Chidori

TB JAPAN 1933 to 1936

8180-0 TOMOZURU Class

Displacement	535 ts	*Length*	259 ft	Maizuru Navy Yard	
Complement		*Beam*	24 ft	*Launched*	04/01/1933
Sunk 12/24/1944		*Draft*	8.2 ft	*Completed*	11/20/1933

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12.7cm/50 Type 3 | 13

Max ROF	Range	Shell Size/Weight
10.0 sh/min	19,890 yds 39.8"	5.0" 50.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.5	Level	S	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

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	7.9	6.7	5.6	4.6	3.8	3.2	2.4	1.9	1.5					
Rge	S	S	S	M	M	L	L	E	E					
H	0.1	0.1	0.2	0.3	0.4	0.5	1.0	1.5	1.7					
V	5.4	4.0	2.9	2.1	1.7	1.4	1.2	1.2	1.2					

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

1

2

TORPEDOES

TT	4	Ammo	8

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

RF1	1	40mm/62 HI Shiki			
Max Rg	7,500	15.0"	7	5	
Eff Rg	3,375	6.8"	11	8	

RF						
11	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA	Port	4	3	2	1	1
H	Stbd	4	3	2	1	1

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
0			Rack	0		
None			Ammo	0		

COPYRIGHT © Richard R. Sartore 2009

Chidori

TIER	DP
1/70	42
2/80	84
3/75	126
4/85	168
5/80	210
6/90	248
7/85	286
8/95	323
9/90	361
10	399
10	424

DP	420
KTS	30

Engine Rm	2	30	17	0	0	0	0
Prop/Shaft	2	30	15	0	0	0	0
Boiler Rm	2	30	18	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-18 kt	19-22 kt	23-25 kt	26+ kt	
Increase	11.0	8.0	5.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Chidori

TB JAPAN 1936 to 1942

8180-1 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Maizuru Navy Yard	
Complement		*Beam*	24 ft	*Launched*	04/01/1933
Sunk 12/24/1944		*Draft*	8.2 ft	*Completed*	11/20/1933

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

RF1		None
Max Rg		
Eff Rg		

RF	Port					
0	Stbd					
AA	Port					
	Stbd					

RF2		None
Max Rg		
Eff Rg		

RF	Port					
0	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

Coal (ts)	0	Oil (ts)	150	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW			DEPTH CHARGES			
Engines	Kampon GT			9000	10	None	0			Rack	0		
Boilers	2 Kampon					None	None			Ammo	0		

COPYRIGHT © Richard R. Sartore 2009

Chidori

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445								
KTS	28								

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Chidori

TB JAPAN 1942 to 1944

8180-2 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Maizuru Navy Yard	
Complement		*Beam*	24 ft	*Launched*	04/01/1933
Sunk 12/24/1944		*Draft*	8.2 ft	*Completed*	11/20/1933

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

2 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0			

RAPID FIRE BATTERIES

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

RF						
5	Port	5	4	3	2	1
	Stbd	5	4	3	2	1
AA	Port	20	16	11	7	3
M	Stbd	20	16	11	7	3

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	48		

COPYRIGHT © Richard R. Sartore 2009

Chidori

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445								
KTS	28								

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Hatsukari

TB JAPAN 1934 to 1936

8182-0 TOMOZURU Class

Displacement	535 ts	*Length*	259 ft	Fujinagata, Osaka	
Complement		*Beam*	24 ft	*Launched*	12/19/1933
Scrapped 1946		*Draft*	8.2 ft	*Completed*	07/15/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12.7cm/50 Type 3 | 13

Max ROF	Range	Shell Size/Weight
10.0 sh/min	19,890 yds 39.8"	5.0" 50.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.5	Level	S	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

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	7.9	6.7	5.6	4.6	3.8	3.2	2.4	1.9	1.5					
Rge	S	S	S	M	M	L	L	E	E					
H	0.1	0.1	0.2	0.3	0.4	0.5	1.0	1.5	1.7					
V	5.4	4.0	2.9	2.1	1.7	1.4	1.2	1.2	1.2					

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

1

2

TORPEDOES

TT	4	Ammo	8

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

RF1	1	40mm/62 HI Shiki			
Max Rg	7,500	15.0"	7	5	
Eff Rg	3,375	6.8"	11	8	

RF						
11	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA	Port	4	3	2	1	1
H	Stbd	4	3	2	1	1

