

No. 7.

From D. 5346 to 5384⁶

From H. 4923 to 49

507

Dredge } No. 5346 Date, Dec 26, 1908
Hydrog. }

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

Turns _____ Cor'n _____ Depth 7 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. { 80 Time 10:15 a. } Air { 81°
 { 80 Time 10:30 a. } { 81°

Density: Surf. _____ fms. _____

Wind: Direction NE Force 1-2

Baromet. 29.89 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Malampaya Id. Palawan

Cliff 2 (mid) S 36 E. Peak 589 W

Position 10-50-30N - 119-22-20E

Chart used: No. 4349 Ed'n _____

Drift: Direction S 72 E Distance 1.0

Depth of Haul bottom

Apparatus and Rig used 9 fathoms glass floats
2 wing wts, 1 tail wt.

Time towing _____ h. 10 m.

Remarks: _____

Deck Officer Mr. Rohang Recorder Roberts

SOUNDING WIRE.				FMS.	DREDGING CABLE.					
M. Down.	Up.	M.			A.M. Down.	Up.	A.M.			
				0	10	14	30	10	35	20
				80						
				100	10	18	00	10	28	20
				200						
				300						
				400						
				500						
				600						
				700						
				800						
				900						
				1000						
				1100						
				1200						
				1300						
				1400						
				1500						
				1600						
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				2600						
				2700						
				2800						
				2900						
				3000						
				3100						
				3200						
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				4800						
				4900						

22-24

Dredge } No. 5347 Date, Dec 26, 1908

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

Turns Cor'n Depth 5-4 3/4 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. { 81 Time 10:55a } Air { 81 Time

Density: Surf. fms.

Wind: Direction N.E. Force 2

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

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Malampaya Ad. Palayan

Cliff 2. (on) S 26 E Peaked 2. (end) S 84 W

Position 10-50-44 N - 119-23-09 E

Chart used: No. 4349 Ed'n

Drift: Direction N 36 E Distance .5

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 10 m.

Remarks:

Deck Officer Mr. Bohange Recorder Roberts

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

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

0

~~50~~~~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

10 54 40 11 12 15

10 58 00 11 08 05

50-40 - 73.06

Dredge } No. 4973. Date, Dec. 27, 1908.
Hydrog. }
Sdg. Mch. T.S. Reel T.S. Shot 20 lbs.
Lead }
Turns 57 Cor'n — Depth 57 fms.
Sdg. Cup Arming Amt. Bot'm Sample Arming covered
Character of Bottom G.S.

Thermom. { Make } none used 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 China Sea, W. coast Palawan.

Manimbalao Id (W), S 41 E, Tapintan Id (N), N 39 E.

Position 10° 57' 15" N - 119° 1' 00" E.

Chart used: No. 4716 Ed'n —

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Pohange Recorder Armit

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

6 32 00 6 34 05
 6 32 20 6 32 22

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

32-30

-01-06



Dredge } No. 4924 Date, Dec. 27, 1908.
Hydrog. }
Sdg. Mch. T. N. Reel T. N. Shot Lead 20 lbs.
Turns 62 Cor'n - Depth 62 fms.
Sdg. Cup arming Amt. Bot'm Sample Trace
Character of Bottom Sandy.

Thermom. { Make } none used . 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 China Sea, W. coast Palawan Is.

Bold's Is, Bragan I., S 28 E - Tasintan I (N), N 42 E

Position 10° 57' 00" N - 118° 55' 45" E

Chart used: No. 4716 Ed'n -

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Bohan Recorder A. T. Wil -
11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. A. M.

M. Down. Up. M.

7 08 50 7 11 40

7 09 30 7 09 30

62 100

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

56-30

56-00

Hydrog. No. 4925 Date, Dec 27, 1908.

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

Turns 184 Cor'n — Depth 184 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample about 1 oz.

Character of Bottom fine Co. S.

Thermom. { Make N. J. Cor'n { Instr. No. 125022 Stem.

Bottom Reading Did not work 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 China Sea, West Coast Palawan Bold Head, Braganza Id.

Position 10° 28' 15" N. 115° 47' 15" E.

Chart used: No. 4716 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: Water bottle used. This failed to trip.

Deck Officer Mr. Johnson Recorder C. E. [Signature]

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A. M. Down.		Up. A. M.		FMS.	DREDGING CABLE.		
					M. Down.	Up.	M.
8	02 35	8	08 00	0			
8	03 35	8	06 45	100			
8	04 40	8	05 30	184 200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
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				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
57-15		48-00		2700			
				2800			
				2900			
				3000			
				3100			
				3200			
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				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

✓ 850 bottom ✓

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
9 22 30	9 33	10	0	9 37 30	11 07	10
9 24 30	9 31 55		100	9 41 15	11 03	30
9 25 35	9 30 55		200	9 44 50	10 59	50
9 26 45	9 29 40		300	9 47 55	10 56	00
9 27 55	9 28 35	375	400	9 51 00	10 52	05
			500	9 55 55	10 48	25
			600	9 57 00	10 44	40
			700	9 59 55	10 41	00
			800	10 02 50	10 36	50
			900	10 05 55	10 33	00
			1000	10 08 50	10 28	30
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
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			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.							
P. M. Down.		Up.	P. M.		A. M. Down.		Up.	A. M.				
12	32	45	48	25	0	12	52	00	3	00	00	
	35	45	47	25	100		56	15		56	50	
	55	00	46	45	200	1	00	10		52	30	
	36	10	46	00	300	1	04	05		49	00	
	37	20	45	10	400		07	20		45	20	
	38	30	44	20	500		10	10		42	00	
	39	35	43	30	600		12	50		38	35	
	40	50	42	35	700		15	35		35	05	
12	41	10	42	10	730	800	18	30		31	30	
					900		21	00		27	30	
					1000		23	35		23	35	
					1100		26	25		19	30	
					1200		29	10		15	40	
					1300		31	45		11	45	
					1400		34	20		08	05	
					1500		36	45		04	55	
					1600		1	40	00	2	00	00
					1700							
					1800							
					1900							
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					4100							
					4200							
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					4500							
					4600							
					4700							
					4800							
					4900							

Dredge } No. 5350 Date, Dec 27, 1908
Hydrog. }

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

Turns 515 Cor'n - Depth 515 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 1 g.

Character of Bottom gy. M.

