No.	Species	No Fish.	MT	LOCATION	DATE	WET W
1	C. macouni	3	278	NH-50	7 DEC 62	95.2
		3	277			
		1	280			
2	M. rugosus	1	278	NH-50	7 DEC 62	26.
3	L. nannochir	5	278	NH-50	7 Dec 62	82.9
		4	281			
4	Bathylagus	4	278	NH-50	7 Dec 62	
		4	281			32.
	(B. milleri)	1	280			
5	L. vitteri	10	280	NH-50	7 Dec 62	124.
		7	277			
6	D. theta	16	279	NH-50	7 Dec 62	
		9	280			56.
7	L. leucopsarus	9	280	NH-50	7 Dec 62	
		22	277			133.
8A	T. macropus	24	277	NH-50	7 Dec 62	147
8B						161
8B						
9	T. crenularis	34	279		18 Nov 62	24
		9	278			
		4	281			
		✓5	269	150-500 (2 small)		
		✓3	270	150-500		
		✓1	270	0-150		
		✓1	270	500-1000		
		✓3	270	150-500		
						20.

DATE	WET WT.	STOMACH CONTENTS	R.A.	
7 DEC 62	95.2	2 Fish (1 = O. theta)	✓	
7 DEC 62	26.7	E - crustacea in hind gut		
7 Dec 62	82.9	copepods, crustacea	✓	~ 63/g Zn
7 Dec 62	32.1	copepods, 1 chaetognath p 62		
7 Dec 62	124.2	see attached sheets in other book	✓	~ 68/g Zn
7 Dec 62	56.5	see other book	✓	
7 Dec 62	133.7	p 58 + 62	✓	~ 178 c/g Zn
7 Dec 62	147.0	p 51 + 52	✓	
	161.7	60, 61	✓	
18 Nov 62	24.7 = 9P	see attached sheets		
	~~20.8~~			

MT

10	Bathylagus	2	270	500-1000			43.0
	B. milleri	1	271				
11	T. macropus (5 guts)	11	2806		NH-50	7 DEC 62	186.3
12-D	T. macropus guts + liver + fat body	11	2806		NH-50	7 Dec 62	18.55
			OTB #1			25 Jan 63	
13A	Hagfish GI	3	OTB	1	800m	15 Jan 63	67.5
13B	" WHOLE (5 GI)	1	"		"	"	362.2
14A	S. altevilis GI	6	OTB	1	"	"	83.7
14B	" " WHOLE (5GI)	2	"		"	"	511.0
15A	M. pacificus GI	2	OTB	1	"	"	29.9
15B	" " WHOLE	1					601.0
16A	A. fimbria GI	3	OTB	1	"	"	162.8
16B	" " WHOLE	1					731.0

1627 out

43.0

7 DEC 62 — 186.3 — 1- FISH REMAINS; 1 E; 1 SERGESTID - 1 WHOLE; 5 / "

7 Dec 62 — 18.55 — 1 UNIDENT CRUSTACEA; 1 WHOLE FISH REMAINS; 1 UNIDENT FISH?

25 Jan 63 — red sheen + bones - fish probably goldfish

15 Jan 63 — 67.5 — a muscular stomach? — no Cr, Zn+

362.2 — ✓ Zn+

" — all empty

" — 83.7 — ✓ no Cr, Zn+++

" — 511.0 — little Zn

" — 29.9 — polychaete (very small ones) — no Cr.; Zn+

" — 601.0 — Cr+; Zn+

" — 162.8 — sergestids in both — Cr? Zn++, Zn

731.0 — Cr+ Zn++

MPS-IKMT WHOLE SAMPLES
squid added to plankton except O. scicula + A. ?

No.	MT.	DEPTH	TIME + DATE			WET WT.
17 #1	300	0-150	0821	7-JAN 63	PLANKTON	11.45
					FISH	1.0
						12.45
18	300	150-500	[illegible]	7 JAN 63	PLANKTON	95.65
					FISH	85.0
						180.65
19	300	500-1000	1102	7 JAN 63	PLANKTON	20.90
					FISH	35.85
						56.75
20 #2	301	0-150	1321	7 JAN 63	PLANKTON	8.90
					FISH	0.5
						9.4

	Zn	Zr
chaetognaths, amphipods, sergested remains	100	350 ✓
1 L. leucopsarus, 1 juv rockfish	135	803
1 G. armata (Toxeuma) 35	10.8/g	64.5/g
sergestids, few carids inc. Pasiphea & reddys	67	43
2 Tactostoma	4343	2830
23 Lampanyctus	24.0/g	15.7/g
10 Diaphus		
8 T. crenularis		
3 Chauliodes (small)		
9 Nondent. (prob. Diaphus) all small		
4 Cycl. signata		
1 T. pavo ? 95		
1 Gonatus 31		
shrimp, chaetognaths, Gausia, atolla	29	25
13 Lampanyctus ?		
2 Bathylagus		
1 Rockfish juv.		
1 Japatella 95		
3 ? 2 rows suckers		
shrimp, chaetognaths, euphausid, copepod	0	790
~5 C. signata		
1 flatfish larvae		
1 ? (Macrurid ?).		

