	10. 0	11, 000		
Drive: Turbines,	geared; Scr	ews: 4.		
Fuel: Oil; Capacit	ty: 1,850 to	ons (max.).	

Notes

- *AA armament has probably been changed.
- **Original TT battery believed changed from 4 twin 21" TT mounts to 4 quadruple 24" TT mounts.

Reported Fuel capacity and endurance may be higher. fitted with 8 radar antennae as follows: one Mark II, Model I, air and surface search, surface fire control, and possible AA fire control; two Mark I, Model III, air search; three Mark II Model II, two-horn type used for surface search; and two mobile radar antennae on deck for training purposes.

Remarks

Ships of this class are reported to have been originally projected as units of the NACHI Class and subsequently modified during construction. Externally, these modifications include a larger bridge structure (the heaviest observed in Japanese cruisers), a wide pylon foremast, and a streamlined hull projection under the superstructure. In ATAGO and TAKAO the mainmast was re-stepped in a position abaft the catapults and just forward of No. 4 turret. Another innovation was placing the torpedo battery in the superstructure at main deck level, an arrangement generally followed in the MOGAMI's and TONE's, and adopted in the modernization of the NACHI Class.

Recent evidence indicates that the ATAGO Class was never modernized, nor fitted with blisters. This accounts for their lower estimated displacement compared with the NACHI Class, which had bulges added and displacement increased during the 1934-36 refit. Apparently this lack of extra buoyancy prevented an increase in the dual-purpose secondary battery as actually carried out in the NACHI Class. It is known that Japanese operating personnel recommended removal of No. 3 turret in order to gain additional antiaircraft fire power.

Protection is reported to include armor abreast vitals of some 410 feet in length, and triple bottoms to the hull. Fuel capacity and endurance may be higher than in the NACHI's.

ONI 222–J

Division of Naval Intelligence

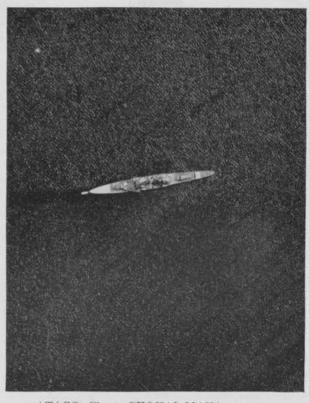
Issued June 1945



ATAGO Class, CHOKAI-MAYA group (pre-war).



MAYA—December 19, 1938.



ATAGO Class, CHOKAI-MAYA group-February 4, 1943.



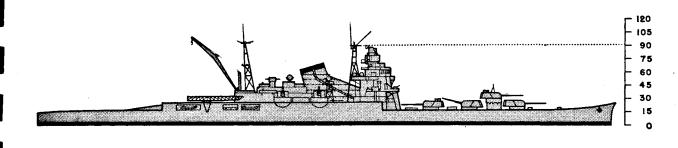
ATAGO—1934.

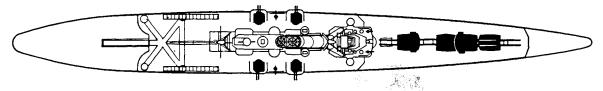


TAKAO-1941. Note mainmast stepped aft.

.

NOTES





CA—Heavy Cruisers—TONE Class

CA 17-TONE

Begun-December 1934 Completed-November 1938 Modernized-1937-38 Complement-880

Dimensions

Displacement: 14.500 tons (stand.). Length: 658' 0'' (oa). Beam: 65' 0". Draft: 18' 0'' (mean); ...', ...'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
8	8′′/50	3	42°	31, 100		254
*8	4.7''/50	- 10	85°	19, 400	25,000	45

Director control for above batteries.

**16 24" TT; 16 reloads;

2 catapults; 6 scout observation planes.

Protection

$2\frac{1}{2}$ Belt (amidships);'' (ends);
'' Upper Belt;'' Secondary Battery;
2" Decks; Bulkheads;
2" Turret; " Barbette; 3%" Shield.
Splinter Protection:
Watertight Integrity: Good.
Damage Control:

Propulsion	Speed (knots)	Endurance (miles)	HP	RPM
***Designed:	33. 0	••••	90, 000	
Full:				
Max. Sust.:		3, 300		
Cruising:				
Economical:	10. 0	16,000	· · · · · ·	
Drive: Turbines,	geared;	Screws: 4.		

Fuel: Oil; Capacity: 3,000 tons (max.).

Notes

*May be 45 caliber.

- **Original TT battery believed changed from 4 triple 24" TT mounts to 4 quadruple 24" TT mounts.
- ***HP is probably higher.

Remarks

There is reason to believe that these cruisers were initially planned as MOGAMI Class units. In order to devote the entire after portion of the hull to aircraft launching, recovery, stowage, and servicing purposes, the main battery was concentrated forward on a proportionally longer forecastle. Lack of stern fire in a cruiser is a tactical liability, and appears to be a high price to pay for the modest increase in ship-borne aircraft. The same willingness to sacrifice main battery fire power and fields of fire for the sake of a few additional planes is reflected in the new light cruiser OYODO and in the wartime reconstruction of the ISE Class of battleships.

Protection is presumably the same or better than in the MOGAMI Class. The concentration of the main battery may have permitted the fitting of additional internal armor to the 8"-gun magazines. Blisters were fitted to at least one unit of this class.

Like the MOGAMI's, the TONE Class cruisers were given Japanese light cruiser names, and may therefore have undergone the same change in main battery caliber from $6.1^{\prime\prime}$ to $8^{\prime\prime}$ guns.

. . .

. . .

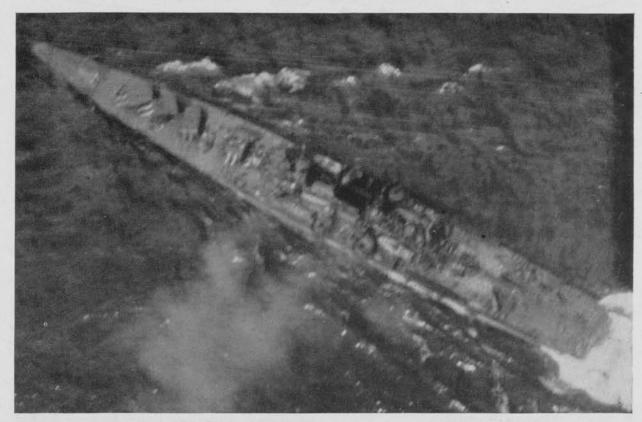
. . .

. . .

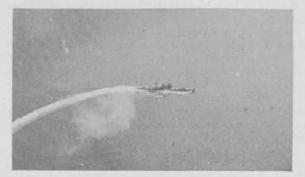
. . .



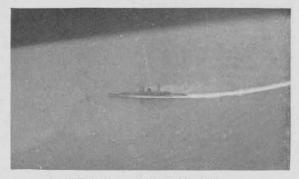
TONE Class-1941.



CHIKUMA—October 1944 with part of stern blown off.



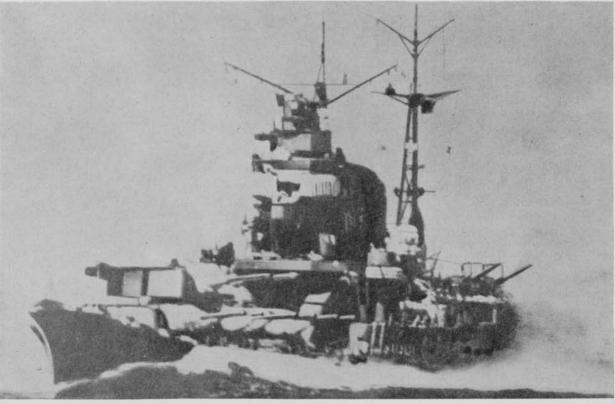
TONE Class—October 24, 1944.



TONE Class—October 24, 1944.



TONE Class-October 26, 1942.



TONE Class



ONI 222-J

Division of Naval Intelligence Issued June 1945

NOTES

CA—Heavy Cruisers—IBUKI

са 19-Івскі

Completed—1943 Complement—874

Dimensions

Displacement: tons (stand.). Length: ..'.'' (.....). Beam ..'..''. Draft: ..'.'' (mean); ..'..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
1.52.52	8''/50	3	42°	31, 100	111111	254
a kara						
				* * * * * *	2.9.5.5.5.5	******
		22.2.2	102.2	111111	1.15.2.2.2.2	1000000
8 24''	mm TT (twin n nes; .	nounts);	reloads.	*****	

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM
Designed:				
Full:				
Max. Sust .:			******	
Cruising:				
Economical:				
Drive:	; Screws			
Fuel:	; Capacit;	y: to	ons (max.).

Notes

Uncertain whether a single ship or a unit of a class.

Remarks

IBUKI is provisionally classified as a "heavy" or 8''gun cruiser in view of reports that she is very similar to the MOGAMI. The complement of IBUKI is identical with that of the units in MOGAMI Class, as is the displacement. According to the Japanese warship naming system her name is one normally assigned to a powerful cruiser. Her namesake predecessor was the 14,620 ton, 12''-gun armored cruiser IBUKI, launched in 1907.

As ONI 222-J goes to press, a hitherto unreported light aircraft carrier has been tentatively identified as a conversion from IBUKI. The photograph of this carrier, taken at Sasebo on April 16, 1945, may be seen on page 14.

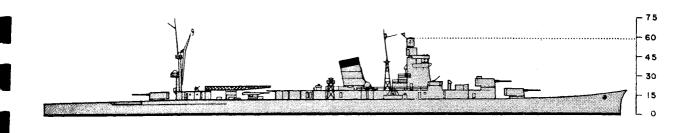
The carrier is 675 feet over-all, with a flight deck width of 83 feet. It resembles CVL RYUHO, having a single stack and bridge located below the level of the flight deck on the starboard side.

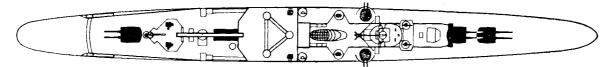


CA MOGAMI Class, MIKUMA (pre-war). IBUKI reported to be similar in size to MOGAMI Class.

Issued June 1945

NOTES





CL—Light Cruisers—AGANO Class

сь 24-Уанасі

Completed—1942–43 Complement—730

CL 25—SAKAWA

Completed—1942-44 Complement—730

Dimensions

Displacement: 6,000 tons (stand.). Length: 550' 0'' (oa). Beam: 49' 6''. Draft ..' ..'' (mean); ..' ..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (y1s.)	Ceil. (ft.)	Proj. (lbs.)
6	$6.1^{\prime\prime}/50$		45°	29,200		· · · · · ·
*4	3.9''/		85°		· · · · · ·	
		•				

**14 25 mm or 40 mm;

**4 24" TT (quad mount); ...reloads; Mines: (?)....; Depth Charges: Yes;

1 catapult; 2-3 scout observation planes.

Protection

'''' Belt (amidships);'''' (ends);					
"" Upper Belt;" Secondary Battery;					
'''' Decks;'''' Bulkheads;					
'' Turret;'' Barbette;'' Shield.					
Watertight Integrity:					
Damage Control:					
Splinter Protection:					

Propulsion	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	30 +			• • • • • • • • • •
Full:				
Max. Sust .:	• • • • • •			
Cruising:	• • • • • •			• • • • • • • • • •
Economical:				
Drive: Turbines	, geared; Sc	rews:	•	
Endly Oth Come	••••••		`	

Fuel: Oil; Capacity: tons (max.).

Notes

*Carried in twin mounts.

**Data on AA and TT are minimum figures.

Foremast fitted with ladder type, air search radar, Mark I, Model III, land-based, possibly designated as Mark II, Model IV ship-borne.

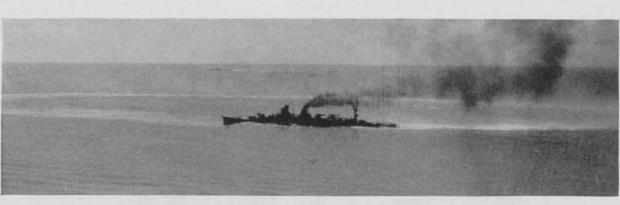
One unit sunk April 1945.

Remarks

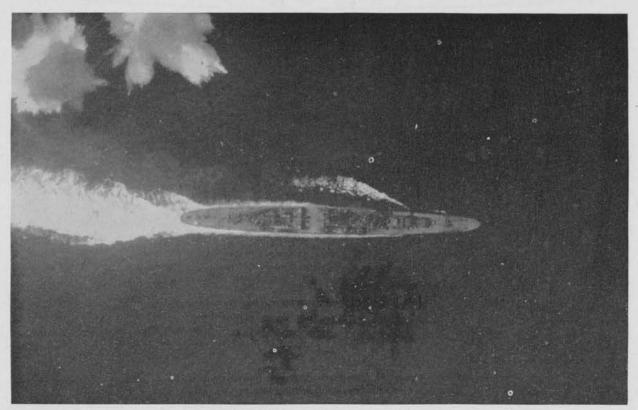
As the first regular light cruisers to be added to the Japanese Navy in over 10 years, units of the AGANO Class represent a considerable departure from their type predecessors. They appear to be more analogous to a lighter, 6''-gun version of the heavy cruiser AOBA, than a logical development of the YUBARI, which was the latest of Japan's older light cruiser designs.

The AGANO appears to be distinctly under-gunned for a modern small or medium sized light cruiser. A numerically stronger dual-purpose main battery of the caliber mounted in the American ATLANTA or British DIDO Classes would have made the AGANO a far more effective task force or escort unit. One plausible explanation of her main battery, as actually fitted, is that the original design may have provided for 8 6-inch guns in twin turrets fore and aft, and that the after high turret and barbette were suppressed during construction in favor of either a heavier torpedo battery, or aircraft accommodation, or both. These are trends observed in other Japanese cruisers.

Armor protection is probably similar to that of the AOBA; underwater protection may be considerably improved.



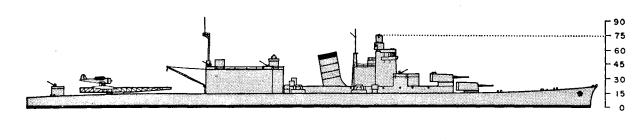
AGANO Class-January 1, 1944.

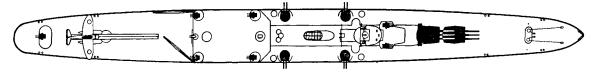


AGANO Class—November 11, 1943.



AGANO Class-November 5, 1943.





CL—Light Cruisers—OYODO

сь 22-Очоро

Completed—1942-43 Complement—776

Dimensions

Displacement: 10,000 tons (stand.). Length: 615'-620' 0'' (oa). Beam: 56' 0''.

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Р гдј. (lbs.)
*6	6. 1′′/50	• • • •	45°	29, 200		
**8	3. 9''		85°			

16 25 mm AA in 4 triple and 2 twin mounts; 1 catapult;

4 NORM II planes (Shiun "Purple Cloud"); Type 14 scout observation planes.

Propulsion

Speed: 37 knots (max.).

Notes

*Carried in two triple mounts.

**Carried in four twin mounts.

Reported fitted with search radar, possibly fire-control radar and radar search receiver.

Originally believed to be a unit of AGANO Class.

Data provisional.

Remarks

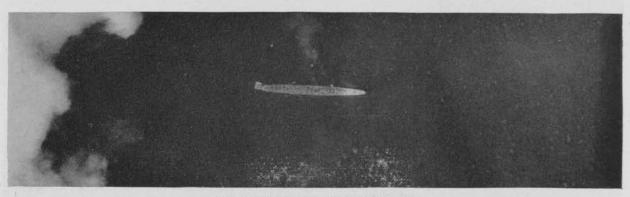
In essence, this ship appears to be a modified AGANO Class light cruiser. Following the TONE pattern, her main battery is concentrated forward and the after portion of the ship is devoted to ship-borne aircraft. The tactical handicap imposed by lack of stern fire is even more accentuated in vessels of this type than in 8"-gun cruisers or capital ships. The main battery disposition in triple turrets may indicate utilization of the triple 6.1"-gun mounts originally fitted in the MOGAMI Class. Protection is presumably similar to that of the AGANO's, although main battery magazine armor may be heavier.

OYODO mounts a center-line catapult aft, which is larger than the standard cruiser catapult. It is believed that the type plane carried necessitates the use of the larger catapult.

47



OYODO-October 25, 1944.

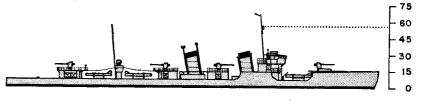


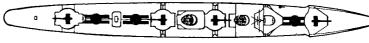
OYODO, Singapore-February 10, 1945.

MINEKAZE Class

Class built between 1918 and 1922 Complement: 154

DD 4 SAWAKAZE DD 8 YUKAZE DD 10 SHIOKAZE DD 12 NADAKAZE* DD 15 NOKAZE





Dimensions

Displacement: 1,215 tons (stand.). Length: 336' 6'' (oa); 320' 0'' (pp). Beam: 29' 3''. Draft: 9' 6'' (mean); ...' ...'' (max.).

Armament

	No.	Cal.	Mark	Elev.	Range(yds.)	Ceil. (ft.)	Proj. (lbs.)
	4	4.7''/45	3	33°	16,500		45
		··· ····	••••	• • • •			• • • • • • •
2	25 m	m;					

6 21" TT (twin mounts), 6 reloads; ... Mines, fitted for; Depth Charges: ...

Propulsion Speed (knots) Endurance HPRPM (miles) Designed: 34.0 750 38, 500 Full: Max. Sust .: Cruising: . . . Economical: 3,600 Drive: Turbines, geared; Screws: 2.

Fuel: Oil; Capacity: 400 tons (max.).

Notes

Propulsion

Designed:

Economical:

Full: Max. Sust.: Cruising:

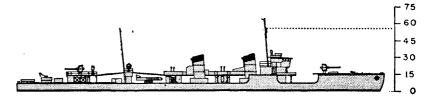
Notes

*May have been reclassified as auxiliary.

It is believed most units have been converted for ocean escort duties.

Speed is now probably under 30 knots.

See statistics on refitted units of MINEKAZE Class.



MINEKAZE Class Refit

Class built between 1918 and 1922 Complement—154



Drive: Turbines, geared; Screws: 2. Fuel: Oil; Capacity: 400 tons (max.).

and two torpedo tubes (twin mount).

*Probably under 30 knots.

This unit observed after refit.

Speed

(knots)

. . .

One unit reported to have $3-4.7^{\prime\prime}/45$ guns, 45° elevation,

.

Endurance

(miles)

.

HP

.

RPM

.

Dimensions

Displacement: 1,215 tons (stand.).	
Length: 336' 6'' (oa); 320' 0'' (pp).	
Beam: 29' 3''	
Draft: 9' 6'' (mean):''' (max.)	1

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	
2	4.7''/45	3	33°	16,500		
3	$25 \mathrm{~mm} \mathrm{~AA}$	(in singl	e mou	nts) (?);		
8	$25 \mathrm{~mm} \mathrm{~AA}$	(in twin	moun	ts);		

- 2 21'' TT (twin mount);.... reloads;
- .. Mines, fitted for: Depth Charges: Yes.

ONI 222-J

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Division of Naval Intelligence

Proj. (lbs.)

