

No 13

56 11

56 54

507

Dec 10 Recd Hydrographic # 4906

Dredge } No. 5611 Date, Nov. 19, 1909

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 7:12 P } Air { 83°
 { 84° Time 7:35 P } { 83°

Density: Surf. _____ fms. _____

Wind: Direction East Force 2

Baromet. 29.82 Amt. of Clouds 8 State of Sea S

Weather beam

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Tonkin Gulf S. of Togyan

Batun I (E) S 43 W - Tanpan I (mid)

Position 0 40 30 S - 101 50 00 E.

Chart used: No. 139 942^a Ed'n -

Drift: Direction _____ Distance _____

Depth of Haul Surface

Apparatus and Rig used 10' Inter.; double cone,
towing to 20 fms. wire.

Time towing - h. 20 m.

Remarks: No sdg. taken.

Deck Officer Mr. Rohang Recorder Aretis -

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	7 12 00	7 34 10	
			20 100	7 13 30	7 32 30	
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100		843 W	
			3200			
			3300		6.4 m	
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

103

N 70 W

Banki d (E)

Dredge } No. 5612 Date, Nov 20, 19 7
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot } lbs.
Lead }

Turns 700 Cor'n — Depth 750 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample —

Character of Bottom —

Thermom. { Make 377 Cor'n { Instr. —
 { No. 4092 { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83° Time 6:45 } Air { 82°
 { 83° Time 7:45 } { 80 1/2°

Density: Surf. — fms. —

Wind: Direction Various Force 0-1

Baromet. 29.85 Amt. of Clouds 7 State of Sea 8

Weather bright

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality Tomini Gulf, S of Tagaen Id.

Burka Id. (E) S 3 E Cape Api, NW,

Position Lat 00° 38' 00" S Long 121° 45' 40"

Chart used: No. BA 942 A Ed'n —

Drift: Direction S. 5 E Distance 1.5

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz, 2 wing

weights, 1 Tail weight, 2 glass

floats.

Time towing h. 2 m.

Remarks: Thermometer, 70 fms

wire, stray line + lead,

and sounding cup lost.

Deck Officer Mr. Robinson Recorder C. E. Johnson

Mr. Johnson H. W. Crider

11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
A. M. Down.	Up. A. M.		A. M. Down.	Up. A. M.
5 57 20	6 26 30	0	6 30 10	8 29 30
58 10	25 20	100	39 25	24 45
59 00	24 30	200	43 30	21 40
59 50	23 40	300	46 50	18 30
6 00 45	23 05	400	51 10	15 00
01 40	22 20	500	55 15	10 50
02 40	21 50	600	58 50	06 35
03 40	19 05	700	7 02 10	8 02 25
x 6 04 15	6 20 10	800	05 40	58 25
		900	09 35	54 40
		1000	13 50	51 15
		1100	17 40	47 10
		1200	7 21 00	7 43 30
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

S. L. W.

X Set wire out
to get link out
(Geo. father)

Bukad (E)

S 3 E

7. m

Dredge } No. 5673 Date, Nov. 20, 19

Sdg. Mch. Lucas Reel Shot/Lead 35 lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
* 9 40 00	9 42 30		0			
9 40 20	9 41 30		10 100			
			200			
			300			
* 9 50 30	9 53 00		400			
9 51 20	9 52 50	59	500			
			600			
* 9 56 00	12 01 00		700			
9 57 30	9 57 40	83	800			
			900			
* 9 46 20	9 49 00		1000			
9 46 50	9 47 00	50	1100			
			1200			
			1300			
			1400			
* No bottom			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5613 Date, Nov. 20, 1929
Hydrog }
Sdg. Mch. Lucas Reel L Shot/Lowel 35 lbs.
Turns 752 Cor'n Depth 752 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 4oz.
Character of Bottom Gy M

Thermom. { Make Cor'n { Instr.
 { No. { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 10:27 A } Air { 84°
 { 85 Time 11:33 A } { 86°

Density: Surf. fms.

Wind: Direction Variable Force 0-1

Baromet. 29.87 Amt. of Clouds 7 State of Sea S.

Weather bc

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality Tomini Gulf, S of Togian Id.

Buys I (E) S28E - Cape Api (NW) S50W.

Position 0°42' S - 121°44' E.

Chart used: No. 942^a BFA Ed'n -

Drift: Direction N20E Distance 1.8 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 2 wing
weights, 1 tail weight, 2 glass
floats

Time towing h 19¹⁰ m.

Remarks:

Deck Officer Mr. Johnson Recorder H. Crider

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M. P. M.
10 06 00	10 23 50		0	10 26 15	18 26 00	
07 40	22 10		100	30 15	21 50	
08 45	21 20		200	34 20	19 30	
10 00	20 30		300	38 10	16 20	
11 10	19 50		400	41 40	13 00	
12 20	19 00		500	45 30	09 10	
13 30	18 20		600	49 20	05 20	
14 45	17 20		700	53 00	12 01 30	
10 15 30	10 16 45	752	800	56 45	57 25	
			900	11 00 30	52 40	
			1000	04 30	40 40	
			1100	09 15	36 45	
			1180	11 13 40	11 32 50	
			1200			
			1300			
			1400			
			1500			
			1600			
			1700	* Stopped 7 1/2 minute		
			1800	to air & load West Box.		
			1900	on either end of boom		
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Buka (C)

S 28 E

4 m

Dredge } No. 5644 Date, Nov. 22, 1909
Hydros }

Sdg. Mch. Lucas Reel Lucas Shot 60 lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup Lucas Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: Hands of register pressed against dial breaking same & stopping hands. Towed in against

Deck Officer W. Hazard Recorder C. H. Long

SOUNDING WIRE.

DREDGING CABLE.

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		M.	Up.	M.
6		0			
16		100			
30		200			
17		300			
50		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Dredge } No. 5614 Date, Nov 22, 1909

Sdg. Mch. Lucas Reel Lucas Shot/Lead 60 lbs.

Turns 1100 Cor'n _____ Depth 1100 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 2 oz.

Character of Bottom gy M.; S; glob.

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 7:10 } Air { 82°
Time 8:10 } 83½°

Density: Surf. _____ fms. _____

Wind: Direction North Force 3

Baromet. 29.89 Amt. of Clouds .5 State of Sea 2

Weather bc.

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality Molucca Passage

N. 46 W. Tifari Id

Position Lat. 00° 31' 00" N. Long. 125° 58' 45" E

Chart used: No. B.A. 942 A Ed'n _____

Drift: Direction N.W. ? Distance 1.5 ?

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz R. 1 tril weight, 2 wing weights, 2 glass floats.

Time towing h. 12 m.

Remarks: Shot failed to detach.

One bridle strap carried away and net very badly torn.

Deck Officer Mr. Hazard Recorder C. E. Long

Bohance H. Currier

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. DOWN.	UP.	A. M.		A. M. DOWN.	UP.	A. M.
6 29 00	6 59 30		0	7 04 30		56 30
30 10	57 30		100	09 10		53 25
31 15	55 50		200	13 00		50 30
33 20	54 20		300	16 30		47 50
34 25	53 20		400	19 50		45 10
35 50	52 15		500	22 40		42 30
37 10	51 25		600	26 00		39 50
38 25	49 50		700	29 10		37 00
39 45	48 50		800	32 30		34 00
41 10	47 45		900	36 20		30 50
42 30	46 45		1000	40 15		27 45
6 44 05	6 45 30		1100	44 05		25 10
			1200	47 35		21 20
			1300	51 20		18 00
			1400	55 40		14 00
			1450	7 57 55	8	09 35
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



n. 19 E.

and 2 minutes

T. J. Ford

n 19 E

30.5

Dredge } No. 5215 Date, Nov. 27, 1909
Hydrog. }
Sdg. Mch. Lucas Reel L Shot } 60 lbs.
Lead }
Turns 1021 Cor'n _____ Depth 1021 fms.
Sdg. Cup Lucas Amt. Bot'm Sample Trace
Character of Bottom G.

Thermom. { Make - Cor'n { Instr. -
 { No. - { Stem. -

Bottom Reading - Cor'd Temp. _____

Temp. Surf. { 84° Time 2:38 p. } Air { 84°
 { 84° Time 3:00 p. } { 83°

Density: Surf. _____ fms. _____

Wind: Direction NNE Force 2-3

Baromet. 29.86 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Molucca Passage.

Terminate Id. peak N 73° E - Tifori Id N 40° W

Position 0° 32' 30" N - 126° 31' 30" E.

Chart used: No. BA 742 Ed'n -

Drift: Direction SW (?) Distance 1.5 (?)

Depth of Haul Bottom

Apparatus and Rig used 12 Agassiz, 2 glass floats, 2 wing weights, 1 tailnet.

Time towing - h. 20 m.

Remarks: Sounding wire fouled on reel when heaving in. Heaved out at 1:25 to clear. Register did not record until going out. "Stray line" at 1:34.

Deck Officer Mr. Johnson Recorder A. Tuttle

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 04 25	1 24 10		0	1 38 45	3 40 20	
05 40	-	-	100	43 20	37 10	
06 50	25 00		200	47 20	34 20	
08 00	24 10		300	50 50	31 30	
09 10	23 15		400	54 30	28 35	
10 10	22 25		500	58 25	25 40	
11 25	21 25		600	2 01 45	22 40	
12 35	21 00		700	06 00	19 30	
13 45	20 15		800	09 55	16 45	
15 00	19 30		900	14 00	14 00	
16 10	18 40		1000	18 00	11 25	
1 16 25	1 18 20	102	1100	21 55	08 40	
			1200	26 00	05 55	
			1300	30 25	3 02 55	
			1400	34 30	57 35	
		1450	1500	2 36 50	2 57 20	
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

109

Tifored

2400
35m

Dredge } No. 6616 Date, Nov 22, 1905
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 6:45 } Air { 80°
 { 64 Time 7:00 } { 80°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 0-1

Baromet. 29.88 Amt. of Clouds 8 State of Sea 2

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Molucca Passage

Position 0° 36' 00" N. 126° 52' 20" E.

