Chikuma

CA JAPAN 1939 to 1943

0980-0 TONE Class

Displacement	11,215 ts	*Length*	650 ft	Mitsubishi, Nagasaki	
Complement	850	*Beam*	61 ft	*Launched*	03/19/1938
Sunk 10/25/1944		*Draft*	21.3 ft	*Completed*	05/20/1939

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

8 x 20cm/50 Type 3 No.2 — 25

Max ROF	Range	Shell Size/Weight
4.0 sh/min	32,380 yds 64.8"	8.0" 277.4 lbs.

Fire Control	FC Radar	
1 1F3	None	+ 0

AP	SAP
COM	HE

AA	3.7	Level	V	Ammunition	120 rpg	960

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	1.7	

8 x 12.7cm/40 Type 89 — 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
2 2G3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	2400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	16	11	13	9	11	7	10	6
10 - 18	12	8	10	6	8	5	7	5
19 - 27	11	7	8	6	7	5	6	4
28 - 36	9	6	7	5	6	4	5	4
37 - 45	9	6	7	4	6	4	5	3

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2950
Engines	Kampon GT		
Boilers	8 Kampon		

Radius (nm/kts)	
9000	18

Search Radar
None
None

ASW MORTARS/ATW		
0		
None		

DEPTH CHARGES			
Rack	0		
Ammo	0		

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	5			Catapult	2	
E7K-1 Alf				1	1	24
129 kts	95 kts					

TORPEDOES

TT	12	Ammo	24

61cm Type 93 M1-2

Damage Class	A
Settings	
22,000/48	
35,000/40	
43,700/36	

MINES

0			

RAPID FIRE BATTERIES

RF1	12	25mm/60 Type 96			
Max Rg	7,440	14.9"		9	7
Eff Rg	3,348	6.7"		13	10

RF						
5	Port	6	5	3	2	1
	Stbd	6	5	3	2	1
AA	Port	24	20	13	8	4
M	Stbd	24	20	13	8	4

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

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Chikuma

TIER	DP
1/70	192
2/80	385
3/75	577
4/85	770
5/80	962
6/90	1135
7/85	1308
8/95	1481
9/90	1655
10	1828
10	1943

DP	1924
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
45	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed Increase	00-06 kt	07-18 kt	19-22 kt	23-26 kt	27-28 kt	29+ kt
	7.0	6.0	4.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3C

ARMOR	0.95	Actual
1H DECK	2.1	2.2
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.8
4V CON	0.0	0.0
5V BELT MID	4.8	5.0
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Chikuma

CA JAPAN 1944 to 1944

0980-1 TONE Class

Displacement	11,215 ts	*Length*	650 ft	Mitsubishi, Nagasaki	
Complement	850	*Beam*	61 ft	*Launched*	03/19/1938
Sunk 10/25/1944		*Draft*	21.3 ft	*Completed*	05/20/1939

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

8 x 20cm/50 Type 3 No.2 — 25

Max ROF	Range	Shell Size/Weight
4.0 sh/min	32,380 yds 64.8"	8.0" 277.4 lbs.

Fire Control	FC Radar	
1 1F3	None	+ 0

AP	SAP
COM	HE

AA	3.7	Level	V	Ammunition	120 rpg	960

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	1.7	

8 x 12.7cm/40 Type 89 — 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
2 2G3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	2400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	16	11	13	9	11	7	10	6
10 - 18	12	8	10	6	8	5	7	5
19 - 27	11	7	8	6	7	5	6	4
28 - 36	9	6	7	5	6	4	5	4
37 - 45	9	6	7	4	6	4	5	3

HE PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2950	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW			DEPTH CHARGES			
Engines	Kampon GT			9000	18	No.22 M4	0			Rack	0		
Boilers	8 Kampon					None	None			Ammo	0		

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	4			Catapult	2	
F1M-2 Pete				2	1	30
200 kts	120 kts			30970 ft		

TORPEDOES

TT	12	Ammo	24

61cm Type 93 M1-2

Damage Class	A

Settings: 22,000/48; 35,000/40; 43,700/36

MINES: 0

RAPID FIRE BATTERIES

RF1	20	25mm/60 Type 96			
Max Rg	7,440	14.9"		9	7
Eff Rg	3,348	6.7"		13	10

RF						
5	Port	10	8	6	3	2
	Stbd	10	8	6	3	2
AA M	Port	41	33	22	13	6
	Stbd	41	33	22	13	6

RF2		None
Max Rg		
Eff Rg		

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None
Max Rg		
Eff Rg		

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

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Chikuma

TIER	DP
1/70	192
2/80	385
3/75	577
4/85	770
5/80	962
6/90	1135
7/85	1308
8/95	1481
9/90	1655
10	1828
10	1943

DP	1924
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
45	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed Increase	00-06 kt	07-18 kt	19-22 kt	23-26 kt	27-28 kt	29+ kt
	7.0	6.0	4.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3C

ARMOR	0.95	Actual
1H DECK	2.1	2.2
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.8
4V CON	0.0	0.0
5V BELT MID	4.8	5.0
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
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																				B2B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Tone

CA JAPAN 1938 to 1943

2720-0 TONE Class

Displacement	11,215 ts	*Length*	650 ft	Mitsubishi, Nagasaki	
Complement	850	*Beam*	61 ft	*Launched*	11/21/1937
Sunk 07/24/1945		*Draft*	21.3 ft	*Completed*	11/20/1938

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

8 x 20cm/50 Type 3 No.2 — 25

Max ROF	Range	Shell Size/Weight
4.0 sh/min	32,380 yds 64.8"	8.0" 277.4 lbs.