$\frac{Zr}{Zn} = 6.0$

$\frac{Zr}{Zn} = .65$

						WET WT.
21	301	150 - 500	1429	7 JAN 63	PLANKTON	111.05
					FISH	51.60
						162.65
22	301	500 - 1000	1612	7 JAN 63	PLANKTON	40.2
					FISH	53.4
						93.6
23	302	0 - 150	1822	7 JAN 63	PLANKTON	52.0
					FISH	14.2
						66.2
24	302	150 - 500	1849	7 JAN 63	PLANKTON	138.4
					FISH	95.20
						233.6

	WET WT.
ANKTON	111.05
ISH	51.60
	162.65
NKTON	40.2
ISH	53.4
	93.6
KTON	52.0
	14.2
	66.2
KTON	138.4
H	95.20
	233.6

		Zn	Zr
	euphausiids, euphausiids	84	88
1	L. ritteri		
20	Lamponyctes (mainly leucopsis)		
10	Diaphus		
6	Hygops		
2	Chauliodus (small)		
2	C. sinuata		
	shrimp, medusae, chaetognath		
1	L. nannoptus		
12	Lamponyctes		
1	Bathylagid		
1	Cyclothone		
	euphausiids, shrimp	13.5	✓ 52 p.c.
1	Lamponyctes		
11	Diaphus		
6	T. crenulatus		
~ 2	Cyclothone?		
2	Chauliodus		
	shrimp, euphausiids, caetog., copepods.	69	64
1	Tactostoma	1 M. pacifica larvae	
3	L. leucop.	1 Eucalanopsis	
2	Lamp.		
1	L. ritteri?		
4	Diaphus		
11	small Lampanyctus		
2	Bathylagus		
1	Chauliodus		
1	Scopelid		

24. (CONT')

25	302	500-1000	1959	7 JAN 63	PLANKTON	35.7	
					FISH	42.8	
						78.5	
26	303	0-150	0024	8 JAN 63	PLANKTON	107.45	
					FISH	16.40	
						123.85	
27	303	150-500	0129	8 JAN 63	PLANKTON	71.90	
					FISH	76.60	
						148.50	

			Zn	Zn
	1	O. sicula (ML = 145)		
	2	C. veranyi		47
	1	Gonatus		
		shrimp, euphausiids	27	47
	2	L. nannochir? (lg.)		
	9	L. spp. ?		
	1	Melanphaid		
	2	Cyclothone		
	1	scarsid ?		
		euphausiids, few surgestids	60	147
	1	B. ochotensis		
	7	T. crenularis		
	4	Diaphus		
	1	Cyclothone		
	1	?		
	1	Lampanyctus		
	1	A. morisii ♂ c̄ spermat.		
		shrimp, euphausiids, chach.,		
	3	L. ritteri	49	57
	15	L.		
	2	Diaphus		
	3	T. crenularis		
	1	Neoscopelarchoides		
	3	Chauliodes (small)		
	~5	Cyclothone		
	1	red ambient - photophores in ventral surf., no hooks		
	1	Japutella		
	1	Crenchid (prob. G. amata jar)		

28 303 500-1000 0309 8 JAN 63 PLANKTON 38.50
FISH 29.75
68.25

9
~6
1
1
2
1

wet wt

29 302 150-500 1 O. sicula (squid) 199.40
7 Jan 63 ML 145
2245 PST

30 O.T.C. #3 600m. S. alascansus 1178.2
27 April 1963 0451 PST

31 " " " S. alascanus G.I. 634.3

32. O.T.C #3 600m. Black Cod G.I. 240.4
27 April 1963 0451 PST

33 O.T.C #3 600m. S. alascanus (flesh) 970.6
0451

34 O.T.C #3 600m Black Cod (flesh) 1190.6
0451

35. " " Polistotrema dearni 413.0
0451 PST (whole fish)

36. O.T.C. #3 600m Dover Sole (flesh) 137.4
27 April 63 0451

37. O.T.C #2 200m Ling Cod G.I. 231.25
27 April 0030 PST

38. " " 200m Ling Cod flesh 1047.4
27 April

		Zn	Zr
	Shrimp, euphausiids	51	89
9	L. spp		
~6	Cyclothone		
1	Diaphus ?		
1	Rockfish juv.		
2	Japatella		
1	Crandul (prob. G. armata juv)		

39	O.T.C. # 2 27 April	200 m	Dover Sole (flesh)	392.5
40	OTC #5 29 April 63	2800 m 1500 fath. 0800	Cryphaenoides	469.6
41	OTC #5 29 April 63	2800 m 1500 fath. 0700	Cryphaenoides GI.	132.0
	OTC #4	1306 PST		
42	27 Apr '63	800 m	Dover Sole FLESH	290.2
43		800 m	" GI	24.9
44	S. alascanus	800	Flesh	585.1
45	"	800 m	GI	157.4
46	2 Hagfish	800 m	WHOLE	329.2