45

Issued June 1945

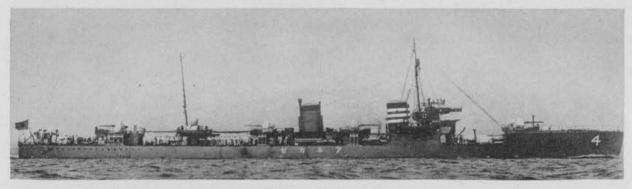
Compare with standard MINEKAZE Class design.

49

Remarks

First of Japan's post World War I fleet flotilla units, the MINEKAZE Class represents the ultimate development of a series of 10 "first-class" fleet destroyers built from 1911 to 1918. German influence is evident in the forecastle well-deck and dispersed torpedo armament. As in the case of the NATORI Class cruisers, Japanese designers sacrificed end-on fire power by refusing to adopt the superfiring main battery disposition of contemporary British and French designs. On the other hand they succeeded in endowing these vessels with comparatively high freeboard and low silhouettes. The MINEKAZE's were originally fitted to carry 20 mines, without entailing reduction in standard equipment. From all accounts these destroyers were very successful and met all requirements of their day.

The demands of this war have forced the Japanese to divert most or all remaining MINEKAZE Class units to escort and other subsidiary duties. Conversion work observed to date involved a reduction in the original main battery and torpedo armament, an appreciable increase in close-defense antiaircraft guns, and the fitting of additional depth charge equipment. The speed of these vessels has probably been reduced considerably due to the age of boilers and machinery.



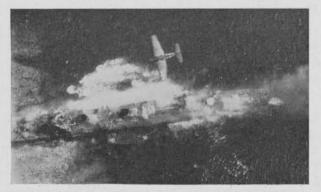
AKIKAZE-May 1931.



YUKAZE-1937.



MINEKAZE Class, Truk—February 17, 1944. Torpedo tubes removed, AA added.



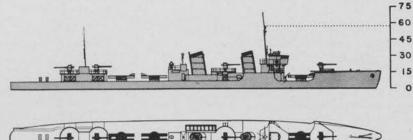
MINEKAZE Class, Truk—February 16, 1944. Torpedo tubes removed, AA added.

KAMIKAZE Class

Class built between 1921 and 1925. Complement—154.

DD 16 KAMIKAZE DD 18 HARUKAZE

DD 21 HATAKAZE



Dimensions

Displacement: 1,270 tons (stand.). Length: 336' 6'' (oa); 332' 0'' (wl). Beam: 30' 0''. Draft: 9' 7'' (mean); ...' ..'' (max.).

Propulsion

	Speed (knots)	Endurance (miles)	$_{HP}$	RPM
Designed:	34.0		38, 500	
Full:				
Max. Sust .:				
Cruising:				
Economical:		3,600		
Drive: Turbines,	geared; Scr	ews: 2.		

Fuel: Oil; Capacity: 400 tons (max.).

Remarks

Armament

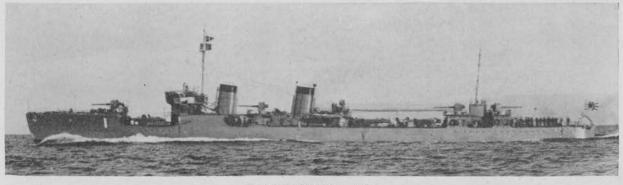
No.	Cal.	Mark	Elev.	Range (yds.)	Ceil, (ft.)	Proj. (lbs.)
4	$4.7^{\prime\prime}/50$		45°	17, 900		45
		****		$x \in \mathcal{V}(\mathcal{C}_{\mathcal{A}}, \mathcal{L})$	4.4.4.4.4.4	

 $2\ 25\ mm;$

6 24" TT (twin mounts); 6 reloads;

.. Mines, fitted for; ... Depth Charges: Yes.

In design these units are practically "repeat MINE-KAZE's." As originally completed they differed from their predecessors in having No. 3 4.7" gun mounted on the after deck-house forward of the mainmast instead of abaft the after stack. These ships were originally designated by number and assigned names at a later date. Surviving units may have been altered along similar lines as the MINEKAZE Class.



KAMIKAZE Class, 1925.

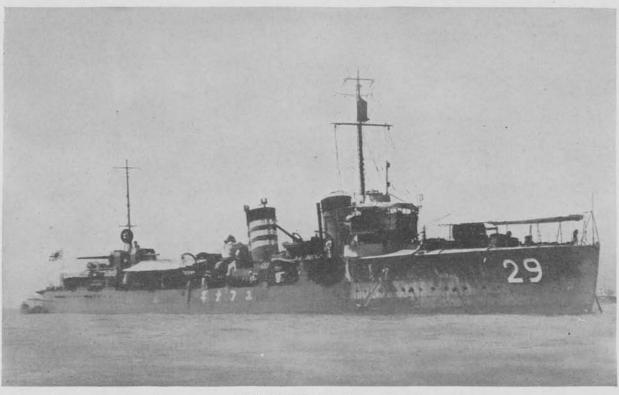
Division of Naval Intelligence

Issued June 1945

51



KAMIKAZE Class, Truk—February 16, 1944.



KAMIKAZE Class (pre-war).

FUBUKI Class

Class built between 1926 and 1933 Complement-228

AMAGIRI GROUP dd 52 Ushio

HIBIKI GROUP

dd 56 Нівікі

Dimensions

Displacement: 1,800 tons (stand.). Length: 392' 0'' (oa); 376' 6'' (wl). Beam: 34' 8". Draft: 9' 9'' (mean); 10' 8'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
6	5''/50	3	45°	21, 000		63

Range Ceil. Proj. (yds.) (jt.) (lbs.)

21,000 .. 63

4 25 mm (reported);

AMAGIRI (REFIT)

9 24" TT (triple mounts); 9 reloads;

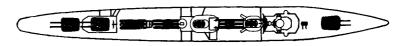
... Mines, fitted for; 12 depth charges.

One unit of Amagiri Group was photographed after refit in Novem-

ber 1943. The armament changes

for this unit are listed below.

90 75 60 45 30 15 0



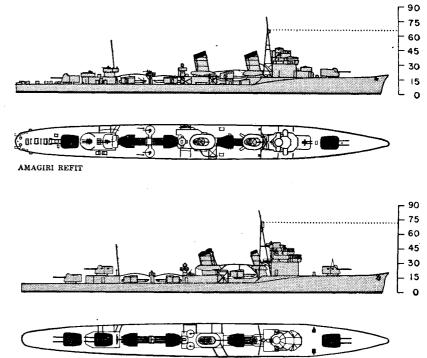
Propulsion

	Speed (knots)	Endurano (miles)	HP	RPM
Designed:	34.0		40, 000	
Full:				
Max. Sust.:	31. 0	1,420	• • • • • •	• • • • • • • • •
Cruising:			••••	• • • • • • • • •
Economical:	15.0	6, 000	• • • • • •	

Drive: Turbines, geared; Screws: 2. Fuel: Oil; Capacity: 450 tons (max.).

Notes

There are two design types in this class: Amagiri Group and Hibiki Group.



HIBIKI GROUP

40-mm).

Armament

Cal. Mk. Elev. 4 5''/50 **3** 45°

2 13 mm AAMG (singles);

9 24" TT (triple mounts).

*In two twin mounts and one triple

mount, (triple mount may be

*7 25 mm AAMG;

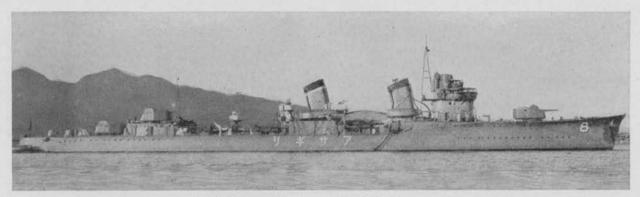
No.

Remarks

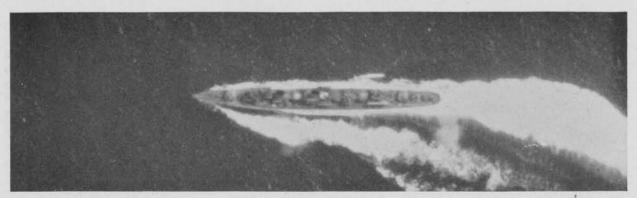
The FUBUKI Class marks a turning point in Japanese destroyer construction. First of the modern fleet destroyers, they actually led contemporary destroyer design the world over, introducing enclosed twin-gun mounts, shielded torpedo tube mounts, and high, all-steel bridges. Their influence has been reflected in Italian, British, French, and American destroyers designed and built since their completion. The 5" gun, heaviest yet mounted in Japanese torpedo craft, was introduced and the long forecastle revived. All but one of subsequent Japanese destroyer classes have been derivatives of this design. Although all FUBUKI'S were built to the same basic design and were originally fitted with the same armament, they differed in appearance. These appearance groups were: the SHINONOME, AMAGIRI, and HIBIKI Groups, in order of their completion. Certain units, particularly those in the AMAGIRI Group, have had No. 2 5-inch gun mount replaced by additional close-defense AA weapons. This change may have been carried out in other vessels due to the increasing air threat. Guns, tubes, and bridges may be fitted with light splinter-proof protective plating.



SHIKINAMI, FUBUKI Class. AMAGIRI Group (pre-war).



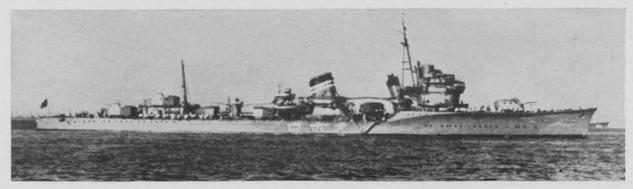
ASAGIRI, FUBUKI Class, AMAGIRI Group-1934.



Refitted unit, FUBUKI Class, AMAGIRI Group-November 18, 1943.



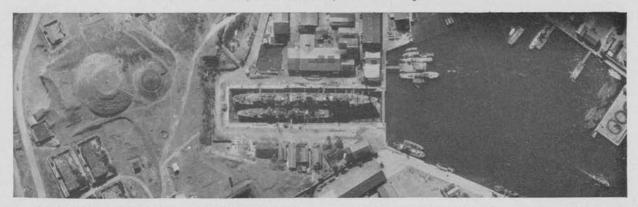
Refitted unit, FUBUKI Class, AMAGIRI Group-November 5, 1944.



FUBUKI Class, HIBIKI Group-1938.



IKAZUCHI, FUBUKI Class, HIBIKI Group-1938.



FUBUKI Class, HIBIKI Group with DE-UN-1, Pescadores-October 12, 1944. (No. 2 turret replaced by AA).

ONI 222-J

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NOTES

HATSUHARU-SHIGURE

Class

Class built between 1931 and 1937 Complement—213

DD 60 HATSUHARU DD 61 HATSUSHIMO DD 66 SHIGURE

Dimensions

Displacement: 1,400 tons (stand.). Length: 344' 0'' (oa); 337' 10'' (wl). Beam: 32' 7''. Draft: 8' 9'' (mean);''' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
5	5''/50	3	45°	21, 000	• • • • • • •	63

2 25 mm (subject to increase);

8 24" TT (quad mounts); 8 reloads;

... Mines, fitted for; Depth Charges: Yes.

Propulsion

	(knots)	Endurance (miles)	HP	RPM
Designed:	34 . 0		37, 000	390
Full:		1,000		
Max. Sust.:				. .
Cruising:				
Economical:		6, 000		• • • • • • • • •

Drive: Turbines, geared; Screws: 2. Fuel: Oil; Capacity: 500 tons (max.).

Notes

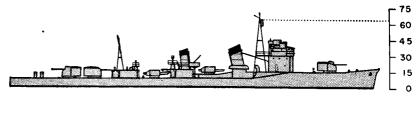
SHIGURE Unit:

Length: 341' 3'' (oa); 335' 5'' (wl).

Beam: 31' 9''; Draft: 9' 1'' (mean).

One unit of SHIGURE Class reported to have been refitted:

Armament: 11 25 mm AAMG disposed as follows: The single 5''/50 aft replaced by 1 triple 25 mm AAMG;





1 triple 25 mm AAMG on each side of bridge at main deck level; 1 twin 25 mm AAMG forward of bridge; 12 type 95 depth charges carried in racks aft. Maximum capacity-200 depth charges.

Propulsion: Endurance 5,000-6,000 miles at an economical speed of 15 knots.

Remarks

HATSUHARU Units:

When the HATSUHARU Class was first commissioned, the five 5" guns were disposed in a twin mount and a superfiring single mount forward, with a twin mount aft. The bridge was very large. As the result of the capsizing of the torpedo-boat TOMOZURU in March 1934 and the behavior of these ships at sea, they were taken in hand for considerable alterations. Top weights were reduced by substituting a smaller bridge, remounting the single gun mount aft at main deck level just forward of the after twin mount, and reducing the torpedo armament to two triple mounts. The torpedo battery is reported to have been increased to eight 24" tubes in quadruple mounts.

The original 5" battery plan of this class is interesting inasmuch as it represented the first use of superfiring mounts forward in Japanese destroyer design. Another reported innovation was the extensive use of welding in their structure. ARIAKE of this class was fitted with twin rudders and is said to have reached 40 knots on trials.

SHIGURE Units:

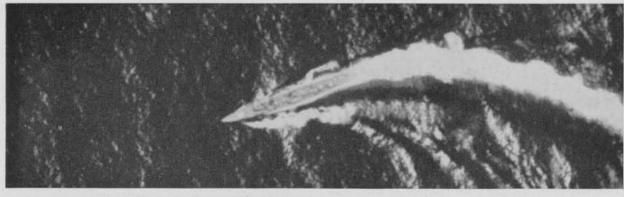
These vessels were practically "Repeat HATSU-HARU's," and differed only in minor details. According to published pre-war reports, SHIGURE Units were among the first Japanese destroyers to be armed from the start with the new type 24" torpedo tubes, arranged in triple mounts.



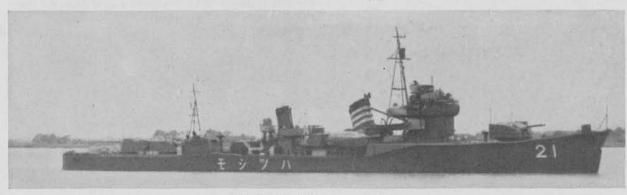
SHIGURE—July 1939.



SHIGURE—July 1939.



HATSUHARU-SHIGURE Class-September 3, 1942.



HATSUSHIMO—August 1937.

ASASHIO-KAGERO Class

Class built between 1935 and 1958 Complement-228

DD 84 KASUMI DD 87 SHIRANUHI DD 92 YUKIKAZE DD 95 AMATSUKAZE

DD 101 HAMAKAZE

Dimensions

Displacement: 1,650 tons (stand.). Length: 361' 6'' (oa); 356' 2'' (wl). Beam: 33' 4''. Draft: 9' 0'' (mean); ..' ..'' (max.).

Armament

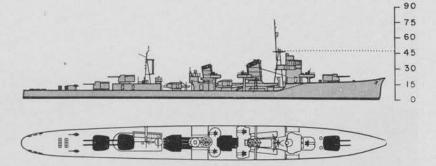
No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
6	5''/50	3	60°	21,000		63
	(x+x+x+x)	111110	$(a_1^{-1},a_2^{-1},a_3^{-1},$	$(\mathbf{x}_{i}^{T},$		
*10 95	100.000					

8 24" TT (quad mounts); 8 reloads;

Mines, fitted for; Depth Charges: 18; 4 DC release gears.

Propulsion	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	34.0		38,000	
Full:	35. 8	960	54, 800	
Max. Sust.:			******	******
Cruising:				
Economical:	15.0	5,700		
Drive: Turbines				

Fuel: Oil; Capacity: 500 tons (max.)



Notes

*Minimum AA armament indicated on drawing. Fitted with ladder type air search radar, Mark I, Model III, land-based, possibly designated as Mark II, Model IV, ship-borne.

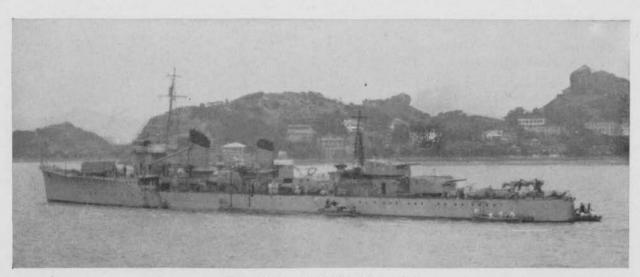
Remarks

Practically alike, ASASHIO and KAGERO units represent a return to larger displacements and dimensions in Japanese pre-war destroyer construction. Their military characteristics are almost identical with those of the FUBUKI's, with 24" torpedo tubes in quadruple mounts substituted for the triple mounts in the older units. In appearance they resemble the HATSUHARU-SHIGURE Class, except for their FUBUKI type 5"-gun battery disposition. The high enclosed mount aft is subject to removal and replacement by light AA weapons.

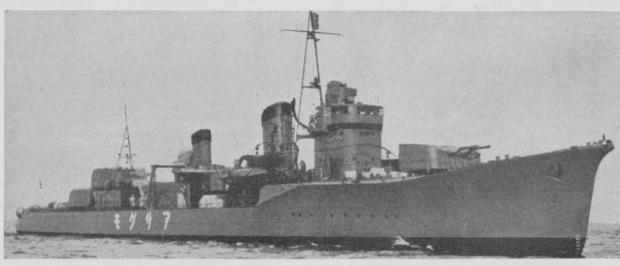


ISOKAZE-March 15, 1941.

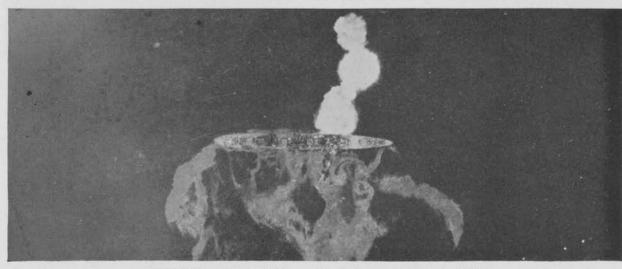
Issued June 1945



ASASHIO-KAGERO Class-1938.



ASAGUMO-November 1938.



ASASHIO-KAGERO Class, Bismarck Sea-March 4, 1943.

TERUTSUKI Class

Class built between 1941 and 19-

Complement-290

DD HARUTSUKI DD YOITSUKI

DD NATSUZUKI DD HANAZUKI

Dimensions

Displacement: 2,300 tons (stand.). Length: 435' 0'' (oa). Beam: 38' 0''. Draft: ..' ..'' (mean); ..' ..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
8	4''/65		85°	*17,400	42,500	30
**10 25 1	mm in t	win mou	ints;			

4 24" TT (quad mount); 4 reloads;

... Mines, fitted for; 2 twin depth charge throwers; Depth charges: Yes.

Propulsion

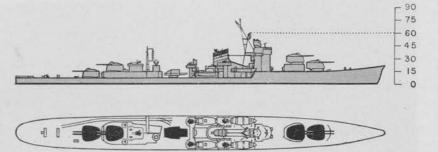
	(knots.)	Endurance (miles)	HP	RPM
Designed:	40.0			
Full:				*******
Max. Sust:				
Cruising:				
Economical:				
Drive: Turbines				
Fuel: Oil: Cana	aita	tone (ma	-)	

Fuel: Oil; Capacity..... tons (max.).