Thermom. { Make N.Z. Cor'n { Instr. -
 { No. 108222 { Stem. -

Bottom Reading See remarks Cor'd Temp. -

Temp. Surf. { 80° Time 4:57 } Air { 82°
 { 80° Time 5:56 } { 82°

Density: Surf. 1.02381 { Stem fms. 1.02523

Wind: Direction N.E. Force 3-4

Baromet. 29.82 Amt. of Clouds 3 State of Sea S

Weather bc

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality China Sea W coast Palawan

No bearing, no land in sight.

Position 10°46'40"N - 118°29'00"E.

Chart used: No. 4716 Ed'n -

Drift: Direction S 85° W Distance 3.0

Depth of Haul Bottom.

Apparatus and Rig used As before.

Time towing - h. 27 m.

Remarks: Water bottle used at sdg. Thermo
fouled stayline and did not trip
- Towed 10 min. @ 1200 fms. wire
then reeled @ 1400 - this taking 7 min.
- and landed 10 min.; total 27 min.
towing.

Deck Officer Mr. R. K. Orange Recorder Frank -

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. DOWN.	UP.	P. M.		P. M. DOWN.	UP.	P. M.
4 04 00	4 16 00		0	4 19 30	6 20 00	
04 50	14 50		100	23 30	16 20	
06 05	14 00		200	27 00	13 00	
07 10	13 00		300	31 00	09 20	
08 15	12 00		400	33 50	05 45	
09 30	11 00		500	37 30	02 00	
4 09 55	4 10 50	5 15 00	500	39 30	58 00	
			700	42 30	54 00	
			800	45 30	49 50	
			900	48 00	45 40	
			1000	51 10	41 20	
			1100	54 20	36 45	
			1200	4 57 30	32 30	
			1300	5 11 00	28 30	
			1400	5 14 00	5 24 30	
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
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			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
<i>P</i> M. Down.	Up. <i>P</i>	<i>M</i> .			M. Down.	Up.	M.
8 03 40	8 07 00			0			
8 04 20	8 04 30			100			
				200			
				300			
<i>No bottom</i>				400			
<i>at 100 fath</i>				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
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				2100			
				2200			
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				2400			
				2500			
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				2700			
				2800			
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				3000			
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				3900			
				4000			
				4100			
				4200			
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				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 535-1 Date, Dec 27, 1928
Hydrog.

Sdg. Mch. Tanner Reel T.M. Shot 35 lbs.
Lead

Turns 50 Cor'n — Depth 60 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample plentiful

Character of Bottom Co. S.

Thermom. { Make None Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time 9:52 } Air { 81°
 { 80° Time 9:55 } { 81°

Density: Surf. fms.

Wind: Direction E Force 3

Baromet. 29.86 Amt. of Clouds 3 State of Sea S

Weather bc.

Direction and Force of Current { Surface Bottom

Tide

General Locality China Sea West Coast of Luzon Palawan

Position 10°-35' N 118°-30' E

Chart used: No. 4716 Ed'n

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used 12' Tanner, 1 sinker 80 lb,
2 trawling weights, 1 tail weight,
3 glass floats, 1 mud bag.

Time towing h. 2 m.

Remarks: Accumulator registered as high as 5 tons. Net & frame hanging by bridle, frame beam badly bent, and net torn to pieces.

Deck Officer Mrs. Hazard Recorder C. H. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P. M. Down.	Up.	P. M.			P. M. Down.	Up.	P. M.	
8	42 10	8	44 00	0	8	46 30	9	03 40
8	42 30	8	42 40	50-100	8	5-1 00	8	57 15
				200	8	5-2 30	8	5-4 30
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
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				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		A.M. Down.	Up.	A.M.
			0	6 15 45	6 40 05	
			100	6 18 00	6 38 00	
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
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			1500			
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			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.					
M. Down.		Up.	M.		M. Down.		Up.	M.		
6.	30	00		0	6	57	00	7	53	05
	31	00		100	7	00	20		53	10
6.	32	30	6 32 40 1/4	200		03	40		49	50
				300	7	06	45		46	40
				400	7	09	58		44	00
				500						
				600						
				700						
				800						
				900						
				1000						
				1100						
				1200						
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				3900						
				4000						
				4100						
				4200						
				4300						
				4400						
				4500						
				4600						
				4700						
				4800						
				4900						

Dredge } No. 5354 Date, Jan 1, 1909
Hydrog. }

Sdg. Mch. Tanner Reel T.M. Shot } 25 lbs.
Lead }

Turns 120 Cor'n - 3 Depth 117 fms.

Sdg. Cup yellow metal Amt. Bot'm Sample plenty

Character of Bottom m.

Thermom. { Make None used Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80° Time 9:00 } Air { 75°
80° Time 10:15 } 75°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 3

Baromet. 29.91 Amt. of Clouds Overcast State of Sea 2

Weather Fair

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality Balabac Strait, West

Lat & Long approx:

Position 7° 47' 50" N. 116° 43' 15" E

Chart used: No. 4309 Ed'n _____

Drift: Direction S.E. Distance _____

Depth of Haul bottom

Apparatus and Rig used 9' Tanner, 80# sinker,
2 trimming weights, 3 glass floats, mud bag

Time towing h. 25 m.

Remarks: _____

Deck Officer Mr. Hazard Recorder C. E. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.		Up.	A. M.		M. Down.		Up.	A. M.
5	31 50	8	36 10	0	8	42 20	9	30 53
	32 00		34 00	100	8	47 15	9	27 30
5	32 30	8	32 40	120	8	51 00	9	24 20
				300	8	54 40	9	20 45
				300	8	54 55	9	19 55
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
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				4000				
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				4200				
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				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5355 Date, June 5, 1908
Hydrog. }
Sdg. Mch. Lucas Reel 7N Shot/Lead 35 lbs.
Turns 14 Cor'n Depth 14 fms.
Sdg. Cup Arming Amt. Bot'm Sample about 10g
Character of Bottom cor'd sand

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 82° Time 9:45 a } Air { 82°
 { 82° Time 10:15 a } { 82°

Density: Surf. 1.02518 fms. —

Wind: Direction calm Force 0

Baromet. 29.87 Amt. of Clouds 3 State of Sea 5

Weather bc

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality Sulu Sea North Channel

Bunk Id (SE) n 26° also Id W. n 31W

Position 8-08-10 N - 117-19-15 E

Chart used: No. 4309 Ed'n —

Drift: Direction S 14 W Distance 1.6

Depth of Haul bottom

Apparatus and Rig used 6' McCormick 180# wt.

Time towing h. 17 m.

Remarks: towing 100 fms for 4 mis.