392.5

469.6

132.0

290.2
24.9

85.1
7.4

24.2

	f	GI
333	270.8	79.7
	68.8	20.1
	66.8	18.2
	74.5	13.9
	56.0	12.5
	48.2	12.8
	585.1	157.4

MT No	DATE	STATION	DEPTH	MATERIAL	SETTLED VOL. ml
353	28 Apr.	NH-50	0-150	WHOLE MT	125
			150-500		100
			500-1000		100
354			0-150		125
			150-500		175
			500-1000		125
355			0-150		250
			150-500		100
			500-1000		100
356	30 Apr.		0-150		200
	30 Apr.		150-500		175
	30 Apr.	NH-50	500-1000	WHOLE	100
381	6 July	AH-65	0-150	WHOLE	50
			150-500		100
			500-1000		100
382			0-150		100
382	6 July	AH-65	150-500	WHOLE	200

SETTLED VOL. ml	WET WT.	pc Zn^{65}	$Zn^{65}/1000 m^3$	Zn^{65}/g
125	39.04	18.40	4.35	0.47
100	50.42	16.10	1.22	0.32
100	53.96	13.54	1.02	0.25
125	72.32	23.77	4.50	0.33
175	136.32	119.44	8.37	0.88
125	48.86	8.46	0.57	0.17
250	63.60	81.83	19.34	1.29
100	44.14	91.80	6.43	2.08
100	77.12	23.96	1.30	0.31
200	113.41	57.85	13.68	0.57
175	115.12	33.31	2.74	0.29
100	120.92	20.35	1.33	0.17
50	62.86	8.97	1.70	0.14
100	52.14	38.10	3.28	0.73
100	98.30	9.44	0.62	0.10
100	43.55	16.05	1.90	0.37
200	90.89	30.05	1.58	0.33

MT. No.	DATE	STATION	DEPTH	MATERIAL	SETTLED Vol.
382	6 July	AH-65	500-1000	WHOLE	325
383	7 July		0-150		150
	7 July		150-500		125
	7 July	AH-65	500-1000	WHOLE	200
403	28 Aug		0-150	WHOLE	125
			150-500		200
			500-1000		150
404			0-150		500
			150-500		350
			500-1000		100
406			500-1000		500
407			0-150		100
			150-500		300
			500-1000		125
408			0-150		200
			150-500		200
			500-1000		250
409			0-150		200
			500-1000		50
410			0-150		100
			150-500 (409+410)		200
			500-1000		80

IAL	SETTLED Vol.	WET WT.	pc Zn^{65}	$Zn^{65}/1000 m^3$	Zn^{65}/g TOT.
LE	325	170.75	33.93	1.34	0.20
	150	51.13	45.33	9.52	0.89
	125	40.73	21.65	1.81	0.53
LE	200	137.9	8.47	0.39	0.06
LE	125	29.9	56.26	26.66	1.88
	200	82.3	115.21	16.77	1.40
	150	129.2	21.79	2.75	0.20
	500	198.9	410.96	111.07	2.07
	350	118.5	222.23	28.02	1.88
	100	37.7	13.53	0.64	0.36
	500	265.4	41.92	3.78	0.16
	100	22.4	29.22	11.07	1.30
	300	75.7	111.74	23.47	1.48
	125	23.1	10.80	1.28	0.47
	200	53.9	138.35	52.40	2.72
	200	97.6	75.13	8.88	0.77
	250	149.4	23.28	1.47	0.15
	200	51.6	81.62	51.66	1.58
	50	12.45	5.90	0.5	0.47
	100	26.20	31.30	11.86	1.19
	200	67.0	77.50	6.67	1.16
	80	32.8	8.70	0.72	0.27

(47) nos. = assigned no. on R.A. records for individual species or sample portions

* Date weighed

MT-No.	Material	Date (Cruise)	Station	Gear	Depth (m.)	Wet Wt	Dry Wt.
315 (47)	L. leucopsaurus	13 Feb '63	NH-50	MPS	0 – 1000	*31.4 g (10-Jan-64) combined	25.70
316	L. leucopsaurus	13 Feb '63	NH-50	MPS	150 – 500	48.5 g (10-Jan-64) total wet wt 79.9	
317 (48)	L. leucopsaurus	13 Feb '63	NH-50	MPS	150 – 1000	16.0 g (10-Jan-64) combined	16.40
318	L. leucopsaurus	13 Feb '63	NH-50	MPS	0 – 1000	34.6 g (10-Jan-64) total wet wt 50.6	
*436	whole sample	13 Oct '63	NH-50	MPS	0 – 150	6.6	—
	" "				150 – 500	52.2	
	" "				500 – 1000	68.5	
437	whole sample	3 Oct '63	NH-50	MPS	0 – 150	37.7	—
	" "				150 – 500	173.0	
	" "				500 – 1000	35.0	
438	whole sample	3+4 Oct '63	NH-50	MPS	0 – 150	79.0	—
	" "				150 – 500	97.8	
	" "				500 – 1000	59.8	
440	whole sample	4 Oct '63	NH-50	MPS	0 – 150		—
	" "				150 – 500		
	" "				500 – 1000	55.8	
450 – whole sample		10 Dec '63	NH-50	MPS	0 – 150 (combined	195.6	450 Com
+451 – whole sample					150 – 500 (combined	65.1	
– whole sample					500 – 1000 (combined	53.0	
~~451~~	~~plankton + fish~~	~~13 Dec '63~~	~~NH-50~~	~~MPS~~	~~0 – 150~~	~~150.0~~	—
	~~plankton + fish~~				~~150 – 500~~	~~36.2~~	
	~~plankton + fish~~				~~500 – 1000~~	~~24.4~~	