Notes

*It is reported that maximum surface range may be 20,000 yards.

**Additional AA may be carried. Mainmast fitted with ladder type radar antenna, Mark I, Model III, land-



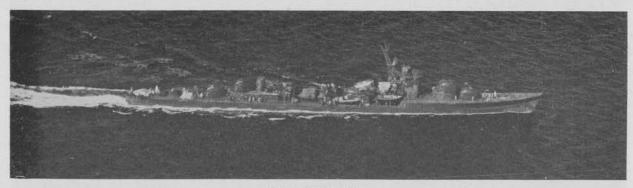
based, possibly designated Mark II, Model IV when ship-borne.

Mattress type, early warning search radar located on foremast.

Remarks

In the TERUTSUKI Class the Japanese apparently attempted to evolve a cheaper substitute for the small fleet cruiser, fitted with the same type of armament as the American ATLANTA-OAKLAND and British DIDO Classes of dual-purpose battery cruisers. In main battery plan the TERUTSUKI resembles the French MOGADOR, British "Tribal" and American PORTER and SOMERS (original rig) Classes of large destroyers. She has been referred to as a "Japanese Tribal" because of her weak torpedo armament. Her superstructure arrangement probably permits greater safe angles of train of the main battery than found in her occidental prototypes. TERUT-SUKI's closest design antecedent in the Japanese Navy appears to be the small, unusual cruiser YUBARI, commissioned over 20 years ago.

A new type dual-purpose gun and twin mount was introduced in the TERUTSUKI; the gun itself is apparently a high-velocity model and may have been intended to outrange the gun armament currently mounted in American destroyers and antiaircraft cruisers.



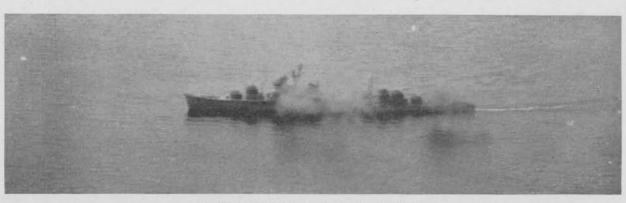
TERUTSUKI Class.

ONI 222-J

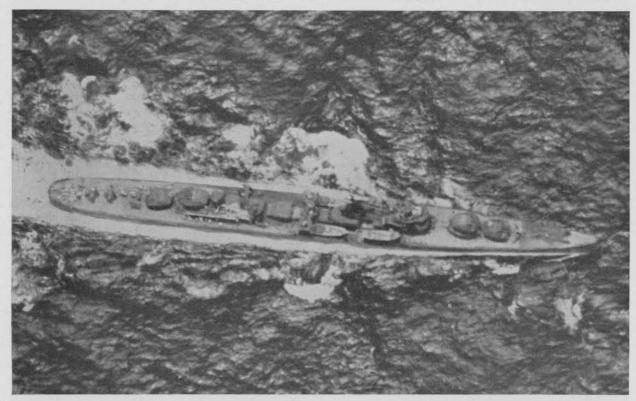
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Issued June 1945



TERUTSUKI Class-November 11, 1944.



TERUTSUKI Class-September 29, 1942.

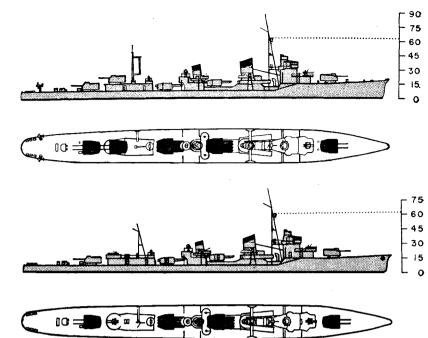


TERUTSUKI Class-November 11, 1944.

TAKANAMI Class

Class built between 1941 and 1944 Complement—228

dd 121	Fujinami
dd 127	Kishinami
DD 128	Shiranami
DD	ASASHIMO



SHIMO GROUP

Dimensions

Displacement: 2,000 tofts (stand.). Length: 382' 0'' (oa); ...' ...''. Beam: 34' 0''. Draft: ...' ...'' (mean); ...' ...'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
*6	4. 7''/		85°	20, 000	• • • • • •	•••••
			· · · ·	• • • • • •	· · · · · ·	• • • • • • •

**4 25 mm;

8 24" TT (quad mounts); reloads; ... Mines, fitted for; Depth Charges: Yes.

Propulsion

	Speed (knots)	Endurano (miles)	e HP	F	PM
Designed:	36.0		45,000		
Full:					.
Max. Sust.:	• • • • • • •				• • • • .
Cruising:		• · · • • • •			••••
Economical:					
Drive: Turbines,	geared; Sci	rews: 2.			
Fuel: Oil; Capaci	ty:	tons (ma			

Notes

*Photographic evidence confirms main battery as dual purpose. Caliber of gun is speculative.

**Light AA subject to increase.

The No. 2 shield mount on ASASHIMO has been replaced by triple mount 25 mm AAMG. Another triple mount 25 mm AAMG is reported forward of bridge. The location of other 25 mm and 13 mm guns on these units is unknown. See drawing of "Shimo Group." Fitted with ladder type radar antenna, Mark I, Model III, land-based, possibly designated Mark II, Model IV when ship-borne.

Remarks

Slightly enlarged ASASHIO's, the TAKANAMI Class adheres to the basic design pattern set by the FUBUKI Class. Her principal reported innovation is the substitution of a new 4.7" gun in twin enclosed dual-purpose mounts for the 5" surface guns of her predecessors. Light flak weapons are apparently mounted to better advantage, the best instance being the fitting of a center-line 25 mm gun platform just forward of the bridge to cover sectors from ahead.

In the "Shimo" Group of the TAKANAMI Class the Japanese replaced the high 4.7'' gun mount aft with a triple 25 mm AA mount, following the pattern in rearming of the older 5"-gun ships. This seems to indicate that the close-defense batteries are still considered inadequate to counter the aerial threat.

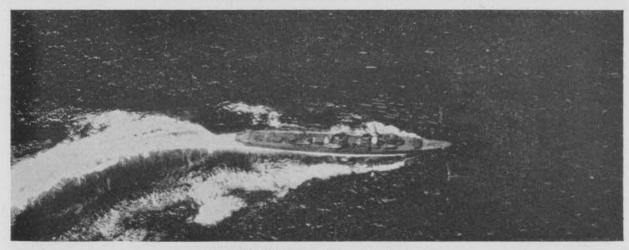
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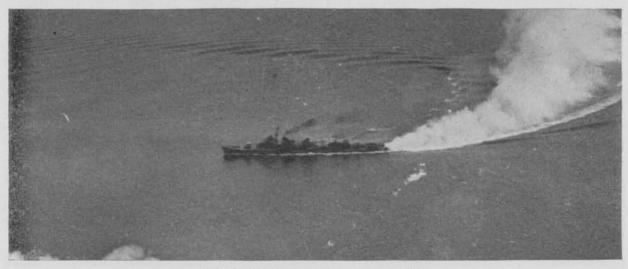
Issued June 1945



TAKANAMI Class-November 1944.



TAKANAMI Class-November 4, 1943.



TAKANAMI Class-November 11, 1944.

SHIMAKAZE Class

Class built between 1941 and 19..

Complement-282

DD 129-SHIMAKAZE

Dimensions

Displacement: 2,100 tons (stand.). Length: 410'0'' (oa). Beam: 36' 0''. Draft: ..' ..'' (mean); ..' ..'' (max.).

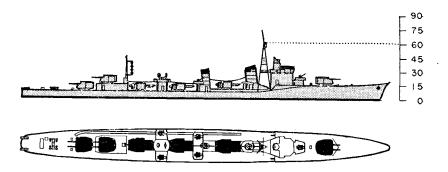
Armament

No.	Cal.	Mark	Elev.	Range (yds.)		Ртој. (lbs.)
*6	$4.7^{\prime\prime}/45$	10	85°	18,000	35,000	42.7
		· · · ·		••••	••••	
**10	25 mm (twi	in moui	nts);			

***15 24 " TT (quint. mounts) .. reloads. .. Mines, fitted for: Depth Charges: Yes.

Propulsion	Speed (knots)	Endurance (miles)	HP	RPM
Designed:				
Full:	37.0			
Max. Sust.:				
Cruising:				
Economical:			<i></i>	· · · · · · · · · · ·
Drive:	;	Screws:	;	
Fuel: Oil: Ca	nacity	tons (n	19.X)	

Fuel: Oil; Capacity:.... tons (max.).



Notes

*Caliber and range are speculative.

- **Four AA gun mounts amidships may be triples.
- ***First instance of Japanese use of quintuple tube mount. Fitted with ladder type air search radar, Mark I, Model III land-based, possibly designated as Mark II, Model IV shipborne.

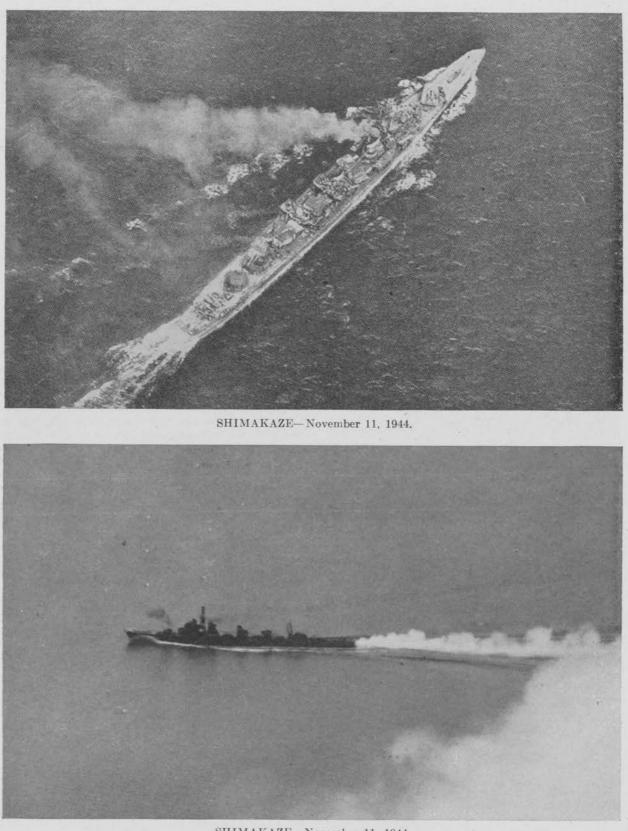
All data provisional.

Remarks

The SHIMAKAZE Class seems to represent the culmination of the progressive development of the original FUBUKI destroyer design. Though she approaches the TERUTSUKI in displacement and dimensions, the SHIMAKAZE is still first and last a fleet destroyer, as evidenced by her unusually heavy torpedo armament. Her automatic light AA battery appears to be the heaviest yet mounted in Japanese destroyers; a further increase in this battery might conceivably be made at the expense of one of the torpedo tube nests rather than the after 4.7-inch gun high mount. She appears to mount the same type 4.7 inch gun house as the TAKANAMI Class.

ONI 222–J 645616°—45—6

65



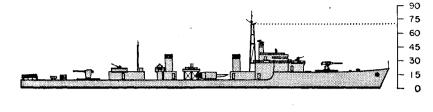
SHIMAKAZE—November 11, 1944.

Sec.

DD—Escort Destroyers

MATSU Class

Class built between 1943 and 19.. Complement-200-210





Remarks

First of Japan's war-built escorts of the destroyer type are the rather numerous units of the new MATSU Class. They mark an unusual departure from conventional Japanese torpedo craft design and reflect an attempt to counter the aerial threat to convoys and small warships. Bearing the names given 20–30 years ago to "second-class destroyers," they probably were intended to fulfill analogous functions in the present Japanese fleet. In general fighting value they are in the same bracket with the British World War II "Hunt" series of small escort destroyers, and rate somewhat above the American DE or "destroyer escort."

Their outboard features suggest simplified construction for mass production; the long, low bridge is apparently dictated by war experience and follows a similar trend in other major navies. It has been reported that these ships are powered with geared turbines for a speed of 30 knots. The wide spacing of their stacks indicates separated fire rooms, a measure employed to reduce the effect of damage to their propelling plant. They share this feature with recent American destroyers and German Schichau torpedoboat designs of the past. On an estimated standard displacement of around 1,000 tons and for a speed of 30 knots. a shaft output of some 20,000 HP. would be required. Assuming this estimate to be correct, the small stacks fitted in the MATSU would call for high pressure boilers. High pressure boilers, together with high capacity turbines and reduction gears, are items absorbing considerable industrial war potential on a mass production basis. Their estimated beam of 33 feet should make these ships rather stable gun platforms, unless they are overloaded with their present armament.

While their close-defense weapons appear to be adequate for units of this type, the MATSUs' main battery is definitely makeshift. Four or six 4" dual-purpose guns in twin mounts, as mounted in the British "Hunt's," would have been far more effective. Availability and expediency probably dictated the selection of the guns and mounts actually fitted. According to reports, no director fire-control system is fitted, only pointer fire, with range and deflection figures transmitted by telephone from the bridge. As in some of the "Hunt's" and American DE's, a single nest of four torpedo tubes is mounted. These tubes house the powerful Type 93, 24" torpedo.

Момо	YANAGI	Susuki
Момі	HAGI	SUMIRE
Ume	Fuji	HASU
TAKE	Аог	Enoki
Sugi	Κικυ	KAEDE
TSUBAKI	Katsura	Kashi
Hinoki	Hashi	Keyaki
Kaya	Sakura	Kiri
Kashiwa	Μακι	NARA
TACHIBANA	Kusu	TSUTA

Dimensions

Displacement: 1,000 tons (stand.).	
Length: 320' 0''-330' 0'' (oa.).	
Beam: 33' 0''.	
Draft:	

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
3	5''/40	89	85°	15,000	35, 000	45

12 25 mm AAMG (triple mounts);

Additional 25 mm and 13 mm AAMG (single mounts); disposition unknown;
4 24" TT (quadruple mount); reloads Depth Charge Racks.
Depth Charge Throwers: 2.

Number of Depth Charges: 120 (max.).

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	27 - 28		• • • • • •	
Full:	30			••••
Max. Sust.:		<i>.</i>		
Cruising:	18 - 20		• • • • • •	
Economical:				
Drive: : S	crews:	;		
Fuel: Ca	pacity:	tons ((max).	

Notes

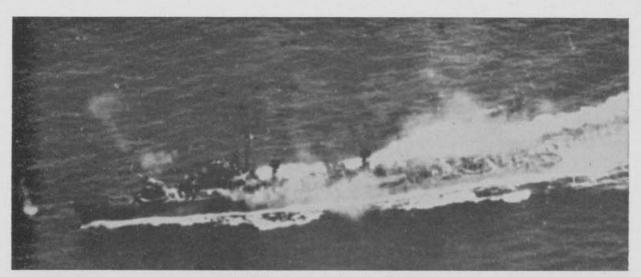
Fitted with Mark II, Model II, two-horn type radar for surface search.

Reported to carry fixed and directional RSR antennae.

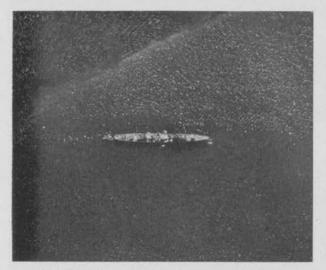
ONI 222-J

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Issued June 1945



MATSU Class-October 24, 1944.

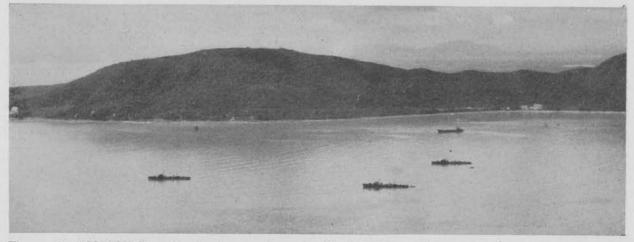


MATSU Class, Hongkong-January 16, 1945.



MATSU Class, Toshien, January 9, 1945.

in a Ma



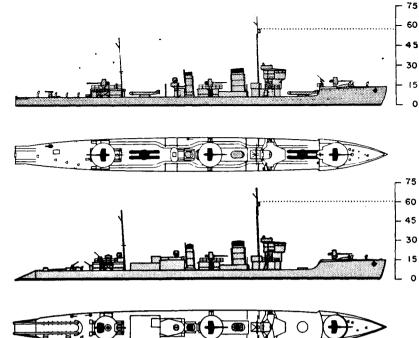
Three units of MATSU Class, Cap St. Jacques-December 31, 1944. Note widely spaced stacks and low bridge.

ODD—Escort Destroyers

KURI-WAKATAKE Class

Class built between 1918 and 1923 Complement-110

odd 7Kuri	
орр 11—Какі	
odd 12Tsuga	
odd 18—Hasu	
ODD 26-ASAGAO	



Dimensions

Displacement: 820 tons (stand.). Length: 287'0'' (oa); 282'0'' (wl). Beam: 26'6''. Draft: 8'3'' (mean); ..'..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
*3	4.7''/45	3	33°	16, 500		45
*4 21'' 🛛	ΓT (twin n	nounts); r e	loads;		
3.5.	0	T 2		~ ~		

... Mines, fitted for; Depth Charges: Yes.

Propulsion

_	Speed (knots)	Endurance (miles)		RPM
Designed:	31. 5		21,500	
Full:		625		
Max. Sust .:				
Cruising:	 .	2,000		
Economical:				
Drives: Turbines	, geared; Sc	erews: 2.		
Fuel Oil Capacit	tr. 200 ton	(max)		

Fuel: Oil; Capacity: 290 tons (max.).

Notes

*Part or all of gun and torpedo armament removed and light AA weapons increased to 4 25 mm pieces in most cases.

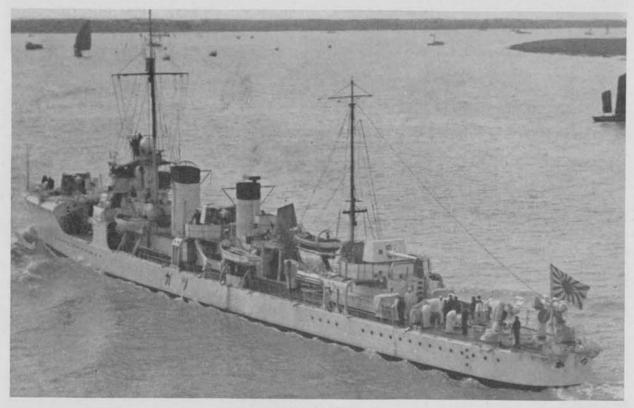
Unit of class converted to DM is also illustrated. Length of converted unit estimated to be 292'0'' (oa).

Remarks

Built to a reduced MINEKAZE design, these two classes were the last "second-class destroyers" added to the Japanese Navy. One 4.7" gun, one nest of tubes, and 2½ knots designed speed were sacrificed. In service these units have not been too successful, being too slow and of short range for oceanic fleet operations. At least two units of these classes have been lost through capsizing and foundering in heavy weather, indicating insufficient stability. It is believed that all surviving units have been converted for subsidiary duties, such as light minelayers, fast mine sweepers, escort vessels and tenders. Part or all of the original armament appears to have been removed in favor of increased close-defense AA batteries and underwater weapons and equipment.