Deck Officer M. Johnson Recorder Roberts

SOUNDING WIRE.			FMS.	DREDGING CABLE.				
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.		
9	39 00	9	40 30	0	9	42 30	10	12 20
9	39 30	9	39 35	100	9	47 00	10	08 00
				200	9	52 00	10	06 25
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
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				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
08-75				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. 5356 Date, June 5, 1908
Hydrogk }

Sdg. Mch. Tanner Reel 711 Shot/Lead 35 lbs.

Turns 58 Cor'n Depth 58 fms.

Sdg. Cup Arming Amt. Bot'm Sample 20%

Character of Bottom corals

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 87 Time 10:20 } Air { 85°
87 Time 11:00 } 85°

Density: Surf. fms.

Wind: Direction Calm Force 0

Baromet. 29.85 Amt. of Clouds 4 State of Sea 5

Weather bcy

Direction and Force of Current { Surface Bottom

Tide

General Locality Inlet Sea North Channel

Bank 2d (SE) 424 E Ryan 2d. E 154 W

Position 8-6-40 N - 117-18-45 E

Chart used: No. 4309 Ed'n

Drift: Direction S. 50 W Distance 1.3

Depth of Haul Bottom

Apparatus and Rig used as before with 3 glass balls

Time towing h. 16 m.

Remarks:

Deck Officer Mr. Johnson Recorder Roberts

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A.M. Down.			Up.				A.M.			A.M.		
10	19	50	10	21	40	0	10	28	30	11	00	30
10	20	30	10	20	40	58	100	33	45		55	40
						180	200	10	36	00	10	52
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

6-38

Dredge } No. 5357 Date, Jan 5, 1908
Hydrog. }
Sdg. Mch. Tanner Reel V711 Shot/Lead 35 lbs.
Turns 68 Cor'n Depth 68 fms.
Sdg. Cup Arising Amt. Bot'm Sample 20g.
Character of Bottom ~~cor. sand~~ sand

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82 Time 11:15 AM } Air { 85°
 { 85 Time 11:40 AM } { 85°

Density: Surf. _____ fms. _____

Wind: Direction Calm Force 0

Baromet. 29.85 Amt. of Clouds 2 State of Sea 5

Weather bry.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Sulu Sea, North Channel

Bussak Id (S.E.) N 29 E Ryan Id. E. N 42 W.

Position 8-6-00 N - 117-17-47 E

Chart used: No. 4309 Ed'n _____

Drift: Direction N 45 E Distance .6

Depth of Haul Bottom

Apparatus and Rig used 9 Tanner 3 glass balls

in bag 150' cable wt 2 wavy wts 1 lb wt

Time towing h. 1 m.

Remarks: Biddle traps carried away
net torn

Deck Officer Mr Johnson Recorder Roberto

SOUNDING WIRE.			FMS..	DREDGING CABLE.									
<i>A</i> . M. Down.	Up.	<i>A</i> . M.		M. Down.	Up.	M.							
11	12	20	11	14	50	0	11	15	30	11	38	00	
11	13	00	11	13	15	65	100	11	20	20	11	33	00
							200	11	25	45		29	10
							300	11	27	00	11	27	35
							400						
							500						
							600						
							700						
							800						
							900						
							1000						
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							4800						
							4900						

17-37

SOUNDING WIRE.

FMS.

DREDGING CABLE.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		M. Down.	Up.
7 19 55	7 20 55	0	7 24 00	7 50 10
7 20 15	7 20 20	100	7 27 00	
		200	7 29 15	7 41 00
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
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		3000		
		3100		
		3200		
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		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
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		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 4926 Date, Jan 9, 1909
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Lead }
Turns 460 Cor'n — Depth 460 fms.
Sdg. Cup Ligabue Amt. Bot'm Sample —
Character of Bottom —

Thermom. { Make N.Z. Cor'n { Instr. —
 { No. 108022 { Stem. —

Bottom Reading See remarks 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 Sulu Sea

Position 7-39-08 N 120-4-45 E

Chart used: No. 4721 Ed'n —

Drift: Direction — Distance —

Depth of Haul —

Apparatus and Rig used —

Time towing — h. — m.

Remarks: Ship carried away while at bottom, breaking stray line. Lost thermometer, stray lead, water bottle, + sounding cup.

Deck Officer Mrs. Johnson Recorder C. C. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.	M. Down.		Up.	M.	
6 06 10	6 17 00			0			
6 07 40	6 16 00			100			
6 08 40	6 15 10			200			
6 09 40	6 14 15			300			
6 10 40	6 13 20			400			
6 11 20	6 12 30	460	500	500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
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				4200			
				4300			
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				4500			
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				4700			
				4800			
				4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. DOWN.	UP.	P. M.		P. M. DOWN.	UP.	P. M.
12 24 00	1 15 55		0	1 22 20	7 15 30	
12 25 30	1 15 00		100	1 27 10	11 00	
12 26 45	1 14 20		200	1 31 20	07 00	
12 28 00	1 13 30		300	1 35 00	7 52 45	
12 29 00	1 12 45		400	1 38 10	58 45	
12 30 00	1 11 55		500	1 41 10	54 55	
12 31 05	1 11 00		600	1 44 35	51 05	
12 32 25	1 10 05		700	1 47 40	47 00	
12 33 45	1 09 05		800	1 49 55	43 00	
12 34 50	1 08 05		900	1 52 30	39 20	
12 36 05	1 07 05		1000	1 55 40	36 00	
12 37 20	1 06 00		1100	1 58 30	32 15	
12 38 30	1 05 00		1200	2 01 30	27 45	
12 39 40	1 03 50		1300	2 04 20	23 35	
12 40 50	1 02 45		1400	2 07 10	19 10	
12 42 10	1 01 40		1500	2 10 10	14 55	
12 43 25	1 00 30		1600	2 12 50	09 55	
12 44 45	12 59 50		1700	2 15 20	05 10	
12 46 10	12 58 55		1800	2 19 45	6 00 00	
12 47 30	12 58 00		1900	2 22 25	59 20	
12 48 50	12 57 00		2000	2 27 10	48 30	
12 50 10	12 56 00		2100	2 30 55	36 20	
12 51 30	12 55 00		2200	2 34 30	30 30	
12 52 35	12 53 45	2 25	2300	2 38 00	25 55	
			2400	2 42 00	19 05	
28	22		2500	2 46 50	13 00	
			2600	2 50 30	5 07 45	
			2700	2 54 50	59 10	
			2800	2 58 40	49 45	
			2900	3 02 20	41 35	
			3000	3 06 55	34 50	
			3100	3 11 15	28 00	
			3200	3 15 05	21 05	
			3300	3 18 50	10 40	
			3400	3 23 00	4 04 00	
			3500	3 27 10	0 58 15	
			3600	3 31 00	0 52 00	
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.					
M. Down.	Up.	M.			M. Down.	Up.	M.			
				0	2	15	00	2	49	30
				100 ⁵	2	17	20	2	27	50
				200						
				300						
				400						
				500						
				600						
				700						
				800						
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				4200						
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				4500						
				4600						
				4700						
				4800						
				4900						

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.			
			0	2	13	00	2	53	00
			7 400	2	13	40	2	2	
			35 200	2	47	00	2	50	20
			300						
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
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			2800						
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			3900						
			4000						
			4100						
			4200						
			4300						
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			4500						
			4600						
			4700						
			4800						
			4900						

Dredge } No. 5360 Date, Feb. 8, 1909
Hydrog. }

Sdg. Mch. _____ Reel hand Shot Lead 12 lbs.