436 – 457

* Whole Samples too small for R.A. – recalled (2-17 '64) Combin

*See red astericks in MT log for specimens removed.

(m.)	* Date weighed Wet Wt		Dry Wt.	Ash Wt	Ash-free Dry Wt.	Date into R.A.	Date Out of R.A	Pico's Zn^{65}	Pico's Zn^{65} / g
	*31.4 g (10-Jan-64)	Combined	25.70	1.22	24.48 g	Jan 31, '64			
	48.5 g (10-Jan-64)								
tal wet	79.9								
	16.0 g (10-Jan-64)	Combined	16.40	0.80	15.60	Jan. 31, '64			
	34.6 g (10-Jan-64)								
wet wt	50.6								
	6.6					Jan 13 '64			
	52.2		—	—					
	68.5								
	37.7					Jan 13 '64			
	173.0		—	—					
	35.0								
	79.0					Jan 13 '64			
	97.8		—	—					
	59.8								
			—	—		Jan 13 '64			
	55.8								
d	195.6		450 + 451 Combined			Jan 20 '64			
d	65.1								
d	53.0								
	~~152.0~~					~~Jan 13 '64~~			
	~~36.0~~								
	~~24.4~~								

d (2-17 '64) Combined samples ~~see results on later pages where not given here~~

MT. No.	Material	Cruise Date	Station	Gear	Depth	*(Date weighed) Wet Wt.	Dry Wt.
452	whole sample	Dec 11, 63	NH-50	M.P.S	0-150	61.5	
	whole sample				150-500	30.5	
452+453	whole sample				500-1000	105.1	452-45
453	Whole sample lost at sea plankton + fish	Dec 11, 63	NH-50	M.P.S	0-150	34.3	
					150-500		
					~~500-1000~~	~~61.5~~	
454	whole sample	Dec 11, 63	NH-50	M P S	0-150	168.7	
454+453	Whole sample				150-500	166.1	454-45
454+455	whole sample				500-1000	66.6	Ro
455	whole sample	Dec 11, 63	NH-50	M.P.S	0-150	102.8	
	~~plankton + fish~~				~~150-500~~	~~91.9~~	
	~~plankton + fish~~				~~500-1000~~	~~22.6~~	
456	Whole sample	Dec 12, 63	NH-500	M P S	0-150	164.7	0-150
+457	Whole sample				150-500	127.0	150-50
	whole sample				500-1000	63.4	500-100
							456-45
~~457~~	~~plankton + fish~~	~~Dec 21, 63~~	~~NH-50~~	~~M.P.S.~~	~~0-150~~	~~74.2~~	
	~~plankton + fish~~				~~150-500~~	~~65.2~~	
	~~plankton + fish~~				~~500-1000~~	~~36.7~~	
316 (63)	Sergestes similis (See Weighing book for length & no.)	13 Feb 63	NH-50	MPS	500-1000	80.7* (1-16-64)	7.90
(64)	G. borealis	29 Dec 63	NH-95	Otter trawl	2000-2800	670.05* (1-17-64)	89.34
351 (49)	Hymenodoris frontalis (See Weighing Book for Length * no.)	Feb 23	AH-65	MPS	500-1000	33.95* (1-19-64)	12.93g
352	Hymenodoris frontalis (See Weighing book for length * no.)	Feb 28	NH-50	MPS	500-1000	20.66* (1-19-64)	
					total wet wt	54.61 (total)	