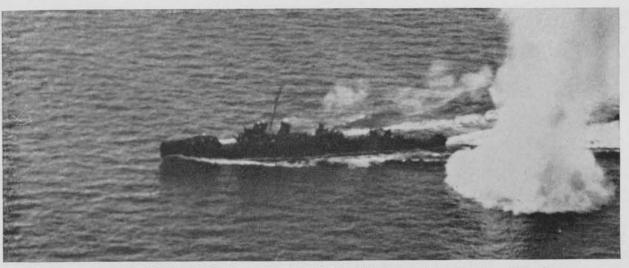
KAKI-December 1928.



TSUGA-1937.



HASU-August 1937.



KURI-WAKATAKE Class-March 30, 1944. Note forward torpedo tubes removed.



TSUGA-1940.



DM conversion—September 6, 1942.

NOTES

TB—Torpedo Boats

CHIDORI Class

Class built between 1931 and 1934 Modernized—1934-35 Complement—135

тв 1—Снідові тв 3—Томоzuru

TB 4-HATSUKARI

Dimensions

*Displacement: 527 tons (stand.). Length: 268' 6'' (oa); 253' 11'' (wl). Beam: 24' 2''. Draft: 6' 0'' (mean); ...' ..'' (max.).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
2	4. 7''/	1.5.5.5	****			45
		A	14.4.4			

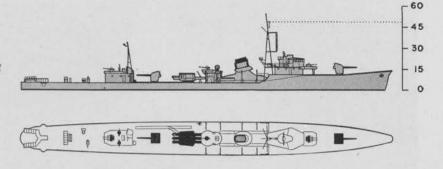
**5 25 mm AAMG;

**2 13 mm AAMG;

2 21" TT (twin mount); ... reloads; ... Mines; Depth Charges: Yes; Depth Charge Throwers fitted.

Propulsion

	(knots)	(miles)	e HP	RPM
Designed:	26.0	*****	7,000	
Full:				
Max. Sust .:				
Cruising:				
Economical:				
Drive: Turbines	; Screws: 2.			
Fuel: Oil: Capa	city: to	ns (max.)	1.	



Notes

*Standard displacement believed to be greater.

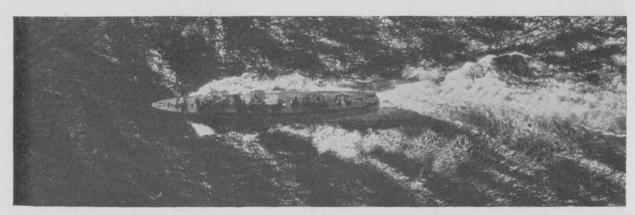
**Represents minimum AA armament.

Foremast fitted with ladder-type radar antenna, Mark I, Model III land-based, possibly called Mark II, Model IV when ship-borne.

Most units refitted since 1941; #3 shield mount replaced by AAMG, and radar added.

Remarks

These units were probably intended as replacements for the aging "second-class destroyers" of the KURI-WAKATAKE Classes. The officially announced characteristics for the CHIDORI Class placed them in the "unlimited" category of small warships under the qualitative and quantitative limitations of the London Naval Treaty of 1930. Their actual standard displacement is believed to be considerably higher. Nevertheless, they were definitely overloaded as first completed, with two nests of tubes and three 5'' guns in single enclosed mounts. The capsizing of the TOMOZURU in 1934 resulted in considerable reduction in top weights in this class and an increase in beam in the very similar OTORI's that followed. Stability was improved by reducing the size of the bridge and substituting the present armament. They are reported fitted with a stabilizing device, and capable of being used for minelaying and minesweeping.



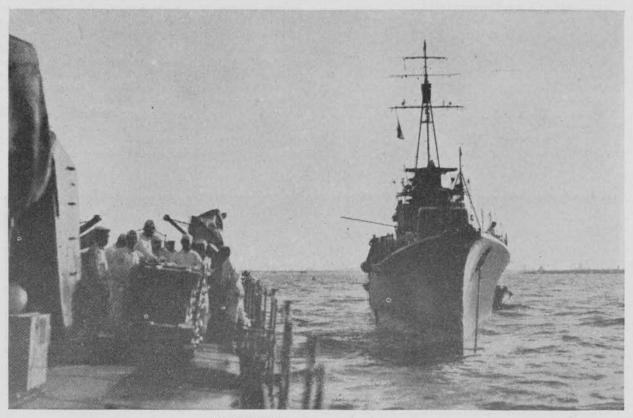
CHIDORI Class-1944.

ONI 222-J

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CHIDORI Class under attack. French Indo China-March 1945.



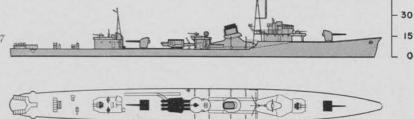
CHIDORI Class, bow on view (pre-war).

TB—Torpedo Boats

OTORI Class

Class built between 1934 and 1937 Complement-135

TB 6 — HAYABUSA TB 11-KARI тв 12-Кілі



Dimensions

- *Displacement: 595 tons (stand.). **Length: ...' ...'' (oa); 263' 0'' (wl). Beam: 25' 10".
 - Draft: 6' 9'' (mean); ...' ...'' (max.).

Armament

No.	Cal. Mark	Elev.	Range Ceil. (yds.) (ft.)	Proj. (1bs.)
2	4.7''/45	45°	17,600	. 45
***5	25 mm AAMG;			
***2	13 mm AAMG;			
3	21" TT (triple	mount);	reloads;	

... Mines; Depth Charges: Yes; ... D. C. Throwers fitted.

Propulsion

	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	28.0		9,000	
Full:				
Max. Sust .:				
Cruising:				
Economical:	*****			
Drive: Turbin	nes, geare			
Fuel: Oil; Ca	pacity	. tons (max	x.).	

Notes

*Standard displacement believed to be greater.

- **It is estimated that units of this class are 294'-0'' over-all. ***Represents minimum AA armament.
 - Reported to be satisfactory as regards stability.
 - Foremast fitted with ladder type radar antenna, Mark I, Model III land-based, possibly called Mark II, Model IV when ship-borne.

Most units refitted since 1941; #3 shield mount replaced by AAMG, and radar added.

Remarks

Ships of this class are larger, wider, and faster versions of the CHIDORI Class. Though antedating the American war-built DE, they bear a certain resemblance to and were probably intended for the same general duties as the larger American units. The over-all success of these boats may be judged by the fact that the Japanese did not see fit to continue the series.

One unit of this class has been photographed recently, with certain modifications evident: Number three 4.7''/45gun mount has been removed and light AA substituted.



HAYABUSA-1938.

60

45

0



KASASAGI (pre-war).



HAYABUSA—August 18, 1937.



HIYODORI-September 1937.

- 10 P

SS—Submarine Cruisers

I-5 Class

Class built between 1932 and 1938 Complement—82

I-5 I-6 I-8

Dimensions

Displacement: 1,900 tons (stand.). 2,500 tons (submgd.). I.ength: 320' 0'' (oa). Beam: 29' 5''. Draft: 15' 5'' (mean) (surfaced). Depth: 246' (safe):' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Ртој. (lbs.)
1	5. 5''/50	3	30°	19, 000		84
4 21' *20 21 14 re	MG (possil 'TT (H) (I '' torpedoe loads; Spee lines;	bow); 2 s, Type d: 35-4	21'' (9 89; 5; Rge	stern); e: 11,000-		s.

Protection

Type Hull: Double-hulled,	lightly	plated; riveted,	not
welded.			
Compartments:			
Special Features:			

I-9 Class

*I-

T-

	Class built between 1940 and Complement—114-135	••••
-1	I–12	J14
-10	I–13	*I−15

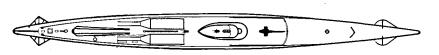
*Recently completed

Dimensions

Displacement: 2,180 tons (stand.). 2,600 tons (submgd.). Length: 373' 0'' (oa). Beam: 31' 0''. Draft: 14' 5'' (mean) (surfaced). Depth: 327' (safe); 327' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
1	5. 5''/50	3	30°	19, 000		84
2 25	mm twin	AAMC	G (?)	5,450	10, 500	
6 or 8 21'' TT (H) (bow); \dots '' (stern);						
**20 21'' torpedoes, Type 89;						
$12 \mathrm{or}$	14 re-loads;	Speed	35 - 45	; Rge: 11	,0006,01	4 yds;
Mines						



Propulsion

	Speed (knots)	Endurance	IIP	RPM
Designed:	17.0	2, 400 mi.	6, 000	
Full:				
Max. Sust.:	14. 0	12, 700 mi		
Economical:				
Full Submgd:	8.0		2,800	
Submgd. at:	3. 0	35 hrs		
**Crash Dive: 70	sec.			
Drive: Diesel; &	Screws: 2.			
Fuel: 589 tons	Oil (max.)			

Notes

*Type 95 also reported.

**Data given is for periscope depth in seconds.

When operating as submarine transport, floatplane is removed and hangar is used for cargo.

I-8 is an enlarged, improved type, basically the same as other units in design and appearance and is therefore included in I-5 Class. It is reported that this unit mounts 3 AAMG, has a designed speed of 23 knots, and a fuel capacity of 800 tons. Complement of I-8 is 104 officers and men.

Protection

Type Hull: Double-hulled, lightly plated; riveted, not welded. Compartments:

Special Features:

Speed

Propulsion

	(knots)	Endurance	HP	RPM
Designed:	17.0		6, 000	· · · · · · · ·
Full:				
Max. Sust.:	16.0	16,000 mi		
Economical:	• • • • • • •	<i></i> .		
Full Submgd:	8.0			•••••
Submgd at:	3.0	60 hrs	• • • • • • •	• • • • • • • •
Crash Dive: 80 s	ec.			
Drive: Diesel; Sc	rews: 2;			
Fuel: 936 tons Oi	il (max.).	•		

Notes

**Type 95 also reported.

Class similar in appearance to I-5 Class. Deck gun is abaft conning tower. Units of this class are still under construction. Carries one floatplane.

Division of Naval Intelligence

I-7 (pre-war). I-7 (pre-war).

I-5 Class.

SS—Submarine Cruisers

I-15 Class

Class built between 1940 and 19-Complement-94-96

I-26	I-41	I-47
I-36	I-44	I-48
I-37	I-45	I-49
I-38	I-46	

Dimensions

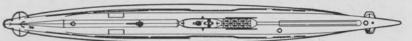
Displacement: 2,100 tons (stand.). tons (submgd.). Length: 335'-338' (oa). Beam: 25' 0'' Draft: 17' 8''-21' (surfaced). Depth: 327' (safe); 327' (tested)

Armament

No.	Cal.	Mark	Elev.	(yds.)	(ft.)	(lbs.)
*1	5.5''/50	3	30°	19,000		84
1	25 mm	(twin)	85°	5,450	10, 500	
6 21	1" TT (H) (bow)	; ' .	." (stern	ı);	
**16 3	21" torpe	does, Ty	pe 89	;'''	ΤΤ	
12 (or 14 reloa	ads; Spe	ed 35-	45; Rge:	11,000-6	6,014 yds;
***	Mines; .					

Protection





Propulsion	Speed (knots)	Endurance	HP	RPM
Designed:	17.0		6,000	
Full:	16.0	14, 000 mi.		
Max. Sust .:				www.www.
Economical:				
Full Submgd.:	7.0		2,000	
Submgd at:				
Crash Dive: 2-3	Min.;			
Drive:	Screws: 2	;		
Encl. 600 700 to	na oil (man	\ ****		

Fuel: 600-700 tons oil (max.) *

Notes

*4.7" DP may be mounted in recent units.

**Type 95 also reported.

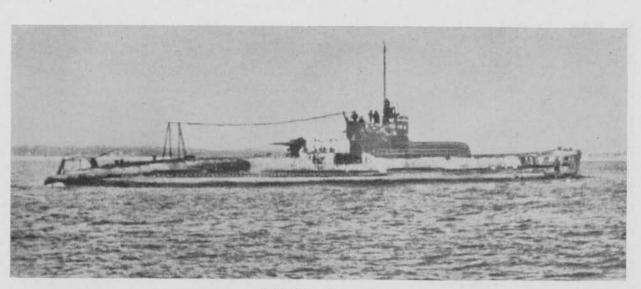
***Some units are reported to have been converted to minelayers.

****Probably carried for refueling other submarines.

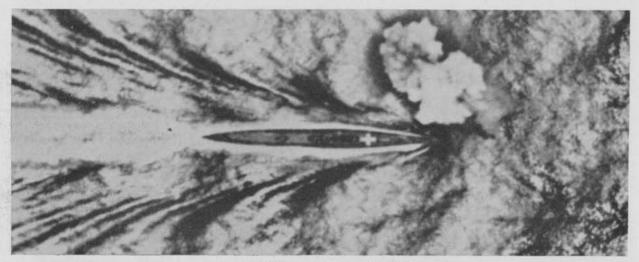
Some units mount deck gun forward and carry deck cargo aft. Fitted with Mark II, Model II 2-horn radar for surface search and fire control. Fitted with 2 radar search receivers. Capacity as transport: 20 tons (internally), 40 tons (on deck) or 156 troops (internally). This class is still under construction. Some units carry planes, midget SS or landing craft (Types A, B, or F).



I-15 Class.



I-15 Class (pre-war).



I-15 Class-September 28, 1943.

SS—Fleet Submarines

I-153 Class (includes I-155 Class)

Class built between 1924 and 1930. Complement—9 officers, 73 men.

1–153 (XI 1–53, EX No. 64) 1–154 (EX 1–54, EX No. 77) 1–155 (EX 1–55, EX No. 78) 1–156 (EX 1–56) 1–157 (EX 1–57) 1–158 (EX 1–58) 1–159 (EX 1–59)

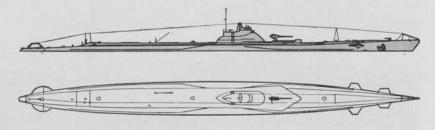
Dimensions

Displacement: 1,635 tons (stand.). 2,100 tons (submgd.). Length: 331' 0'' (oà). Beam: 26' 0''. Draft: 16' 1'' (max.) (surfaced). Depth: 176' (safe); 200' (tested).

Armament

N0.	Cal.	Mark	Elev.	Range. (yds.)	Ceil. (fl.)	Proj. (lbs.)
1	4.7''/40	See	30°	14, 200	*****	
1	AAMG					

6 21" TT (H) (bow); 2 21" (stern);
16 21" torpedoes, Type 89;
8 reloads; Speed: 35–45; Range: 11,000–6,014 yards. Mines;



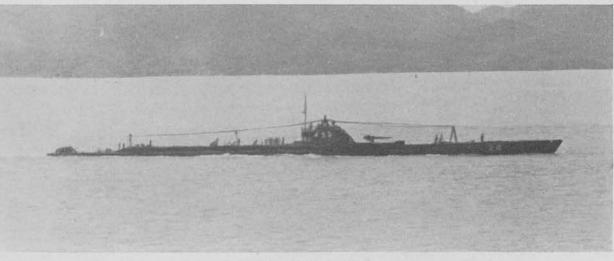
Protection

Type Hull: Double-hulled, no armor.

Propulsion	Speed (knots)	Endurance	HP	RPM
Designed:	20.0	FIGURE 191	6,800	300
Full:	1.14.14.14.1		-	
Max. Sust.:	16.0	5,200 mi.	4.4.4.4.4	
Economical:				
Full Submgd.;	8.0		1,800	190
Submgd at:	5.0	9 hrs.		
*Crash Dive: 81 s	sec.;			
Drive:; Se	crews:			
Fuel: 255 tons oil	(max.).			

Notes

*Data given is for periscope depth in seconds. I-158 carries three periscopes. This is the oldest operational class. Units of this class are now employed as "training and guard vessels."

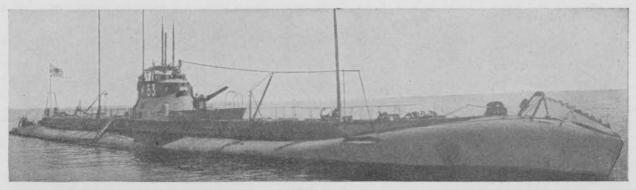


I-159- December 1938.

ONI 222-J

Division of Naval Intelligence Issue

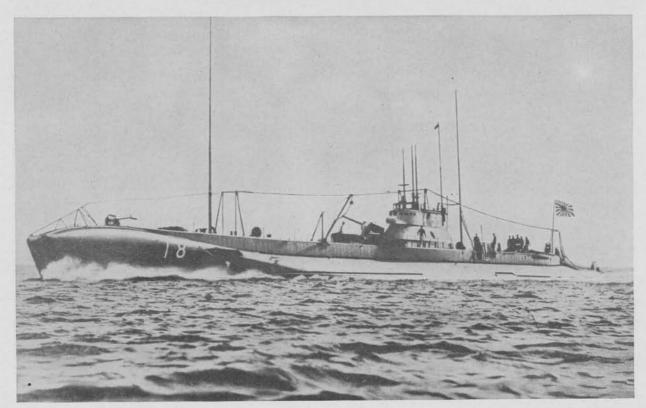
Issued June 1945



I-153-1934.



I-155 (pre-war).



I-160 (pre-war).

SS—Fleet Submarines

I-161 Class

Class built between 1926 and 1932 Complement—9 officers, 70–73 men

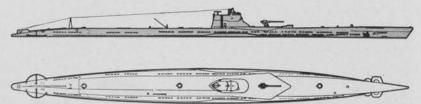
I-161 (EX I-61) I-162 (EX I-62) I-163 (EX I-63) I-165 (EX I-65)

Dimensions

Displacement: 1,635 tons (stand.). 2,100 tons (submgd.). Length: 321' 0'' (oa). Beam: 26'-27' 0''. Draft: 16' 0'' (max.) (surfaced). Depth: 197' (safe); 246' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
*1	4.7''/40		30°	14, 200		
1	AAMG	10111	5922	a sa		
	mm				*****	
	TT (H) (b torpedoes	and the second second		tern);		
	ds; Speed					



Protection

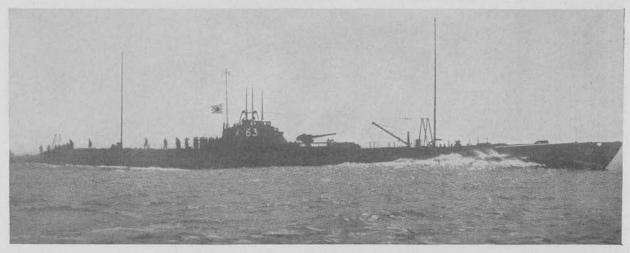
Propulsion

	Speed (knots)	Endurance	HP	RPM
Designed:	19.0		6,000	
Full:			12412214	
Max. Sust.:	16.0	6,200 mi.		******
Economical:				
Full Submgd.:	8.3-8.5		1,800	190
Submgd. at:	5.0	10 hrs.		
**Crash Dive: 2	70-81 sec.;			
Drive: Diesel	; Screws: 2	;		
Fuel: 207-252	tons oil (r	nax.).		