Turns _____ Cor'n _____ Depth 12 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom Hard

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 77 Time 6:30 } Air { 77
 { 78 Time _____ } { 77

Density: Surf. _____ fms. _____

Wind: Direction East Force 3

Baromet. 30.01 Amt. of Clouds 0 State of Sea 5

Weather b

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality South Chan. Manila Bay.

Egretas 2 845W Corregidor St. N 68W

Position 14-21-N-120-41-00 E

Chart used: No. 4240 Ed'n _____

Drift: Direction N 1/8 E Distance 1.3

Depth of Haul bottom

Apparatus and Rig used 25' trawl

Time towing 1 h. _____ m.

Remarks: towing 53 minutes with 60 fms. of wire out.

Deck Officer Mr Hazard Recorder Roberts

✓

Feb 8. | Feb 9.

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		M. Down.	Up.	M.			
			0	8	40	20	6	00	05
			100	8	47	50	5	55	06
			200						
			300						
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
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			1500						
			1600						
			1700						
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			3800						
			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.			
			0	3	50	30	4	13	20
			50-100	3	55	30			
			100 200	3	57	20	4	07	10
			300						
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
			1500						
			1600						
			1700						
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			3200						
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			3700						
			3800						
			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

Dredge Hydrog. No. 5363 Date, Feb 20, 1909

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 180 fms. chart.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom M & S

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 78 Time 9:00 } Air { 79 } { 79 Time 10:45 } Air { 82 }

Density: Surf. fms.

Wind: Direction SE Force 2

Baromet. 29.96 Amt. of Clouds 4 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Balayan Bay Luzon

cp. Santiago Pt. 8 75 W San Pedro Pt. 15 W

Position 13-47-20 N - 120-43-30 E

Chart used: No. 4240 Ed'n

Drift: Direction N 25 E Distance 3.0

Depth of Haul bottom

Apparatus and Rig used 25' Agassiz Trawl
2 wing nets, 1 tail net, 12 glass balls

Time towing 1 h. 15 m.

Remarks:

Deck Officer W. Johnson Recorder M. C. Roberts

✓ *Atter 900 fms*

✓

SOUNDING WIRE.

FMS.

DREDGING CABLE.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. DOWN.	UP.		M. DOWN.	UP.
		0	8 58	10 10 57 30
		100	9 10	35 10 53 45
		200	9 16	25 10 50 10
		300	22	40 10 46 50
		400	9 27	00 10 42 30
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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		2800		
		2900		
		3000		
		3100		
		3200		
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		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

47-15

Dredge } No. 5364 Date, Feb. 20, 1909

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

Turns _____ Cor'n _____ Depth by cast 160 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom IT.S. by chart.

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 81° Time 2:00 p. } Air { 86°
 { 81° Time 3:00 p. } { 83°

Density: Surf. _____ fms. _____

Wind: Direction ESE Force 1

Baromet. 29.89 Amt. of Clouds 4 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Balayan Bay Luzon P.I.

Cape Santiago Pt. S 63 W - San Pedro Pt. N 76 W

Position 13° 48' 30" N - 120° 43' 45" E

Chart used: No. 4240 Ed'n _____

Drift: Direction N 43° E Distance 2.8 m.

Depth of Haul Bottom

Apparatus and Rig used 75' Agassiz Trawl, with accessories as record for previous sta.

Time towing _____ h. 43 m.

Remarks: Towed 29 min to 450 fms.; then let out to 500 fms. and towed 13 min; total towing = 43 min. - Bridle slips carried away.

Deck Officer Mr. Hazard Recorder A. J. [Signature]

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	1 57 00	3 15 30	
			100	56 25	10 20	
			200	2 00 30	06 00	
			300	04 30	3 01 40	
			400	08 45	58 00	
			450	2 10 30		
			500	2 40 00	2 53 30	
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
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			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
		44-00	2600			
			2700			
			2800			
			2900			
			3000			
			3100			
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			3300			
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			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

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

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		A. M. Down.	Up.	P. M.
			0	8 07 20	10 08 15	
			100	8 14 20	9 59 40	
			200	8 21 20	9 51 00	
			300	8 25 10	9 41 50	
			400	8 29 25	9 29 05	
Towed 32 min at 500 (and between 500 or 600 fath) and 4 1/2 min at 600 fath.			500	8 32 50	9 17 35	
			600	9 04 00	9 08 30	
			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			

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

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

0	1	35	20	2	39	20
100		32	20		33	30
200		35	20		29	00
300		38	00	2	24	10
400	1	40	00	2	00	00
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
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4800						
4900						

37-157

Dredge } No. 5367 Date, Feb 22, 1909
Hydrog. }

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

Turns - Cor'n - Depth 180 fms.

Sdg. Cup N - Amt. Bot'm Sample in ckt. -

Character of Bottom S. S., to ckt.

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

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 80° Time 5:00 p. } Air { 83°
80° Time 5:27 p. } 82°

Density: Surf. - fms. -

Wind: Direction SE Force 3

Baromet. 29.88 Amt. of Clouds 7 State of Sea S

Weather bcy

Direction and Force of Current { Surface - Bottom -

Tide -

General Locality Verde Id. Passage

Verde Id. (NW) S 87° W - Verde Id. (SE) S 35° W

Position 13° 34' 37" N - 121° 07' 30" E.

Chart used: No. CS 4240 Ed'n -

Drift: Direction N 63° E Distance .9 mile

Depth of Haul Bottom.

Apparatus and Rig used 75' Agassiz Trawl, 2 wing
vts., 1 tail vt., 22 glass floats

Time towing - h. 26 m.

