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R.1/7

5MR64

CRUISE REPORT

F.R.V. "M A R A"

13th April-1st May, 1964

"Mara" and "Platessa" made contact in Aberdeen on the 13th and sailed that night. It was decided in view of the weather prevailing that the passage to the West Coast would be made through the canal. This took longer than anticipated with a hold-up at Corpach where the sea lock gate was being repaired. The two vessels reached Oban on Friday 17th.

Rather than steam northwards to the Minch it was decided that fishing should start on the Dubh Heartach grounds and trawling commenced there on the 20th. Fishing was light and the following day hauls were made at Colinsay and Gigha. Few fish were caught there either and the gear suffered considerable damage. It was decided to move to the Clyde and the vessels reached Campbeltown late on the 21st. Most of the following forenoon was spent mending.

The remainder of the week until Friday 24th was spent in the Clyde where a good pitch and some fair fishing was located. Over the weekend Mr. Dickson and Mr. Carrothers joined "Mara" and Mr. Mowat left her. Comparative fishing continued fairly successfully from the 27th to the 29th on which day "Platessa" had to leave and proceed to Fleetwood.

An analysis of the results is proceeding, but in general the wing trawl when rigged with the larger otterboards took more whiting, but less bottom fauna. Details of the warp spread and warp drag were electronically recorded aboard "Mara".

After "Platessa" left more instruments were unpacked with the intention of spending two days on instrument work as a background to the comparative fishing experiment and also as an assessment of net drag. The MKIA electronic spreadmeter was found to have been damaged in transit. The 30th was spent repairing the damage to the spreadmeter but it could not be made operational. The load cells for measuring the tension in front of and behind the otterboards were made ready for use. The weather was too bad to go out that day nor was the next any better for effective instrumented gear testing. Instruments and instrument racks were dismantled and packed ready for transport to Aberdeen, the cruise thus terminating on 1st May.

W. DICKSON  
22nd May, 1964.

HAUL No. M64/23 DATE 20.4.64 AREA Xx IIc LARGE/SMALL MESH

DURATION OF HAUL 1 1/4 hrs No. of SHEETS 1.

*Whisking*

*Haddock*

20

20

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COUNT

COUNT

COUNT

RANGE

RANGE

RANGE

FRACTION SAMPLED

FRACTION SAMPLED

FRACTION SAMPLED

*All*

*All*

*8*

HAUL No. M.64/23

LARGE/SMALL MESH.....

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5

1 COUNT  
 2 RANGE  
 3 FRACTION SAMPLED

4	SPECIES			
5	Herring	m	1/21	1/22 1/23
6	Spot	m	1/10	3/11 1/12 1/13
7	T. Eschmulleri	m	1/16	

COUNT  
 RANGE  
 FRACTION SAMPLED

HAUL No. M 63/26 DATE 20/4/66 AREA XX11c LARGE/SMALL MESH

DURATION OF HAUL 1 hr 30 mins No. of SHEETS 2

P. frachyana		R. clavata		Naves	
♀	♂	♀	♂	♀	♂
20		0		0	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	1
30		30		30	
1		1	1	1	
2		2	2	2	1
3		3		3	
4		4		4	
5		5	2	5	
6		6		6	
7		7	3	7	
8		8	1	8	1
9	1	9	2	9	
40		40		40	
1		1		1	
2		2		2	
3		3		3	
4	2	4	1	4	
5		5	1	5	
6		6	1	6	
7	1	7		7	
8		8	1	8	
9		9		9	
50		50		0	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
5		14		2	
3		1		1	
8		15		3	
1/66					
COUNT	-	COUNT	-	COUNT	-
RANGE	-	RANGE	-	RANGE	-
FRACTION SAMPLED		FRACTION SAMPLED		FRACTION SAMPLED	
	ALL		ALL		ALL

HAUL No. M63/24

~~LARGE/SMALL MESH~~

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5

1 COUNT

2 RANGE

3 FRACTION SAMPLED

4 SPECIES

5 *R montana* 2 of  $\frac{1}{40}$   $\frac{1}{38}$

6

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0

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9

COUNT

RANGE

FRACTION SAMPLED

HAUL No. M 63 / 26 DATE 20/6/66 AREA XXII C LARGE/SMALL MESH

DURATION OF HAUL 1 hr 30 mins No. of SHEETS 2

✓ Hardloch m		✓ Whelms M		✓ L Sh M	
20		10		10	
1	1	1		1	
2		2		2	
3	6	3		3	
4		4		4	
5	13	5		5	
6	13	6		6	2
7	25	7		7	
8	17	8		8	
9	10	9	1	9	2
30		20	7	20	
1	1	1	8	1	1
2	1	2	31	2	
3		3	64	3	1
4		4	63	4	3
5		5	56	5	
6		6	46	6	2
7	2	7	33	7	2
8		8	13	8	1
9	1	9	12	9	4
40		30	5	30	2
1	1	1	3	1	
2		2	2	2	
3		3	2	3	
4	1	4	2	4	
5		5		5	
6		6		6	
7		7	2	7	
8		8		8	
9		9		9	
0		0		40	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
	96		350		20
COUNT	—	COUNT	—	COUNT	—
RANGE	—	RANGE	—	RANGE	—
FRACTION SAMPLED	ALL	FRACTION SAMPLED	ALL	FRACTION SAMPLED	ALL

	Shutt	Idemoney	✓ Ty esmarchi	✓ Saathe
	M	M	M	M
10	1	16	06	26
1	5	7	7	7
2	3	8	8	8
3	7	9	14	9
4	3	20	35	30
5	1	76	1	1
6	2	18	2	2
7	3	10	3	3
8	4	3	4	4
9	5	3	15	5
20	6	6	6	36
1	7	7	7	7
2	8	8	8	8
3	9	9	9	9
4	30	20	3	40
5	1	1	1	1
6	2	2	2	2
7	3	3	3	3
8	4	4	4	4
9	5	5	25	5
0		159	136	83
1				17

