

Photographic Section

[PHOTOGRAPHS WERE ATTACHED TO THE BACK SECTION OF THE DIARY. PAGES WERE NOT NUMBERED. MANY PHOTOGRAPHS ARE MISSING.]

[1](#)



A rough weekend and then Frisco July 30th



Al Smith, Bill Menard, Chuck Simmons, Warren Wooster and José

2

[MISSING PHOTOGRAPH]

Up to 40° North we caught squid almost nightly in the dip nets



Jack Lucas and the biggest one we caught

3



Water on rough days was constantly sloshing back and forth across the deck in the after working area. That can was beaten to a pulp in 12 hours.



Accumulator and Dynamometer for big winch, dredge and "that can"

A large Frigate bird that circle the ship several times and then came to rest on the wire that ran from the top of the A-frame to the mast. He sat there for several hours and then move on. He gets his name from his habit of swooping in on other birds, scaring them into disgorging their lunch, and then grabbing it on the wing.



[4](#)



5



H.B., the sea and one black-footed albatross.



We had lots of really beautiful sunsets. There was a goodly sea running this time too.



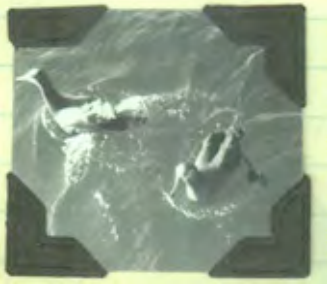
Menard, Wooster, Simmons, and McFall



Menard - José Barandiaran- and Simmons. In nice weather, the fantail was our patio

[Z](#)





Even if none were in sight when we hove to on station, there was almost always a whole hungry mob of black-footed albatross hovering around the stern before we left. They were as tame as Central Park ducks.

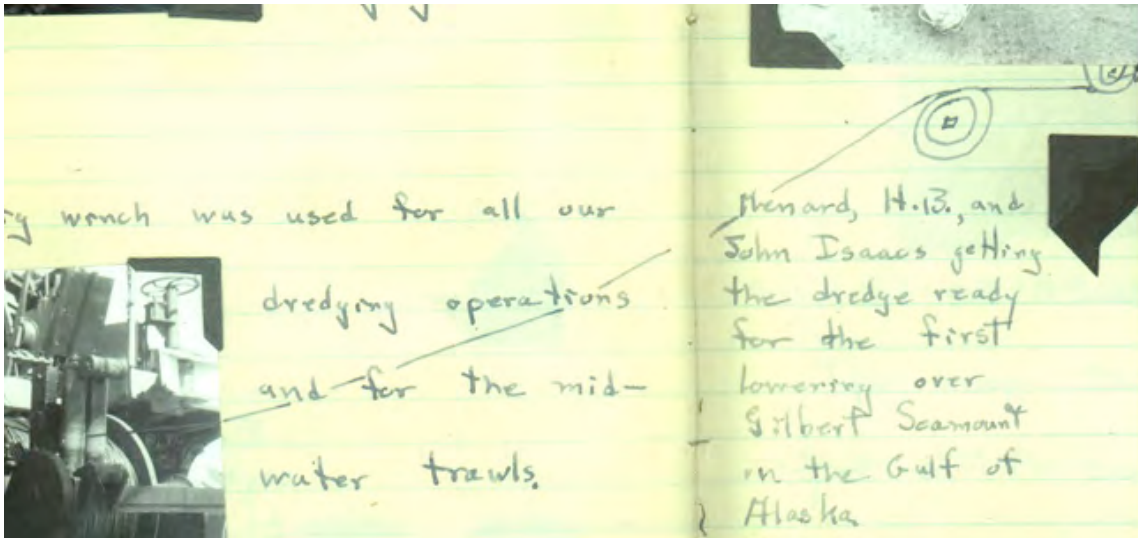
[8](#)



A-frame with the big sheave in the lowered position used for stowage and for dredging.



The big winch was used for all our dredging operations and for the mid-water trawls.



[\[DIAGRAM OF WINCH WIRE STARTS AT THE PHOTOGRAPH OF THE WINCH AND EXTENDS TO THE FOLLOWING PAGE.\]](#)

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Modification of pipes dredges developed to keep the sample bags from being pulled off on the bottom.