Chart used: No. 942a Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul 20 to 30 fathoms.

Apparatus and Rig used 10' Intermediate
double cone with 50 fath
wire

Time towing h. 15 m.

Remarks: _____

Deck Officer Mr. Decharge Recorder C. E. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P. M. Down.	Up.	P. M.			P. M. Down.	Up.	P. M.	
				0	6 41 30	7 04 10		
				50 100	6 43 50	7 01 50		
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

110

Tifosi

267 m
49 m

Dredge } No. 5617 Date, Nov 27th, 1909
Hydrog. }
Sdg. Mch. Lucas Reel L. Shot } 35 lbs.
Lead }
Turns 131 Cor'n Depth 131 fms.
Sdg. Cup Lucas Amt. Bot'm Sample None
Character of Bottom None

Thermom. { Make Cor'n { Instr.
 { No. { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 10:50 A } Air { 84°
 { 84° Time 11:11 A } { 84°

Density: Surf. fms.

Wind: Direction Variable Force 1-0

Baromet. 29.85 Amt. of Clouds 2.0 State of Sea S.

Weather cu.

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality Dodinga Bay, Celebes.

Ternate Id. (N. 71 W. Ternat

Position Lat. 00° 49' 30" N Long. 127° 25' 30"

Chart used: No. BA 2458 Ed'n

Drift: Direction N. 71 W Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz 2 wing
weights, 1 tail weight, 2 glass
floats

Time towing h. 10 m.

Remarks: * Sheet did not detach.

Deck Officer Mr. Johnson Recorder H. Crider

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. DOWN.	UP.	A. M.		A. M. DOWN.	UP.	A. M.
10 40	40*	10 45 25	0	10 50	30	11 18 15
42 00		44 15	100	54 30		15 00
10 42 25		10 43 50	131 200	11 00 45		11 10 45
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

113

sd (S.P. tow) S 45 W

Female d (A) SE S 45 W
 R 71 W
 7 m

✓

Dredge } No. 4934 Date, Nov. 27th, 1909
Hydrog. }
Sdg. Mch. Tanner Reel T.N. Shot/Lead 36 lbs.
Turns 124 Cor'n _____ Depth 139 fms.
Sdg. Cup Arming Amt. Bot'm Sample Trace
Character of Bottom S. S. br.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Dodinga B., before Ternate (a) or Ternate (SE)

Position 0-51-00" N 127-25-10 E

Chart used: No. 942a Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used ~~As before~~

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer Mr. Johnson Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

at M. Down. | Up. | *at* M.

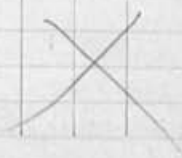
--- M. Down. | Up. | --- M.

11 35 40 11 41 50 0
 36 20 39 20 100
 11 37 10 11 37 30 174 200

114

S33A

Female S (S6) S33A
7, 8 m



Dredge } No. 5618 Date, Nov. 27, 1909
Hydrog. }

Sdg. Mch. Lucas Reel L Shot/Lead 60 lbs.

Turns 417 Cor'n - Depth 417 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 103

Character of Bottom gy S

Thermom. { Make - Cor'n { Instr. -
No. - Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 84° Time 2:45p } Air { 82°
84° Time 3:00p } 80°

Density: Surf. - fms. -

Wind: Direction SW by W Force 3

Baromet. 29.79 Amt. of Clouds 8 State of Sea S

Weather fog.

Direction and Force of Current { Surface -
Bottom -

Tide -

General Locality Stobeen Passage

Tailora Id. (N) N40E - March Id

Position 0°37'N - 127°15'E

Chart used: No. BA 942 Ed'n -

Drift: Direction S13W Distance 2.0 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 2 floats,

2 wing weights, 1 tail weight.

Time towing - h. 20 m.

Remarks:

Deck Officer Mr. Hazard Recorder A. R. R. -

SOUNDING WIRE.

P. M. Down.		Up.		P. M.	
2	02 40	2	12 50		
	03 45		11 50		
	04 55		10 50		
	06 10		10 00		
	07 15		09 10		
2	07 25	2	08 55	417	500

FMS.

DREDGING CABLE.

P. M. Down.		Up.		P. M.	
2	16 00	3	23 30		
	20 15		20 35		
	24 25		17 50		
	28 40		14 30		
	33 15		11 25		
	37 25		08 30		
	41 25		05 05		
2	43 35	3	04 00		

625 700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

(S) 569 E.

March 1

S 69 E
7.8 m

Dredge } No. 5619 Date, Nov 27, 1929

Sdg. Mch. Lucas Reel L Shot/Lead 60 lbs.

Turns 435 Cor'n - Depth 435 fms.

Sdg. Cup Lucas Amt. Bot'm Sample True

Character of Bottom fine gy S.M.

Thermom. { Make - Cor'n { Instr. -
No. - Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 84° Time 4 P. } Air { 83°
84° Time 4:42 } 77°

Density: Surf. - fms. -

Wind: Direction West Force 3

Baromet. 29.78 Amt. of Clouds 9 State of Sea S

Weather bptd

Direction and Force of Current { Surface -
Bottom -

Tide -

General Locality Motuica Passane

Maitera I (N) N 33 E - Maitera I (S)

Position 0° 35' N - 127° 14' 40" E

Chart used: No. B 942² Ed'n -

Drift: Direction S 72 E Distance 1.8 m

Depth of Haul Bottom

Apparatus and Rig used AS before

Time towing h. 29 m

Remarks:

Deck Officer Mr. Hazard Recorder Arthur -

Mr. Robange C. H. Long

SOUNDING WIRE.

M. Down.		Up.	M.	
3	30	30	3	40
	31	50		45
	32	55		00
	34	05		15
	35	15		30
3	35	40	3	2)
				00

FMS.

DREDGING CABLE.

M. Down.		Up.	M.	
3	44	10	4	39
	48	25		20
	57	30		35
	56	30		45
4	01	00		20
	04	30		40
	10	00		05
4	12	25	4	41
				30

650 700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

S 78 E.

March 2 (5)

S 78 E

7 m

Dredge } No. 5620 Date, Nov. 28, 1909
Hydrog. }
Sdg. Mch. Lucas Reel L Shot/Lead 60 lbs.
Turns 358 Cor'n Depth 358 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 27.
Character of Bottom Gy. M

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 6:04 A } Air { 80°
 { 83° Time 7:00 A } { 79 1/2°

Density: Surf. _____ fms. _____

Wind: Direction N.W. Force 3-2

Baromet. 29.85 Amt. of Clouds 10. State of Sea S.

Weather sp

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Malacca Passage Celebes
Malayan Id. (N. tail) N. 85 E.

Position Lat 0 21' 30" N. Long. 127° 16' 45" E.

Chart used: No. 942 A Ed'n _____

Drift: Direction South Distance 1.0

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz 2 wing
weights, 1 tail weight, 1/2 glass
floats.

Time towing h. 20 1/2 m.

Remarks:

Deck Officer Mr. Johnson Recorder Newcider

SOUNDING WIRE.

A. M. DOWN. UP. A. M.

FMS.

DREDGING CABLE.

A. M. DOWN. UP. A. M.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
A. M. DOWN.	UP. A. M.		A. M. DOWN.	UP. A. M.
5 44 00	* 5 55 00	0	6 03 30	7 01 30
45 00	53 20	100	07 30	58 20
46 15	52 20	200	11 40	55 10
47 25	51 20	300	15 40	51 50
5 48 10	5 50 40	358 400	19 30	48 25
		500	6 24 00	6 44 30
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
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		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

* Shot did not detach.

Malayan Id (Stam) S.H.C.

Malayan Id (S) S.H.C.
7 m

Dredge } No. 5621. Date, Nov. 28, 1909.
Hydrog. }
Sdg. Mch. Lucas Reel L. Shot } 60 lbs.
Leads }
Turns 298 Cor'n - Depth 298 fms.
Sdg. Cup Lucas Amt. Bot'm Sample None
Character of Bottom Ford. *

Thermom. { Make - Cor'n { Instr. -
 { No. - { Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 84° Time 9:50 a. } Air { 81°
 { 84° Time 10:11 a. } { 81°

Density: Surf. - fms. -

Wind: Direction NNEW Force 3-4

Baromet. 29.89 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface -
 { Bottom -

Tide -

Bet Sillolo & Makyan Is

General Locality Malacca Passage Fin part.

Makyan Id. (S) N54W - Ditto (E) N10E.

Position 0°15'N - 127°24'35"E.

Chart used: No. 947 = BA Ed'n -

Drift: Direction S78E Distance 1.2 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz; mudbag;
2 floats; usual 3 weights.

Time towing - h. 20 m.

Remarks: * gy & bk S in mudbag -
bag full.