Fire Control	FC Radar	
1 1F3	None	+ 0

AP	SAP
COM	HE

AA	3.7	Level	V	Ammunition	120 rpg	960

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	1.7	

8 x 12.7cm/40 Type 89 — 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
2 2G3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	2400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	16	11	13	9	11	7	10	6
10 - 18	12	8	10	6	8	5	7	5
19 - 27	11	7	8	6	7	5	6	4
28 - 36	9	6	7	5	6	4	5	4
37 - 45	9	6	7	4	6	4	5	3

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2950	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW			DEPTH CHARGES		
Engines	Kampon GT			9000	18	None	0			Rack	0	
Boilers	8 Kampon					None	None			Ammo	0	

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	5			Catapult	2	
E7K-1 Alf				1	1	24
129 kts	95 kts					

2 1 4 3

TORPEDOES

TT	12	Ammo	24

61cm Type 93 M1-2

Damage Class	A

Settings: 22,000/48; 35,000/40; 43,700/36

MINES: 0

RAPID FIRE BATTERIES

RF1	12	25mm/60 Type 96			
Max Rg	7,440	14.9"		9	7
Eff Rg	3,348	6.7"		13	10

RF						
5	Port	6	5	3	2	1
	Stbd	6	5	3	2	1
AA M	Port	24	20	13	8	4
	Stbd	24	20	13	8	4

RF2		None	
Max Rg			
Eff Rg			

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None	
Max Rg			
Eff Rg			

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

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Tone

TIER	DP
1/70	192
2/80	385
3/75	577
4/85	770
5/80	962
6/90	1135
7/85	1308
8/95	1481
9/90	1655
10	1828
10	1943

DP	1924
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
45	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed Increase	00-06 kt	07-18 kt	19-22 kt	23-26 kt	27-28 kt	29+ kt
	7.0	6.0	4.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3C

ARMOR	0.95	Actual
1H DECK	2.1	2.2
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.8
4V CON	0.0	0.0
5V BELT MID	4.8	5.0
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
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																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
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																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Tone

CA JAPAN 1944 to 1945

2720-1 TONE Class

Displacement	11,215 ts	*Length*	650 ft	Mitsubishi, Nagasaki	
Complement	850	*Beam*	61 ft	*Launched*	11/21/1937
Sunk 07/24/1945		*Draft*	21.3 ft	*Completed*	11/20/1938

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

8 x 20cm/50 Type 3 No.2 — 25

Max ROF	Range	Shell Size/Weight
4.0 sh/min	32,380 yds 64.8"	8.0" 277.4 lbs.

Fire Control	FC Radar	+ 0
1 1F3	None	

AP	SAP
COM	HE

AA	3.7	Level	V	Ammunition	120 rpg	960

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	1.7	

8 x 12.7cm/40 Type 89 — 13

2 1 4 3

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	+ 0
2 2G3	None	

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	2400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	16	11	13	9	11	7	10	6
10 - 18	12	8	10	6	8	5	7	5
19 - 27	11	7	8	6	7	5	6	4
28 - 36	9	6	7	5	6	4	5	4
37 - 45	9	6	7	4	6	4	5	3

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2950	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW			DEPTH CHARGES			
Engines	Kampon GT			9000	18	No.22 M4	0			Rack	0		
Boilers	8 Kampon					None	None			Ammo	0		

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	4			Catapult	2	
E13A-1 Jake				0 1 31		
203 kts	120 kts			28600 ft		

2 1 4 3

TORPEDOES

TT	12	Ammo	24

61cm Type 93 M1-2

Damage Class	A
Settings	
22,000/48	
35,000/40	
43,700/36	

MINES

0			

RAPID FIRE BATTERIES

RF1	54	25mm/60 Type 96			
Max Rg	7,440	14.9"		9	7
Eff Rg	3,348	6.7"		13	10

RF						
5	Port	27	22	15	9	4
	Stbd	27	22	15	9	4
AA	Port	110	88	60	36	16
M	Stbd	110	88	60	36	16

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

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Tone

TIER	DP
1/70	192
2/80	385
3/75	577
4/85	770
5/80	962
6/90	1135
7/85	1308
8/95	1481
9/90	1655
10	1828
10	1943

DP	1924
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
45	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed Increase	00-06 kt	07-18 kt	19-22 kt	23-26 kt	27-28 kt	29+ kt
	7.0	6.0	4.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3C

ARMOR	0.95	Actual
1H DECK	2.1	2.2
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.8
4V CON	0.0	0.0
5V BELT MID	4.8	5.0
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
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