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
0			Rack	0		
None			Ammo	0		

COPYRIGHT © Richard R. Sartore 2009

Hatsukari

TIER	DP
1/70	42
2/80	84
3/75	126
4/85	168
5/80	210
6/90	248
7/85	286
8/95	323
9/90	361
10	399
10	424

DP	420
KTS	30

Engine Rm	2	30	17	0	0	0	0
Prop/Shaft	2	30	15	0	0	0	0
Boiler Rm	2	30	18	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-18 kt	19-22 kt	23-25 kt	26+ kt	
Increase	11.0	8.0	5.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Hatsukari

TB JAPAN 1936 to 1942

8182-1 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Fujinagata, Osaka	
Complement		*Beam*	24 ft	*Launched*	12/19/1933
Scrapped 1946		*Draft*	8.2 ft	*Completed*	07/15/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0	Catapult	0

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

RF1	None
Max Rg	
Eff Rg	

RF	Port	Stbd
0		
AA		

RF2	None
Max Rg	
Eff Rg	

RF	Port	Stbd
0		
AA		

RF3	None
Max Rg	
Eff Rg	

RF	Port	Stbd
AA		

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW		
0		
None		

DEPTH CHARGES			
Rack	0		
Ammo	0		

Captain	

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

COPYRIGHT © Richard R. Sartore 2009

Hatsukari

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445								
KTS	28								

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Hatsukari

TB JAPAN 1942 to 1945

8182-2 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Fujinagata, Osaka	
Complement		*Beam*	24 ft	*Launched*	12/19/1933
Scrapped 1946		*Draft*	8.2 ft	*Completed*	07/15/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

2 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0	Catapult	0

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

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

RF						
5	Port	5	4	3	2	1
	Stbd	5	4	3	2	1
AA	Port	20	16	11	7	3
M	Stbd	20	16	11	7	3

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	48		

COPYRIGHT © Richard R. Sartore 2009

Hatsukari

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445								
KTS	28								

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Manazuru

TB JAPAN 1934 to 1936

8181-0 TOMOZURU Class

Displacement	535 ts	*Length*	259 ft	Fujinagata, Osaka	
Complement		*Beam*	24 ft	*Launched*	07/11/1933
Sunk 03/01/1945		*Draft*	8.2 ft	*Completed*	11/31/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12.7cm/50 Type 3 | 13

Max ROF	Range	Shell Size/Weight
10.0 sh/min	19,890 yds 39.8"	5.0" 50.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.5	Level	S	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

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	7.9	6.7	5.6	4.6	3.8	3.2	2.4	1.9	1.5					
Rge	S	S	S	M	M	L	L	E	E					
H	0.1	0.1	0.2	0.3	0.4	0.5	1.0	1.5	1.7					
V	5.4	4.0	2.9	2.1	1.7	1.4	1.2	1.2	1.2					

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

1

2

TORPEDOES

TT	4	Ammo	8

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

RF1	1	40mm/62 HI Shiki			
Max Rg	7,500	15.0"	7	5	
Eff Rg	3,375	6.8"	11	8	

RF						
11	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA	Port	4	3	2	1	1
H	Stbd	4	3	2	1	1

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
0			Rack	0		
None			Ammo	0		

COPYRIGHT © Richard R. Sartore 2009

Manazuru

TIER	DP
1/70	42
2/80	84
3/75	126
4/85	168
5/80	210
6/90	248
7/85	286
8/95	323
9/90	361
10	399
10	424

DP	420
KTS	30

Engine Rm	2	30	17	0	0	0	0
Prop/Shaft	2	30	15	0	0	0	0
Boiler Rm	2	30	18	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-18 kt	19-22 kt	23-25 kt	26+ kt	
Increase	11.0	8.0	5.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		1

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Manazuru

TB JAPAN 1936 to 1942

8181-1 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Fujinagata, Osaka	
Complement		*Beam*	24 ft	*Launched*	07/11/1933
Sunk 03/01/1945		*Draft*	8.2 ft	*Completed*	11/31/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0			

RAPID FIRE BATTERIES

RF1		None
Max Rg		
Eff Rg		

RF	Port					
0	Stbd					
AA	Port					
	Stbd					

RF2		None
Max Rg		
Eff Rg		

RF	Port					
0	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

Coal (ts)	0	Oil (ts)	150	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW			DEPTH CHARGES			
Engines	Kampon GT			9000	10	None	0			Rack	0		
Boilers	2 Kampon					None	None			Ammo	0		

COPYRIGHT © Richard R. Sartore 2009

Manazuru

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445
KTS	28

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Manazuru

TB JAPAN 1942 to 1945

8181-2 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Fujinagata, Osaka	
Complement		*Beam*	24 ft	*Launched*	07/11/1933
Sunk 03/01/1945		*Draft*	8.2 ft	*Completed*	11/31/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