Deck Officer Mr. Hazard Recorder Arutit -

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
A. M. Down.	Up.	A. M.			A. M. Down.	Up.	A. M.	
9 17 05	9	75 00		0	9 27 50	10	29 50	
18 35		22 55		100	32 10		25 30	
19 40		23 10		200	36 30		22 00	
9 20 50	9	22 20 298		300	40 50		18 30	
				400	45 10		14 45	
				500	9 50 00	10	10 00	
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Maryland (S)

254 P
B m

Dredge } No. 7622 Date, Nov 29, 1909
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Lead }
Turns 275 Cor'n _____ Depth 275 fms.
Sdg. Cup Lucas Amt. Bot'm Sample trace.Character of Bottom gy. m.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83° Time 7:45 } Air { 80°
 { 83° Time 8:24 } { 80°

Density: Surf. _____ fms. _____

Wind: Direction East Force 1-2

Baromet. 29.85 Amt. of Clouds 9 State of Sea 2

Weather fog

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Bet Gilolo & Makyan

Malucco Passage, Eastern Port

Makyan (R. Tang) N. 66 W. Makyan

Position Lat. 0 19' 20" N. Long 127° 28' 30"

Chart used: No. BA942 Ed'n _____

Drift: Direction S. 10 E. Distance 1.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz $\frac{1}{2}$ glass

floats, 2 wing weights, 1

Hail weight, Mud bag.

Time towing h. 21 m.

Remarks:

Deck Officer Mr. Johnson Recorder C. E. Long

M. Hazard H. C. C. 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q. M. Down.	Up.	Q. M.		Q. M. Down.	Up.	Q. M.
7 32 10	7 37 20		0	7 45 00	8 36 50	
33 15	36 40		100	7 49 20	33 40	
34 05	37 40		200	5 0 50	30 30	
7 35 35	7 37 00	275	300	5 7 00	27 30	
			400	8 03 00	8 24 00	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Sp. Two

Id (S. Tangt) S69W

Makyan I (NE) R 66 W

4.1 mi

Dredge } No. 5623 Date, Nov. 29th, 1909
Hydrog. }
Sdg. Mch. Lucas Reel 2 Shot/Lead 60 lbs.
Turns 272 Cor'n Depth 272 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 3 g
Character of Bottom fine S. Mud.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83° Time 9:05 A } Air { 80 1/2°
 { 83° Time 9:43 A } { 81°

Density: Surf. _____ fms. _____

Wind: Direction East Force 1

Baromet. 29.87 Amt. of Clouds 9 State of Sea S

Weather haze

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Bot Gill & Mak
Molucca Passage, Eastern Part

Position Makyan Id. (R. Tang) N. 46 W.
Lat. 0 16' 30" N. Long. 127° 30' 00"

Chart used: No. BA 942 A Ed'n _____

Drift: Direction South Distance 1.

Depth of Haul Bottom

Apparatus and Rig used As before except no
mud bag.

Time towing h. 20 m.

Remarks:

Deck Officer Mr Hazard Recorder H. W. Childer

SOUNDING WIRE.			FMS.	DREDGING CABLE.				
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.		
8	53 15	8	57 40	0	9	05 15	9	55 30
	54 15		58 40	100		09 25		52 20
	55 20		57 50	200		13 50		49 00
8	56 00	8	57 00	272-800		17 50		46 00
				400		9 22 40	9	42 40
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
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				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Makyan Id. (S. Tangt)

S 88 W.

Makyan Id. (S)

S 88 W

7.5 m

Dredge } No. ~~414~~ Date, Nov. 29th, 1909
Hydrog. }

Sdg. Mch. Lucas Reel L Shot/Lead 60 lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup Lucas Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: * Shot detached.

Deck Officer Mr. Hazard Recorder H. Anderson

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M.	Down.	Up.	A. M.		M. Down.	Up.	M.
10	21	40	23 00	0			
10	21	55	22 00	32			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 5624 Date, Nov. 29th, 1909

Hydrog. }
Sdg. Mch. Lucas Reel L Shot/Lead 60 lbs.

Turns 288 Cor'n Depth 288 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 373

Character of Bottom fine sand

Thermom. { Make Cor'n { Instr.
 { No. { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83° Time 10:40 A } Air { 83°
 { 83° Time 11:20 A } { 83°

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.86 Amt. of Clouds 9 State of Sea S

Weather haz

Direction and Force of Current { Surface
 { Bottom

Tide

~~Bot. Ed. Inks~~

General Locality Malacca Passage, Eastern Part

Malyan Id (L. Tang) N. 65 W. 9 Mayao Id

Position Lat. 0 12' 15" N. Long 127° 29' 30"

Chart used: No. B0942A Ed'n

Drift: Direction S. 15 E. Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used as before minus

mud bag.

Time towing h. 20⁰⁰ m.

Remarks:

Deck Officer M. Hazard Recorder H. C. C. C.

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	M.		A. M. Down.	Up.	M.
10 27 25	10 35 30		0	10 38 40	11 33 05	
28 30	34 20		100	43 05	30 05	
29 40	33 25		200	47 25	26 55	
10 30 50	10 32 25		288 300	51 20	23 30	
			400	55 50	20 20	
			450 500	10 58 00	11 18 20	
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
Id. (P.T.) S 53 W.			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

1725
 Makyan S (S) R 67 R
 8.9 m

Dredge } No. 5625 Date, Nov. 29, 1909

Sdg. Mch. Lucas Reel L Shot/Lead 60 lbs.

Turns 230 Cor'n - Depth 230 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 1 oz.

Character of Bottom gy M. fine S.

Thermom. { Make - Cor'n { Instr. - No. - Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 84° Time 2:17 p. } Air { 83° 84° Time 2:38 p. } 82.5°

Density: Surf. - fms. -

Wind: Direction WNW Force 2

Baromet. 29.80 Amt. of Clouds 5 State of Sea S

Weather bcs

Direction and Force of Current { Surface - Bottom -

Tide -

General Locality Bet Sillolo & Koyoa Id. Johnson Passage, Easter Part.

Koyoa Id. (Rt) N 73 W - Sami (I. F.) S 3 W.

Position 0° 07' N - 127° 28' E.

Chart used: No. 942 B. A. Ed'n -

Drift: Direction S 5 W Distance 1.8 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz; 2 floats; 3 trimming weights.

Time towing - h. 21 m.

Remarks:

Deck Officer Mr. Rotange Recorder J. F. McKil

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
1 47 00	1 53 10		0	1 58 35	2 52 20	
48 00	52 10		100	2 03 00	49 00	
49 00	51 10		200	07 05	45 25	
1 49 20	1 50 40	230	300	11 05	41 45	
			400	2 16 00	2 37 00	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
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			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Kangsa 2 (88)

S 3 W
6 m

Dredge } No. 5626 Date, Nov 29, 1909
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Load }
Turns 265 Cor'n - Depth 265 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 3/4 oz.
Character of Bottom gy M fine S

Thermom. { Make - Cor'n { Instr. -
 { No. - { Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 84° Time 3:35 } Air { 84°
 { 84° Time 3:53 } { 84.5°

Density: Surf. - fms. -

Wind: Direction WNW Force 2

Baromet. 29.79 Amt. of Clouds 5 State of Sea S

Weather fog

Direction and Force of Current { Surface -
 { Bottom -

Tide -

General Locality Bet Gill & Kayoa Is
N. 24 (27) 7 1/2° N. Kayoa
(L.P.) S. 24° W. Makua Bay, S. 24° W.

Position 0° 27' 30" N 127° 29' 00" E.

Chart used: No. 942⁹ BA Ed'n -

Drift: Direction W. Distance 1.0 mi.

Depth of Haul Bottom

Apparatus and Rig used gc before.

Time towing - h. 18 m.

Remarks:

Deck Officer W. T. Torrance Recorder A. K. K. -
Mr. Johnson C. K. K.

SOUNDING WIRE.			FMS.	DREDGING CABLE.				
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.		
3	07 00	3	13 10	0	3	17 55	4	08 10
	07 50		12 10	100		22 05		04 55
	08 50		11 30	200		26 10	4	01 30
3	09 30	3	10 25	265		29 55		07 45
				400		33 50		53 25
				415		34 30	3	52 50
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
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				2800				
				2900				
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				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

126
 Bayard (S.S.) 85 m

3.7 m

6.7 m

Dredge } No. 5627 Date, Nov 29-30, 1907
Hydrog. }
Sdg. Mch. Hand lead Reel - Shot/Lead 14 lbs.
Turns - Cor'n - Depth 22 fms.
Sdg. Cup - Amt. Bot'm Sample -
Character of Bottom M.

Thermom. { Make - Cor'n { Instr. -
 { No. - { Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 83° Time 6p, 29th Air { 83°
 { 83° Time 6a, 30th { 80°

Density: Surf. - fms. -

Wind: Direction Variable Force 0-2

Baromet. 29.82-83 Amt. of Clouds 9-10 State of Sea S.

Weather New, bsp, othw, onw, bsp & new

Direction and Force of Current { Surface -
 { Bottom -

Tide ebbing until 4:00 am, Nov. 30
when flood set in
Bet Gill & Koyoa Id
N 42 E. Lt S 56

General Locality

Koyoa Id, r.t. NE 1/4 - l.t. S by E

Position 6'00 N 127-26-00 E

Chart used: No. BA 942 a Ed'n -

Drift: Direction - Distance -

Depth of Haul 5 fms below surface.

Apparatus and Rig used 10' Inter. Double cone
towing to 10 fms. wire.

Time towing 11 h. 40 m.

Remarks: Haul was taken at anchor
age off NE end of Koyoa Id.

Deck Officer Mr. Fager Recorder C. E. Lay

SOUNDING WIRE.

DREDGING CABLE.

M. Down. Up. M.

FMS.