COUNT —  
 RANGE —  
 FRACTION SAMPLED All All All

SPECIES

5	Johnsons	1	$\frac{1}{25}$						
6	✓ mackerel	1	$\frac{1}{37}$						
7	✓ Cod	8	$\frac{1}{17}$	$\frac{1}{18}$	$\frac{1}{24}$	$\frac{1}{46}$	$\frac{1}{52}$	$\frac{1}{57}$	$\frac{1}{68}$
8	✓ Squalus	4	♀						
9	✓ B. turbot	1	$\frac{1}{43}$						
0	✓ Platy	6	$\frac{1}{22}$	$\frac{1}{26}$	$\frac{1}{27}$	$\frac{1}{28}$	$\frac{1}{30}$	$\frac{1}{36}$	
1	✓ W. Mh	1	$\frac{1}{24}$						
2	✓ Mesurus	3	$\frac{1}{30}$	$\frac{1}{32}$	$\frac{1}{42}$				
3	✓ LRD	1	$\frac{1}{16}$						
4	✓ C. Dub	11	$\frac{5}{13}$	$\frac{2}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{19}$	$\frac{1}{22}$	$\frac{1}{25}$
5									
6	✓ Gymn	3	$\frac{1}{17}$			$\frac{1}{20}$	$\frac{1}{29}$		
7	✓ Squal	1	♀	$\frac{1}{50}$					
8									
9	✓ Angler	1	$\frac{1}{23}$						
19	✓ Callionymus	4	$\frac{1}{19}$	$\frac{1}{21}$	$\frac{2}{23}$				

COUNT  
 RANGE  
 FRACTION SAMPLED  
 Loligo 3  $\frac{1}{5}$   $\frac{1}{7}$   $\frac{1}{15}$   
 Masked Crab 1

HAUL No. M 66/25 DATE 20.4.64 AREA XY11c LARGE/SMALL MESH

DURATION OF HAUL 1 hr. No. of SHEETS 2

Whitewash		Kuddech		L. Sides		Placers	
Meas		Meas		Meas			
10		10		10			
1		1		1			
2		2		2			
3		3		3			
4		4		4			
5		5		5			
6		6		6	1		
7		7		7			
8		8		8	1		
9		9		9	2		
20	3	20	2	20	1		
1	6	1	1	1	2		1
2	16	2		2	2		
3	21	3		3	2		1
4	39	4		4	2		
5	32	5		5			
6	25	6		6	3		2
7	22	7		7	3		3
8	5	8		8	3		3
9	7	9		9	7		2
30	4	30	6	30	1		1
1	2	1	4	1	1		1
2		2		2			
3	1	3		3			
4	1	4		4	1		
5		5		5			
6		6		6			1
7		7		7	1		
8		8		8			
9		9		9			
40		40		40			
1		1		1			
2		2		2			
3		3		3			
4		4		4			
5		5		5			
6		6		6			
7		7		7			
8		8		8			
9		9		9			
	<u>184</u>		<u>100</u>		<u>31</u>		<u>15</u>
COUNT	—	COUNT	—	COUNT	—		—
RANGE	—	RANGE	—	RANGE	—		—
FRACTION SAMPLED	—	FRACTION SAMPLED	—	FRACTION SAMPLED	—		—
	All		All		All		All



HAUL No. M64/25

LARGE/SMALL MESH.....

No	✓ Drognet Meas	✓ Newby 1/15		06	T. Esmerlin Meas	T. Esmerlin Meas	T. Esmerlin Meas	T. Esmerlin Meas	T. Esmerlin Meas
		06	1						
10		06	4	06					6
1		17	2	7					7
2		18	3	8					8
3		9		9					9
4		20		10				20	3
5	1	1		1				1	7
6		2		2	2			1	2
7	1	3	1	3	3			1	3
8	1	4		4	6			9	4
9	1	5	2	5	12			10	25
20		26		6	4			23	6
1	1	7		7	2			15	7
2		8		8	1			15	8
3	2	9		9				4	9
4	2	30		20				2	0
5	1	1		1					1
6		2	1	2					2
7	1	3		3					3
8		4		4					4
9		5		5					5
30			14		30			81	11

1 COUNT -  
 2 RANGE -  
 3 FRACTION SAMPLED All All All All  
 4 SPECIES

5 Drognet Meas  
 6 ✓ Cod " 1/18 1/18 2  
 7 John Dory " 1/29 1  
 8 ✓ Bill Tubas " 1/43 1

9  
 0  
 1  
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 9  
 11

COUNT -  
 RANGE -  
 FRACTION SAMPLED All  
 Masked Crabs 1  
 Cancer Parasites 1  
 Lollipops  
 1/35

HAUL No. M64/25 DATE 20.4.64 AREA XX1c LARGE/SMALL MESH

DURATION OF HAUL 1 hr No. of SHEETS 2

*R Clavata*  
♀ near ♂

*R Brachyura*  
♀ near ♂

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6: 1

1

8: 1

1

1: 1

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6: 1

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9

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COUNT /  
RANGE /  
FRACTION SAMPLED  
All

COUNT /  
RANGE /  
FRACTION SAMPLED  
All

COUNT  
RANGE  
FRACTION SAMPLED

✓C.D.A.B

Hours

10		6	6	6
1	6	7	7	7
2	4	8	8	8
3	11	9	9	9
4	14	0	0	0
5	10	1	1	1
6	6	2	2	2
7	1	3	3	3
8	1	4	4	4
9	3	5	5	5
20	3	6	6	6
1	1	7	7	7
2	1	8	8	8
3		9	9	9
4		0	0	0
5		1	1	1
6		2	2	2
7		3	3	3
8		4	4	4
9	1	5	5	5
30	1			

1	COUNT								
2	RANGE								
3	FRACTION SAMPLED								
4	SPECIES								
5	✓W. sh	Hours	$\frac{1}{33}$						
6									
7	✓Meyna	"	$\frac{1}{30}$	$\frac{1}{42}$					
8									
9	✓Sullivans	"	$\frac{1}{50}$	$\frac{1}{58}$	$\frac{1}{10}$	$\frac{1}{64}$	$\frac{1}{67}$	$\frac{1}{68}$	$\frac{1}{79}$
10	✓Squillidae	"	$\frac{1}{53}$						
1									
2									
3	✓Eod	"	$\frac{1}{29}$	$\frac{1}{32}$					
4									
5	✓Sauris	"	$\frac{1}{36}$	$\frac{1}{48}$	$\frac{1}{43}$	$\frac{1}{45}$	$\frac{1}{46}$	$\frac{1}{55}$	
6									
7									
8									
9									

63

COUNT ✓  
 RANGE ✓  
 FRACTION SAMPLED All

HAUL No. M64/26 DATE 21/4/66 AREA XX11d LARGE/SMALL MESH  
 DURATION OF HAUL 1 1/2 hrs No. of SHEETS 1

*Whitman*

*140000h*

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COUNT *NIL*  
 RANGE  
 FRACTION SAMPLED