*(Date weighed) Wet Wt.	Dry Wt.	Ash Wt.	A.F.D.W.	Date into R.A.	Date Out of R.A.	Peco's Zn++	Peco's Zn / g
61.5				Jan 13 '64			
30.5	—	—					
105.1	452-453	Combined (50-100)		Jan 20 '64			
34.3	—	—		Jan 13 '64			
~~64.5~~							
168.7	—	—	—	Jan 13 '64			
166.1	454-455 Recombined	(150-500)	(500-1000)	Jan 20, 64			
66.6							
102.8	—	—	—	Jan 13 '64			
~~94.2~~							
~~22.6~~							
164.7	0-150			Jan 20 '64			
127.0	150-500	Combined					
63.4	500-1000						
	456-457						
~~74.2~~				Jan 13 '64			
~~65.2~~							
~~36.7~~							
80.7 *(1-16-64)	7.90	0.44	7.46	Jan 17, '64	✓		
670.05 *(1-17-64)	89.34	11.65 (Fine ash)	77.69	Jan 17, '64	Jan 20, '64		
33.95 *(1-19-64)	12.93g	0.49	12.44	Jan 24, '64 (Combined)	✓		
20.66 *(1-19-64)							
54.61 (total)							

MT	Material	Date	Station	Gear	Depth	* (Date weighed) Wet Weight	Dry Wt.
405	Whole sample (unpreserved)	8-29-'63	NH-50	MAS	0-150 150-500 500-1000		
406	Whole sample (unpreserved)	8-29-'63	NH-50	MPS	0-150 150-500		
350 350 351	Sergestes similis	4-23-'63	AH-25 AH-25 AH-65	MPS	0-150 150-500 (open) 500-1000	13.8 *(1-20-4) 61.3 *(1-20-4) 6.5 *(1-20-4) total = 81.6	13.58 g
327	Euphausids		AH-45	MPS	0-150		
306 309 314 311	Hymenodora frontalis	1-8-'63 1-8-'63 1-9-'63 1-8-'63	NH-50	MT	1000 M. total =	18.0 *(1-27-4) 20.3 *(1-27-4) 23.8 *(1-27-4) 34.0 *(1-27-4) total = 96.1	25.8
306 309 314	Sergestes similis	1-8-'63 1-8-'63 1-9-'63	NH-50	MT	1000 M total =	42.9 (1-27-64) 49.0 (1-27-64) 27.0 (1-27-64) total = 118.9	19.19
307 310 312	Sergestes similis	1-8-'63 1-8-'63 1-8-'63	NH-50	MT	500 M. total =	64.2 (1-27-64) 61.2 (1-27-64) 30.0 (1-27-64) total = 155.4	24.1
312 310 314	Chaetognaths (Mostly Sagitta scrippsae)	1-8-'63 1-8-'63 1-9-'63	NH-50	MT	500 M 500 M 1000 M total =	36.8 (1-27-64) 38.4 (1-27-64) 27.9 (1-27-64) total = 103.1	6.80

* (Date weighed) Wet weight	Dry wt.	Ash wt	A.F.D.W.	Date into R.A.	Date out of R.A.	Peco's Zn⁶⁵	Peco's Zn⁶⁵/g d.w
				Jan. 20, '64			
				Jan 20 '64			
13.8 *(1-20-'64) 61.3 *(1-20-'64) 6.5 *(1-20-'64) 81.6	13.58 g	~1.22	12.36	Jan 27 '64	✓		
				Jan 21 '64			
18.0 *(1-27-'64) 20.3 *(1-27-'64) 23.8 *(1-27-'64) 34.0 *(1-27-'64) 96.1	25.8	0.6	25.2	Jan 31 '64	✓		
42.9 (1-27-'64) 49.0 (1-27-'64) 27.0 (1-27-'64) 118.9	19.19	~2.14	17.05	Feb 4, '64	✓		
64.2 (1-27-'64) 61.2 (1-27-'64) 30.0 (1-27-'64) 155.4	24.1	2.8	21.3	Jan 31, '64	✓		
36.8 (1-27-'64) 38.4 (1-27-'64) 27.9 (1-27-'64) 103.1	6.80	1.21	5.57	Feb 3, '64	✓		

MT	Material	Date	Station	Gear	Depth	*(Date weighed) Wet Wt.	Dry Wt
—	Periphylla periphylla (97%) / Atolla vanhoeffeni (2%) (55)	29 Dec 1964	NH-95	Otter trawl	2000 m	85.6 (4 Feb '64)	3.41
305, 307, 310, 312	(56) Lampanyctus ritteri	Jan 8/9, 1963	NH-5D	MT	500 m	142.7 (3 Feb '64)	40.03
305, 307, 310	(57) Tactostoma macropus	Jan 8, 1963	NH-5D	MT	500 m	79.2 (2-3-'64)	10.06
304a	(58) E. pacifica	Jan 8 '63	NH-50	MT	200 m	174.1 (2-3-'64)	19.71
313	(59) Sagitta scrippsae	Jan 8-9, '63	NH-50	MT	200 m	7.23 (2-12-'64)	0.39
315	(60) Sagitta scrippsae	Feb 13, '63	NH-50	MPS	150-500 m	11.40 (2-12-'64)	0.78
305, 307, 310, 312	(61) Lampanyctus leucopsarus	Jan 8/9, '63	NH-50	MT	500 m	119.1	37.80
* 372	(62) Sagitta scrippsae	Apr 27 '63	NH-45	MT	200 m	36.5 (2-3-'64)	1.31
305, 307, 310, 312	(63) Diaphus theta	Jan 8-9, '63	NH-50	MT	500 m	83.7 (2-3-'64)	24.92