M. Down. Up. M.

0

6 00 00 5 40 00

~~100~~

6 02 00 5 37 00

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

125

Kanyoa I (50) S15E
1.5 m

Dredge } No. 5628 Date, Nov 30th, 1909
Hydrog. }

Sdg. Mch. Lucas Reel S Shot/Lead 60 lbs.

Turns 1291 Cor'n Depth 1291 fms.

Sdg. Cup Lucas Amt. Bot'm Sample None

Character of Bottom gy. M (in net)

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 12:45 p. } Air { 86°
84° Time 1:05 p. } 86°

Density: Surf. fms.

Wind: Direction Variable Force 1-2-3

Baromet. 29.83 Amt. of Clouds 5 State of Sea S

Weather fog

Direction and Force of Current { Surface Bottom

Tide

General Locality Patente St. & southward
Molokai Passage Patente Strait

St. Lamo I (r.t.) N 9 W - Lamo I (m.) N

Position 0° 28' 30" S - 127° 45' E

Chart used: No. 942 = B A Ed'n

Drift: Direction S 20 E Distance 2.5 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 2 wing
weights, 1 tail weight, 2 glass
floats.

Time towing — h. 20 m.

Remarks: * Stray line carried
away —
One tridle stop carried
away in haul.

Deck Officer Mr. Johnson Recorder Mr. Johnson

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
M. Down.	Up.	A. M.				M. Down.	Up.	A. M.		
11 06 40	11 35 50			0	11 38 25	2 07 20				
07 35	34 10			100	42 30	05 55				
08 45	33 10			200	46 45	2 01 15				
10 00	32 15			300	50 45	58 20				
11 10	31 30			400	54 25	55 10				
12 25	30 45			500	57 55	52 15				
13 40	29 55			600	17 01 55	49 25				
15 00	29 00			700	05 30	46 35				
16 25	28 05			800	09 25	43 30				
17 35	27 10			900	12 55	40 20				
18 40	26 10			1000	16 00	36 50				
19 55	25 10			1100	19 15	33 20				
21 00	24 10			1200	22 50	30 00				
11 22 00	11 23 00		129	1800	26 40	26 30				
				1400	30 40	22 40				
				1500	34 05	18 55				
				1600	38 10	14 40				
				1700	41 45	10 30				
				1800	12 45 00	1 05 25				
				1900						
				2000						
				2100						
				2200						
				2300						
				2400						
				2500						
				2600						
				2700						
				2800						
				2900						
				3000						
				3100						
				3200						
				3300						
				3400						
				3500						
				3600						
				3700						
				3800						
				3900						
				4000						
				4100						
				4200						
				4300						
				4400						
				4500						
				4600						
				4700						
				4800						
				4900						

5770

170

St Lomrod (SE) 29 m
7 m

Dredge } No. 5629 Date, Dec 2, 1900
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 60 lbs.

Turns 200 Cor'n Depth 200 fms.

Sdg. Cup Lucas Amt. Bot'm Sample trace

Character of Bottom Co. S.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83° Time 6:30 } Air { 80°
83° Time 6:46 } 80°

Density: Surf. fms.

Wind: Direction Variable Force 0-1

Baromet. 29.81 Amt. of Clouds 4 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Patente Strait
Newassa Id (S. T.) S 62 W;
Sulala Id (S. T.) S 32 E, M. P. S.

Position 0° 50' 10" S. 128° 12' 00" E.

Chart used: No. 942° BA Ed'n

Drift: Direction Distance

Depth of Haul bottom.

Apparatus and Rig used 12' Agassiz No. 2 using
weights, 1 tail weight, 2 glass
floats.

Time towing h. 2 m.

Remarks: Runner of dredging frame
badly bent. Lead rope broken
and both bridle stops carried
away

Deck Officer Mr. Johnson Recorder C. B. Lutz

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>A. M.</i> Down.	Up.	<i>A. M.</i>		<i>A. M.</i> Down.	Up.	<i>A. M.</i>
6 12 40	6 17 10		0	6 26 00	6 35 00	
13 00	16 15		100	30 40	55 10	
14 20	15 15		200	34 45	52 15	
6 14 25	6 15 10	205	800	39 15	49 00	
			400	6 43 20	6 45 20	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1300			
			1800			
			1400			
			1500			
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			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Howona I (S) 562 M

6 m

Dredge } No. 5630 Date, Dec. 2nd, 1907
Hydrog. }
Sdg. Mch. Lucas Reel 2 Shot/Lead 60 lbs.
Turns 569 Cor'n Depth 569 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 2 oz.
Character of Bottom Co. S. M.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84 Time 9:03 A } Air { 81 1/2
 { 85 Time 10:00 A } { 82

Density: Surf. _____ fms. _____

Wind: Direction W.N.W Force 2.

Baromet. 29.83 Amt. of Clouds 6 State of Sea S.

Weather haz.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality ~~Maluco Passage, S. E. Bacula~~
Patent Strait
Dommaria Id. (L. T.) N. 3/4 W. Islet

Position Lat. 0 56' 30" S Long. 128° 05' 00"

Chart used: No. BA 942A Ed'n _____

Drift: Direction SSW/SSW Distance 1.8

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz, 2 wing weights, 1 tow weight, 2 glass floats.

Time towing h. 23⁵⁰ m.

Remarks:

Deck Officer Mr. Hazard Recorder H. W. Cider

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
8 47 00	8 58 00		0	9 02 15	10 29 30	
47 50	57 10		100	06 30	26 30	
48 30	56 25		200	10 20	23 15	
49 15	55 35		300	14 10	19 40	
50 10	54 45		400	18 00	16 20	
51 00	53 55		500	21 30	12 50	
8 51 45	8 53 05	569	600	25 20	09 30	
			700	29 20	06 15	
			800	33 55	03 00	
			860	9 36 50	10 01 00	
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
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			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

~~132~~

132

Id. no name) n. 60 E.

Downward (P)

P 3 (P)

4.5 m

Dredge } No. 5631 ✓ Date, Dec. 22, 1909.
Hydrog. }
Sdg. Mch. Lucas Reel L Shot 60 lbs.
Leads }
Turns 809 Cor'n - Depth 809 fms.
Sdg. Cup Lucas Amt. Bot'm Sample lots in net

Character of Bottom gn IT (in net)
Thermom. { Make - Cor'n { Instr. -
 { No. - { Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 86° Time 2:18 p. } Air { 84.50
 { 84° Time 2:38 p. } { 85.00

Density: Surf. - fms. -

Wind: Direction Variable Force 2-0

Baromet. 29.75 Amt. of Clouds 4 State of Sea S

Weather fog

Direction and Force of Current { Surface -
 { Bottom -

Tide -

General Locality Papant Strait
 Homon Passage SW of Bachin

Doworn I (L.I.) N 58° E - Bachin I (rt) N

Position 0° 57' 30" S - 127° 56' E.

Chart used: No. 942 BA Ed'n -

Drift: Direction N by W Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz; 2 glass floats; 2 wing weights; 1 tail weight.

Time towing - h. 20 m.

Remarks: Lanyard of Sdg. cup parted and Sdg. cup lost.

Deck Officer Mr. Rohange Recorder Anttil -

SOUNDING WIRE.					FMS.	DREDGING CABLE.						
M. DOWN.		UP.	P. M.			M. DOWN.		UP.	P. M.			
1	03	35	1	21	05	0	1	25	50	3	11	30
	04	35		20	00	100		29	45		08	40
	05	35		18	55	200		34	00		05	50
	06	35		17	45	300		37	40		03	00
	07	30		17	00	400		41	20	3	00	00
	08	30		16	10	500		45	00		57	15
	09	30		15	20	600		49	35		54	30
	10	35		14	25	700		55	00		51	25
	11	40		13	25	800		59	25		48	25
1	11	50	1	13	20	809 900	2	04	00		45	25
						1000		08	25		42	25
						1100		13	40		38	40
						1150 1200	2	16	05	2	36	15
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
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						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

133

Downward (m) n 586
10.5 m

Dredge } No. *5-532* ✓ Date, *December 2*, 1909
Hydrog. }

Sdg. Mch. *Lucas* Reel *Lucas* Shot *60* lbs.
Lead

Turns *545* Cor'n _____ Depth *545* fms.

Sdg. Cup *Lucas* Amt. Bot'm Sample *plentiful*

Character of Bottom *gn. M.*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *85°* Time *4:30* } Air { *83 1/2°*
 { *84°* Time *5:56* } { *83°*

Density: Surf. _____ fms. _____

Wind: Direction *Variable* Force *0 -*

Baromet. *29.70* Amt. of Clouds *9* State of Sea *S*

Weather *bcp*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *Patente St*
Becha Id (Pt) 71 79; Becha
Id, Sulang Pt 71 56° N., Molucca Passage

Position *1° 00' 00" S. 127° 50' 00" E.*

Chart used: No. *9429* Ed'n _____

Drift: Direction *SE x E* Distance *2.0 miles*

Depth of Haul *bottom*

Apparatus and Rig used *12' Agassiz N.R., 1 tail*
weight, 2 ring weights, 2 glass
floats.

Time towing _____ h. *22 1/3* m.