COUNT *NIL*  
 RANGE  
 FRACTION SAMPLED

COUNT  
 RANGE  
 FRACTION SAMPLED

✓ WITCH/LRO ✓				<del>WITCH</del>				✓ G. m. m. d. s.			
10		1	16					06			6
1		1	7					7			7
2		2	8					8			8
3		3	9					9			9
4		2	20					10	1	5	0
5		2	1					1	1	5	1
6		1	2					2		1	2
7	2	1	23					3	1	5	3
8		2	4					4		2	4
9	1	3	25					5		1	5
20			6					6			6
1	1	3	27					7			7
2		1	8					8		1	8
3		1	9					9			9
4	1		30					20			0
5	1		1					1			1
6	3		2					2			2
7		1	3					3			3
8	2		4					4			4
9			5					5			5
30	1							20			

	COUNT	RANGE	FRACTION SAMPLED	SPECIES
1	2			<del>Skates</del>
2	1			✓ R Clavata
3	1			✓ Callinectes
4	3			✓ Wrasse (Present)
5	2			✓ Angler
6	3			✓ EDAB
7	2			✓ COD
8				✓ L Sole
9	1			Comp. eel
10	1			✓ G Esomus
11				✓ Lymanus
12				Shrimp
13				Br Shrimp
14				Penaeus
15				Nephrops
16				Beech
17				1 Basket
18				<del>WITCH</del>
19				$\frac{1}{20}$ (Several smaller)

$\frac{1}{16}$	$\frac{1}{31}$	$\frac{2}{32}$	$\frac{1}{39}$	$\frac{1}{49}$	$\frac{3}{52}$	$\frac{1}{55}$	$\frac{2}{57}$	$\frac{1}{69}$
$\frac{1}{23}$	$\frac{1}{25}$	Rdwr		$\frac{1}{61}$	$\frac{1}{64}$	$\frac{1}{8}$	$\frac{1}{49}$	
$\frac{1}{29}$	$\frac{1}{14}$							
$\frac{1}{14}$	$\frac{2}{17}$							3
$\frac{1}{59}$	$\frac{1}{69}$							2
$\frac{1}{17}$	$\frac{1}{46}$							1
$\frac{1}{10}$	$\frac{1}{13}$	$\frac{1}{14}$	$\frac{1}{16}$	$\frac{4}{17}$	$\frac{1}{19}$			9
$\frac{1}{22}$	$\frac{2}{30}$	$\frac{1}{35}$						4

29 | 24

HAUL No. M64/27 DATE 21.4.64 AREA YY10c LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 No. of SHEETS 2

✓ Whiting

✓ Haddock

10	
1	
2	
3	1
4	1
5	6
6	13
7	24
8	15
9	28
20	5
1	6
2	2
3	3
4	12
5	15
6	8
7	8
8	5
9	2
30	1
1	1
2	
3	
4	
5	
6	
7	
8	
9	
0	
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2	
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4	
5	
6	
7	
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10	
1	
2	
3	
4	
5	1
6	3
7	4
8	7
9	9
20	3
1	1
2	1
3	1
4	
5	25
6	3
7	4
8	2
9	
30	1
1	
2	2
3	3
4	2
5	
6	2
7	1
8	3
9	3
40	1
1	1
2	
3	
4	
5	1
6	1
7	
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156

1/53

62

COUNT ✓  
RANGE ✓  
FRACTION SAMPLED

All

COUNT ✓  
RANGE ✓  
FRACTION SAMPLED

All

COUNT ✓  
RANGE ✓  
FRACTION SAMPLED

	✓ T esmorker	Ruffs Brachy Clavata	✓ Gymnoral $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{15}$	Hemmis
10		6	16	6
1	1	7	7	7
2	4	8	8	8
3	7	9	9	9
4	2	0	20	20
5	4	1	1	1
6		2	2	2
7		3	3	3
8		4	4	4
9		5	5	25
20		6	26	6
1		7	7	7
2		8	8	8
3		9	9	9
4		0	30	30
5		1	1	1
6		2	32	2
7		3	3	3
8		4	4	4
9		5	35	5

30			41	137
1	COUNT		✓	+ 2 Baskets $\frac{1}{2}$ Cor
2	RANGE		✓	as above
3	FRACTION SAMPLED		All	All

	SPECIES										
5	✓ COD	$\frac{1}{62}$	$\frac{1}{67}$	$\frac{1}{68}$	$\frac{1}{72}$	$\frac{1}{78}$		5			
7	R Brachyura	♀ $\frac{1}{56}$	$\frac{2}{57}$					3			
9	R Nereis	♀ $\frac{1}{14}$	$\frac{1}{33}$	♂ $\frac{1}{38}$				3			
1	R Clavata	♀ $\frac{1}{26}$	$\frac{1}{29}$	$\frac{1}{30}$	$\frac{1}{33}$	$\frac{1}{34}$	$\frac{1}{37}$	$\frac{1}{38}$	$\frac{1}{42}$	$\frac{1}{47}$	$\frac{1}{50}$
3	R Montanini	♀ $\frac{1}{20}$	$\frac{1}{31}$	$\frac{2}{34}$	♂ $\frac{1}{42}$	$\frac{1}{43}$	$\frac{1}{44}$				
5	✓ Squilla	$\frac{1}{63}$									1
7	✓ Scyllium	♀ $\frac{1}{40}$	$\frac{1}{65}$								2
9	✓ Borel	$\frac{1}{32}$	$\frac{1}{35}$	$\frac{1}{44}$							3

18											
COUNT	✓	✓ Black Sole	$\frac{1}{26}$								1
RANGE	✓										
FRACTION SAMPLED	All										

Hemmis + other Dunes

HAUL No. M64/27 DATE 21.4.64 AREA Y.Y.D.C. LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 No. of SHEETS 2

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED



HAUL No. M64(27)

LARGE/SMALL MESH

✓ C O A B		✓ L Sole.		✓ Plann		✓ Watch	
00		16		16		16	
1		7		7		7	
2		8		8		8	
3		9		9		9	
4		20		20		20	
5		1		1		1	
6		2	1	2	1	2	
7		3		3		3	
8		4	1	24	1	4	
9		25		5		25	3
10	2	6		6	2	6	1
1	3	7	1	27	1	7	1
2	1	8	1	28	1	8	1
3	1	9	1	9		9	1
4	3	30	1	0		30	
5	3	1	1	31	1	1	2
6		2		2		2	
7	3	3		3		3	
8	3	4		4		4	2
9	1	5		35	1	5	
20	1		7		8		11