[MISSING PHOTOGRAPH]

Menard, H.B. and John Issacs getting the dredge ready for the first lowering over Gilbert Seamount in the Gulf of Alaska

[MISSING PHOTOGRAPH]

[10](#)

Menard and John Mc Fall

Gilbert Seamount gave up the biggest haul of the trip.



[11](#)

Menard and Isaacs look over the first haul.

They are mostly igneous stuff - looked like a freshman mineralogy lab. Quiz. Undoubtedly they were ice-rafted boulders and cobbles from farther north.

[MISSING PHOTOGRAPH]

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Simmons and John ease the mid-water trawl over the stern. That's an extra vane and net to the right. Before we got back, rough seas had collapsed two vanes and claimed one net.

[13](#)



Lucas, "Nick" Carter and John with the net going over for another crack at the deeps. This was a deep trawl, and netted a good haul.

[14](#)



Coming up!



A good catch. The bucket is secured at the end of the net, and the great amount of water going through ruins lots of good specimens.



[15](#)

Menard look over the catch, while John plucks Mictophets (sp.?) out of the mesh



Another new one!

[16](#)



Kodiak Island. Our first glimpse of land in 24 days.



The Horizon moored at the fueling dock in Woman's Bay, Kodiak.



Cannery Dock at Kodiak

[17](#)



Fishing boats docked on the strait between Kodiak and Woody Island

[18](#)



Nets drying and oceanographers sight-seeing at the Cannery pier



A motley crew of thugs and the west half of town



Moonlight on Woman's Bay (well it looks like moonlights)

[19](#)



The Horizon again and the big slide area at the head of Woman's Bay. The Devils Prongs in the distance

[20](#)



Getting the ball breaker and coring device ready for a lowering.



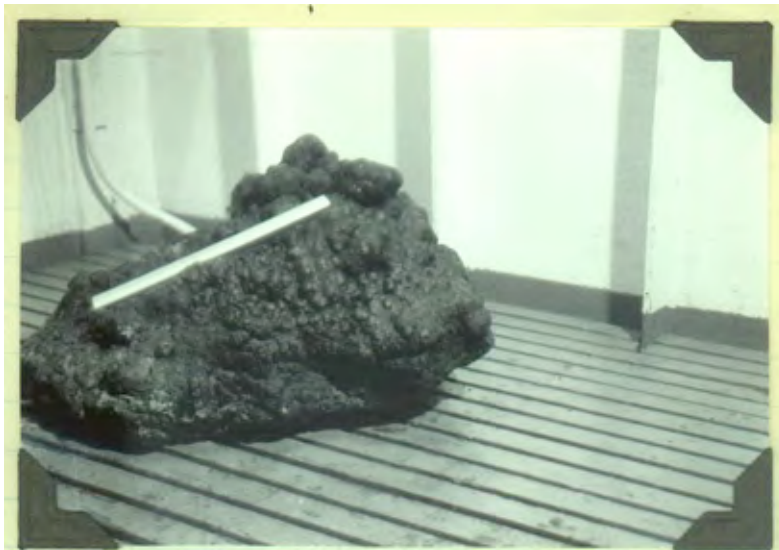
Ball and braker and Pflager Cover ready for lowering.

[22](#)



The wire that gave us so much trouble. We used this winch for shallow and deep hydrographic cast and for coring. We put out 6300 meters (that's 20,500 ft. or almost 4 miles!) the night we brought up the nodule. That made 400 m just lying on the bottom as a snare for nodules.

[23](#)



(12" ruler)
The Horizon Nodule in the Lab



I just had to put that geology hammer in the picture.

24



José (Commandante in Peruvian navy) getting period and heights of waves



The meter-wheel has just been freed, and the plankton net for quantitative samples is just been tossed over. Net is towed at 30-50 RPM - enough to keep wire angle as close to 45° as possible.

25



Taking wire angle with the hand inclinometer during a plankton net tow.



Up and down



Al Smith putting Nansen Bottle on the line for a deep cast.

26



Bottle rack in lab where temps were read and samples drawn.

27



- and taking it off when the cast came up.



Warren Wooster happily titrating oxygens.



These shots were taken on a fairly rough day. Charlie Dinkle hangs on for dear life, while Al tries to get out of the bucket. We were in the middle of a good roll.