Remarks: Towed to 400 fms wire for 9 min.
and to 500 fms for 17 min; total trawl-
ing 26 min. - One bridle stop
carried away; lower wooden beam
broken; iron frame twisted and
broken - Washington's birthday!
O hat!

Deck Officer Mr. Hazard Recorder Smith

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.		Up.	M.		M. Down.	Up.	M.	
				0	4	38 00	5	24 15
				100		43 45		4 50
				200		5 20		41 00
				300		56 25		35 30
				400	5	00 30		31 30
				500	5	09 30	5	26 30
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
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				2500				
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				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
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				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5368 Date, Feb. 23, 1909
Hydrog }

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

Turns 181 Cor'n _____ Depth 181 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 1/2 oz.

Character of Bottom gy S. M.

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 2:18 } Air { 87°
82° Time 3:15 } 87°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 0 to 2

Baromet. 29.90 Amt. of Clouds 7 to 9 State of Sea S

Weather bc.

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality Bot. Tayabas Bay + Inarindague

Pt. Latimiana S 66° Pt. In Ardu S 71 E

Position 13-35-30 N 121-48-40 E

Chart used: No. 4714 Ed'n _____

Drift: Direction N 20 W Distance 6.0

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz tr. R., 2 wing weights, 1 tail weight, 4 glass floats, 1 mud bag.

Time towing h. 57 m.

Remarks: Net came up with one side of hickie loose from frame.

Deck Officer Mr. Johnson Recorder C.E. Dooling

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P.M. Down.			Up. P.M.				P.M. Down.			Up. P.M.		
2	05	45	2	13	15	0	2	17	50	3	29	05
2	07	15	2	10	50	100	2	21	20	3	25	45
2	08	25	2	09	53-181	200	2	25	55	3	22	20
						300	2	29	20	3	18	50
						400	2	32	05	3	15	20
						479 500	2	34	20			
						300 600	2	44	30	3	11	15
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
35-50			18-10			2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
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						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 5369 Date, Feb 24, 1909
Hydrog. }
Sdg. Mch. Tanner Reel J.N. Shot/Lead 35 lbs.
Turns 106 Cor'n Depth 106 fms.
Sdg. Cup arming Amt. Bot'm Sample
Character of Bottom ss Bk S

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 79 Time 8:10 a } Air { 80
 { 79 Time 8:50 a } { 80

Density: Surf. _____ fms. _____

Wind: Direction East Force 2

Baromet. 29.97 Amt. of Clouds 5 State of Sea 2.

Weather very

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Tayabas Bay Luzon

Pagbilao 2 (W) N 9 E Pagbilao 3 (E) N 42 E

Position 13-48-00 N - 121-43-00 E

Chart used: No. 4267 Ed'n _____

Drift: Direction S 9 W Distance 1.7

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz w floats
wing wts, towed in bag

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Hazard Recorder Roberts

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. DOWN.		UP.	M.		M. DOWN.		UP.	M.
8	02 50	8	07 20	0	8	07 50	8	50 30
	03 30		04 10	100		12 20		46 20
8	03 40	8	04 00	200		16 20		42 30
				300		19 00		
				300	8	29 30	8	38 00
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
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				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
A. M. Down.		Up.	A. M.		A. M. Down.		Up.	A. M.
9	32 00	9	38 30	0	9	44 00	10	36 30
	33 40		37 00	100		48 15		32 15
9	34 30	9	35 30	159		51 00		28 30
				300		53 30		24 30
				400		56 30		20 30
				500		9 58 00	10	18 00
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
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				1900				
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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				

~~42-36~~

Dredge } No. 5371. Date, Feb. 24, 1909.

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

Turns _____ Cor'n _____ Depth by Cht. 83 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom (mud bay) gn M.

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80° Time 2:17 p. } Air { 83°
 { 80° Time 2:40 p. } { 82.5°

Density: Surf. _____ fms. _____

Wind: Direction SE Force 2

Baromet. 29.88 Amt. of Clouds 7 State of Sea S

Weather bcs.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Tayabas Bay.

Tayabas Lt N 1/2 W - Palayan Id (E) N 20° E.

Position 13° 49' 40" N - 121° 46' 15" E.

Chart used: No. 4267 Ed'n _____

Drift: Direction S 87° W Distance 0.9 m.

Depth of Haul Bottom.

Apparatus and Rig used As before.

Time towing _____ h. 2 1/2 m.

Remarks: No sounding taken.

Deck Officer Mr. Nothage Recorder Fruitil

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	✓ 06	30	✓ 05 00
			100		11 20	50 15
			200		15 00	45 45
			250 300	✓ 17	00	
			300 400	✓ 19	50	41 45
			350 500	✓ 31	40	✓ 59 30
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
49-24-			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.			
			0	3	26	30	4	35	15
			100		31	05	4	28	05
			200		34	20	4	14	15
			300		37	30	4	09	40
			400		40	20	4	05	10
			450	3	41	30	4	02	40
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
			1500						
			1600						
			1700						
			1800						
			1900						
			2000						
			2100						
			2200						
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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						

Dredge } No. 5373 Date, 7/11/02, 1902
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot Leads 35 lbs.

Turns _____ Cor'n _____ Depth 338 fms.

Sdg. Cup Sieber Amt. Bot'm Sample 2 of

Character of Bottom sf. m

Thermom. { Make T+L Cor'n { Instr. 6

{ No. 108015 { Stem. _____

Bottom Reading 52.4 Cor'd Temp. 51.8

Temp. Surf. { 80 Time 9.45 a } Air { 82

{ 80 Time 10.36 a } { 81

Density: Surf. 1.02550 fms. _____

Wind: Direction East Force 2

Baromet. 30.00 Amt. of Clouds 9 State of Sea S

Weather bcj.

Direction and Force of Current { Surface _____

{ Bottom _____

Tide _____

General Locality Jayapas Bay

Pagbilao I. (NW) N38E. Pt Loco Loco S82W

Position 13-40-00 N - 121-31-10 E

Chart used: No. 4714 Ed'n _____

Drift: Direction N32E Distance 4.5

Depth of Haul bottom

Apparatus and Rig used 12' Tanner & floats

V wing wts, tailnet & mudbag

Time towing h. 20 m.