COUNT = = =  
 RANGE = = =  
 FRACTION SAMPLED All All All  
 SPECIES

6 1 ✓ Meyrin  $\frac{1}{26}$   $\frac{1}{28}$   $\frac{1}{29}$  3  
 8 ✓ T minutis  $\frac{1}{16}$  1

22

COUNT ✓  
 RANGE ✓  
 FRACTION SAMPLED All

HAUL No. MBL/26 DATE 22.4.64 AREA 4496 LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 No. of SHEETS 1

HAPOOCK

WHITING

mess		mess		mess
0		0		0
1	1/42	1		1
2		2		2
3		3		3
4		4		4
5		05		5
6		6		6
7		7		7
8		8		8
9		9		9
0		10		0
1		11		1
2		12		2
3		13	1	3
4		14	2	4
5		15	4	5
6		16	H	6
7		17	H	7
8		18	H	8
9		19	H	9
0		20		0
1		21	5	1
2		22	5	2
3		23	H	3
4		24	HH	4
5		25	H	5
6		26	H	6
7		27	H	7
8		28	H	8
9		29	H	9
0		30	i	0
1		1	H	1
2		2	H	2
3		3	H	3
4		4	H	4
5		5	H	5
6		6	H	6
7		7	H	7
8		8	H	8
9		30		9

COUNT 1  
 RANGE 1  
 FRACTION SAMPLED All

COUNT 156  
 RANGE 1  
 FRACTION SAMPLED All

COUNT  
 RANGE  
 FRACTION SAMPLED

	✓ ARGENTINE	✓ Herring $\frac{1}{16}$	✓ Shrews
0	16	16	06
1	7	2 7	2 7
2	8	5 8	1 8
3	9	6 9	4 9
4	20	1 20	32 10
5	1	1 1	53 1
6	2	2 2	36 2
7	3	3 3	21 3
8	4	4 4	3 4
9	25	25	4 15
0	6	6	6
1	7	7	1 7
2	8	8	1 8
3	9	9	9
4	30	30	20
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0		<u>16</u>	<u>158</u>

1	COUNT	-	294	153	132
2	RANGE	-	-	-	-
3	FRACTION SAMPLED	All	All	All	
4	SPECIES				
5	✓ Bearded Rockling	meas	$\frac{1}{21}$		1
6	✓ COD	"	$\frac{1}{66}$ $\frac{1}{70}$ $\frac{1}{80}$		3
7	✓ Plaice	"	$\frac{1}{28}$		1
8	✓ CDAB	"	$\frac{2}{16}$ $\frac{1}{21}$		3
9	✓ Witch	"	$\frac{1}{26}$		1
0	✓ LRD	"	$\frac{1}{10}$ $\frac{5}{11}$ $\frac{1}{15}$		8
1	✓ G-Esmark	"	$\frac{1}{16}$ $\frac{2}{15}$		3
2	✓ G-Munk	"	$\frac{2}{15}$ $\frac{1}{17}$		3
3	✓ G. Luscus	"	$\frac{1}{31}$		

COUNT					
RANGE	Octopus	"	1		
FRACTION SAMPLED	Squid	Abalones	$\frac{1}{12}$		

HAUL No. M 64/29 DATE 22.4.64 AREA 4496 LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 hrs. No. of SHEETS 1

WHITING

00		0	0
1		1	1
2		2	2
3		3	3
4		4	4
5		5	5
6		6	6
7		7	7
8		8	8
9		9	9
10		0	0
1		1	1
2		2	2
3		3	3
4		4	4
5		5	5
6		6	6
7		7	7
8		8	8
9		9	9
20		0	0
1		1	1
2		1	2
3		5	3
4		4	4
5	H	10	5
6	H	8	6
7	H	15	7
8	H	8	8
9	H	7	9
30		7	0
1		2	1
2		1	2
3		2	3
4		1	4
5			5
6			6
7			7
8		1	8
9			9
40		1	

COUNT

RANGE

FRACTION SAMPLED

— 73

COUNT

RANGE

FRACTION SAMPLED

COUNT

RANGE

FRACTION SAMPLED

See

HAUL No. M64/25

LARGE/SMALL MESH

			Shells	Herring
			Mass	Mass
0	6	06		16
1	7	7	1	7
2	8	8		8
3	9	9	1	9
4	0	10	3	20 HH
5	1	1	4	1 HHHHH HHHH
6	2	2	5	2 HHHHH HHHH
7	3	3		3 HHH
8	4	4		4  :
9	5	15		5 :
0	6	6		26
1	7	7		7
2	8	8		8
3	9	9		9
4	0	20		0
5	1	1		1
6	2	2		2
7	3	3		3
8	4	4		4
9	5	5		5
0			14	228

1	COUNT	/	3 x 1/2 cream Baskets
2	RANGE	/	/
3	FRACTION SAMPLED	1/7	All.
4	SPECIES		
5	Argentine Mussels	2/22 2/23	
6			
7	Wurse	1/2 (preserved)	
8			
9			
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			

COUNT  
RANGE  
FRACTION SAMPLED

HAUL No. m64/31 DATE 23.4.64 AREA 229a LARGE/SMALL MESH

DURATION OF HAUL 1 hr No. of SHEETS 1

*Whiting.*

Meas

10		0	0
1		1	1
2	1	2	2
3	3	3	3
4	8	4	4
5	7	5	5
6	14	6	6
7	21	7	7
8	23	8	8
9	25	9	9
20	13	0	0
1	16	1	1
2	9	2	2
3	21	3	3
4	27	4	4
5	35	5	5
6	34	6	6
7	34	7	7
8	27	8	8
9	15	9	9
30	16	0	0
1	7	1	1
2	9	2	2
3	4	3	3
4		4	4
5		5	5
6	1	6	6
7		7	7
8	2	8	8
9	1	9	9
40		<del>50</del>	0
1		1	1
2	1	2	2
3		3	3
4		4	4
5		5	5
6		6	6
7		7	7
8		8	8
9		9	9

~~WHITING~~

$\frac{1}{54}$

375

COUNT	—	COUNT	—	COUNT	—
RANGE	—	RANGE	—	RANGE	—
FRACTION SAMPLED	ALL	FRACTION SAMPLED		FRACTION SAMPLED	

	H A K E		G Esmarkis		G minutes	
0	06		06		06	
1	7		7		7	
2	8		8		8	
3	9		9		9	
4	10		10		10	
5	1	1	1		11	
6	2	2	2		2	
7	3	8	3	4	3	
8	4	5	4	3	4	1
9	15	6	15	5	15	6
0	6	5	6	3	6	2
1	7	7	7	1	7	2
2	8	3	8	2	18	1
3	9		9		9	
4	20		20	3	20	
5	1		1	1	1	
6	2		2		22	
7	3		3		3	
8	4	$\frac{1}{31}$	4		4	
9	5		25		25	
0		38		22		10