Notes

*Also reported as 4.0''.

**Data given is for periscope depth in seconds. Includes I-165 class.



I-163-June 1939.

83



I-161 Class (pre-war).



I-165 (pre-war).



I-161 Class (pre-war).

SS—Fleet Submarines

I-176 Class

Class built between 1941 and 1943 Complement-88

[-177 (ex I-77)	I–186 (ex I–86)
I-179 (ex I-79)	I–187 (Ex I–87)
I-184 (ex I-84)	*I-188 (ex 1-88)
I-185 (EX I-85)	*I-189 (EX 1-89)

Dimensions

Displacement: 1, 609 tons (stand.). tons (submgd.). Length: 335' 0'' (oa). Beam: 27' 0''. Draft: 13' 0'' (mean) (surfaced). Depth: 275' (design); ..' (tested). 262'-275' safe tested depth.

Armament

No.	Cal.	Mark	Elev.	(yds.)	(ft.)	(lbs.)
**1	5.5''/50	3	30°	19, 000		84
***2	$25 \mathrm{~mm}$ t	twin AA	AMG	5,450	10, 500	
6 21'' '	TT (H) (b	ow);	″ (s	tern);		
12 21''	torpedoes	;				
6 reloa	ds; Speed:	;	Range	:		
Min	nes;	• • • • • •			<i></i>	

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0.0

I-351 Class

Complement-76.

I-351 I-352 I-353

Dimensions

Displacement 1,600 tons (stand.) (estimated).

I-361 Class

Complement-48.

I361	I-365	I- 3 69
I-362	I-366	I-370
I-363	I–367	I-371
I-364	I-368	I372

I-400 Class (Cruiser Transport)

*Complement---142 I-400 I-401 I-405

Dimensions

Displacement: 2,500-3,000 tons (estimated).

Protection

. .

Type Hull: Double-hulled. Compartments: Special Features:

Propulsion	Speed (knots)	Endurance	HP	RPM
Designed:	23.5		2,600	
Full:				
Max. Sust.:	16.0	8,000 mi.		
Economical:				
Full Submgd:	8.0			• • • • • • •
Submgd at:				
Crash Dive:	min.			
Drive:	Screws: .	;		
Fuel: 352 tons Of	il (max.).			

Notes

Dest

*Existence unconffrmed.

- **Reported abaft conning tower.
- ***Some units have 2 25-mm twins for total armament, when operating as supply transports. Capacity as transport: 15 tons internally, 30 tons on deck, 2 landing craft, or 50 troops and 15 tons cargo. Equipped to carry 1 scout observation plane.

Armament

6 Bow T T (?).

Propulsion

Speed: 23 kts. (surfaced) (?). 8 kts. (submerged) (?).

Dimensions

Displacement: 1,100 tons (surfaced) (?). Length: 349' (oa) Beam: 33'

Armament: 1-5" TT (bow)

Notes

This class may be still under construction.

Notes

*Complement includes 5 flight Petty Officers and 1 flight Warrant Officer.

These units may be used for long-range supply and combat operations. It is believed that a scout observation plane is carried for reconnaissance patrol.

ONI 222-J

Division of Naval Intelligence Issued June 1945

NOTES

OSS—Submarines, Coastal Type

RO-57 Class

Class built between 1921 and 1923 Complement-7 officers, 52 men

ro-57 RO-58

во---59

Dimensions

Displacement: 889 tons (stand.). 1,082 tons (submgd.). Length: 238' 0'' (oa). Beam: 23' 7". Draft: 13' 0'' (mean) (surfaced). Depth: 197' (safe); --' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	(lbs.)
1	3''/40	3	75°	12, 000	25,000	14.5
1	$25~\mathrm{mm}$	۱		5,450	10, 500	
4 21''	'TT (H) (b	ow);	"	(stern);		
8 21''	torpedoes,	6th Ye	ear Moo	lel;		
4 relo	ads; Speed	: 25-37	; Rang	e: 16,404-	-7,655 ya	.rds;
Mi	nes;					

Protection

Type Hull: Double-hulled. Compartments: Special Features:

Propulsion

Propulsion	Speed			
-	(knots)	Endurance	HP	RPM
Designed:	17.0	7, 500 mi.	2,400	. .
Full:				
Max. Sust.:	14.0	3 , 600 mi.		
Economical:		• • • • • • • • • •		
Full Submgd:	9. 0		1,800	
Submgd. at:	• • • • • •			
Crash Dive:	Min.:;			
Drive: Turbine;	Screws: 2;			
Fuel: 67 tons Oil	(max.).			

Notes

Believed obsolete; restricted to short range operations or training.

OSS—Submarines, Coastal Type

RO-60 Class

Class built between 1921 and 1927 Complement-6 officers, 52 men

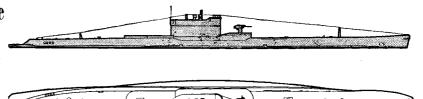
RO-62 (EX No. 73) **RO-63** (EX No. 84) ro-64 ro-67 ro-68

Dimensions

Displacement: 988 tons (stand.). 1, 300 tons (submgd.). Length: 250' 0'' (oa). Beam: 24' 3". Draft: 12' 4'' (mean) (surfaced). Depth: 197' (safe);' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
1	3''/40	3	75°	12,000		
1	AAMG					
4 21''	TT (H) (bow); 2	2 21''	(stern);		
12 21'	' torpedoes	s, 6th Y	(ear M	lodel;		
6 reloa	ads; Speed		; Rang	ge	;	
	nes:					



Protection

Type Hull: Double-hulled. Compartments: Special Features: 35%" degaussing coils.

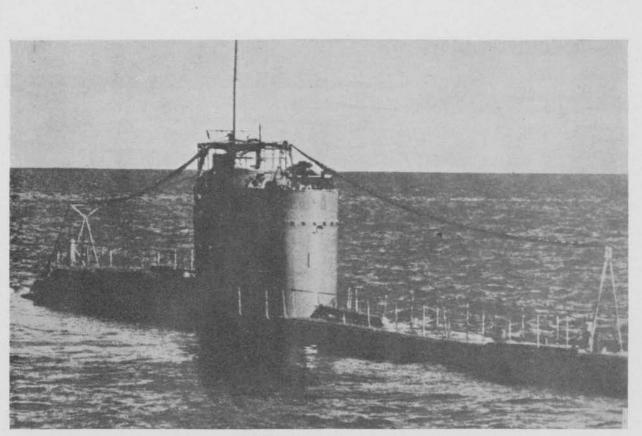
Propulsion	Speed (knot3)	Endurance	HP	RPM
Designed:	15. 1		2,400	380
Full:				
Max. Sust:	13.0			
Economical:	10.0	6, 000 mi.		
Full Submgd:	7.8		1,800	
Submgd. at:				• • • • • • •
Crash Dive: M	Min.:;			
Drive: Turbine; S	Screws: 2;			
Fuel: 75–96 tons	Oil (max.)	•		

Notes

Units of this class are considered obsolescent. Used for coastal patrol and training.

ONI 222-J

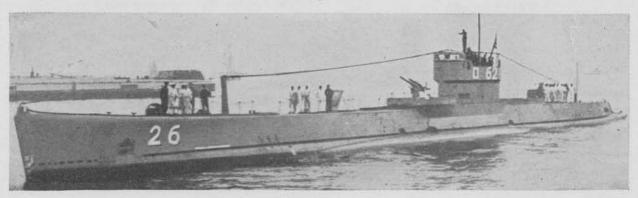
Division of Naval Intelligence



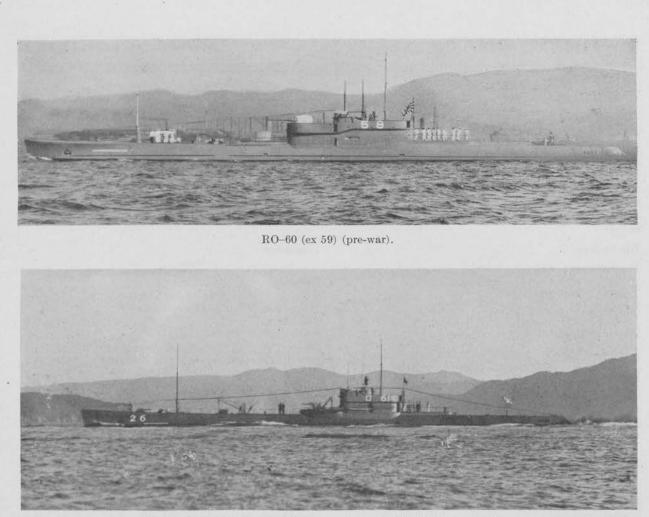
RO-57 Class (pre-war).



RO-58 (pre-war).



RO-62 (pre-war).



RO-61. Note variation in $3^{\prime\prime}$ gun position with RO-60 illustrated above.

OSS—Submarines, Coastal Type

RO-35 Class

Class built between 1942 and 1943

Complement-62

RO-36	ro—50
во-41	RO-51
во-42	во—52
ro-43	ro—53
во-46	ко—54
во-47	. во—55
во—48	RO-56
ко-49	

Dimensions

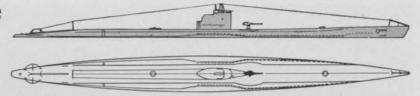
Displacement: 950 tons (stand.). tons (submgd.). Length: 255' 0'' (oa). Beam: 24' 0''. Draft: 12–13' (surfaced). Depth: 262' (safe tested); ... (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil, (ft.)	Proj (lbs.)
*1	25 mm			5, 450	10, 500	
	twin					
4 21'	' TT (H)	(bow);	"	(stern);		
10 21	" torpede	oes;				
6 rel	bads; Spee	ed:	; Rang	e: ;		
M	ines:					
-						

Protection

Type Hull: Dou	ble-hulled.	
Compartments:		
Special Features	• • • • • • • • • • • • •	



Propulsion

	Speed (knots)	Endurance	HP	RPM
Designed:	20.0			
Full:				
Max. Sust .:	16.0	5,000 mi.		
Economical				
Full Submgd:	8.0			
Submgd. at:	3.0			
**Crash Dive: 50	0 sec.;			
Drive:; S		;		

Fuel: tons Oil (max.).

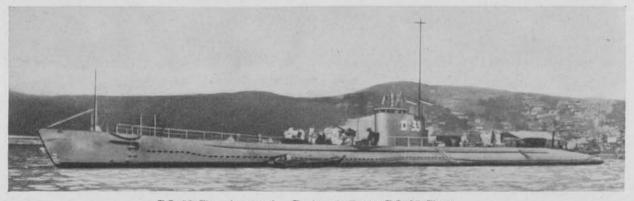
Notes

*May now be mounting $3^{\prime\prime}/40$ DP guns.

**Data given is for periscope depth in seconds.

Credited with the highest surface speed and greatest diving depth of the medium coastal group.

Assumed to be similar to the RO-33 Class. The RO-70 Class (5 units) and the Seagoing Type RO (KAICHU), previously reported, are actually of the RO-35 Class. Units of Class believed still under construction.



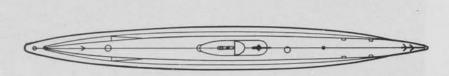
RO-33 Class (pre-war). Design similar to RO-35 Class.

OSS—Submarines. Coastal Type

RO-100 Class

Class built between 1942 and 1944

Comple	ment—38
ro-109	RO-118
RO-111	во—119
во—112	во-120
RO-113	во—121
во-114	RO-123
RO-115	во-124
RO-117	BO-125



Dimensions

Displacement: 500 tons (stand.). ... tons (submgd.). Length: 180' 0'' (oa). Beam: 20' 0'' Draft: ..' ..'' (surfaced). Depth: 246' (safe-max.); ..' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil, (ft.)	Proj. (lbs.)
*1	$25 \mathrm{mm}$	****		5, 450	10, 500	. 55
4 21	" TT (H)	(bow);	"	(stern);		
	" torpedo					
4 rel	oads; Spee	ed ;	Range	;		
** N	lines:					

Protection

Type Hull: May be single-hulled.	
Compartments:	22
Special Features:	

Propulsion

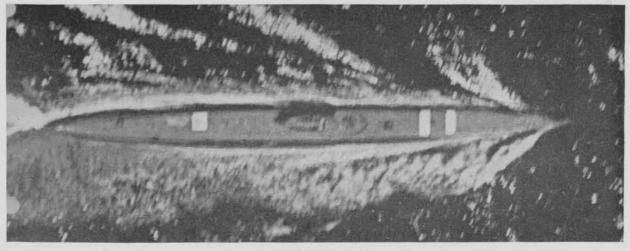
	Speed (knots)	Endurance	HP	RPM
Designed:	14.2			
Full:	anana -			
Max. Sust:	12.0	2,500 mi.		
Economical:				
FullSubmgd:	8.0		******	
Submgd at:	3. 5	60 hrs.		
***Crash Dive: 45	sec.;			
Drive:	. Screws:			
Fuel: to				

Notes

*Reported to be twin mount.

**Reported that some in class are equipped to lay mines, either through deck torpedo tubes or mine shafts.

**Data given is for periscope depth in seconds. Some units reported to be used as transports. Cargo capacity: 7 tons (internally); 4 tons (on deck);
2 landing craft or collapsible boats carried on deck. This class may be still under construction.



RO-100 Class.

ONI 222-J

Division of Naval Intelligence

Issued June 1945



RO-100 Class-March 16, 1943.

OSS—Submarines, Coastal Type

RO-500 Class

Class built between 1943-44 Complement-53

ro-500 (ex German U-1224) ro-501

Dimensions

Displacement: 900 tons (stand.) (est.). 740 tons (announced). Length: 244' 0'' (oa.). Beam: 21' 0'' Draft: 13' 3'' (mean.). Depth: 875' 0'' (tested).

Armament

No.	Cat.	Mark	Elev.	Range (yds)	Ceil. (ft)	Proj. (lbs)
*1	105 mm		30°		13, 300	38, 4
*1	20 mm		85°		1020010	
*1	$37 \mathrm{mm}$					
$4\ 21^{\prime\prime}$	TT (H) (h	ow); 2	21" (stern); 15	-23 21''	torpedoes
carried	d in hull an	d deck	conta	iners.		
Mines	: No know	n Japa	nese ta	zpe.		

Propulsion

	Speed (knots)	Endurance	HP	RPM
Designed:	20.0		4,400	480
Full:	19.0	and a second second	an a	460
Max. Sust:	17.5			415
Economical:	6. 0	18,000 mi.	******	160
Full Submgd:	8.0		1,500	210
Submgd. at Crash Dive: 35-41 :		*****		

Drive: Diesel/Elec; Screws: 2;

Fuel: 240-300 tons oil.

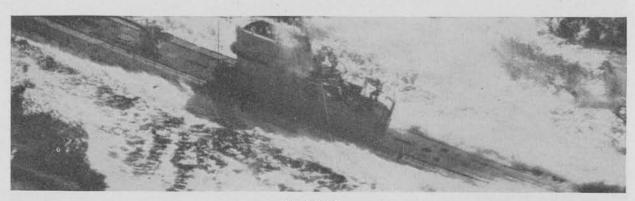
Notes

*German ordnance has undoubtedly been replaced by Japanese equipment.

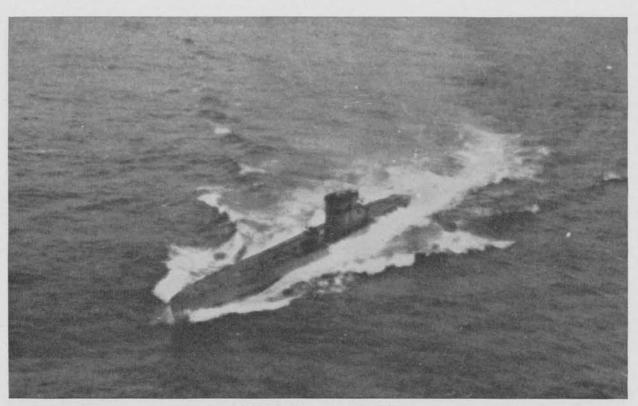
Probably not fitted with schnorkel.

Possibly called SATSUKI No. 1 by the Japanese.

High U-boat number indicates new unit turned over to Japanese at building yard.



RO-500 Class.



RO-500 Class-June 8, 1943.



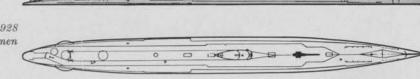
RO-500 Class—April 23, 1943.

SM—Submarine Minelayers

I-121 Class

Class built between 1924 and 1928 Complement—8 officers, 58 men

I-121 I-122



Dimensions

Displacement: 1,142 tons (stand.). 1,470 tons (submgd.). Length: 279' 6'' (oa.). Beam: 24' 6''. Draft: 14' 1'' (mean) (surfaced). Depth: 246' (safe); ..' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds)	Ceil. (ft)	Proj. (lbs)
1	5.5''/50	3	30°	19,000		84
1 A/	AMG (poss	ibly 25	mm)	4,000	3, 300	2002222
*4 21"	TT (H) (bow) .	"	(stern); 2	minesha	fts;
	" torpedoe					
rel	oads; Spee	d: 35-4	5; Ra	nge: 11,0	00-6, 014	yds.;
42 Mi	ines; Type	JII.				

Protection

Type Hull: Double-hulled. Compartments: 6. Special Features:

Propulsion

	Speed (knots)	Endurance	HP	RPM
Designed:	14.0	5,500 mi.	2,400	450
Full:				
Max. Sust.:	10.0	12,000 mi.		
Economical:				
Full Submgd.:	6. 5		1, 200	450
Submgd. at:	5.0	4 hrs.		
**Crash Dive: 80	sec.;			
Drive:; Se	rews: 2;			
Fuel: 218 tons Oi	1 (max.).			

Notes

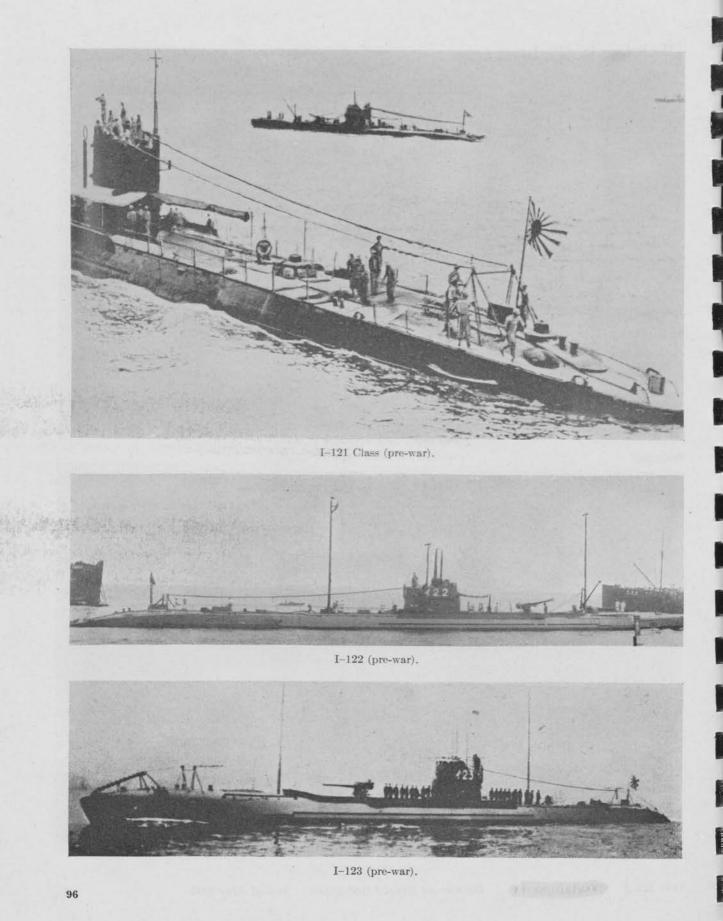
*One tube (stern) too small for mines. 24" TT reported.