* Note: 63 & 64 are not in sequence because applied to earlier samples (1-17-'64)

*(Date weighed) Wet Wt.	Dry Wt	Ash Wt.	AFDW.	Date in to R. A.	Date out of R. A.	PC Zn^{65}	PC Zn^{65}/g d.w.
85.6 (4 Feb '64)	3.41			Feb 12 '64			
142.7 (3 Feb '64)	40.03	1.79	38.24	Feb 12 '64	✓		
79.2 (2-3-'64)	10.06	0.96	9.30	Feb 12 '64	✓		
174.1 (2-3-64)	19.71	1.95	17.76	Feb. 12, '64	✓		
7.23 (2-12-64)	0.39	0.05	0.34	Feb. 12 '64	✓		
11.40 (2-12-'64)	0.78	0.10	0.68	Feb 12 '64	✓		
119.1	37.80	1.82	35.98	Feb 12 '64	✓		
36.5 (2-3-64)	1.31	0.19	1.12	Feb. 17 '64	✓		
83.7 (2-3-64)	24.92	1.49	23.43	Feb 17, '64	✓		

-lier sample (1-17-6

MT	Material	Date	Station	Gear	Depth	(Date weighed) Wet Wt.	Dry Wt
376, 377	66 Tactostoma macropus	June 12, '63	NH-45 NH-65	MT	200m	81.0 (2-3, '64)	9.71
376, 377	67 Euphausia pacifica	June 12, '63	NH-45 NH-65	MT	200m	101.7 (2-3-64	12.71
376, 377	68 Lampanyctus leucopsarus	June 12, '63	NH-45 NH-65	MT	200 m	55.3 (2-3-64)	18.48
376, 377	69 Sergestes similis	June 12, '63	NH-45 NH-65	MT	200 m	43.7 (2-3-64)	6.10
306, 309, 310, 314	70 Eucopia unguiculata	Jan 8, '63	NH-50	MT	1000 m part at 500m	70.2 (2-3-63)	11.44
306, 309, 311, 314	71 Diaphus theta	Jan 8, '63	NH-50	MT	1000 m	43.8g (2-3-64)	13.10
315, 316	72 Lampanyctus nannochir	Feb 13, '63	NH-50	MPS	500-1000 m	105.3 (2-3-'64)	28.68
325, 326	73 Euphausia pacifica	Feb 24, '63	AH-65 AH-45	MT	500-1000	187.7 (2-3-64)	25.22
315, 316, 317, 318	74 Sergestes similis	Feb 13, '63	NH-50	MPS	0-1000m	229.3 (1-16-64)	29.95

(Date weighed) Wet Wt.	Dry Wt	A. W.	A.F.D.W.	Date into R.A	Dat out of R.A	Pc Zn^{65}	Pc Zn^{65}/g d.w.
81.0 (2-3-'64)	9.71	0.95	8.76	2-17-64	✓		
101.7 (2-3-64	12.71	1.17	11.54	2-17-64	✓		
55.3 (2-3-64)	18.48	1.01	17.47	2-17-64	✓		
43.7 (2-3-64)	6.10	0.79	5.31	Feb 17-64	✓		
70.2 (2-3-'63)	11.44	0.59	10.85	Feb 17, 64	✓		
43.8g (2-3-'64)	13.10	0.69	12.41	Feb 24, 64	✓		
105.3 (2-3-'64)	28.68	1.73	26.95	Feb 24, 64	✓		
187.7 (2-3-'64)	25.22	2.29	22.93	Feb 24, 64	✓		
229.3 (1-16-64)	29.95	2.29	27.66	Feb 24, 64	✓		

MT		Material	Date	Station	Gear	Depth	(date weighed) Wet Weight	Dry Wt.
306 309 311	75	Lampanyctus leucopsaurus	Jan 8-9, 63	NH-50	MT	1000 m	137.9 (2-3-64)	43.27
374	76	E. pacifica	June 4, 63	NH-55	MT	200 m	187.1 (1-27-64)	24.55
315	77	L. conoidea 95% A. digitalis 2%	Feb 13, 63	NH-50	MPS	150-500	28.7 (2-11-64)	0.85
371 372	78	Mn Sergestes similis	May 26-27, 63	NH-65 NH-45	MT	200 m	46.3 (2-3-64)	6.92
371 372	79	Euphausia pacifica	May 26-27 63	NH-65 NH-45	MT	200 m	71.9 (2-3-64)	7.65
371 372	80	Mn Tactostoma macropus	May 26-27 63	NH-65 NH-45	MT	200 m	68.0 (2-3-64)	—
371 372	81	Lampanyctus leucopsaurus	May 26-27 63	NH-65 NH-45	MT	200 m	89.7 (2-3-64)	*28.70
322	82	Diaphus theta	Feb 22, 63	NH-45	MT	200 m	66.7 (2-3-64)	19.36
322	83	Tactostoma macropus	Feb 22 63	NH-45	MT	200 m	82.6 (2-3-64)	9.48
322	84	Lampanyctus leucopsaurus	Feb 22 63	NH-45	MT	200 m	55.3 (2-3-64)	17.35
322	85	Euphausia pacifica	Feb 22 63	NH-45	MT	200 m	95.5 (2-3-64)	10.68
325 326	86	Sergestes similis	Feb 24 63	AH-45 AH-65	MT	200 m	54.8 (2-3-64)	8.29