Remarks: _____

Deck Officer *Mr. Johnson* Recorder *C. E. ...*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P.M. Down.	Up.	P.M.		P.M. Down.	Up.	P.M.
4 04 10	4 22 10		0	4 24 40	6 08 30	
05 20	21 10		100	28 40	05 25	
06 10	20 15		200	32 50	02 20	
07 00	19 20		300	36 40	59 15	
07 50	18 25		400	40 05	56 20	
08 45	17 30		500	43 15	53 20	
09 45	16 30		600	46 15	50 30	
10 45	15 30		700	49 30	47 30	
11 50	14 20		800	52 20	44 30	
4 12 20	4 13 50	8 45	900	55 20	41 45	
			1000	59 10	38 55	
			1100	5 02 45	36 00	
			1200	06 10	32 00	
			1250	5 08 15	5 50 35	
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Selang Pt (Bachiam) (256 ft)

12.5 m

Dredge } No. 5639 ✓ Date, December 2, 1909

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead } _____

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 7:15- } Air { 82°
 { 84° Time 7:35- } { 82°

Density: Surf. _____ fms. _____

Wind: Direction West Force 3

Baromet. 29.77 Amt. of Clouds 8 State of Sea 3

Weather hcl

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Parkers Point
South Beach, Ed.

Position 1° 03' 00" N 127° 44' 00" E

Chart used: No. 9429 BQ, Ed'n

Drift: Direction _____ Distance _____

Depth of Haul Surface

Apparatus and Rig used 10' Intermediate
as surface.

Time towing h. 19 m.

Remarks:

No beams
obtainable

Deck Officer Mr Recorder C. O. Redding

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.
			0			
			20 100	7	13 00	7 34 00
			200	7	14 10	7 33 00
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

135

Selang Pt

24 00

11.8 m

Dredge } No. 5634 Date, Dec. 3rd, 1909
~~Hydrog.~~
Sdg. Mch. Lucas Reel d Shot } 60 lbs.
Lead }
Turns 329 Cor'n Depth 329 fms.
Sdg. Cup Lucas Amt. Bot'm Sample No trace.
Character of Bottom

Thermom. { Make — Cor'n { Instr. —
No. — Stem. —

Bottom Reading — Cor'd Temp.

Temp. Surf. { 84° Time 6:36 A } Air { 81°
84° Time 7:16 A } 81°

Density: Surf. — fms.

Wind: Direction N.W. Force 2-3

Baromet. 29.76 Amt. of Clouds 9 State of Sea S

Weather haze

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality Pitt Passage

Somino Id (S.T.) N. 5-4 W.

Position Lat. 1° 54' 00" S Long. 127° 36' 00"

Chart used: No. BA 942A Ed'n

Drift: Direction SW X S Distance 1.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 2 wing weights, 1 tail weight, 2 glass floats.

Time towing — h. 13 m.

Remarks:

Deck Officer Mr. Hazard Recorder H.W. Ender

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
6 23 50	6 31 00		0	6 36 00	7 33 30	
24 50	30 10		100	40 15	30 15	
25 50	29 20		200	44 30	27 00	
26 50	28 25		300	48 25	23 50	
6 27 15	6 27 55	329	400	52 20	20 40	
			500	*6 56 40	17 35	
			550	600	7 02 00	7 15 30
			700			
			800			
			900			
			1000			
			1100	Towed 3 minutes		
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

36

Gomomo Id (P.T.) N 41 E

Gomomo Id (E) N 41 E
3 m

Dredge } No. 5635 Date, Dec. 3d, 1909.

Sdg. Mch. Lucas Reel Lucas Shot 60 lbs.

Turns 400 Cor'n - Depth 400 fms.

Sdg. Cup Lucas Amt. Bot'm Sample No trace in Sdg. cup

Character of Bottom Mud (Glo R and some stone in net).

Thermom. { Make - Cor'n { Instr. - No. - Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 83° Time 9:52 a. } Air { 82.5° 83° Time 9:52 a. }

Density: Surf. - fms. -

Wind: Direction SE by E Force 2-3

Baromet. 29.81 Amt. of Clouds 8 State of Sea S

Weather Fog.

Direction and Force of Current { Surface - Bottom -

Tide -

General Locality Pitt Passage.

Grounds Id. (H) N 84 W - Same (or) N 14 W

Position 1° 53' 30" S - 127° 03' 9" E.

Chart used: No. 942 B A Ed'n -

Drift: Direction SSE Distance 0.5 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz. 2 glass floats; 2 wing- and 1 tail weight.

Time towing - h. 5 m.

Remarks: 1 sample of Stomach lead particles and latter bot. No trace in Sdg. cup. - Accumulator registered 4 1/2 tons when began heaving in, bot. 3 1/2 and 3 up to 400 fms.; then 2, lessening gradually to 1 3/4 at surface. Wire about perpendicular from 500 fms. and up. Both bridle stops

Deck Officer Mr. Rehange Recorder Arukit -

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
9 22 00	9 28 25		0	9 31 30	10 30 00	
21 00	27 30		100	35 10	26 20	
21 55	26 35		200	39 15	22 30	
22 50	25 40		300	43 00	18 50	
9 23 45	9 24 35		400	47 00	15 00	
			500	50 40	09 20	
			600	9 56 00	10 01 00	
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			2100			
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			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

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Gomomo (E) R 14 W

2.5 m

→ casing away from slightly bent. check
 cloth pocket of net torn! Several
 5ml. holes in net.

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. DOWN.		UP.		FMS.	M. DOWN.		UP.	
<i>A.</i>		<i>A.</i>	<i>M.</i>		<i>P.</i>		<i>P.</i>	<i>M.</i>
11	39 10	12	04 30	0	12	06 50	2	51 20
	40 05		03 35	100		11 20		48 05
	41 00		02 50	200		15 05		44 45
	41 55		02 00	300		19 15		41 30
	42 50		01 15	400		23 40		38 15
	43 45	12	00 30	500		26 10		34 50
	44 40		59 25	600		29 50		31 20
	45 40		58 45	700		33 05		27 45
	46 45		57 55	800		36 55		24 15
	47 50		57 00	900		40 50		20 45
	49 00		56 05	1000		44 35		17 10
	50 00		55 00	1100		48 30		13 30
	51 05		54 00	1200		52 15		10 00
11	51 45	11	53 05	1300		55 30		06 20
				1400		59 15		02 30
				1500	1	03 00		58 20
				1600		06 10		54 50
				1700		09 20		49 10
				1800		12 40		44 20
				1900	1	18 30	1	39 00
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Somono I (E) 12/16 (M)

6 m

Dredge } No. 5637 Date, Dec. 10th, 1909

Sdg. Mch. Lucas Reel S Shot } 60 lbs.
Lead }

Turns 700 Cor'n - Depth 700 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 2 g.

Character of Bottom gy M

Thermom. { Make - Cor'n { Instr. -
No. - Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 83° Time 8 am } Air { 70°
83° Time 8:10 a } 79.5°

Density: Surf. - fms. -

Wind: Direction NW Force 2

Baromet. 29.87 Amt. of Clouds 10 State of Sea S

Weather om

Direction and Force of Current { Surface -
Bottom -

Tide -

General Locality Molucca Sea

Uti I (E. I.) N 9 W - Amblan I (N. I.) N 80 E

Position 3° 53' 20" S - 126° 48' E

Chart used: No. 942ⁿ B. A. Ed'n -

Drift: Direction S 21 W Distance 1.3 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz; 2 glass floats; 2 wing weights; 1 tail weight.

Time towing - h. 12 m.

Remarks: Net fouled on bottom at 8:09, accumulator registered 3, and commenced to leave in

Deck Officer M. N. Johnson Recorder H. W. Oiler
T. R. Hazard

SOUNDING WIRE.			FMS.	DREDGING CABLE.								
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.						
6	59	45	7	13	35	0	7	16	00	8	57	30
7	00	30		14	55	100		20	00		58	15
	01	35		15	05	200		23	30		44	50
	02	30		11	20	300		27	00		41	10
	03	30		10	35	400		30	55		37	10
	04	35		09	50	500		34	30		33	10
	05	45		09	00	600		38	05		29	10
7	06	45	7	07	50	700		42	00		25	00
						800		45	30		21	45
						900		49	10		18	20
						1000		53	05		14	40
						1100		57	00	8	09	05
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

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Ambland (a) No 8 E

21 m.

Dredge } No. 4985- ✓ Date, Dec 10, 1909
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Lead }

Turns 198 Cor'n ~ Depth 198 fms.

Sdg. Cup Lucas Amt. Bot'm Sample None

Character of Bottom No Spec.

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality Tulu Bay Entrance (inter.) 27° E.
Buru Id. (Star) S 74° E.; Molucca Sea

Position 3° 46' 15" S.; 126° 24' 40" E

Chart used: No. 742 B.C. Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer Mr. Rohangi Recorder C. H. Long

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		M. Down.	Up.	M.
1.26 40		03 35	0			
29 50		32 45	100			
1 30 40		1 31 50	198			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

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Tifu Bay entrance (N) (R & E)

2.2 m

Dredge } No. 5638 Date, Dec 10, 1909
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 60 lbs.

Turns 517 Cor'n _____ Depth 517 fms.

Sdg. Cup Lucas Amt. Bot'm Sample plentiful

Character of Bottom gy. fine s.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 86° Time 2:35 } Air { 84°
 { 85° Time 2:58 } { 84°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 1-2

Baromet. 29.82 Amt. of Clouds 9 State of Sea 2

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Tigr Bay Entrance, (W) 21.17 E

Besue Id (S. of. tab) 21.55' N; Molucca Sea

Position 3°47'15" S, 126°23'40" E

Chart used: No. 942 B.A. Ed'n _____

Drift: Direction S 75° E. Distance 1.0 mi

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 2 glass floats, 2 wing weights, 1 tail weight.