**Data given is for periscope depth in seconds. Reported used for transport duties. Reported employed as "training and guard vessels."



I-122 (pre-war).

TONELDENTEN.



APS—Transport Submarines

Class built between 1943 and 19-Complement-90-100

I-52 Class

I-52 I-53

I-54 Class

I–54 I–56

I-58

Dimensions

Displacement: 2,800 tons (stand.). tons (submgd.). Length: 360' 0'' (oa). Beam: 29' 10''. Draft: 14' 5'' (surfaced). Depth: 295' (safe); ..' (tested).

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
1	4. 7''/45	10	7 5°	17,500 (effective)	35,000	70.5
· · ·		• • • •	••••		10 500	• • • • • • • •
*2	25 mm(?)				,	.55
2	21'' TT (H	I) (bow);'	'' (ste r n);	
4 21	" torpedoes;	;				
2 rel	loads; Speed	; Ra	nge	•		
N	Aines;					

Protection

Type	Hull:			• •				 		•			 •		•			
Compa	rtmen	ts:						 				• •						
Special	l Feat	ures	s:															

NO GRAPHIC INFORMATION

Propulsion

-	Speed (knots)	Endurance	HP	RPM
Designed:	16.0	8, 000 mi.	6,000	
Full:	19.0			•••••
Max. Sust.:				· · · · · · · ·
Economical:		<i></i>		• • • • • • • •
Full Submgd:	7.5		2,000	
Submgd at:	3. 0	60 hrs. ·	• • • • • •	
Crash Dive:	. Min:			
Drive: Diesel.; S	crews: 2;			
Tual. tonal	3:1 (

Fuel: tons Oil (max.).

Notes

*2 25 mm multiple mounts also reported. Units of I-53 Class believed similar since building program was parallel and tonnage seems identical.

One of class believed to be completed.

Cargo capacity:

250 tons. 560 tons aviation gasoline.

200 aerial torpedoes.

Provisions for 200 men for 1 month.

NOTES

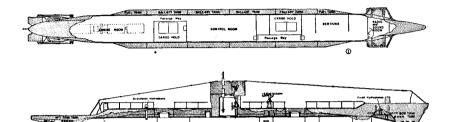
 $\rightarrow i$

YU Type Submarine (Army Transport)

Built---1944

Complement-16 Army men





Dimensions

Displacement: 290 tons (light, surfaced). 346 tons (submerged). Length: 137' 0'' (oa). Beam: 13' 0'' (extreme). Draft: 10' 0'' (mean). Depth:

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
*1	37 mm		50°		• • • • • •	
1	7.7 mm o	r Lewis ((portab	ole).		

Protection

Type hull: Single pressure hull and ballast tanks. Compartments: None.

Propulsion

-	Speed (knots)	Endurance	HP	RPM
Full: (surfaced)	11.15	2, 711 mi.	338.4	1100
Full: (submgd.)	4-5	4 hrs.		
Diving: Gauge cal	ibrated t	to 150'.		
Motors: Diesel 2-	-6 cylind	ler;		
1 100 HP @ 1200	RPM.			
Batteries: 228-2 v	olt; 200	amp/hr.		
Screws: 1; Fuel: ()il, 5,000	gals.		

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Notes

*Deck gun is Japanese Army Type 98, semi-automatic tank gun carried on a specially constructed mount. Four hydrophones fitted; three non-directional, one directional. Single 5' periscope.

Capacity is rated at 50 troops and 4-10 tons cargo or 40 to 50 tons of cargo, including tonnage transported on deck. Cubic capacity of cargo holds limits internal capacity to 32.5 tons.

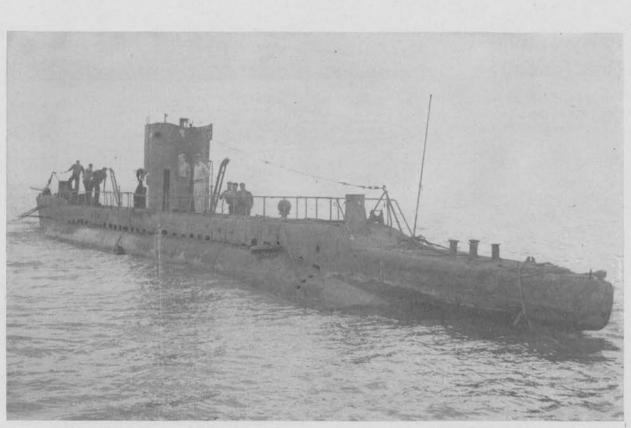
A special design built for and operated by the Submarine Transport Battelion of the Japanese Army.

ONI 222-J

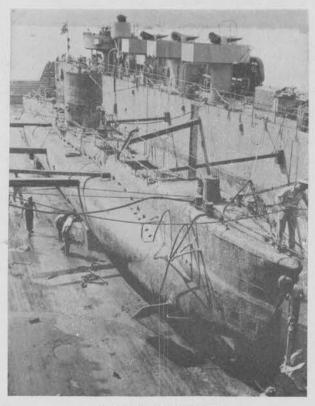
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Issued June 1945

99



View off port quarter. YU transport submarine salvaged in Lingayen Gulf-January 1945.



View off starboard bow.



View off port quarter.

Midget Submarines

MATO Type

Built: Complement—2.

Dimensions

Displacement: Length: 80' 6'' (oa). Beam: 5' 0''. Depth: 100' (safe).

Armament

2 18" torpedoes in bow tubes.

Propulsion

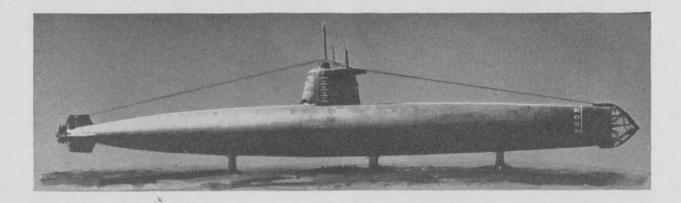
	(knots)	Endurance	HP	RPM
Designed:				
Full:	12	70 mi.		
Max. Sust .:	6	100		
Diving: 100' (se	afe), Gauge	calibrated t	o 30 met	ers.
Screws: 2 (coun	ter-rotating	g).		
Motors: One 60	0 HP.			
Batteries: 224 7	ype D.			
Periscope: One	5'.			
Automatic Twin	Stabilizer.		3	
300 lb. scuttling	charge.			

Notes

Hull consists of five sections.

Believed carried to operational areas by units of I–16 Class and on decks of APD's.

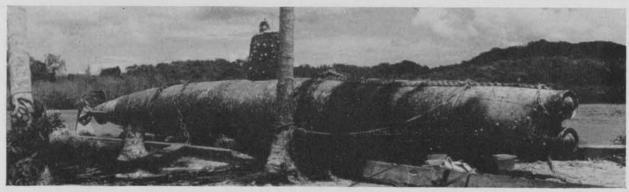
Above statistics are for a midget submarine raised at Sydney Harbor, designated MATO Type. Two other types have been reported, KO HYOTEKI and "Pearl Harbor." The latter, previously carried with an over-all length of 41' 0'', is a variation of MATO Type, having the same length with modifications in the bow net cutters and rudder guards. KO HYOTEKI, also believed similar to MATO Type, has been reported to have an over-all length of 82' 4".



ONI 222-J



Midget submarine beached on Oahu Island-December 7, 1941.



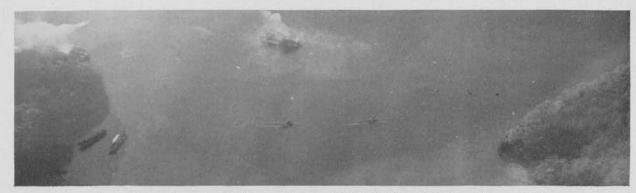
Midget submarine on Florida Island-January 1945.



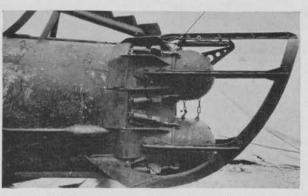
Bow on view, midget submarine.



Midget submarine beached on Oahu Island—December 7, 1941.



Four midget submarines, Okinawa-October 10, 1944. Type "A" Army barges at left.



Detail of net cutter and torpedo guard at bow.



Bow on view of torpedoes and guard.



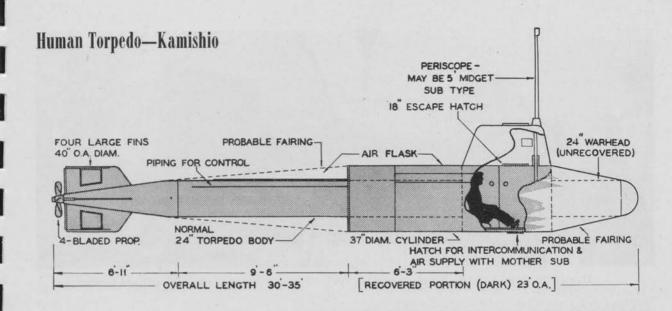
Detail of propeller and rudder guard.

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NOTES



Ulithi Type

Dimensions

Length: 30–35' (approximately). Diameter at Pilot's compartment: 37.''

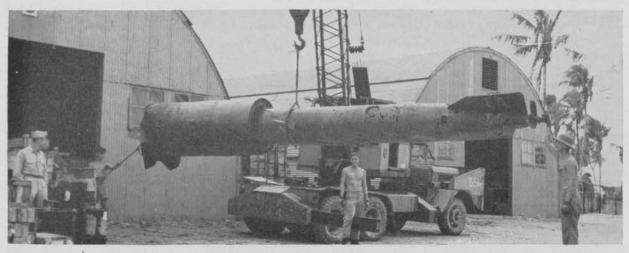
Range

30,000 yds. @ 40 knots. (Type 93, 24'' Torpedo.)

Notes

Believed to be a normal 24" torpedo separated at the juncture of the air-flask and warhead by a cylindrical pilot's compartment. Usual tail section has been replaced by a section of special construction with larger fins and oversize propeller. This modification in design will undoubtedly reduce the range.

May be transported to operating areas by "mother" submarine (I and RO Classes) and APD's, numbered transports.



Human Torpedo, ULITHI Type-November 1944.

Division of Naval Intelligence Issued June 1945

105



Human Torpedo, ULITHI Type-November 1944. Note cylindrical pilot's compartment forward.



Human Torpedo, ULITHI Type-November 1944.



Human Torpedo, ULITHI Type—November 1944, showing access hatch.

PF—Frigates

SHIMUSHU Class

Class built between 1939 and 19-Complement-146

ShimushuManjuKunajiriKanjuHachijoKasadoEtorofu*UkuruOki*UkuruTsushima*OkinawaFukue*AmamiAmakusa*Aguni

Dimensions

Displacement: 900 tons (stand.). Length: 255' 0'' (oa); 245' 0'' (pp). Beam: 30' 0''. Draft: 9' 0'' (mean); ...' ...'' (max.).

Armament

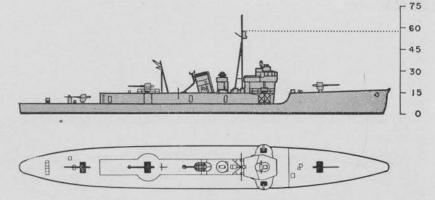
No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
3	$4.7^{\prime\prime}/50$		45°	17, 900	* * * * * *	45
			12.2.2.2.2	111111	1.0.0.0.0.0	

4 25 mm;

__ Mines, fitted for; Depth Charges: Yes.

Propulsion

	Speed (knots)	Endurance (miles)	IIP	RPM
Designed:	19.7		4, 500	
Full:				
Max. Sust.:		********	Sec. 1	
Cruising:				
Economical:			144444	
Drive: Diesel; S	crews: 2.			
Fuel:; C	apacity:	tons (r	nax.).	



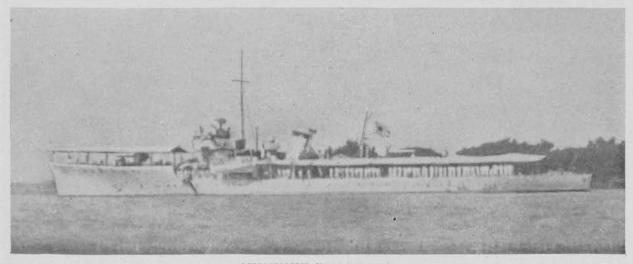
Notes

*Now listed under UKURU Class with following new units: SHINNAN, INAGI, HABUSHI, OJIKA, UKU, KUGA.

Formerly rated as minelayers.

Remarks

First reported as minelayers and subsequently classified as "frigates," these vessels are more on the order of small gunboats. They appear to be somewhat smaller, one-stack derivatives of the Chinese gunboat YAT SEN, a vessel designed for both river and coastal service. Like their Chinese prototype, they have a comparatively low freeboard and a rather wide beam for their length, which should make them more stable gun platforms in smooth water than either the WAKATAKE Class of old second-class destroyers or the CHIDORI-OTORI Classes of torpedoboats, all of which mount about the same main battery. These vessels have been employed on oceanic escort duties and may have been re-armed to meet the growing air threat.



SHIMUSHU Class (pre-war).

ONI 222-J

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107

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PF—Frigates

MIKURA Class

Class built between 1942 and 1944 Complement—149

MIKURA	YASHIRO	Снікиви
MIYAKE	CHIBURI	IKUNA
Nom	SHONAN	SHISAKA
KURABASHI	DAITO	SAKITO

Dimensions

Displacement: 1,500 tons (stand.) Length: 275' 0'' (oa). Beam: 35' 0''. Draft: ..' ..'' (mean); ..' ..'' (max.).

Armament

No.	Cal.	Mark	Elev.	(yds.)	(ft.)	(lbs.)
*4	4.7''/45	1. A. A. A.			. dere	
**2 40	mm AA (in twin	moun	t);		
	Mines		.; De	pth Char	ges:	•

Propulsion

Speed (knots)	Endurance (miles)	$_{HP}$	RPM
16.0			******
Capacity:	tor	ns (max.).	
	16. 0 Screws: 2	16. 0 	16.0

Notes

*Disposed in 2 twin mounts, 1 forward and 1 aft. Forward mount fitted with shield, after mount open.

**Six AAMG of unknown caliber are mounted forward of bridge.

***Speed may be around 20 knots.

Remarks

These vessels bear a strong resemblance to the Japanesebuilt Siamese gunboats TAHCHIN and MAEKLONG, delivered in 1937. Salient external differences include a larger bridge, the mounting of the main battery (in twin instead of superfiring single mounts), and the shape of the stern. As two further units were at one time reported building in Japan for Siam, it is possible that these units might have been appropriated by Japan and included in this class. Their freeboard and beam should endow these vessels with good seagoing qualities, while their estimated characteristics place them in the same category with the best escort types evolved by the United States and British Navies.



MIKURA Class, Rabaul-November 2, 1943. Note heavy mainmast and boom; low, squat bridge.

ONI 222-J

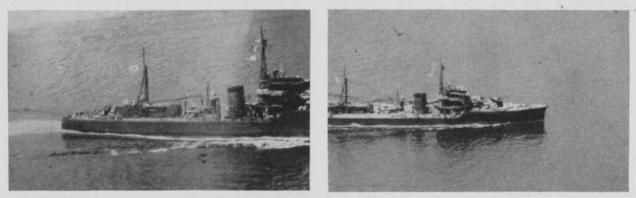
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109



MIKURA Class, Haha Jima-1944.



MIKURA Class, Rabaul-November 2, 1943. Note twin shield mount forward, open twin mount aft.

1120

PF—Frigates

KAIBOKAN No. 1 Class

```
Built-1944-45
Complement-131
```

KAIBOKAN NOS. 1	35
3	37
9	39
13	41
17	43
19	45
23	47
25	49
27	51
29	53
31	

Dimensions

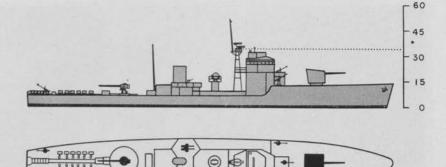
Displacement: 800 tons (stand.) Length: 220' 0'' (oa). Beam: 28' 0". Draft: 11' 0".

Armament

No.	Cal.	Mark	Elev.	Range (yds.)	Ceil. (ft.)	Proj. (lbs.)
2	4.7''				221.772	

12 Depth Charge Throwers; Number of Depth Charges: 300.

Propulsion	Speed (knots)	Endurance (miles)	HP	RPM
Designed:	14.0 (est.)			
Full:	24.0 (est.)			
Max. Sust .:				
Cruising:				
Economical:				
Drive: Diesel;				
Fuel:	.; Capacity:			



Notes

222222

Units of this class are designated by odd numbers. Fitted with radar, RSR, and sonar equipment. Hydraulic steering with single-balanced rudder. This class was formerly called PF-UN-2 Class. DE-UN-1, with an over-all length of 260' is believed to be a variation of this design.

Remarks

The three classes, KAIBOKAN No. 1, DE-UN-1, and KAIBOKAN No. 2, appear to be the closest Japanese approach to the mass-produced American destroyer-escort (DE) and frigate (PF). Judging by the position of the stacks in these three classes, the KAIBOKAN No. 2 appears to be steam driven, while the other two classes are undoubtedly fitted with internal combustion engines. It is impossible to determine in what precise order these designs were evolved. It is possible that the KAIBOKAN No. 2 design, being steam driven, may have been the first to be built. The DE-UN-1 design is conceivably a conversion to Diesel propulsion of the KAIBOKAN No. 2.

KAIBOKAN No. 1 Class, designed for internal combustion engines, is the smallest of the three classes. This reduction in length could have been effected to facilitate rapid production. A Diesel plant requires considerably less space and would be readily adaptable to the smaller design.



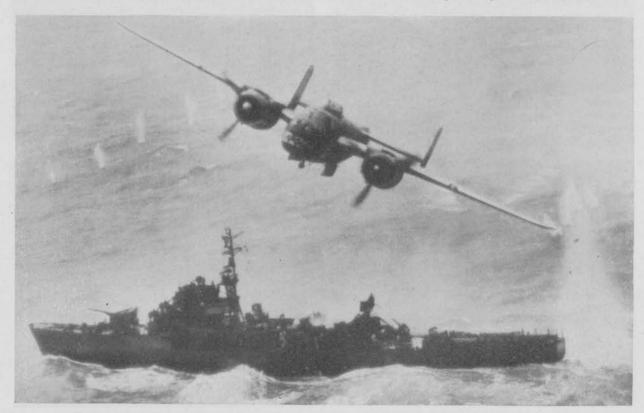
KAIBOKAN No. 1 Class, French Indo-China coast-January 12, 1945.