1	COUNT	—	—	—
2	RANGE	—	—	—
3	FRACTION SAMPLED	All	All	All
4	SPECIES			
5	✓ COD		$\frac{1}{44}$ $\frac{1}{54}$ $\frac{1}{61}$	3
6	✓ Saithe		$\frac{1}{66}$	1
7				
8	Herring		$\frac{4}{21}$ $\frac{4}{22}$ $\frac{1}{23}$ $\frac{1}{26}$ $\frac{1}{30}$	11
9				
0	<del>Proturus</del>		$\frac{1}{36}$ $\frac{1}{38}$	2
1				
2	4 Beards Rockling		$\frac{1}{20}$ $\frac{1}{21}$ $\frac{1}{22}$	3
3				
4	✓ L R D		$\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{17}$	3
5				
6	✓ L Sole		$\frac{1}{14}$	1
7				
8				
9				

Nebrups (Small) 95

COUNT  
 RANGE  
 FRACTION SAMPLED  
 (Whiting total  $1 \times \frac{1}{2}$  Cran as above)

HAUL No. M164/32 DATE 23.4.64 AREA 22 10c LARGE/~~SMALL~~ MESH

DURATION OF HAUL 1 1/2 hrs No. of SHEETS 1

WHITING		Haddock		by minutes	
10		0		00	
11		1		1	
12		2		2	
13	1	3		3	
14	1	4		4	
15	7	5		5	
16	H: 17	6		6	
17	HHI: 26	7		7	
18	HH 20	8		8	
19	HH: 23	9		9	
20	HI: 17	0		10	
21	I: 9	1		1	
22	H: 11	2		2	
23	H: 13	3		3	2
24	HH: 24	4		4	3
25	HHH: 34	5		5	3
26	HHH: 31	6	1/34 1/19	6	3
27	HHI: 28	7		7	2
28	HI: 16	8		8	
29	HHI 25	9		9	1
30	H: 13	0		20	1
31	I: 6	1		1	
32	I: 4	2		2	
33	I: 6	3		3	
34	I: 1	4		4	
35		5		5	
36		6		6	
37		7		7	
38		8		8	
39		9		9	
40		0		30	
41		1		1	
42	1	2		2	
43		3		3	
44		4		4	
45		5		5	
46		6		6	
47		7		7	
48		8		8	
49		9		9	

334

2

15

COUNT —  
 RANGE —  
 FRACTION SAMPLED 2/5

COUNT —  
 RANGE —  
 FRACTION SAMPLED All

COUNT —  
 RANGE —  
 FRACTION SAMPLED All



HAUL No. M64132

LARGE/SMALL MESH

Hake

	Herring	4 Bladder Rockling	by Camorche
10	16	15	1 06
1	3 7	16	2 07
2	5 8	17	1 08
3	8 9	18	09
4	9 20	19	2 10
5	12 1 HHI	20	3 11
6	3 2 HI	21	3 12
7	2 3 HI	22	4 13
8	1 4	23	1 14
9	2 25	24	2 15
20	6	25	16
1	7	26	17
2	8	27	18
3	9	28	19
4	30	29	20
5	1	30	21
6	2	31	22
7	3	32	23
8	4	33	24
9	5	34	25
30		35	
1		85	19
2			
3			
4			
5			
6			
7			
8			
9			
30			29

1	COUNT	-	-	-
2	RANGE	-	-	-
3	FRACTION SAMPLED	All	All	All
4	SPECIES			
5	2 <i>Vireponia Blennys</i>	$\frac{1}{15}$	$\frac{1}{16}$	(Present) 2
6				
7	COD	$\frac{1}{39}$	$\frac{1}{41}$	$\frac{1}{49}$ $\frac{1}{52}$ $\frac{1}{57}$ $\frac{1}{63}$ $\frac{1}{72}$ $\frac{1}{73}$ $\frac{1}{75}$
8				
9	Sardine	$\frac{1}{47}$	$\frac{1}{50}$	
40				
1	LRD	$\frac{1}{10}$	$\frac{3}{12}$	$\frac{2}{15}$ $\frac{3}{17}$ $\frac{1}{18}$ 9
2				
3	WITCH	$\frac{1}{14}$	$\frac{1}{15}$	$\frac{1}{16}$ $\frac{1}{17}$ $\frac{1}{19}$ $\frac{1}{22}$ $\frac{1}{23}$ 7
4				
5				
6				
7				
8				
9				

50 Pandanus ca 6  
 COUNT - Nephrops 1 basket.  
 RANGE - arctia many.  
 FRACTION SAMPLED All (Whiting total  $2\frac{1}{2} \times \frac{1}{2}$  Green Baskets on ...)

HAUL No. M64/33 DATE 23.4.64 AREA 229a LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 hr. No. of SHEETS 1

*Whiting*

*Herring*

<i>Meas</i>		<i>Meas</i>		
10		10		0
1		1		1
2		2		2
3		3		3
4		4		4
5		5		5
6		6		6
7		7		7
8		8		8
9	2	9	1	9
20	1	20	1	0
1		1	3	1
2		2	1	2
3		3	3	3
4	1	4	1	4
5	1	5		5
6	1	6		6
7		7	1	7
8	1	8		8
9	1	9		9
30	1	30		0
1		1		1
2		2		2
3		3		3
4		4		4
5		5		5
6		6		6
7		7		7
8		8		8
9		9		9
40		40		0
1		1		1
2		2		2
3		3		3
4		4		4
5		5		5
6		6		6
7		7		7
8		8		8
9		9		9
	9		11	

COUNT —  
 RANGE —  
 FRACTION SAMPLED

*All*

COUNT —  
 RANGE —  
 FRACTION SAMPLED

*All*

COUNT —  
 RANGE —  
 FRACTION SAMPLED

HAUL No. M64/33

LARGE/SMALL MESH

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5

1 COUNT  
 2 RANGE  
 3 FRACTION SAMPLED  
 4 SPECIES

5 *Scithe* meas.  $\frac{1}{5}$  1  
 6 *T. Esmarckii* "  $\frac{1}{5}$ . 1  
 7 *Nephraps* count 3. 3