Time towing h. 20 m.

Remarks: Bridle stop carried away after net had been hoisted. Dirty little in net to cause same.

Deck Officer Mrs. Robinson Recorder C. H. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P.	M. Down.	Up.	P. M.		P.	M. Down.	Up.	P. M.
1	55 00	2	05 20	0	2	07 50	3	22 00
	56 00		04 30	100		12 00		18 30
	57 00		03 40	200		16 10		15 00
	58 00		02 50	300		19 25		11 30
	59 00		02 00	400		23 00		07 50
2	00 00		01 10	500		26 30		04 00
2	00 10	2	01 00	517	600	31 10	3	00 00
				700	2	36 00	2	56 00
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

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Tifu Bay entrance (W) 217 E

3.2 m

✓

Dredge } No. 5639 Date, Dec 13th, 1909.
Hydrog. }
Sdg. Mch. Lucas Reel L Shot/Lead 60 lbs.
Turns 1560 Cor'n Depth 1560 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 3 oz
Character of Bottom Gy. M

Thermom. { Make — Cor'n { Instr. —
 { No. — { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 84 Time 7:11 A } Air { 82
 { 84° Time 7:43 A } { 82°

Density: Surf. — fms. —

Wind: Direction Variable Force 1-

Baromet. 30.84 Amt. of Clouds 7 State of Sea S

Weather haz.

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality Toluca Sea.

Worwin I (E) S 42 W - Tamin I (E) N 36 W

Position 3° 54' 50" S - 123° 27' 20" E.

Chart used: No. 3616 BA Ed'n May/07

Drift: Direction N 36 W - Distance 0.8 m.

Depth of Haul Bottom.

Apparatus and Rig used 9' Agassiz (reversible)
1 tail weight.

Time towing — h. 31 m.

Remarks:

Deck Officer Mr. Johnson Recorder H. W. Early
Mr. Hazard J. R. Hill

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
5 04 50	5 40 20		0	5 55 30	9 35 25	
05 45	39 20		100	58 30	50 30	
06 43	38 25		200	6 03 50	26 20	
07 45	37 30		300	07 50	27 25	
08 50	36 30		400	11 30	18 50	
09 55	35 35		500	15 05	15 35	
11 05	34 40		600	18 30	12 00	
12 05	33 45		700	21 40	08 15	
13 15	32 45		800	25 00	9 03 50	
14 23	31 35		900	28 20	59 25	
15 40	31 00		1000	31 30	54 50	
16 55	30 20		1100	34 40	50 25	
18 05	29 25		1200	37 45	46 00	
19 25	28 30		1300	40 50	41 30	
20 45	27 40		1400	44 20	36 10	
22 05	26 40		1500	47 40	29 55	
5 23 15	5 25 50	15 15	1600	50 50	24 50	
			1700	53 30	20 05	
			1800	56 20	15 05	
			1900	59 30	09 50	
			2000	7 02 40	8 04 00	
			2100	05 30	58 00	
			2200	08 15	51 25	
			2300	7 11 00	7 42 30	
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Howoni d (C) 142 m

16 m

✓

Dredge } No. 5540 Date, Dec 13, 1909
Hydrog. }
Sdg. Mch. Tanner Reel T.M. Shot/Lead 35 lbs.
Turns 26 Cor'n - 2 Depth 24 fms.
Sdg. Cup yellow mud Amt. Bot'm Sample
Character of Bottom S, bk. sh.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 5:10 } Air { 84°
 { 84° Time 5:22 } { 84°

Density: Surf. _____ fms. _____

Wind: Direction _____ Force 0

Baromet. 29.50 Amt. of Clouds 9 State of Sea 2

Weather by _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Sabuan Blanda Id N 88° E;
Tarong Loba, S 31° W., Butous It.

Position 4° 27' 00" S; 122° 55' 40" E

Chart used: No. 3470 B.A. Ed'n Apr/06

Drift: Direction N. 52° W Distance 2.5 mi

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 2
glass floats, 2 sink weights
1 tail weight.

Time towing _____ h. 12 m.

Remarks: _____

Deck Officer Mr. Johnson Recorder C. B. DeLong

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. DOWN.	UP.	P. M.		P. M. DOWN.	UP.	P. M.
5-02-50	5-02-45		0	5-05-00	5-20-10	
5-02-50	5-03-10	26	100 ⁵⁰	5-10-50	5-22-50	
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1800			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Labuan Blanda I n 886°

1 m

Dredge } No. 5641 Date, Dec 14th, 1929
Hydrog. }

Sdg. Mch. Tanner Reel TN Shot Leads 35 lbs.

Turns 45 Cor'n _____ Depth 39 fms.

Sdg. Cup Arming Amt. Bot'm Sample Trace

Character of Bottom S+S shell

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 9:42 A } Air { 83°
 { 84° Time 9:59 A } { 83½°

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1-2

Baromet. 29.90 Amt. of Clouds 6 State of Sea S

Weather haz

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Buton Straits, S. I. I. I.

Kalons Pt. (W). N 61 W. Tawo

Position Lat. 40° 29' 24" S Long. 122° 53' 30" W

Chart used: No. 3470 BA Ed'n _____

Drift: Direction S 81 W Distance 0.6

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz, 2 wing weights, 1 tail weight, 2 glass floats.

Time towing h. 17 m.

Remarks: _____

Deck Officer M. H. Hazard Recorder H. H. H.

SOUNDING WIRE.

A M. Down. | Up. | *A* M.

9 29 45 | 9 32 30

9 30 10 | 9 31 00

FMS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
~~2400~~
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

A M. Down. | Up. | *A* M.

9 36 45 | 10 02 15

9 41 20 | 9 54 20

52

Towarp. E coast ~~N 186~~ N 186

Kalono Pt (N) N 61 W

3, 4 m

Dredge } No. 5642 Date, Dec. 14th, 1909.
Hydrog. }

Sdg. Mch. Tanner Reel TN Shot 35 lbs.
Lead

Turns 43 Cor'n Depth 37 fms.

Sdg. Cup Arming Amt. Bot'm Sample Trace

Character of Bottom Gy mud

Thermom. { Make Cor'n { Instr.
 { No. { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 85° Time 11:10 A } Air { 84 1/2°
 { 85° Time 11:18 A } { 84 1/2°

Density: Surf. fms.

Wind: Direction Variable Force 1-2

Baromet. 29.89 Amt. of Clouds 6 State of Sea S

Weather bez

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality Buton Straits, Sulu.

Tilsola nTan. N. 38W. Tilsola 18

Position Lat. 4°31'40" S Long 123°49'44" E

Chart used: No. 3470 B A Ed'n

Drift: Direction N 75 W Distance 1.4

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 17 m.

Remarks:

Deck Officer Mr. Hazard Recorder [Signature]

SOUNDING WIRE.

A. M. Down. Up. A. M.

FMS.

DREDGING CABLE.

A. M. Down. Up. A. M.

10 50 15 10 52 20
10 50 50 10 51 100
38 10010 56 00 11 23 00
11 00 30 11 18 00

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

tan) west.

Tikola (n) n 38h

6.5 m

Dredge } No. 5643 Date, Dec 15, 1907
Hydrog. }
Sdg. Mch. Lucas Reel L Shot 60 lbs.
Lead
Turns 715 Cor'n - Depth 715 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 1 1/2 g
Character of Bottom gn M

Thermom. { Make - Cor'n { Instr. -
No. - Stem. -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 84° Time 4:00 } Air { 82°
84° Time 4:26 } 83.50

Density: Surf. fms.

Wind: Direction Variable Force 2

Baromet. 29.81 Amt. of Clouds 8 State of Sea S

Weather Bczp

Direction and Force of Current { Surface
Bottom

Tide

General Locality Buton Straits Celebes.

W.T. E of Gosong Gulaga N 32 E - Perdek

Position 5° 11' 45" S - 122° 42' 36" E.

Chart used: No. 3470 B.A. Ed'n -

Drift: Direction S 45 W Distance 0.7 m.

Depth of Haul Bottom N.R.

Apparatus and Rig used 12' Agassiz trawl; 2 glass floats; 2 wing weights; 1 tail weight.

Time towing - h. 17 m.

Remarks:

Deck Officer Mr. Johnson Recorder Aritki
Mr. Hazard

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.		Up.	M.	FMS.	M. Down.		Up.	M.
3	40 30	3	47 00		0	3	52 10	4
	41 25		46 00	100		56 30		34 05
	42 25		45 00	200	4	00 10		30 50
3	42 30	3	44 55	215		04 30		27 20
				350	4	06 40	4	25 00
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

57
 7 E (NT) S 77 E.

Pendek (a) S 77 E

1.7 m

Dredge } No. 4644 Date, Dec 16, 1909
Hydrog. }

Sdg. Mch. Hand line Reel Shot/Lead lbs.

Turns Cor'n Depth 22 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 52° Time 8:02 } Air { 50°
52° Time 8:15 } 50°

Density: Surf. fms.

Wind: Direction Force 0

Baromet. 29.90 Amt. of Clouds / State of Sea 2

Weather haze

Direction and Force of Current { Surface Bottom

Tide

General Locality Makassar Id (E tan) N. 4° E.

Tanjong Pangala N 74 W; Butou Id.

Position 5° 27' 24" S. 122° 38' 00" E

Chart used: No. 3470 B.R. Ed'n

Drift: Direction S 81° W Distance .4 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 2 glass floats, 1 tail weight, 2 wing weights

Time towing h. 11 m.