Remarks: sounding out didn't trip

~~7 wts~~

Deck Officer Mr. Roberts Recorder Roberts

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A.M. Down.	Up.	A.M.		A.M. Down.	Up.	A.M.
9 33 25	9 43 40		0	9 51 00	11 10 50	
34 50	42 00		100	55 20	06 30	
36 15	41 20		200	58 30	11 02 20	
38 00	40 00		300	10 01 00	58 15	
9 38 15	9 39 15	33 8400	400	03 30	54 00	
			500	06 05	50 10	
			600	08 30	46 30	
			700	11 00	41 00	
			800	13 45	37 30	
			900	10 15 00	10 35 00	
			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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Tangabus Lt

~~at 15~~

20 E

15. m

✓

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		a M. Down.	Up.	M.
			0	11 39 25	12 52	30
			100	44 00	48 50	
			200	47 40	45 55	
			300	51 30	42 40	
			400	55 20	33 30	
			465 500	11 57 00	12 30	30
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
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			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			

144

Koyabast

25-02

N 9 E
7.4 m

Dredge } No. 5375 Date, March 2, 1909
Hydrog }
Sdg. Meh. JN Reel TN Shot/Lead 5 lb. 10 lb.
Turns 110 Cor'n 120 = 117 Depth 107 fms.
Sdg. Cup Arming Amt. Bot'm Sample Lead covered
Character of Bottom gm. m.

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

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 80° Time 3:23 P. } Air { 82°
 { 80° Time 3:45 P. } { 83°

Density: Surf. - fms. -

Wind: Direction NE Force 3-4

Baromet. 29.89 Amt. of Clouds 8 State of Sea S

Weather haz.

Direction and Force of Current { Surface -
 { Bottom -

Tide -

General Locality Betw. Marineros & Linnon

San Andres I (W) S 7 E - Pt. St. George S 48 E

Position 13° 42' 15" N - 121° 50' 15" E

Chart used: No. 4714 Ed'n -

Drift: Direction N 39° W Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used 17' Agassiz, 4 floats,

Wing & tailwts, mudbag.

Time towing - h. 20 m.

Remarks:

Deck Officer Mr. Johnson Recorder Anttila

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
3 04 00	3 08 00		0	3 10 45	3 50 40	
04 45			100	16 40	42 10	
3 05 00	3 05 10		110 200	20 55	44 00	
			230 300	3 21 50		
			250 400	3 25 00	3 42 15	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			2900			
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			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

145

Taydas Lt

On 49 W
18.2 m

Dredge } No. 5276 Date, March 3, 1909
Hydrog. }

Sdg. Mch. Reel Shot/Lead lbs.

Turns No Cor'n Depth 90 (Chart) fms.

Sdg. Cup Amt. Bot'm Sample Mud bag full

Character of Bottom gy. M. S. d. ing

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time 4¹² } Air { 82°
80° Time 4³⁵ } 84°

Density: Surf. fms.

Wind: Direction N.E. Force 4

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

Weather bc.

Direction and Force of Current { Surface Bottom

Tide

(Between Marinduque & Luzon)
General Locality San Andres Id (Ph) L. 5° N.

Pt. Santa Cruz, Marinduque) L 43 E.

Position 13° 42' 50" N. 121° 51' 30" E.

Chart used: No. 4714 Ed'n

Drift: Direction N. 11° W. Distance 1.5 mi.

Depth of Haul bottom

Apparatus and Rig used as below

Time towing h. 22 m.

Remarks: Net torn in two places near mouth.

Deck Officer Mr. Hazard Recorder C. C. P. Long

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.			
			0	4	10	20	4	51	45
			100	4	14	30	4	47	30
			200	4	17	35	4	43	50
			252 300	4	19	20	4	41	40
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
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			3200						
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			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

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f. my class at

43-00

51-30

M 53 M

18.7 m

Dredge } No. 5377 Date, Mar. 4, 1909
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot 35 lbs.
Turns 400 Cor'n - Depth 400 fms.
Sdg. Cup Sigbee Amt. Bot'm Sample 70g.
Character of Bottom gy. m.

Thermom. { Make N.Z. Cor'n { Instr. 6
 { No. 108015. { Stem.

Bottom Reading 50.7 Cor'd Temp. 49.6

Temp. Surf. { 80° Time 7:51 a } Air { 78°
 { 80° Time 8:20 a } { 79°

Density: Surf. _____ fms.

Wind: Direction NE Force 1

Baromet. 29.99 Amt. of Clouds 4 State of Sea S

Weather bz.

Direction and Force of Current { Surface -
 { Bottom -

Tide -

General Locality East of Marinduque Id.

Monpoz I (S) N63W - Marinduque I (SE) S49W

Position 13°26'00" N - 122°19'00" E

Chart used: No. 4715 Ed'n -

Drift: Direction S 31 E Distance 2.5

Depth of Haul Bottom.

Apparatus and Rig used As before

Time towing - h. 13 m.

Remarks: Towed 6 min. at 4000 fms - 7 min. at 1200 fms.
Accumulator registered 6-7 hours just before
from leaving in. At 445 fms weight
released suddenly - Not completely wrecked.

Deck Officer Mr. Bohange Recorder Roberto

Mr. Johnson Artil - 11-2023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A. M. Down.		Up.		FMS.	A. M. Down.		Up.		A. M.
7	03 30	7	13 30		0	7	17 00	9	
	04 55		12 20	100		21 20	9	02 20	
	06 10		11 30	200		25 20		58 20	
	07 20		10 35	300		38 30		54 30	
7	08 30	7	09 30	400		31 30		57 00	
				500		34 40		46 15	
				600		38 05		40 30	
				700		41 10		36 00	
				800		44 10		31 00	
				900		47 10		26 50	
				1000	7	50 00		22 45	
				1100	8	00 00		18 35	
				1200	8	03 00	8	10 00	
				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					

150

Mormog J (E)

N 55 W

9. mi

Dredge } No. 5378 Date, Mar 4, 1909

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

Turns 395 Cor'n - Depth 395 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample Trace on shot

Character of Bottom sft. gn. M.

Thermom. { Make N. 3. Cor'n { Instr. .6
No. 108015. Stem.

Bottom Reading 51.0 Cor'd Temp. 50.4

Temp. Surf. { 80° Time 10:40 a. } Air { 80°
80° Time 11:06 a. } 79.5°

Density: Surf. - fms. -

Wind: Direction Variable Force 1

Baromet. 29.99 Amt. of Clouds 4 State of Sea S

Weather fog

Direction and Force of Current { Surface -
Bottom -

Tide -

General Locality East of Mindanao Island

Bondoc Pt, Luzon S 8 E - Mindanao 2 (SE)

Position 13-17-45 N - 122-32-00 E

Chart used: No. 4715 Ed'n -

Drift: Direction S 40 E Distance 3.5

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing - h. 20 m.

Remarks: Sounding shot did not detach

Sdg. Cup valve did not operate -

Net wrecked; pieces recovered -

Highest register of accumulator on

5 tons.