2 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0			

RAPID FIRE BATTERIES

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

RF						
5	Port	5	4	3	2	1
	Stbd	5	4	3	2	1
AA	Port	20	16	11	7	3
M	Stbd	20	16	11	7	3

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	48		

COPYRIGHT © Richard R. Sartore 2009

Manazuru

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445
KTS	28

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Tomozuru

TB JAPAN 1934 to 1936

8179-0 TOMOZURU Class

Displacement	535 ts	*Length*	259 ft	Maizuru Navy Yard	
Complement		*Beam*	24 ft	*Launched*	10/01/1933
Sunk 03/24/1945		*Draft*	8.2 ft	*Completed*	02/24/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12.7cm/50 Type 3 | 13

Max ROF	Range	Shell Size/Weight
10.0 sh/min	19,890 yds 39.8"	5.0" 50.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.5	Level	S	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

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	7.9	6.7	5.6	4.6	3.8	3.2	2.4	1.9	1.5					
Rge	S	S	S	M	M	L	L	E	E					
H	0.1	0.1	0.2	0.3	0.4	0.5	1.0	1.5	1.7					
V	5.4	4.0	2.9	2.1	1.7	1.4	1.2	1.2	1.2					

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

1

2

TORPEDOES

TT	4	Ammo	8

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

RF1	1	40mm/62 HI Shiki			
Max Rg	7,500	15.0"	7	5	
Eff Rg	3,375	6.8"	11	8	

RF						
11	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA	Port	4	3	2	1	1
H	Stbd	4	3	2	1	1

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
0			Rack	0		
None			Ammo	0		

COPYRIGHT © Richard R. Sartore 2009

Tomozuru

TIER	DP
1/70	42
2/80	84
3/75	126
4/85	168
5/80	210
6/90	248
7/85	286
8/95	323
9/90	361
10	399
10	424

DP	420
KTS	30

Engine Rm	2	30	17	0	0	0	0
Prop/Shaft	2	30	15	0	0	0	0
Boiler Rm	2	30	18	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-18 kt	19-22 kt	23-25 kt	26+ kt	
Increase	11.0	8.0	5.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Tomozuru

TB JAPAN 1936 to 1942

8179-1 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Maizuru Navy Yard	
Complement		*Beam*	24 ft	*Launched*	10/01/1933
Sunk 03/24/1945		*Draft*	8.2 ft	*Completed*	02/24/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

3 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	600

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

RF1		None
Max Rg		
Eff Rg		

RF	Port					
0	Stbd					
AA	Port					
	Stbd					

RF2		None
Max Rg		
Eff Rg		

RF	Port					
0	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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW		
0		
None		

DEPTH CHARGES			
Rack	0		
Ammo	0		

COPYRIGHT © Richard R. Sartore 2009

Tomozuru

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445								
KTS	28								

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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

Tomozuru

TB JAPAN 1942 to 1945

8179-2 TOMOZURU Class

Displacement	600 ts	*Length*	259 ft	Maizuru Navy Yard	
Complement		*Beam*	24 ft	*Launched*	10/01/1933
Sunk 03/24/1945		*Draft*	8.2 ft	*Completed*	02/24/1934

SEEKRIEG 5

SHIP LOG SHEET

Version 3/6/2009

2 x 12cm/45 11th Year | 12

Max ROF	Range	Shell Size/Weight
5.0 sh/min	17,500 yds 35.0"	4.7" 45.0 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	1.7	Level	V	Ammunition	200 rpg	400

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

COM — 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	7.8	6.4	5.3	4.3	3.5	2.9	2.2	1.5						
Rge	S	S	S	M	M	L	E	E						
H	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.7						
V	3.6	2.6	1.9	1.5	1.3	1.2	1.1	1.2						

Crew	Sea	BR	Targ Sz	Ops
			-1	

AIRCRAFT

Aircraft	0	Catapult	0

TORPEDOES

TT	2	Ammo	4

53cm Type 6

Damage Class	E

Settings

7,600/36

11,000/32

17,000/27

MINES

0

RAPID FIRE BATTERIES

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

RF						
5	Port	5	4	3	2	1
	Stbd	5	4	3	2	1
AA	Port	20	16	11	7	3
M	Stbd	20	16	11	7	3

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

Coal (ts)	0	Oil (ts)	150
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
9000	10

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	48		

COPYRIGHT © Richard R. Sartore 2009

Tomozuru

TIER	DP
1/70	45
2/80	89
3/75	134
4/85	178
5/80	223
6/90	263
7/85	303
8/95	343
9/90	383
10	423
10	449

DP	445								
KTS	28								

Engine Rm	2	28	16	0	0	0	0
Prop/Shaft	2	28	14	0	0	0	0
Boiler Rm	2	28	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
-1	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
1				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

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
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