* figu

(date weighed) Wet Weight	Dry Wt.	Ash Wt.	A.F.D.W.	Date into R.A.	Date out of R.A.	Pc Zn^{65}	Pc Zn^{65}/g d.w.
137.9 (2-3-'64)	43.27	2.05	41.22	2-24-'64			
187.1 (1-27-'64)	24.55	3.79	21.05	2-24-'64			
28.7 (2-11-'64)	0.85	0.41	0.44	2-17-'64			
46.3 (2-3-'64)	6.92	0.83	6.09	2-17-64			
71.9 (2-3-'64)	7.65	0.88	6.77	2-17-'64			
68.0 (2-3-'64)	——	0.85	*~7.65	2-17-'64			
89.7 (2-3-'64)	*28.70	1.58	27.12	2-17-'64			
66.7 (2-3-'64)	19.36	1.27	18.09	2-24-'64			
82.6 (2-3-'64)	9.48	0.92	8.56	2-24-'64			
55.3 (2-3-'64)	17.35	0.88	16.47	3-23-'64			
95.5 (2-3-'64)	10.68	0.70	9.88	2-25-'64			
54.8 (2-3-'64)	8.29	1.00	7.29	2-25-'64			

* figured on basis of previous figure

MT		Material	Date	Station	Gear	Depth	(date weighed) Wet Weight	Dry Wt.
825 826	87	Tactostoma macropus	Feb 24 '63	AH-45 AH-65	MT	200m	81.0 (2-3/4)	8.53
825 826	88	Lampanyctus leucopsarus	Feb 24 '63	AH-45 AH-65	MT	200m	56.6 (2-3/4)	16.23
825	89	Aglantha digitale	Feb 24 '63	AH-65	MT	200 m	27.6 (2-3/4)	1.04
467 468 469 470 471	90	Pleurobrachia bachii	Feb. 8 '64	NH-50	MT	200m	103.0 (3-10-4)	3.88
467 468 469 470 471	91	Beroe spp	Feb 8, '64	NH-50	MT	200 m	144.2 (3-10-4)	6.29
467 468 472 473	92	Atolla vanhoeffen	Feb 8 '64	NH-50	MT	200 + -1000 m	91.3 (3-10-4)	4.03
468 468 469 470 471	93	Periphylla periphylla	Feb 8 '64	NH-50	MT	200 m	62.8 (3-10-4)	2.41
467 468 469 470 471	94	Sagitta scrippsae	Feb 8, '64	NH-50	MT	200m	82.4 (3-10-4)	5.31

(date weighed) Wet Weight	Dry Wt.	Ash. Wt.	A.F.D.W.	Date into R.A.	Date out of R.A.	Pc Zn^{65}	Pc Zn^{65}/g d.w.
81.0 (2-3-64)	8.53	0.82	7.71	2-24-64			
56.6 (2-3-64)	16.23	0.88	15.35	2-25-64			
27.6 (2-3-64)	1.04			3-23-64			
103.0 (3-10-64)	3.88			3-23-64			
144.2 (3-10-64)	6.29			3-23-64			
91.3 (3-10-64)	4.03			3-23-64			
62.8 (3-10-64)	2.41			3-23-64			
82.4 (3-10-64)	5.31			3-23-64			

MT		Material	Date	Station	Gear	Depth	Date weighed Wet wt	Dry wt.
467 468 469	95	Lensia conoidea	Feb 8 '64	NH-50	MT	200m	69.1 (3-10-64)	2.32
470 471	96	Lensia conoidea	Feb 8, '64	NH-50	MT	200m	49.9 (3-10-'64)	1.88
473	97	Sagitta scrippsae	Feb 8, '64	NH-50	MT	1000 m	81.3 (3-10-64)	3.20
470 471	98	Euphausia pacifica	Feb 8, '64	NH-50	MT	200m	93.7 (3-10	12.53
467	99	E. pacifica	Feb 8, '64	NH-50	MT	200 m	132.0	19.78
468 469	100	E. pacifica	Feb 8, '64	NH-50	MT	200 m	135.3	18.17
473	101	Octopodoteuthis sicula	Feb 8, '64	NH-50	MT	1000 m	81.3	5.61

Note Samples numbered 102 – on and MPS (whole sample) numbered higher than #57, entered on "Radioanalysis Data Sheets - Nekton"