COUNT  
 RANGE  
 FRACTION SAMPLED

HAUL No. M64/39 DATE 23.4.64 AREA 2210c LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 hrs No. of SHEETS 1

WHITING		HADDOCK		Remarks	
10		0		00	
11		1		1	
12		2		2	
13		3		3	
4		4		4	
5	I:	9		5	
16	HI:	18		6	
7	HHH:	32		7	
18	HH:	22		8	
19	H:	12		9	
20	HI:	17		10	
1	HI	15	1/37	1	
22	I:	7		2 :	2
3	HI:	19		3 :	3
24	HH	20		4 :	4
5	HHH:	34		5 :	5
26	HHHH	40		6 :	6
7	HHHH:	42		7 :	7
28	HHHH	40		8 :	8
9	H:	11		9 :	9
30	HI	15		20	
1	I:	8		1	
32	:	2		2	
3	:	2		3	
34	:	1		4	
5	:	2		5	
36	:	3		6	
7				7	
38				8	
9				9	
40				30	
1				1	
42				2	
3				3	
44				4	
5				5	
6				6	
7				7	
8				8	
9				9	
	<u>371</u>	<u>1113</u>	<u>1</u>	<u>33</u>	
COUNT	==	COUNT	==	COUNT	==
RANGE	==	RANGE	==	RANGE	==
FRACTION SAMPLED	1/3.	FRACTION SAMPLED	All	FRACTION SAMPLED	All

✓ HAKE	4 Bearded Rock	✓ G-menulus	Herring
10	15	06	16
1	7	7	7
2	18	08	8
3	9	9	9
4	20	10	20
5	1	1	1
6	22	12	2
7	3	13	3
8	4	4	4
9	5	15	25
20	26	6	6
1	7	17	7
2	8	8	8
3	9	19	9
4	30	20	30
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
30	10	33	161
1	COUNT	-	-
2	RANGE	-	-
3	FRACTION SAMPLED	All	All
4	SPECIES		
5	✓ Monk	$\frac{1}{42} \frac{1}{57}$	2
6	1		
7	✓ Saithe	$\frac{1}{37} \frac{1}{46} \frac{1}{47} \frac{1}{50} \frac{3}{52} \frac{1}{87}$	8
8	1		
9	✓ eop	$\frac{1}{23} \frac{1}{37} \frac{1}{46} \frac{2}{47} \frac{1}{49} \frac{1}{51} \frac{1}{54} \frac{2}{60} \frac{2}{67} \frac{1}{69} \frac{1}{81}$	10
40			
1	✓ Pristurus	$\frac{1}{34} \frac{1}{37} \frac{1}{46}$	3
2			
3	✓ <i>Stichopus Blechni</i>	$\frac{1}{19}$	1
4	✓ CDAB	$\frac{1}{24}$	1
5	✓ Witch	$\frac{1}{14}$	1
6			
7	✓ LRD	$\frac{2}{13} \frac{1}{16} \frac{1}{19} \frac{1}{19}$	5
8			
9	✓ [Cattus.]	$\frac{1}{9}$	1
	65 Pandalus	$\frac{2}{4}$ Doyen.	2
COUNT	-		
RANGE	✓		
FRACTION SAMPLED	All		
	Nephrobs	$\frac{2}{4} \frac{1}{2} \times \frac{1}{4}$ cran baskets	

HAUL No. M64/35 DATE 23.4.64 AREA 229a LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 No. of SHEETS 1

✓ WHITING

G Esmarck

10			0		0		
11			1		1		
12			2		2		
13			3		3		
14			4		4		
15			5		5		
16			6		6		
17	:	3	7		7		
18		5	8		8		
19	:	8	9		9		
20	H	10	0		10		
21	:	3	1		1		
22	H:	12	2		2		
23	H:	17	3		3		
24	HHI	25	4	:	4	:	2
25	HHHI	35	5	:	5	:	3
26	HHH:	33	6	:	6	:	2
27	HHH:	37	7	:	7	:	3
28	HHI	26	8	'	8	'	1
29	H:	12	9		9		
30	H:	17	0		20		
31	H	10	1		1		
32		5	2		2		
33	'	1	3		3		
34	'	1	4		4		
35			5		5		
36	'	1	6		6		
37			7		7		
38			8		8		
39			9		9		
40			0		30		
41			1		1		
42			2		2		
43			3		3		
44	'	1	4		4		
45	'	1	5		5		
46			6		6		
47			7		7		
48			8		8		
49			9		9		

203

11

COUNT —  
 RANGE —  
 FRACTION SAMPLED  
 $\frac{1}{2}$  ( $\frac{1}{4}$  crum)

COUNT —  
 RANGE —  
 FRACTION SAMPLED

COUNT —  
 RANGE —  
 FRACTION SAMPLED  
 Rec



HAUL No. M64/36 DATE 24.4.64 AREA 2210c LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 No. of SHEETS 1

WHITING

G. ESMAKII

Meas	
10	
11	
12	
13	1
14	2
15	3
16	7
17	11
18	8
19	8
20	7
1 H	12
22	3
3 H	10
24 HHH	30
5 HHHH	34
26 HHHH	29
27 HHHH	29
28 HH	19
9 HH	18
30 HH	16
1	8
2	5
3	4
4	2
5	2
6	1
7	
8	
9	1
40	
1	
2	1
3	
4	
5	
6	
7	
8	
9	

0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9

Meas	
00	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
1	
2	
3	
14	3
15	1
16	4
17	3
8	
19	1
20	3
1	
2	
3	
4	
5	
6	
7	
8	
9	
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

COUNT 90  
 RANGE -  
 FRACTION SAMPLED ALL

COUNT  
 RANGE  
 FRACTION SAMPLED

COUNT 15  
 RANGE -  
 FRACTION SAMPLED ALL



HAUL No. M64/36

LARGE/SMALL MESH

	✓ G Minuta		✓ HAK F		✓ HERRING	
	Meas		Meas		Meas	
0	6		06		6	
1	7		07		7	
2	8		08		8	
3	9		09		9	
4	10		10		20	
5	1		11		1	2
6	2		12		2	1
7	3		13		3	2
8	4		14	2	4	3
9	5	2	15	1	25	
0	16	5	16	2	6	
1	17	4	17	2	7	2
2	18	6	18	1	8	
3	9		19	1	9	
4	20	4	20		30	
5	1		1		1	
6	2		2		2	
7	3		3	$\frac{1}{36}$	3	
8	4		4		4	
9	25		5		5	
0		21		10		10