Remarks:

Deck Officer Mr. Johnson Recorder C. E. Delong

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.	A. M. Down.		Up.	A. M.	
				0	8 00 00	8 15 00	
				50 100	8 02 00	8 13 00	
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

58

Makassar I (E) R 46
1,3 m

Dredge } No. 5345 ✓ Date, Dec 6, 1909
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Lead }
Turns 206 Cor'n _____ Depth 206 fms.
Sdg. Cup Lucas Amt. Bot'm Sample No. Spec

Character of Bottom _____
Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83° Time 9:45 } Air { 79°
 { 80° Time 9:55 } { 79°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 1-3

Baromet. 29.92 Amt. of Clouds 8-9 State of Sea S

Weather haze

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Buton Pt (off Buton) N 75° E

North Id (N.E. cor) S 10° W; Buton Id.

Position 5° 29' 06" S; 122° 32' 06" E

Chart used: No. 3470 BA Ed'n

Drift: Direction N 34° W Distance 7 mi.

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 1 1/2 m.

Remarks: _____

Deck Officer Mr. Johnson Recorder C. H. Long

SOUNDING WIRE.					FMS.	DREDGING CABLE.							
A. M. Down.		Up.		A. M.		A. M. Down.		Up.		A. M.			
9	35	25	9	39	50	0	9	41	00	10	08	35	
	36	10		39	00	100		45	30		04	25	
	37	20		38	00	200		49	00	10	01	00	
9	37	25	9	37	55	206	900	51	55		57	25	
						350	400	9	54	00	9	55	20
						500							
						600							
						700							
						800							
						900							
						1000							
						1100							
						1200							
						1300							
						1400							
						1500							
						1600							
						1700							
						1800							
						1900							
						2000							
						2100							
						2200							
						2300							
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						2500							
						2600							
						2700							
						2800							
						2900							
						3000							
						3100							
						3200							
						3300							
						3400							
						3500							
						3600							
						3700							
						3800							
						3900							
						4000							
						4100							
						4200							
						4300							
						4400							
						4500							
						4600							
						4700							
						4800							
						4900							

59

North I (N.E.) S 10 W
1.6

Dredge } No. 5646 Date, Dec 16, 1909
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Lead }
Turns 456 Cor'n _____ Depth 456 fms.
Sdg. Cup Lucas Amt. Bot'm Sample plentiful
Character of Bottom gn. M.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83° Time 11:45 A } Air { 79°
 { 83° Time 12:30 P } { 80°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 0-1

Baromet. 29.58 Amt. of Clouds 7 State of Sea 2

Weather bz

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Buton Straits, Southern C. I.
S.E. tip west side Wobaldale Bay

Position Lat. 5° 31' 30" S Long. 122° 22' 40"

Chart used: No. 3816BA Ed'n May 07

Drift: Direction East Distance 1.1

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 20 m.

Remarks:

Deck Officer M. Johnson Recorder C. E. ...

M. Hazard H. W. ...

SOUNDING WIRE.

DREDGING CABLE.

M. Down.		Up.	P. M.	
----------	--	-----	-------	--

FMS.

M. Down.		Up.	P. M.	
----------	--	-----	-------	--

11 32 05 11 41 00

0

11 43 45 12 56 00

33 00 43 05

100

48 05 52 30

35 05 39 20

200

51 05 49 00

37 50 38 40

300

54 50 45 20

35 45 37 05

400

58 20 41 50

11 26 20 11 37 20 45 500

500

12 02 00 38 30

600

06 20 34 30

700

12 10 10 12 30 10

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

4900

60

France.

N 37 E. north Id (S) 868 E.

North Id (S)

868 E

7.5 m

✓

Dredge } No. 5647 Date, December 16th, 1909
Hydrog. }
Sdg. Mch. Lucas Reel S Shot 60 lbs
Leads }
Turns 519 Cor'n Depth 519 fms.
Sdg. Cup Lucas Amt. Bot'm Sample Plentiful
Character of Bottom Gn M

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83° Time 2.44 hr } Air { 83°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction W S W Force 3, -

Baromet. 29.82 Amt. of Clouds 7 State of Sea S.

Weather hazy.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Buton Straits; Southern Entrance

Tiquita Muna Id. N. 13 W. North Id

Position Lat. 5° 34' 00" S Long. 129° 18' 15"

Chart used: No. 3616 Ed'n _____

Drift: Direction S. 40 E Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Hazard Recorder H. W. Crider

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P. M. Down.	Up.	P. M.	P. M. Down.		Up.	P. M.		
2	03 10	2	13 20	0	2	16 00	3	34 00
	04 00		12 25	100		20 00		30 20
	04 45		11 40	200		24 00		27 00
	05 30		10 50	300		26 50		23 40
	06 20		09 55	400		30 15		20 10
	07 20		09 00	500		33 35		16 30
2	07 30	2	08 40	519		36 50		12 50
				600		40 30		08 50
				700				
				800	2	44 00	3	04 15
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

61

(stan) 887 E.

North I (S)

887 E

N. 6 m

Dredge } No. 5648 Date, Dec 16, 1909
Hydrog. }

Sdg. Mch. Lucas Reel L. Shot/Lead 60 lbs.

Turns 557 Cor'n - Depth 557 fms.

Sdg. Cup Lucas Amt. Bot'm Sample Plentiful

Character of Bottom gn. M

Thermom. { Make T3 Cor'n { Instr. -1.8
 { No. 92744 { Stem.

Bottom Reading 40° Cor'd Temp. 39.2

Temp. Surf. { 82° Time 4:30p } Air { 83.3°
 { 83° Time 4:54p } { 83.3°

Density: Surf. _____ fms.

Wind: Direction WSW Force 3

Baromet. 29.79 Amt. of Clouds 6 State of Sea S

Weather fog

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Gulf of Boni
Tg Wita Taha Id N 18 W - North Id

Position 5° 35' S - 122° 20' E.

Chart used: No. 3616 BA Ed'n -

Drift: Direction S 55 E. Distance 0.8 m.

Depth of Haul Bottom

Apparatus and Rig used as before

Time towing - h. 23 m.

Remarks:

Deck Officer Mr. Hazard Recorder H W Coiler
 Mr. Arkhoye Frank

SOUNDING WIRE.

SOUNDING WIRE.			DREDGING CABLE.							
Ⓟ	M. Down.	Up.	Ⓟ	M.	FMS.	Ⓟ	M. Down.	Up.	Ⓟ	M.
3	42 50	3 53 30			0	3	56 20	5 26 00		
	43 40	52 45			100	4	00 20	21 40		
	44 30	52 00			200		04 15	18 05		
	45 15	51 10			300		07 20	14 25		
	46 05	50 20			400		10 40	10 50		
	47 00	49 30			500		14 10	07 10		
3	47 35	3 48 45	559	600	600		17 40	5 03 03		
					700		21 30	59 55		
					800		25 40	55 55		
					875	900	4 29 45	4 52 20		
					1000					
					1100					
					1200					
					1300					
					1400					
					1500					
					1600					
					1700					
					1800					
					1900					
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					3000					
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					3200					
					3300					
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					3500					
					3600					
					3700					
					3800					
					3900					
					4000					
					4100					
					4200					
					4300					
					4400					
					4500					
					4600					
					4700					
					4800					
					4900					

DREDGING CABLE.

3	42 50	3 53 30			0	3	56 20	5 26 00		
	43 40	52 45			100	4	00 20	21 40		
	44 30	52 00			200		04 15	18 05		
	45 15	51 10			300		07 20	14 25		
	46 05	50 20			400		10 40	10 50		
	47 00	49 30			500		14 10	07 10		
3	47 35	3 48 45	559	600	600		17 40	5 03 03		
					700		21 30	59 55		
					800		25 40	55 55		
					875	900	4 29 45	4 52 20		

62

(Stary) N 87 E.

North I (S)

N 87 E

10.2

Dredge } No. 5649 Date, Dec 16, 1909
Hydrog. }

Sdg. Mch. — Reel — Shot/Lead — lbs.

Turns — Cor'n — Depth — fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom —

Thermom. { Make — Cor'n { Instr. —
 { No. — { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83° Time 7:25 } Air { 83°
 { 83° Time 7:45 } { 83°

Density: Surf. — fms. —

Wind: Direction West Force 3

Baromet. 29.83 Amt. of Clouds 5 State of Sea S

Weather Clear

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality Gulf of Boni, Celebes

Position 5°36'S - 122°7'36"E

Chart used: No. 3616 BA Ed'n —

Drift: Direction — Distance —

Depth of Haul Surface, towing to 10 fms.

Apparatus and Rig used 10' Inter.; double cone.

Time towing — h. 21 m.

Remarks: No sds. taken. — No bearings obtainable; after dark.

Deck Officer Mr. Johnson Recorder Stratton

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			10 100	7 22 15	3	44 40
			200	7 23 00	3	44 00
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
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			2800			
			2900			
			3000			
			3100			
			3200			
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			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

63

North 2 (5) 2870

22.0

Dredge } No. 5-65-0 Date, Dec 17, 1909
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 60 lbs.

Turns 540 Cor'n _____ Depth 540 fms.

Sdg. Cup Lucas Amt. Bot'm Sample Nets full

Character of Bottom gy. M.

Thermom. { Make N.P. Cor'n { Instr. - 8
 { No. 98244 { Stem.

Bottom Reading 40.9° Cor'd Temp. 40.1

Temp. Surf. { 84° Time 8:46 } Air { 84°
 { 84 Time 9:30 } { 85°

Density: Surf. _____ fms.