29

[MISSING PHOTOGRAPH]

First it rolls to port and -

[MISSING PHOTOGRAPH]

Then it rolls to starboard. It's Bob Misner on the other camera

Data Section

[FOUR PAGES OF DATA AND CALCULATIONS WERE FOUND AT THE BACK OF THE DIARY. PAGES WERE NOT NUMBERED.]

13 Sept - 3000 - 3470 = 530 fm = 3,180?? 1
(not surveyed)

Log #4 pp 3 - 4

Seamount Survey (Proposed Scripps Smt [SEAMOUNT])

18 - 19 Sept - 2180 - 0440 (19th) = 7 hrs - 10 mts

350 Soundings - Shoalest 900 fm
Bottom 2800 fm

Log #4 pp 25- 40 1900 fm
11,400 ft

Summary for Warren Wooster's report: 2

16 - 17 Aug. - Gilbert Smt - @ Sta. #22

16th @ 1508 to 0640 on Aug. 17th = 15¹/₂ hrs

550 soundings - Shoalest depth - 620 fm
Bottom depth - 2300 fm

Log #1, pp 67 - 90 Height - 1680 fm
or 10,080 feet

18 - 19 Aug. - Miller Smt -

18th @ 1900 to 2150 19 Aug = 26 hrs + 50 mts

425 soundings - Shoalest depth - 520 fm
Bottom depth - 2200

Log #2, pp 2 - 43 Height - 1680 fm
or 10,080 ft

SEK [NOT CLEAR] Survey - 19th @ 2300 and 20th @ 0950
26 jogs - in 12 hrs -

Holiday Seamount

21 Aug 0830 - 1230 - 4 hrs - 150 sndgs

Shoalest depth - 1080
Log #2 pp 46 - 51 Bottom depth - 2100
Height - 1020 fm
or 6120 ft

21 Aug. SA-5 Seamount 3

1730 to 2140 = 4 hrs and 10 mts

250 soundings - Shoalest = 420 fm
Bottom = 2000 fm

Log #2 pp 52 - 62 Height = 1580 fm
or 9,480 feet

22 Aug. Pratt Seamount

0130 - 1100 = 9¹/₂ hrs - 475 soundings

	Shoalest =	390 fm
	Bottom =	<u>2000 fm</u>
Log #2 pp 63 - 84	Height =	1610 fm
	or	<u>9,660 feet</u>

23 Aug. SA-4 - 0820 - 1230 = 4 hr - 10 mts -

175 soundings -	Shoalest =	238 fm
Log #2 pp 88 - 96	Bottom =	<u>2000 fm</u>
Log #3 p 1	Height =	1762 fm
	or	<u>10,572 feet</u>

24 Aug. SA-3 000 - 0900 = 9 hrs

250 soundings -	Shoalest =	410 fm
	Bottom =	<u>2100 fm</u>
Log #3 pp 3 - 12	Height =	1690 fm
	or	<u>10,140 feet</u>

4 25 Aug. SA-1 Sruvey 1250 - 2200 = 9 hr - 50 mts

soundings -	Shoalest =	1130 fm
	Bottom =	<u>2600 fm</u>
Log #3 pp 18 - 31	Height =	1470 fm
	or	<u>8820 feet</u>

5 Sept. Seamount (on potting chart)

0520 - 1130 = 8 hr & 20 mts = 100 soundings

Log #3 pp 60 - 64	Shoalest =	2080 fm
	Bottom =	<u>2700 fm</u>
	Height =	62 fm
	or	<u>3720 feet</u>

Log #3 pp 70 - 71 2000 - 2040 = 40 mts 7 Sept

(not surveyed) 2800 - 2450 =	350 fm
	<u>2100 feet</u>

Log #3 p 72 8 Sept

0100 - 2880 - 2250 = 630 fm	
(not surveyed)	<u>3780 feet</u>

Log #3 pp 75 - 76 - 8 Sept 2156 - 2230

2800 - 2590 =	210 fm
(not surveyed)	<u>1260 feet</u>

interesting trough defines it.

Mendocino Scar Extension Survey - 11 Sept
1620 - 2000 = 3 hr 40 mts - 100 soundings

Log #3 pp 90 - 95 Shoalest = 2420 tm
 Bottom = 3000 fm
 Height = 580 fm
 or 3480 feet