1 COUNT / RANGE / FRACTION SAMPLED all / all / all

	SPECIES									
5	✓ Saith	meas	$\frac{1}{52}$	$\frac{1}{53}$	$\frac{2}{80}$	4				
7	✓ COD	"	$\frac{1}{40}$	$\frac{1}{48}$	$\frac{1}{53}$	$\frac{1}{57}$	$\frac{1}{10}$	$\frac{2}{81}$	$\frac{1}{83}$	8
9	✓ Prostrans	"	$\frac{1}{33}$						1	
1	✓ WITCH	"	$\frac{1}{20}$	$\frac{1}{22}$	$\frac{2}{26}$	$\frac{2}{32}$				6
3	✓ LRD	"	$\frac{1}{13}$	$\frac{1}{14}$						2
5	✓ Bender Beckling	"	$\frac{1}{16}$	$\frac{1}{21}$	$\frac{1}{27}$					3

Nephroto count 42

COUNT RANGE FRACTION SAMPLED Pondals - 6

HAUL No. M64/38 DATE 27/4/64 AREA 22.10c 1 1/2" mesh codend  
 LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 hrs No. of SHEETS 2

WHITING

Haddock

Mass		Mass	
10		0	0
1		1	1
2		2	2
3		3	3
4		4	4
5	2	5	5
6	5	6	6
7	11	7	7
8	17	8	8
9	10	9	9
20	12	0	0
1	5	1	1
2	9	2	2
3	13	3	3
4	24	4	4
5	39	5	5
6	31	6	6
7	38	7	7
8	18	8	8
9	11	9	9
30	22	50	0
1	9	1	1
2	8	2	2
3	2	3	3
4	2	4	4
5	1	5	5
6	1	6	6
7	2	7	7
8		8	8
9		9	9
0		0	0
1		1	1
2		2	2
3		3	3
4		4	4
5		5	5
6		6	6
7		7	7
8		8	8
9		9	9

1/57

292

1

COUNT       
 RANGE       
 FRACTION SAMPLED 1/3 1/2

COUNT       
 RANGE       
 FRACTION SAMPLED All

COUNT       
 RANGE       
 FRACTION SAMPLED

HAUL No. M64/38

LARGE/SMALL MESH

G Esaki

G. minutes

Herring

	4 :		2						
	5 :		2						
10	6 :		7	6				6	
1	7 :		5	7				7	
2	8 :		5	8			1	8	
3	9 :		3	9	NI		17	9	
4 :	3 20 :		3	20	NNNNI		47	0	
5 :	3 1 :		1	1	NNNNNNN		70	1	
6 :	6 2 :			2	NNNNI		46	2	
7 :	6 3 :			3	N		11	3	
8 :	2 4 :		1	4	:		3	4	
9 :	2 5 :			5	:		2	5	
20 :	3 6 :			6	:		2	6	
1	1 7 :			7				7	
2	8 :			8				8	
3	9 :			9				9	
4	0 :			30				0	
5	1 :			1				1	
6	2 :			2				2	
7	3 :			3				3	
8	4 :			4				4	
9	5 :			5				5	

29

199

COUNT

-

193

RANGE

-

FRACTION SAMPLED

All

All

SPECIES

5	✓ Cod	2	$\frac{1}{22}$	$\frac{1}{44}$	2		
6	✓ Saite	2	$\frac{1}{51}$	$\frac{1}{52}$	2		
7	✓ LRD	2	$\frac{1}{14}$	$\frac{1}{16}$	2		
8	✓ Hake	5	$\frac{1}{12}$	$\frac{1}{15}$	$\frac{2}{16}$	$\frac{1}{20}$	5
9	Nephrops	count.	34				

26

COUNT

RANGE

FRACTION SAMPLED All

HAUL No. M64/39 DATE 27.4.64 AREA 229 LARGE/SMALL MESH

DURATION OF HAUL 1 1/4 No. of SHEETS 1

WHITING

HADDOCK

10		0		0
1		1		1
2		2		2
3		3		3
4		1		4
5		2		5
6		2		6
7		5		7
8		9		8
9	N	11		9
20	N	12		0
1		5		1
2	N	12		2
3	NN	20		3
4	NN	21		4
5	NNN	30		5
6	NNNN	42		6
7	NNNN	44		7
8	NNN	27		8
9	NN	23		9
30	NN	19		0
1		9		1
2		3		2
3		8		3
4				4
5		2		5
6				6
7				7
8				8
9				9
0				0
1				1
2				2
3				3
4				4
5				5
6				6
7				7
8				8
9				9

307

COUNT  
RANGE  
FRACTION SAMPLED

$1/3 1/2$

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED

HAUL No. M 64/35

LARGE/SMALL MESH

Herring

0		6	6	6
1		7	7	7
2		8	8	8
3		9	9	9
4		0	0	0
5		1	1	1
6		2	2	2
7	1	3	3	3
8		4	4	4
9	1:	7	5	5
20	NN N:	38	6	6
1	NN NN N:	52	7	7
2	NN	20	8	8
3	N:	13	9	9
4	1:	7	0	0
5	:	2	1	1
6	:	4	2	2
7			3	3
8			4	4
9			5	5

COUNT  
RANGE  
FRACTION SAMPLED  
SPECIES

✓ Cod	4	1/23	1/48	1/54	1/72	
✓ Saith	12	1/26	1/33	1/34	1/38	1/47 1/48 3/50
		1/52	1/54	1/67		
✓ Hake	9	2/13	2/14	1/5	1/16 1/19	1/33
G. Bonachia	12	1/15 1/17	1/19 1/20	1/21 1/23	1/19 1/17	[forward]
G. minutus	9	2/15	2/16	2/17 1/18 1/19	1/21	

nephrops 7

144

COUNT  
RANGE  
FRACTION SAMPLED All

HAUL No. M64/40 DATE 27.4.64 AREA 2210L LARGE/SMALL MESH

DURATION OF HAUL 1 1/4

No. of SHEETS 1

WHITING

HADDOCK

HERRING

10		0		10
1		1		1
2		2		2
3		3		3
4	1	4		4
5	1	5		5
6	1	6		6
7	2	7		7
8	7	8		8
9	7	9		9
20	6	0		20
1	8	1		1
2	5	2		2
3	14	3		3
4	17	4		4
5	34	5	NIL	5
6	48	6		6
7	33	7		7
8	27	8		8
9	23	9		9
30	12	0		30
1	6	1		1
2	6	2		2
3	1	3		3
4	2	4		4
5	1	5		5
6		6		6
7		7		7
8		8		8
9		9		9
0		0		0
1		1		1
2		2		2
3		3		3
4		4		4
5		5		5
6		6		6
7		7		7
8		8		8
9		9		9