Division of Naval Intelligence Issued June 1945





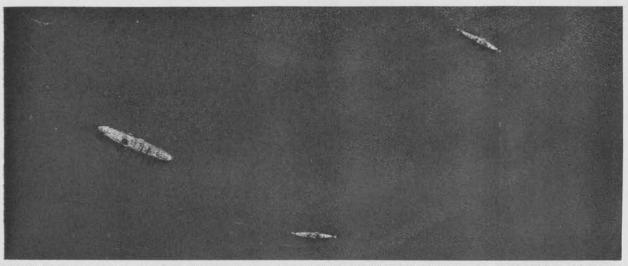
Note twelve depth charge throwers on stern.



KAIBOKAN No. 1 Class under attack in China Sea-April 6, 1945. Stack has been blown off.



KAIBOKAN No. 1 Class, Matlan Bay-January 1945.



KAIBOKAN No. 1 Class in Hong Kong—January 16, 1945; KAIBOKAN No. 2 Class in upper right hand corner AO KAMOI left center. NOTES

DE—Destroyer Escorts

DE-UN-1 Class

Length: 260' 0'' (oa). Beam: 29' 0''. Draft:

Cal.

6 25 mm in triple mounts.7 13 mm in single mounts.

4 Depth Charge throwers.

No. of Depth Charges (?).

Dimensions

Armament

No.

2

Built-1943-44 Complement-

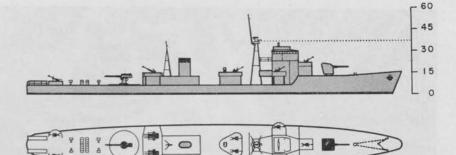
Displacement: 900 tons (stand.).

Mark

4.7''/50

Elev.

Range (yds.) Ceil. (ft.)



Notes

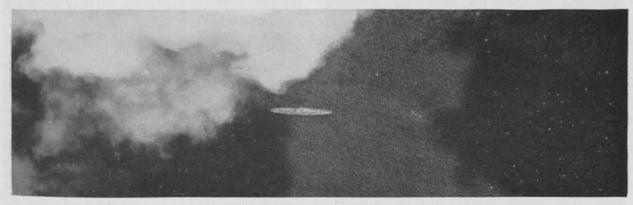
May be fitted for minelaying.

Remarks

Proj. (lbs.) The preceding notes on KAIBOKAN No. 1 Class describe the design relationship of this class to the "Sea Defense Vessels." DE-UN-1 appears to be purely an expanded KAIBOKAN No. 1 design, with approximately the same armament. One striking difference is the lack of the new depth charge equipment on the stern. This class carries the old depth charge gear, consisting of two racks and four depth charge throwers.



DE-UN-1. Note wide space between bridge and stack.

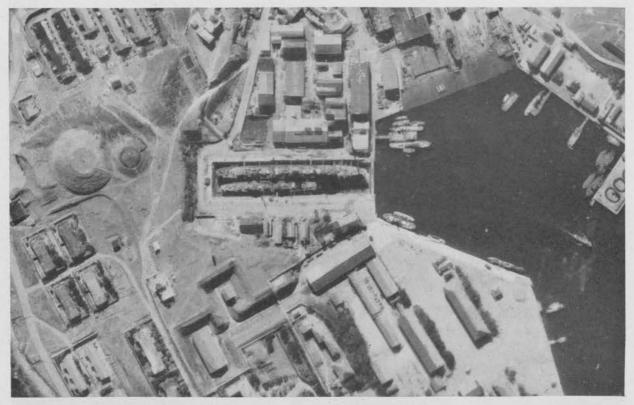


DE-UN-1, Tanapag Harbor-May 29, 1944.

ONI 222-J

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DE-UN-1 in drydock with unit of DD FUBUKI Class, HIBIKI Group, Pescadores-October 12, 1944.

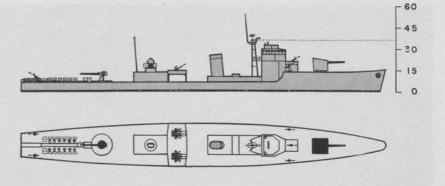
SALAR CALLER CONTRACT

PF—Frigates

KAIBOKAN No. 2 Class

Built—1 Complen			
AIBOKAN NOS.	2	26	46
	4	30	48
	6	32	50
	8	34	52
	12	36	
	14	38	54
	16	40	56
	18	42	112
	22	44	130

· 4 '	class	
5		
41		
26	46	
30	48	
32	50	
34	52	
36		
38	54	
40	56	
42	112	
44	130	



Dimensions

Displacement: 1,000 tons (stand.). Length: 260' 0'' (oa). Beam: 31' 0". Draft:

Armament

Ceil. (ft.) Proj. (lbs.) Range No. Cal. Mark Elev. (yds.) 4.7" 2 6 25 mm in triple mounts 5 13 mm in single mounts; 12 Depth charge throwers; Number of Depth charges carried: 300.

Propulsion

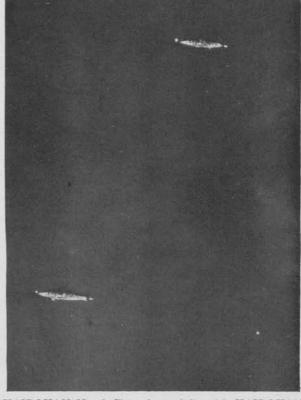
Maximum Speed: 24 knots (est.). Steam driven.

Notes

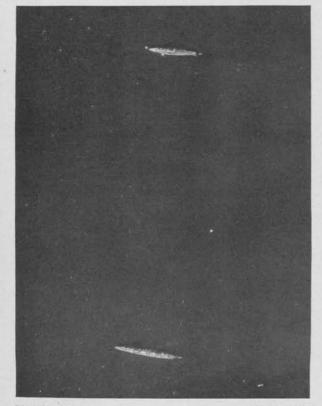
Units of this class are designated by even numbers. This class was formerly called PF-UN-1 Class.

Remarks

This class is the "stack forward" version of the KAI-BOKANS. It is estimated that these are 40 feet longer than KAIBOKAN No. 1 Class, but mount the same armament, and are steam driven.



No. 1 Class, Hong Kong-January 16, 1945.



KAIBOKAN No. 2 Class at top with unit of DD MATSU KAIBOKAN No. 2 Class, lower left, with KAIBOKAN Class, Hong Kong-January 16, 1945.

ONI 222-J

Division of Naval Intelligence **Issued June 1945**



KAIBOKAN No. 2 Class, Chichi Jima—August 4, 1944.

WAR LOSS SECTION

WAR LOSS SECTION

Note: Where entire class or single ship is indicated as sunk, drawings and statistics, if available will be found in the Graphic and Statistical Reference to War Loss Section, page XXII.

(A) PRINCIPAL COM-BATANT TYPES

BATTLESHIPS

KONGO Class BB 1—Kongo BB 2—Hiyei BB 3—Kirishima

FUSO Class BB 5—Fuso BB 6—Yamashiro

NAGATO Class BB 10-Mutsu

YAMATO Class bb 11---Yamato bb 12--Musashi

AIRCRAFT CARRIERS

• CV 1-AKAGI, EX CC

• CV 2—KAGA, EX BB

.

SORYU Class cv 4—Soryu cv 5—Hiryu

SHOKAKU Class cv 6—Shokaku cv 7—Zuikaku

HAYATAKA (JUNYO) Class cv 9—Hitaka (Hiyo) ex Izumo Maru • cv 10—Taiho

UNRYU Class cv-Unryu • cv-Shinano

AIRCRAFT CARRIERS (Small)

ZUIHO Class cvl 2—Zuiho, ex as, ao Takasaki cvl 3—Shoho, ex as, ao Tsurugisaki

CHITOSE Class cvl 6—Chitose, ex cvs-3 cvl 7—Chiyoda, ex cvs-4

•Denotes single ship, not unit of class.

ONI 222–J

AIRCRAFT CARRIERS (Escort)

OTAKA (TAIYO) Class cve 1-Otaka (Taiyo), ex Kasuga Maru cve 2--Unyo, ex Yawata Maru cve 3--Chuyo, ex Nitta Maru • cve 5--Jinyo, ex Scharnhorst

SEAPLANE CARRIERS

MIZUHO Class cvs 5-Mizuho cvs 6-Nisshin • cvs 7-Akitsushima

HEAVY CRUISERS

FURUTAKA Class ca 1—Furutaka ca 2---Kako

AOBA Class ca 4—Kinugasa

NACHI Class CA 5-NACHI

АТАGO Class са 9—Атадо са 11—Снокат са 12—Мауа

MOGAMI Class ca 13—Mogami ca 14—Mikuma ca 15—Suzuya

TONE Class ca 18—Chikuma

CA 16-KUMANO

LIGHT CRUISERS

TENRYU Class cl 1—Tenryu

CL 1—TENRYU CL 2—TATSUTA

KUMA-NATORI Class CL 3—KUMA CL 4—TAMA CL 5—KITAGAMI CL 6—KISO

KUMA-NATORI Class (Cont.)

- CL 7--OI CL 8-- NATORI CL 9-- NAGARA CL 10--- KINU CL 11--- YURA CL 12--- ISUZU CL 13--- ABUKUMA
- CL 14-YUBARI

SENDAI Class

CL 15-SENDAI CL 16-JINTSU CL 17-NAKA

AGANO Class

CL 21—AGANO CL 23—NOSHIRO One additional unit sunk April 1945.

DESTROYERS

MINEKAZE Class

dd 1---Minekaze
dd 2---Okikaze
dd 3---Shimakaze (Removed from list)
dd 5---Hakaze
dd 7---Akikaze
dd 9---Hokaze
dd 11---Tachikaze
dd 13---Namikaze
dd 14---Numakaze

KAMIKAZE Class

dd 17—Asakaze dd 19—Matsukaze dd 20—Asanagi dd 22—Oite dd 23—Hayate dd 24—Yunagi

MUTSUKI Class

DD 25—MUTSUKI DD 26—SATSUKI DD 27—KISARAGI DD 28—YAYOI DD 29—UZUKI DD 30—FUMITSUKI DD 31—KIKUTSUKI DD 32—MINATSUKI DD 33—NAGATSUKI DD 34—MIKATSUKI DD 35—MOCHITSUKI DD 36—YUZUKI

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WAR LOSS SECTION

DESTROYERS (Cont.)

FUBUKI Class

DD	37—Γυвυκι
DD	38-Shinonome
DD	39—Shirayuki
DD	40—Usugumo
DD	41
DD	42—Isonami
DD	43-Hatsuyuki
DD	44-Murakumo
DD	45—Amagiri
DD	46-Shikinami
DD	47—Ауанамі
DD	48—Asagiri
DD	49—Uranami
DD	50-YUGIRI
DD	51—Sagiri
DD	53—Ового
DD	54—Акевоно
DD	55—Sazanami
DD	57—-Ikazuchi
DD	58—Inazuma
ÐÐ	59—Akatsuki

HATSUHARU-SHIGURE Class

DD	62-Nenohi
DD	63— Шакава
DD	64-ARIAKE
DD	65-Yugure
DD	67-SHIRATSUYU
DD	68-Murasame
DD	69—Yudachi
DD	70-HARUSAME
DD	71-SAMIDARE
DD	72-YAMAKAZE
DD	73-SUZUKAZE
DD	74—Kawakaze
DD	75—Umikaze

ASASHIO-KAGERO Class

76-Asashio
77-Arashio
78—Озню
79—Місніяніо
80—Asagumo
81-Yamagumo
82-Minegumo
83-Natsugumo
85—Arare
86-KAGERO
88Kuroshio
89—Oyashio
90—Hatsukaze
91—Natsushio
93—Hayashio
94—Isokaze
96Tokitsukaze
97

ASASHIRO-KAGEO Class

	Con)
DD	98-ARASHI
DD	99—HAGIKAZE
DD	100—Nowaki
DD	102—TANIKAZE
DD	103—MAIKAZE
DD	104-Уидимо
DD	105—Akigumo
DD	106-Макідимо
DD	107—Kazegumo
i	
ТЕ	RUTSUKI Class
DD	108-Terutsuki
DD	109—Akitsuki
DD	110-Suzutsuki
DD	111-Shimotsuki
	110 TT

dd 112—Hatsutsuki dd 113—Wakatsuki dd 114—Niitsuki dd 115—Fuyutsuki

TAKANAMI Class

DD	116Такапамі
DD	117—Макінамі
DD	118—Naganami
DD	119-Suzunami
DD	1 20 —Onami
DD	121—Fujinami
DD	122—Кічонамі
DD	123—Таманамі
DD	124—Начанамі
DD	125—Наманамі
DD	126Окінамі
DD	127—Kishinami
*DD-	–Kiyoshimo
*DD-	-Akishimo
*DD-	-Hayashimo

ESCORT DESTROYERS

MATSU Class
ddMatsu
ddKuwa
MOMO Class
**одр 1—Момо
**ODD 2-HINOKI
**odd 3-Yanagi
KURI-WAKATAKE Class
KURI-WAKATAKE Class **odd 4—Nashi
**odd 4-Nashi
**odd 4-Nashi **odd 5-Take
**0DD 4-NASHI **0DD 5-TAKE **0DD 6-KAYA
**орд 4— Nashi **орд 5—Таке **орд 6—Кауа **орд 8—Nire
**0DD 4NASHI **0DD 5

KURI-WAKATAKE Class (Cont.)

**0DD	15—-Fuл	

- **0dd 16-Ashi **0dd 17-Tsuta
- **odd 19—Hishi
- **ODD 20-TADE
- **ODD 21-YOMOGI
- ODD 23-WAKATAKE
- ODD 24-KURETAKE
- odd 25—Sanaye
- odd 27—Fuyo
- ODD 28-KARUKAYA
- **odd 29-Yugao

TORPEDO BOATS

CHIDORI Class

TB 2-MANAZURU

OTORI Class

- TB 5--Otori TB 7--Hiyodori **TB 8--Kasasagi TB 9--Hato
 - TB 10-SAGI

SUBMARINE CRUISERS (SS)

I–1 Class I–1 . I–2 .	1–3 1–4
I–5 Class 1–7	
I–9 Class	
1-9	1-11
I-15 Class I-15 I-16 I-17 I-18 I-19 I-20 I-21 I-22 I-23 I-24 I-25	1–28 1–30 1–31 1–33 1–34 1–35 1–39 1–40 1–42 1–43

FLEET SUBMARINES (SS)

• I-151

*Variation in main armament differentiates these units from TAKANAMI Class.

**Stricken from list.

• I-152

WAR LOSS SECTION

FLEET SUBMARINES (SS) (Continued.)

I–153 Class I–160	
I-161 Class	
1 —164	
I-165 Class	
I–166	1–16 7
I-168 Class	
ı–168	1–172
1–170	ı–173
1–171	
I–176 Class	
1–176	1–182
1–178	1–18 3
1–181	

SUBMARINES, Coastal Type

(under 1,000 tons) (OSS)

RO-26 Class **RO 26 **RO 27 **RO 28

RO-51 Class **R0 51 **R0 54 **R0 52 **R0 55 **R0 53 **R0 56

RO-60 Class RO 60 RO 61

RO 65

RO 66

RO 39

RO 44

ro 106

RO 107

RO 108

ro 110

RO 116

RO-33 Class RO 33 RO 34

RO-35 Class RO 35 RO 37 RO 38

RO-100 Class

ro 100	
ro 101	
ro 102	
ro 103	
ro 104	
ro 105	

**Scrapped.

SUBMARINE MINE-LAYERS

RO-29 Class **Ro 29 **Ro 30 **Ro 31 **Ro 32 I-121 Class I-123 I-124

(B) MINOR COMBAT-ANT TYPES

FRIGATES (PF)

SHIMUSHU Class Ishigaki Matsuwa Sado Mutsure

Mutsure Wakamiya Iki Hirado

MIKURA Class Awaji Kusakaki Hiburi

KAIBOKAN NO. 1 Class The number of units of this class sunk is undetermined.

KAIBOKAN NO. 2 Class The number of units of this class sunk is undetermined.

TRAINING CRUISERS

KATORI Class CL(T) 1-Katori CL(T) 3-Kashii

AUXILIARY CRUISERS

xcl 1—Noshiro Maru
 KIYOSUMI MARU Class
 xcl 2—Kiyosumi Maru
 xcl 3—Kongo Maru
 xcl 4—Ukishima Maru

•Denotes single ship, not unit of class.

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BANGKOK MARU Class xcl 5—Bangkok Maru xcl 6—Saigon Maru

AKAGI MARU Class xcl 7—Akagi Maru xcl 8—Asaka Maru xcl 9—Awata Maru

AIKOKU MARU Class xcl 10—Aikoku Maru xcl 11—Gokoku Maru xcl 12—Hokoku Maru

• XCL 13—KINRYU MARU

MINELAYERS (Large)

- см 3—Shiratakå
- CM 4-ITSUKUSHIMA
- см 5-Улечама
- CM 6-OKINOSHIMA

HATSUTAKA Class CM 8—AOTAKA

• CM 10-TSUGARU

CONVERTED MINE-LAYERS

• XCM 1-TENYO MARU

• XCM 7-TAKACHIHO MARU

MINESWEEPERS (Fleet Sweepers)

NO.1 Class AM No. 6

NO. 13 Class AM No. 16 AM No. 18

NO. 7 Class ам No. 7 ам No. 9 ам No. 10

NO. 19 Class ам No. 25 ам No. 26 ам No. 28

GUNBOATS

Issued June 1945

HASHIDATE Class pg 6-Hashidate

ONI 222–J

WAR LOSS SECTION

SUBMARINE CHASERS (Large)

PC-1 Class PC 11

PC-13 Class	
рс 13	PC 38
рс 16	рс 39
PC 22	PC 40
рс 24	рс 45
рс 25	PC 48
рс 27	PC 53
рс 29	рс 54
PC 32	PC 55
PC 34	рс 116

SUBMARINE CHASERS (Small)

SCS_1 Class

SUS-1 UI	455	
scs 1	SCS	33
scs 2	SCS	35
scs 10	SCS	38
scs 14	SCS	39
scs 15	SCS	40
scs 18	SCS	46
scs 19	SCS	47
scs 21	SCS	49
scs 22	SCS	53
scs 23	SCS	54
scs 25	SCS	56
scs 26	SCS	62
scs 28	SCS	95
scs 30	SCS	1 18
scs 31	SCS	165
SCS_251	Class	

SCS-251 Class scs 252 scs 253

MOTOR TORPEDO BOATS

PT-1 Class PT 1

- рт 2 рт 3 рт 5
- рт б

RIVER GUNBOATS

• pr-12 Karatsu (ex USS Luzon)

• Denotes single ship, not unit of class.