Deck Officer Mr. Johnson Recorder A. Smith

SOUNDING WIRE.

a. M. Down.			Up. a. M.		
9	57	40	10	06	40
	58	40		05	40
	59	50		04	50
10	00	50		03	55
10	02	00	10	02	00

FMS.

0
100
200
300
395
400
500
600
700
800
880
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.		
10	11	20	11	34	30
	15	15		31	20
	18	00		27	50
	20	50		24	00
	22	50		20	25
	27	15		16	30
	30	40		12	20
	33	40		08	30
	35	00	11	03	30
10	39	30	10	59	30

151

574 W Anomphog D (6)

1238 W

17. m

~~Dredge~~ } No. 4927 Date, March 4, 1909
Hydrog. }

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

Turns 730 Cor'n _____ Depth 730 fms.

Sdg. Cup Ligable Amt. Bot'm Sample _____

Character of Bottom No specimen

Thermom. { Make N.G. Cor'n { Instr. .6
 { No. 108015- { Stem. _____

Bottom Reading 51° Cor'd Temp. 50.4

Temp. Surf. { 81 Time 1:00 P } Air { 85
 { } { _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

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

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Bondoc Pt (Luzon) S. 84° E.

Suhunguin Pt. Luzon N. 21° E. (E. of Marinduque)

Position 13° 10' 35" N. 122° 27' 30" E.

Chart used: No. 4715 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer W. Hazard Recorder C. E. ...

SOUNDING WIRE.

FMS.

DREDGING CABLE.

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

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

P. M. Down.	Up.	P. M.	FMS.
12 50 40	1 14	23	0
12 52 35	1 13	20	100
12 54 05	1 12	25	200
12 55 50	1 11	25	300
12 57 45	1 10	25	400
12 59 55	1 09	20	500
1 02 10	1 08	15	600
1 04 55	1 07	25	700
1 05 45	1 06	45	730
			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

152

Anomphog (E)

10-45 - 27-35

M 37 (A)
25.6 m

Dredge } No. 5379 Date, March 7, 1909

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

Turns 920 Cor'n _____ Depth 920 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample _____

Character of Bottom no got specimens

Thermom. { Make N.J. Cor'n { Instr. .6
No. 108014 Stem. _____

Bottom Reading 51.1° Cor'd Temp. 50.5

Temp. Surf. { 81° Time 3:01 } Air { 82°
81° Time 5:28 } 83°

Density: Surf. 1.02443 fms. _____

Wind: Direction Various Force 0-1

Baromet. 29.88 Amt. of Clouds 6 State of Sea 2

Weather bc

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality Arena Pt. Luzon N. 38° E.

Marinduque (SW) N 67° W (S.E. of Marinduque)

Position 12° 59' 15" N. 122° 30' 40" E.

Chart used: No. 4715 Ed'n _____

Drift: Direction N. 43° W. Distance 5.3 mi.

Depth of Haul bottom

Apparatus and Rig used 12 Agassiz N.R., 4 glass floats, 2 trimming weights, 1 tail weight, 1 mud bag.

Time towing h. 30 m.

Remarks: _____

Deck Officer Mr. Hazard Recorder C. E. Roberts
M. H. Robinson

SOUNDING WIRE.				FMS.	DREDGING CABLE.							
P. M. DOWN.		UP.	P. M.		P. M. DOWN.		UP.	P. M.				
2	32	30	2	58	30	0	3	00	30	5	50	30
2	33	55	2	54	35	100	3	04	40		57	00
2	35	15	2	53	40	200	3	08	00		43	50
2	36	35	2	52	40	300	3	10	50		40	00
2	38	15	2	51	45	400	3	13	40		36	10
2	39	40	2	50	50	500	3	16	45		52	30
2	41	15	2	50	00	600	3	19	40		28	45
2	42	30	2	49	10	700	3	22	40		25	10
2	44	20	2	48	20	800	3	25	35		21	20
2	45	55	2	47	10	900	3	28	55		17	30
2	46	10	2	47	00	1000	3	32	10		13	10
						1100	3	35	20		09	00
						1200	3	38	15		05	30
						1300	3	41	20	5	00	30
						1400	3	44	30		55	45
						1500	3	47	30		51	00
						1600	3	50	40		46	40
						1700	3	54	05		42	00
						1800	3	56	20		38	00
						1900	4	00	30		34	10
						2000	4	02	00	4	32	00
						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						

153

Mompog I (E)

57-06

30-45

N 30 W

37 m

Dredge } No. 5380 Date, Mar 14, 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. { 81 _____ Time 7:30 P } Air { 82 _____
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction variable Force 0-1

Baromet. 29.92 Amt. of Clouds 3 State of Sea 2

Weather heavy

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality S.E. of Marandugas

Position 13-02-45 N - 122-29-00 E

Chart used: No. 4715 Ed'n _____

Drift: Direction none recorded Distance _____

Depth of Haul Intermediate?

Apparatus and Rig used 10' Intermediate 500th cable wt.

Time towing _____ h. _____ m.

Remarks: accumulator rods jumped out of the net and 1 wt lost. eye bolt pulled out of cable wt.

Deck Officer Mr Johnson Recorder Roberts

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.
			0			
			100	7 22 30	7 32 20	
			200	7 26 00	7 28 30	
			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			

154

mangrove (B)

R 31 B
33 m

Dredge } No. 5381 Date, Mar. 6, 1909
Hydrog. }
Sdg. Mch. JN Reel JN Shot/Lead 40 lbs.
Turns 90 Cor'n (100=98) Depth 88 fms.
Sdg. Cup Airing Amt. Bot'm Sample true
Character of Bottom Co. S

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

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 80° Time 9:31 a. } Air { 82°
 { 79° Time 9:57 a. } { 84.5°

Density: Surf. - fms. -

Wind: Direction ENE Force 2

Baromet. 30.03 Amt. of Clouds 5 State of Sea S

Weather bcz

Direction and Force of Current { Surface -
 { Bottom -

Tide -

General Locality Mouth of Ragay Gulf, S. Luzon

From Pt. Luzon, S 68 W - Alibijaban I (E) N 13

Position 13°-14' 15" N - 122°-44'-45" E.

Chart used: No. 4715 Ed'n -

Drift: Direction N 13° E Distance 1.3 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz NR, 4 floats, wing & tail weights, mudbag.

Time towing - h. 20 m.

Remarks: Towed 3 min to 200 fms. wire, &
17 min. to 240 fms. wire; = 20 min.
- Trawl was probably not in bottom throughout entire haul.