(date weighed) Wet Wt	Dry Wt.	Ash Wt	A.F.D.W.	Date into R.A.	Date out of R.A.	Pc Zn^{65}	Pc Zn^{65}/g dry wt
69.1 (3-10-64)	2.32			3-23-64			
49.9 (3-10-64)	1.88			3-23-64			
81.3 (3-10-64)	3.20			3-23-64			
93.7 (3-10	12.53	1.87	10.66	3-24-64			
137.0	19.78	4.21	15.57	3-24-64			
135.3	18.17	2.50	15.67	3-24-64			
81.3	5.61	0.34	5.27	3-24-64			

numbered
whole samples
7, entered
Sheets -

	Weight Grams	Station	Date	Haul No.	Depth	Sample Contents
21	111.05	NH-50	Jan 7, '63	301 ✓	#2 150-500	plankton
	51.60	NH-50	Jan 7, '63	301 ✓	#2 150-500	fish
20	8.90	NH-50	Jan 7, '63	301 ✓	#2 0-150	plankton
	0.5	NH-50	Jan 7, '63	301 ✓	#2 0-150	fish
22	40.2	NH-50	Jan 7, '63	301 ✓	#2 500-1000	plankton
	53.4	NH-50	Jan 7, '63	301 ✓	#2 500-1000	fish
✓19	35.85	NH-50	Jan 7 '63	300 ✓	#1 500-1000	fish
	20.90	NH-50	Jan 7, '63	300 ✓	#1 500-1000	plankton
✓18	95.65	NH-50	Jan 7, '63	300 ✓	#1 150-500	plankton
	1.0	NH-50	Jan 7, '63	300 ✓	#1 0-150	fish
✓17	85.0	NH-50	Jan 7, '63	300 ✓	#1 150-500	fish
	11.45	NH-50	Jan 7, '63	300 ✓	#1 0-150	plankton
28	38.50	NH-50	Jan 8, '63	303 ✓	#4 500-1000	plankton
	29.75	NH-50	Jan 8, '63	303	#4 500-1000	fish
27	76.60	NH-50	Jan 8, '63	303 ✓	#4 150-500	fish
	71.90	NH-50	Jan 8, '63	303 ✓	#4 150-500	plankton
26	107.45	NH-50	Jan 8, '63	303 ✓	#4 0-150	plankton
	16.40	NH-50	Jan 8, '63	303 ✓	#4 0-150	fish
25	35.7	NH-50	Jan 7, '63	303 ✓	#3 500-1000	plankton
					#3	

	7.0	NH-50	Jan 7, '63	300 ✓	#1 0-150	fish
✓17	85.0	NH-50	Jan 7, '63	300 ✓	#1 150-500	fish
	11.45	NH-50	Jan 7, '63	300 ✓	#1 0-150	plankton
28	38.50	NH-50	Jan 8, '63	303 ✓	#4 500-1000	plankton
	29.75	NH-50	Jan 8, '63	303	#4 500-1000	fish
27	76.60	NH-50	Jan 8, '63	303 ✓	#4 150-500	fish
	71.90	NH-50	Jan 8, '63	303 ✓	#4 150-500	plankton
26	107.45	NH-50	Jan 8, '63	303 ✓	#4 0-150	plankton
	16.40	NH-50	Jan 8, '63	303 ✓	#1 0-150	fish
25	35.7	NH-50	Jan 7, '63	303 ✓	#3 500-1000	plankton
	42.8	NH-50	Jan 7, '63	303 ✓	#3 500-1000	fish
24	95.20	NH-50	Jan 7, '63	303 ✓	#3 150-500	fish
	138.40	NH-50	Jan 7, '63	303 ✓	#3 150-500	plankton
29	199.40	NH-50	Jan 7, '63	303 ✓	#3 150-500	squid
23	14.2	NH-50	Jan 7, '63	303 ✓	#3 0-150	fish
	52.0	NH-50	Jan 7, '63	303 ✓	#3 0-150	plankton

			500		1000		200	
			280	277	281	278	279	276
X	✓	L. leucop.	48✓	75✓	18	17	28	18
X	✓?	L. ottleri	10	6	1	2	2	
	✓	T. crev	12	10	13	9	26	1
	✓	D. theta	13	7	4	9	19	8
		L.						
X	✓	T macropus	11	23	3	1		
X	✓	C. maconni	14	26	—	5		
	A	~~L. reynbis~~	~~8~~	~~5~~	~~1~~	~~3~~		
X	A	Bathylagus	2	2	—	4		
	?	~~Neoscop~~		3	—	1		
X	A	Nannobrachium	—	—	6	6		
		~~microstom~~				16		
X		! Melamphaes				2		

X	A	Nannochir	—	—	6	6
		~~microdon~~				16
X		Melanphaes				2

✓ L. rettere in 278a

#6	D theta		56.5 g	
#7	L leucop.		133.7	
#8A	T. macropus	A	~~140.0~~	147.0
8B	"	B	161.7	