(C) AUXILIARY TYPES

CONVERTED SEA-PLANE TENDERS

KAMIKAWA MARU Class

- xav 1—Kamikawa Maru xav 4—Kiyokawa Maru
- XAV 5-SANYO MARU
- XAV 6-YASUKAWA MARU

SANUKI MARU Class xav 9----Sagara Maru

AIRCRAFT TRANS-PORTS

• XAPV 1-GOSHU MARU

FUJIKAWA MARU Class xapy 2—Fujikawa Maru xapy 3—Mogamigawa Maru

KAMOGAWA MARU Class xapy 5—Keiyo Maru

- XAPV 6—LYONS MARU • XAPV 6—LYONS MARU • XAPV 7—KATSURAGI MARU • XAPV 8—NAGOYA MARU
- XAPV 8-NAGOYA MARU • XAPV 9-NARUTO MARU
- XAPV 10-TAKASAKI MARU

SUBMARINE TENDERS

JINGEI Class As 2—JINGEI

CONVERTED SUB-MARINE TENDERS

• XAS 2-YASUKUNI MARU

HIE MARU Class

- XAS 3-HIE MARU
- XAS 4-HEIAN MARU
- XAS 5-RIO DE JANEIRO MARU
- XAS 6—ARATAMA MARU
- XAS 7-URAKAMI MARU
- XAS 9-SOYO MARU

REPAIR SHIPS

• AR 1—ASAHI, EX OBB • AR 2—AKASHI

SALVAGE VESSELS

• ARS 5-NAGAURA

CONVERTED SALVAGE VESSELS

- XARS 2—KASAGI MARU
- XARS 3—YAMABIKO MARU
- xars 4—Hakkai Maru
- xars 7—Yushio

FUEL OIL TANKERS

SHIRETOKO Class ao 3—Erimo ao 4—Sata ao 5—Tsurumi ao 6—Shiriya ao 7—Iro

ONDO Class Ao 10-Naruto

KINESAKI Class Ao—Ashizuri Ao—Ose

KAZAHAYA Class ao—Hayasui ao—Kazahaya

• ло-Внюта

PROVISION STORESHIPS

• af 1—Mamiya • af 3—Irako

MUROTO Class

LANDING CRAFT CARRIERS

- LSV 1-RYUJO (SINSYU MARU)
- LSV 2-AKITSU MARU

SURVEYING SHIPS

- AGS 3-TSUKUSHI
- AGS 4-SOYA
- AGS----ASTROLABE (French)

PATROL VESSELS

PATROL BOAT NO. 1 Class PATROL BOAT NO. 7

PATROL BOAT NO. 31 Class PATROL BOAT NO. 31 PATROL BOAT NO. 39

- PATROL BOAT NO. 101

XX

TRANSPORTS-APD

The number of units of this class which have been sunk is undetermined.

AUXILIARY TRANS-PORTS--LSM

The number of units of this class which have been sunk is undetermined.

ATTACK TRANSPORTS— APA

Takatsu Maru Mayasan Maru

(D) DISTRICT CRAFT

COASTAL MINELAYERS, called "SPECIAL MINELAY-ERS" by the Japanese

•Denotes single ship, not unit of class.

CMc NO. 1 Class CMc No. 1 CMc No. 2 CMc No. 4

SMALL MINELAYERS

(Japanese designation)

TSUBAME Class CMc 13—Kamome

NATSUSHIMA Class

CMc 14—Natsushima CMc 15—Nasami CMc 16—Sarushima

SOKUTEN Class

CMc 17—Sokuten CMc 18—Shirakami CMc 21—Ukishima CMc 25—Moroshima CMc 26—Hirashima CMc 30—Boko

WAR LOSS SECTION

COASTAL MINE-SWEEPERS

called "SPECIAL MINE-SWEEPERS" by the Japanese

AMc NO. 1 Class AMc No. 1 AMc No. 2

(F) AVAILABLE NON-JAPANESE WARSHIPS

PRINCIPAL COMBAT-ANT TYPES

LIGHT CRUISERS

• CL LAMOTTE-PICQUET, EX FRENCH DUGUAY-TROUIN Class.

ONI 222-J

STATISTICAL AND GRAPHIC REFERENCE TO WAR LOSS SECTION

Note: For complete list of war losses see "War Loss Section," Page XVII

BB-FUSO Class

Displacement: 30,000 tons (stand.). Length: 673' 0'' (oa). Beam: 94' 0'' (hull without bulges). Main Battery: 12 14''/45.

cv—SHOKAKU Class

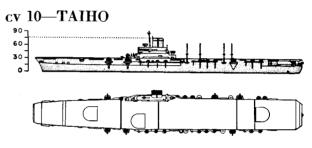


Displacement: 29,800 tons (stand.).

Length: 826' 0'' (oa).

Beam: 93' 0'' (hull) Flight deck width: 100' 0''.

Main Battery: 16 5"/40 (twin mounts) D. P.



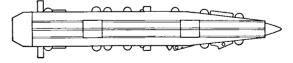
Displacement: 35,000 tons (stand.) (estimated).

Length: 860' 0'' (oa).

Flight deck width: 100' 0".

Main Armament: 12 $5^{\prime\prime}/40$ (in twin mounts) D. P.

CVL-CHITOSE Class

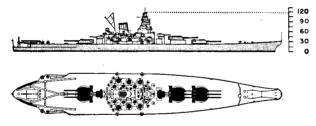


Displacement: 12,000 tons (stand.). Length: 628' 0'' (oa).

Beam: 80' 0'' (flight deck).

Main Armament: 6 5''/40 (before conversion)

BB—YAMATO Class



Displacement: 45,000 tons (stand.). Length: 870' 0'' (oa). Beam: 125' 0''. Main Battery: 9 16''.

cv 3—RYUJO

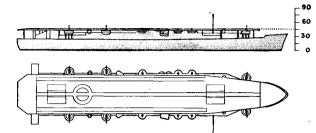
Displacement: 7,100 tons (stand.).

Length: 553' 8'' (oa).

Beam: 60' 8''.

Main Battery: 10 5" AA (twin mounts).

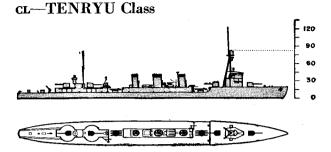
CVE-OTAKA (TAIYO) Class



Displacement: 20,000 tons (stand.). Length: 590' 0'' (oa); 559' 0'' (pp). Beam: 74' 0'' (hull); Flight deck width: 82' 0''. Main Armament: 65''/40.

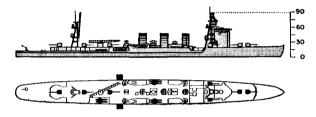
cvs-MIZUHO Class

Displacement: 9,000 tons (stand). Length: 597' 6'' (oa). Beam: 61' 8''. Main Armament: 4 5''/50 AA (twin mounts).

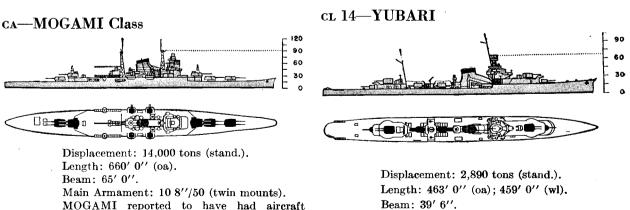


Displacement: 3,230 tons (stand.). Length: 468' 0'' (oa). Beam: 40' 9''. Main Armament: 4 5.5''/50.





Displacement: 5,170 tons (stand.). Length: 535' 0'' (oa); 529' 0'' (wl). Beam: 47' 3'' (hull). Main Armament: 7 5.5''/50.



Main Armament: 6 5.5"/50.

ONI 222–J

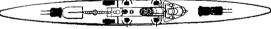
Division of Naval Intelligence

Issued June 1945

XXIII

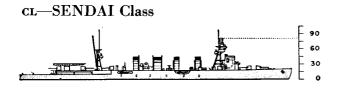
ca—FURUTAKA Class





Displacement: 9,000 tons (stand.). Length: 595' 0'' (oa). Beam: 50' 9''. Main Battery: 6 8''/50 (twin mounts).

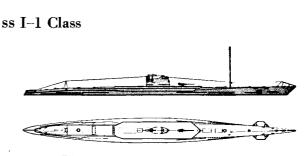
stowage deck fitted abaft mainmast.



Displacement: 5,195 tons (stand.).

0125

Length: 535' 0'' (oa); 529' 0'' (wl). Beam: 47' 3''. Main Armament: 7 5.5''/50.



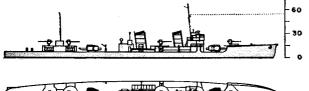
Displacement: 1,955 tons (stand.) 2,480 tons (submgd.)

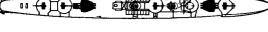
Length: 320' 0'' (oa).

Beam: 29' 7'' (max.).

Main Armament: 1 5"/50.

DD—MUTSUKI Class





Displacement: 1,315 tons (stand.). Length: 336' 6'' (oa); 320' 0'' (pp). Beam: 30' 0''. Main Armament: 4 4.7''/50.



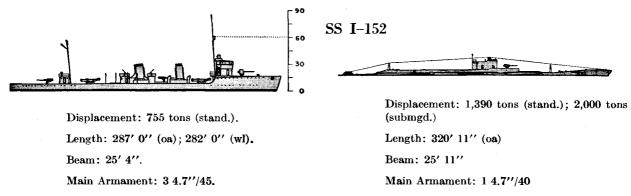
Displacement: 1,390 tons (stand.); 2,000 tons (submgd.)

Length: 300' 0'' (oa)

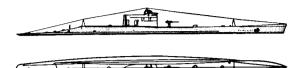
Beam: 28' 11"

Main Armament: 1 4.7"/40

ODD—MOMO Class



OSS RO-26 Class SM RO-29 Class



Displacement: 655-746 tons (stand.); 1,000 tons (submgd.)

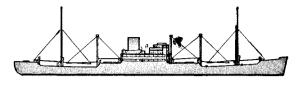
Length: 243' 7'' (oa)

Beam: 20' 9"

Main Armament: 1 4.7"/40

All units of these two classes have been scrapped.

XCL 1-NOSHIRO MARU

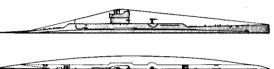




Tonnage: 7,189 tons (gross) Length: 470' 0'' (oa); 450' 0'' (pp) Beam: 62' 3'' Main Armament: 2 5.5''/50

XCL-KIYOSUMI MARU Class

OSS RO-51 Class



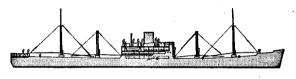
Displacement: 893 tons (stand.); 1,082 tons (submgd.)

Length: 232' 0'' (oa)

Beam: 23' 6''

Main Armament: 1 3"/40

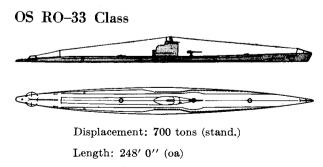
All units of this class have been scrapped.





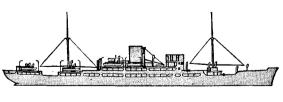
Tonnage: 8,613 tons (gross) Length: 477' 0'' (oa); 453' 0'' (pp) Beam: 61' 0'' Main Armament: 2 5.5''/50 (provisional)

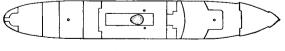
XCL 4-UKISHIMA MARU



Beam: 22' 0"

Main Armament: 1 3"/40





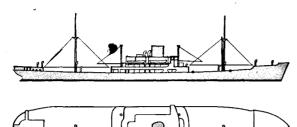
Tonnage: 4,730 tons (gross) Length: 355' 8'' (pp) Beam: 51' 6''

ONI 222-J

Division of Naval Intelligence

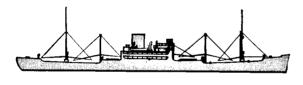
Issued June 1945

XCL-BANGKOK MARU Class



Tonnage: 5,350 tons (gross) Length: 376' 3'' (oa); 363' 4'' (pp) Beam: 55' 10''

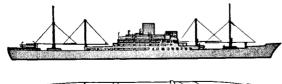
XCL-AKAGI MARU Class

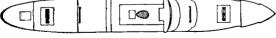




Tonnage: 7,398 tons (gross) Length: 482' 4" (oa); 462' 7" (pp) Beam: 62' 4" Main Armament: 2 5.5"/50

XCL-AIKOKU MARU CLASS





Tonnage: 10,500 tons (gross) Length: 527' 0'' (oa); 498' 0'' (pp) Beam: 66' 4'' Main Armament: 2 5.5''/50

CM 3—SHIRATAKA



Displacement: 1,345 tons (stand.) Length: 259' 10'' (pp) Beam: 37' 9'' Main Armament: 3 4.7''/50

CM 4-ITSUKUSHIMA

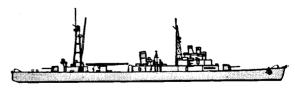
Displacement: 1,970 tons (stand.) Length: 339' 0'' (oa); 329' 0'' (wl) Beam: 42' 0'' Main Armament: 3 5.5''/50

СМ 5-YAEYAMA



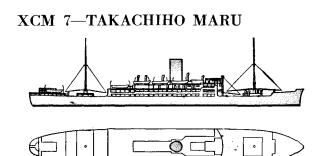
Displacement: 1,135 tons (stand.) Length: 280' 6'' (wl) Beam: 34' 8'' Main Armament: 2 4.7''/50

CM 6-OKINOSHIMA



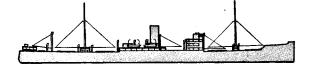


Displacement: 4,400 tons Length: 405' 0'' (oa); 386' 6'' (wl) Beam: 51' 6'' Main Armament: 4 5.5''/50



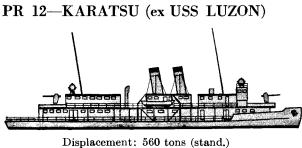
Tonnage: 8,154 tons (gross) Length: 473' 0'' (oa); 453' 0'' (pp) Beam: 59' 0''

XAV 6-YASUKAWA MARU



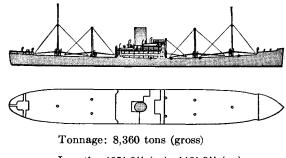


Tonnage: 6,710 tons (gross) Length: 455' 0'' (pp) Beam: 62' 0'' Main Armament: 2 5''/40



Length: 210' 9'' (oa); 198' 0'' (wl) Beam: 31' 1'' Main Armament: 2 3''/50

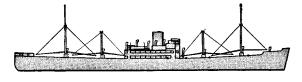
XAV 5-SANYO MARU

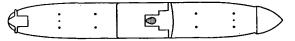


Length: 465' 0'' (oa); 446' 0'' (pp) Beam: 61' 0''

Main Armament: 2 5''/40

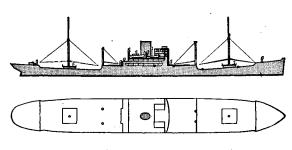
XAPV 1-GOSHU MARU





Tonnage: 8,592 tons (gross) Length: 460' 0'' (oa); 443' 0'' (pp) Beam: 60' 0''

XAPV--FUJIKAWA MARU Class



Tonnage: 6,938 tons (gross) Length: 436' 0'' (pp) Beam: 59' 0''

ONI 222-J

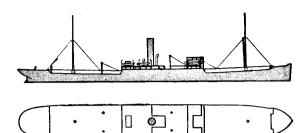
Division of Naval Intelligence

Issued June 1945

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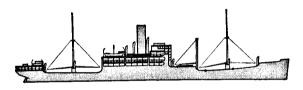
XXVII

XAPV 6-LYONS MARU



Tonnage: 7,018 tons (gross) Length: 462' 0'' (oa); 445' 0'' (pp) Beam: 58' 0''

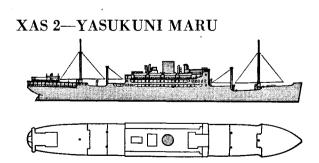
XAPV 8-NAGOYA MARU



Tonnage: 6,072 tons (gross) Length: 406' 8'' (pp) Beam: 55' 6''

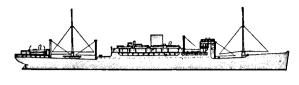
XAPV 10-TALASAKI MARU

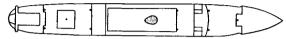
Tonnage: 7,000 tons (gross)



Tonnage: 11,933 tons (gross) Length: 531' 0'' (oa); 507' 0'' (pp) Beam: 64' 0''

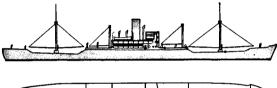
XAS-HIE MARU Class

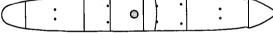




Tonnage: 11,600 tons (gross) Length: 535' 0'' (oa); 512' 0'' (pp) Beam: 66' 0''

XAS 6-ARATAMA MARU



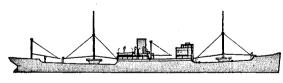


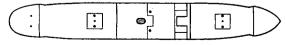
Tonnage: 6,784 tons (gross) Length: 475' 0'' (oa); 446' 6'' (pp) Beam: 59' 0''

XAS 7-URAKAMI MARU

Tonnage: 4.250 tons (gross) Length: 360' 0'' (pp) Beam: 50' 0''

XAS 9-SOYO MARU





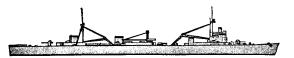
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Tonnage: 6,081 tona (gross) Length: 415' 0'' (pp) Beam: 56' 0'' Main Armament: 2 3''/40

AR 1—ASAHI

Displacement: 11,441 tons (stand.) Length: 425' 3'' (oa); 400'8'' (pp) Beam: 75' 3'' Main Armament: 2 5''/40

AR 2-AKASHI

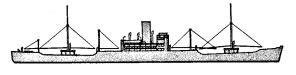


Displacement: 9,000 tons (stand.) Length: 499' 11'' (oa) Beam: 67' 3'' Main Armament: 4 5''/40

XARS 2-KASAGI MARU

Tonnage: 3,140 tons (gross) Length: 325' 0'' (pp) Beam: 46' 0''

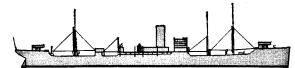
XARS 3—YAMABIKO MARU





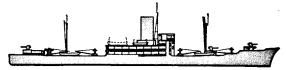
Tonnage: 6,798 tons (gross) Length: 460' 0'' (oa); 442' 0'' (pp) Beam: 59' 0''

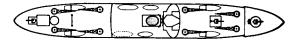
AF 1-MAMIYA



Displacement: 15,820 tons (stand.) Length: 483' 0'' (oa); 475' 0'' (pp) Beam: 61' 0'' Main Armament: 2 5.5''/50

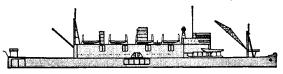
AF 3—IRAKO

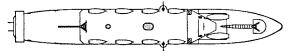




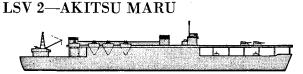
Displacement: 14,000 tons (stand.) Length: 475' 0'' (oa) Beam: 61' 0'' Main Armament: 3 4.7''

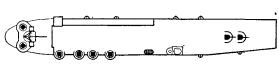
LSV 1—RYUJO (SINSYU MARU)





Displacement: 8,000 tons (stand.) Length: 480' 0'' (oa) Beam: 57' 0''





Displacement: 9,000 tons (stand.) Length: 493' 0'' (oa) Beam: 65' 0'' (flight deck)

ONI 222-J

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XXIX

AGS 4-SOYA

Displacement: 2,000 tons (stand.)

CL-LAMOTTE-PICQUET

Displacement: 7,249 tons (stand.) Length: 594' 10'' (oa) Beam: 57' 5'' Main Armament: 8 6.1''/50

CMc-NATSUSHIMA Class

Displacement: 443 tons (stand.) Length: 225' 2'' (wl) Beam: 24' 6'' Main Armament: 2 3''/40



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