Wind: Direction Calm Force 0

Baromet. 29.91 Amt. of Clouds 7 State of Sea S

Weather Sgtp

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality 7/2 Lamulu 95° W;

7/2 Biginkali 781° E.; Gulf of Boni

Position 4° 5' 3" 45" S. 121° 29' 00" E.

Chart used: No. 3616 B.A. Ed'n

Drift: Direction S 45° W. Distance 7 mi.

Depth of Haul _____

Apparatus and Rig used 12' Agassiz, N.R., 2 glass floats, 2 wing weights, 1 tail weight

Time towing h. 10 m.

Remarks: Both bridle stops carried away. Cu. registered 2 tons at surface, net no water.

Deck Officer Mrs. Hazard Recorder C.E. DeLong

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A.M. Down. Up. A.M.

A.M. Down. Up. A.M.

8	30	40	8	40	35
	37	30		40	00
	32	15		39	20
	32	55		38	35
	33	40		37	50
	34	25		37	00
8	34	45	8	36	40

8	42	30	10	03	05
	46	45		05	55
	49	55		05	40
	53	00		05	05
	56	15		47	40
	59	20		43	55
9	02	40		39	10
	05	50		35	15
	09	10		31	20
9	12	55	9	23	40
	12	00		23	10

x 909

1100
1200

Overed wire out to 909 fath on account of heavy strain on wire. Accumulator register red over 5 times.

6666

66

Tg Lamula

12.5 m

4900

Dredge } No. 5651 Date, Dec. 17th, 1909.

Sdg. Mch. Lucas Reel 2 Shot head 60 lbs.

Turns 700 Cor'n Depth 700 fms.

Sdg. Cup Lucas Amt. Bot'm Sample None

Character of Bottom Gm M (in trawl)

Thermom. { Make M.G. Cor'n { Instr. -1.8
 { No. 98214 { Stem.

Bottom Reading 39.5^o Cor'd Temp. 38.7

Temp. Surf. { 84^o Time 2:27 P } Air { 84^{1/2}^o
 { 84^o Time 2:53 P } { 84^o

Density: Surf. fms.

Wind: Direction n.n.w Force 1-2

Baromet. 29.83 Amt. of Clouds .8 State of Sea S

Weather fog.

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality Gulf of Boni, Celebes.

Site Lambasina Id (mid) n.w. Tg Bugin

Position Lat. 4^o43'50" S Long 121^o23'24"

Chart used: No. 3616 Ed'n

Drift: Direction n.11w Distance 2.9

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz; 2 wing weights, 1 tail weight, 2 glass floats.

Time towing h. 40 m.

Remarks: Sounding cup carried away.

Deck Officer Mr. Rehange Recorder G.W. Under

SOUNDING WIRE.				FMS.	DREDGING CABLE.							
P.M. Down.		Up. P.M.			P.M. Down.		Up. P.M.					
1	33	10	1	47	00	0	1	53	30	3	25	00
	34	00		46	00	100		57	50		21	40
	35	00		45	20	200	2	01	35		18	40
	36	00		44	30	300		04	50		15	40
	36	55		43	40	400		08	05		12	40
	37	55		42	45	500		11	10		09	40
	38	50		41	50	600		14	45		06	35
1	39	50	1	40	50	700		18	35		03	30
						800		22	20	3	00	30
						900		25	55		57	00
						1000	*2	32	50	2	52	50
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
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						2800						
						2900						
						3000						
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						3200						
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						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

* Towed 2 min
at 910 fms.

67

Buginkali S67E

7g Buginkali S67E

25 m

✓

Dredge } No. 5652 Date, Dec 17, 1909
 Hydrog. }
 Sdg. Mch. Lucas Reel L Shot Lead 60 lbs.
 Turns 525 Cor'n - Depth 525 fms.
 Sdg. Cup Lucas Amt. Bot'm Sample 1 1/2 oz.
 Character of Bottom gy. M. S.
 Thermom. { Make T.R. Cor'n { Instr. - P
 { No. 98244 { Stem.
 Bottom Reading 42° Cor'd Temp. 41.2
 Temp. Surf. { 84° Time 5:25 P. } Air { 84°
 { 83° Time 5:54 P. } { 83.3°
 Density: Surf. _____ fms.
 Wind: Direction N 3/4 W Force 1
 Baromet. 29.79 Amt. of Clouds 7 State of Sea S
 Weather haze
 Direction and Force of Current { Surface _____
 { Bottom _____
 Tide _____

General Locality Gulf of Boni, Celebes.

Tg Lamulu S 36 E - Tg Parker

Position 4° 35' S - 121° 23' 06" E.

Chart used: No. 3616 B.A. Ed'n -

Drift: Direction N 61 W Distance 2.1 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz NR trawl,
 2 floats; 2 wing weights; 1 tail wt.

Time towing - h. 20 m.

Remarks:

Deck Officer J. F. Johnson Recorder (Aruti)

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P.	M. DOWN.	UP.	P. M.		P.	M. DOWN.	UP.	P. M.
4	33 50	4	45 10	0	4	50 00	6	13 00
	34 50		44 15	100		54 10		09 15
	35 50		43 30	200		57 35		06 00
	36 45		42 35	300	5	01 25	6	02 50
	37 45		41 45	400		04 40		59 40
	38 45		40 45	500		08 00		56 40
4	39 00	4	40 30	525		11 30		53 35
				700		15 10		50 00
				800		23 10		46 00
				825	5	24 10	5	44 10
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

68

N 22 E

4 g. Sample
 536 G
 7.5 m

Dredge } No. 5653 ✓ Date, Dec 17, 1907
Hydrog. }

Sdg. Mch. — Reel — Shot/Lead — lbs.

Turns — Cor'n — Depth — fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom —

Thermom. { Make — Cor'n { Instr. —
 { No. — { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 82° Time 7:30p } Air { 82°
 { 82° Time " } { 82°

Density: Surf. — fms. —

Wind: Direction West Force 2

Baromet. 29.85 Amt. of Clouds 9 State of Sea S

Weather few

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality Gulf of Bonin, Celebes

Position 4° 27' 36" S - 121° 16' 36" E.

Chart used: No. 3616 BA Ed'n —

Drift: Direction — Distance —

Depth of Haul Surface.

Apparatus and Rig used 10' Inter, double
Cone.

Time towing h. m.

Remarks: No sag. Surface tow;
10 fms. wire out. No bottom
obtainable.

Deck Officer Mr. Hazard Recorder A. Antik

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100	7	22007	4400
			200	7	23007	4300
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

69

Tg Lamshu

S40 E

18 m

Dredge } No. 5654 Date, Dec 14, 1909
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot Load 60 lbs.
Turns 805 Cor'n --- Depth 805 fms.
Sdg. Cup Lucas Amt. Bot'm Sample
Character of Bottom

Thermom. { Make A.G. Instr. - .8
 { No. 98244 Cor'n { Stem.

Bottom Reading 39.1° Cor'd Temp. 38.3

Temp. Surf. { 83° Time 6:10 } Air { 79°
 { 83 Time 7:15 A } { 82°

Density: Surf. --- fms.

Wind: Direction Various Force 0-1

Baromet. 29.85 Amt. of Clouds 3-4 State of Sea 2

Weather bcz

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality Tg Talaka N 17° E; Tg Blungie
S 66° E; Gulf of Boni, Celebes.

Position 3° 42' 00" S; 120° 45' 50" E.

Chart used: No. 3616 B.A. Ed'n

Drift: Direction 91° W Distance 2.0 mi.

Depth of Haul

Apparatus and Rig used 12' Agassiz N.R., 2 glass floats, 2 wing weights, 1 tail weight.

Time towing h. 28 m.

Remarks:

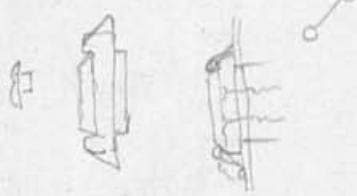
Deck Officer Mr Hazard Recorder C. C. Hedberg
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A.M. Down.	Up.	A.M.		A.M. Down.	Up.	A.M.
5-33 46	5-49	30	0	5-55 40	7	5-8 10
34 20	48	30	100	6 01 15		5-4 40
35 25	47	40	200	06 20		5-1 30
36 15	46	55	300	10 35		48 25
37 15	46	10	400	15 00		45 10
38 05	45	20	500	18 20		41 50
39 50	44	30	600	21 50		38 10
40 30	43	30	700	25 10		34 25
41 10	42	25	800	28 35		30 45
5-41 15	5-42	15	865 900	32 10		27 15
			1000	40 10		23 20
			1100	44 50		19 40
			1200	6 47 15	7	15 15
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
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			3900			
			4000			
			4100			
			4200			
			4300			
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			4600			
			4700			
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			4900			

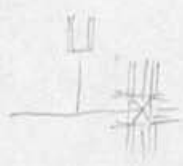
70

217 G
 21.5
 Tg Tabako

$$\begin{array}{r}
 12.61.55 \\
 11.54.25 \\
 \hline
 7.301.2 \\
 \quad \quad \quad 3.65 \\
 \quad \quad \quad \frac{13}{12} \\
 \quad \quad \quad \frac{10}{10}
 \end{array}$$



$$\begin{array}{r}
 11.54.25 \\
 \quad 3.32 \\
 \hline
 57.55
 \end{array}$$



25.00
06.40

17.20

52.00
29.45

22.55

1.	LINE
176	40
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165	132
160	129
155	128
150	121
145	118
140	114
135	110
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125	103
120	99
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