Deck Officer J. F. Prohange Recorder J. M. Smith

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>a</i> M. Down.	Up.	<i>a</i> M.		<i>A</i> M. Down.	Up.	<i>A</i> M.
9 14 00	9 17 30		0	9 27 30	10 00 00	
9 15 00	9 15 30		90 100	27 00	56 30	
			200	9 36 05	57 55	
			240 300	9 35 20	9 50 10	
			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			

159

Auna Pt, Luzon

268 M

2.8 m

Dredge } No. 5389 Date, Mar 6, 1909
Hydrog. }
Sdg. Mch. J. N. Reel JN Shot/Lead Shank lbs.
Turns 130 Cor'n 120=117 Depth 129 fms.
Sdg. Cup Arming Amt. Bot'm Sample trace
Character of Bottom JT

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

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 79° Time 10:23 a } Air { 83°
 { 79° Time 10:39 a } { 84°

Density: Surf. - fms. -

Wind: Direction ENE Force 2

Baromet. 30.03 Amt. of Clouds 5 State of Sea S

Weather bc

Direction and Force of Current { Surface -
 { Bottom -

Tide -

General Locality Mouth of Ragay Gulf, S. Luzon

Anchor Pt. S 56° W - Alibijaban I (E) N 19° W

Position 13-15-20 N - 122-45-30 E

Chart used: No. 4715 Ed'n -

Drift: Direction N 18° E Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing - h. 15 m.

Remarks: This sounding also marks the end of previous station.

Deck Officer Mr. Robinson Recorder Armit

SOUNDING WIRE.

FMS.

DREDGING CABLE.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
10 01 00	10 05 15		0	10 11 00	10 51 30	
02 00	03 30		100	14 50	78 00	
10 02 20	10 02 30 130		200	18 20	44 45	
			300	21 30	40 35	
			350 400	10 23 00	10 38 30	
			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			

160

Arena Pt. Luyon 855 M

3.8

10-18-

Dredge } No. 4383 Date, March 8, 1909
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 25 lbs.

Turns 127 Cor'n _____ Depth 127 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 1.02

Character of Bottom gy. M.

Thermom. { Make U.S. Cor'n { Instr. .6
 { No. 108015 { Stem.

Bottom Reading 63.1° Cor'd Temp. 62.5

Temp. Surf. { 82° Time 2¹⁶ } Air { 84°
 { Time }

Density: Surf. 1.02293 fms.

Wind: Direction N. Force 3

Baromet. 29.84 Amt. of Clouds 3 State of Sea 2

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Pagay Gulf S. Luzon.

Refuge 2 N 75 E Carabang 2 N 41 W

Position 13-22-00 N - 123-02-30 E

Chart used: No. 4715 Ed'n _____

Drift: Direction N 70 W Distance 1.3

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz T.R., 4 glass floats, sewing weights, 1 tail weight, 1 mud bag.

Time towing h. 20¹³ m.

Remarks:

Deck Officer Mrs. Hazard Recorder C.E. ...

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
3 06 55	3 10 50		0	3 16 00	3 17 45	
3 08 00	3 09 35		100	3 19 55	3 18 20	
3 08 15	3 09 05	127	200	3 22 45	3 15 30	
			300	3 25 30	3 17 50	
			400	3 34 45	3 45 50	
			500			
			600			
			700			
			800			
			900			
			1000	Towed for 7 1/2 min at 300 fath.		
			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

Asena P. Luyon

21-45

Dec 11
27. 3 m

Dredge } No. 5384 Date, March 8, 1909
Hydrog. }

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

Turns _____ Cor'n _____ Depth 220 fms.

Sdg. Cup sigbee Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make T. 3. Cor'n { Instr. 6
 { No. 108015 { Stem. _____

Bottom Reading 63 Cor'd Temp. 62.4

Temp. Surf. { 80 Time 4:10 P } Air { 84
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction n n w Force 2-3

Baromet. 29.84 Amt. of Clouds 6 State of Sea 8

Weather bry.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Ragay Gulf Luzon

Refugio 2 N 17 E Barabag 2 N 39 W

Position 13-22-15 N - 123-01-15 E

Chart used: No. 4715 Ed'n _____

Drift: Direction N 74 W Distance 2.7

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 25 m.

Remarks: _____

Deck Officer Mr Bohange Recorder Robert

SOUNDING WIRE.

FMS.

DREDGING CABLE.

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

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

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
P.M. Down.	Up.		P.M. Down.	P.M.
4 00 30	4 05 15	0	4 08 10	5 14 30
01 35	04 25	100	11 35	12 50
02 30	03 35	200	14 00	27 30
4 02 45	4 03 30	300	16 30	04 00
		400	19 30	5 00 40
		500	22 00	57 20
		600	4 25 00	53 45
		700	4 32 00	4 50 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		

69

towed 5 min. 600 fms

Auna Pt., Luzon

264 ft

20.7 m

22-24 - 01-00

Dredge } No. _____ Date, _____, 19____
Hydrog. }

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. { _____ 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.
			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			

Dredge } No. 5457 Date, June 8, 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. { _____ 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 17' Agassiz Trawl; 6
Open floats; 2 wing weights.

Time towing _____ h. _____ m.

Remarks: No Sounding.

Deck Officer Mr. Robinson Recorder J. H. Hill - 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	9	26	5
			100	2	27	50
			200		33	10
			300		5	40
			350	9	39	30
			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			

2

$$\begin{array}{r} 39 \\ 117 \times 112 \\ \hline 420 \\ 4 \end{array}$$

$$\begin{array}{r} 39 \\ 39 \\ \hline 29 \end{array} \begin{array}{r} 14 \\ 107 \end{array}$$

fac = $\frac{\text{twice } \times \text{ cur}}{\text{base front}}$

Arakil



$$\begin{array}{r} 39 \\ 117 \times 139 \\ \hline 770 \\ 4 \end{array}$$

$$\begin{array}{r} 39 \\ 13 \\ \hline 117 \\ 39 \\ \hline 507 \\ 4 \\ \hline 108 \\ 27 \end{array}$$

$$\begin{array}{r} 69 \times 90 \\ \hline 102 \end{array}$$

$$\begin{array}{r} 18 \\ 90 \end{array}$$

801

$$\begin{array}{r} 49 \\ 99 \times 90 \\ \hline 102 \\ 5 \end{array}$$

$$\begin{array}{r} 49 \\ 491 \times 5 \\ \hline 40 \\ 40 \\ \hline 40 \\ 1 \end{array}$$

7295
6

13650