262

163

COUNT  
RANGE  
FRACTION SAMPLED  
*baskets*

1/5

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED  
+ 254  
AM

HAUL No. 1164/40

~~LARGE/SMALL MESH~~

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5

COUNT  
 RANGE  
 FRACTION SAMPLED  
 SPECIES

5	✓ Cod	3	$\frac{1}{30}$	$\frac{1}{43}$	$\frac{1}{68}$
6	✓ Pristigaster	1	$\frac{1}{32}$		
7	✓ Witch flat	3	$\frac{1}{21}$	$\frac{1}{23}$	$\frac{1}{37}$
8	✓ Saithe	1	$\frac{1}{29}$		
9	✓ LRD	1	$\frac{1}{15}$		
0	✓ Argentine Silur	1	$\frac{1}{21}$		
1	✓ 4 bearded Rockling	1	$\frac{1}{24}$		
2	✓ Hake	3	$\frac{1}{16}$	$\frac{1}{17}$	$\frac{1}{19}$
3	✓ 9 Esmackie	4	$\frac{2}{19}$	$\frac{2}{21}$	
4	✓ 9 minutes	2	$\frac{1}{15}$	$\frac{1}{16}$	
6	✓ Nephrops	4		4	

COUNT  
 RANGE  
 FRACTION SAMPLED

HAUL No. M64/41 DATE 27.4.64 AREA 2295 LARGE/SMALL MESH

DURATION OF HAUL 1 hr 18 mins No. of SHEETS 1

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED

INITIALS J



HAUL No. M64 / 41

LARGE/~~SMALL~~ MESH.....

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5

COUNT  
RANGE  
FRACTION SAMPLED  
SPECIES

*1 1/2 baskets whitening & hearing*

COUNT  
RANGE  
FRACTION SAMPLED

HAUL No. M 64/42 DATE 27/4/64 AREA 2210c ~~LARGE/SMALL MESH~~

DURATION OF HAUL 1 1/2 No. of SHEETS 1

WHITING		HADDOCK		HERRING	
10		0		10	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5	2	5		5	
6	6	6		6	
7	10	7		7	
8	17	8		8	2
9	13	9		9	1
20	16	0		20	N 11
1	6	1		1	NI 19
2	7	2		2	NN? 26
3	22	3		3	N 13
4	30	4		4	2
5	39	5		5	3
6	38	6		6	
7	40	7		7	
8	21	8		8	
9	10	9		9	
30	5	0		0	
1	1	1		1	
2	2	2		2	
3	3	3		3	
4	1	4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
0		0		0	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	

289

77

COUNT —  
 RANGE —  
 FRACTION SAMPLED  
 baskets  $\frac{1}{3}$

COUNT  
 RANGE  
 FRACTION SAMPLED

COUNT —  
 RANGE —  
 FRACTION SAMPLED ALL

HAUL No. m64/42

LARGE/SMALL MESH

✓ 9 minutes

✓ 9. Esmeralda

0	6		6	6
1	7		7	7
2	8		8	8
3	9		9	9
4	10		10	0
5	1		1	1
6	2		2	2
7	3		3	3
8	4		4	4
9	5	4	5	5
0	16	3	16	6
1	7	3	7	7
2	8	5	8	8
3	9		9	9
4	20		20	0
5	1	1	1	1
6	2		2	2
7	3		3	3
8	4		4	4
9	5		5	5
0		16		17

COUNT

RANGE

FRACTION SAMPLED All

All

SPECIES

5	✓ Cod	5	$\frac{1}{41}$	$\frac{1}{56}$	$\frac{1}{58}$	$\frac{1}{66}$	$\frac{1}{71}$
6	✓ Saithe	4	$\frac{1}{50}$	$\frac{1}{51}$	$\frac{1}{52}$	$\frac{1}{59}$	
7	✓ Hake	11	$\frac{2}{12}$	$\frac{1}{13}$	$\frac{1}{15}$	$\frac{2}{16}$	$\frac{1}{17}$ $\frac{3}{18}$ $\frac{1}{35}$
8	✓ 4 headed Rockling	2	$\frac{1}{20}$	$\frac{1}{23}$			
9	✓ Angler	1		$\frac{1}{61}$			
0	✓ Pristigaster	5	$\frac{1}{32}$	$\frac{2}{34}$	$\frac{1}{36}$	$\frac{1}{40}$	
1	✓ Plaice	1	$\frac{1}{26}$				
2	✓ Witch Fl.	7	$\frac{2}{15}$	$\frac{2}{16}$	$\frac{2}{24}$	$\frac{1}{36}$	
4	octopus	1		1			
5	reptiles	74		74			
6	Pandalus	1		1			

COUNT

RANGE

FRACTION SAMPLED

HAUL No. MG4/43 DATE 28.4.64 AREA 2210c LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 No. of SHEETS 1

WHITING HADDOCK HERRING

WHITING	HADDOCK	HERRING
10	0	10
1	1	1
2	2	2
3	3	3
4	4	4
5 :	5	5
6 NI:	6	6
7 NN:	7	7
8 NNI:	8	8
9 NNNI:	9	9 :
20 NI	0	20 N:
1 N:	1	1 NNNI:
2 I:	2	2 NNNN:
3 NI:	3	3 NI:
4 NI:	4	4 N
5 NNNI:	5	5 :
6 NNNI:	6	6 :
7 NNN:	7	7
8 NNI	8	8
9 N:	9	9
30 I:	0	30
1 N:	1	1
2 I:	2	2
3	3	3
4 :	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
	358	130

COUNT	COUNT	COUNT
RANGE	RANGE	RANGE
FRACTION SAMPLED	FRACTION SAMPLED	FRACTION SAMPLED
baskets $\frac{1}{5}$		All

HAUL No. M64/43

LARGE/SMALL MESH

T Esmeralda

T Minnetonka

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	10	10
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	20	20
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0		16	17

COUNT

RANGE

FRACTION SAMPLED

SPECIES

✓ Cod	8	$\frac{1}{43}$	$\frac{1}{46}$	$\frac{1}{54}$	$\frac{2}{58}$	$\frac{2}{60}$	$\frac{1}{68}$
✓ Sable	3			$\frac{1}{50}$	$\frac{1}{74}$	$\frac{1}{84}$	
✓ Pristiurus	1			$\frac{1}{34}$			
✓ Hake	14	$\frac{3}{14}$	$\frac{4}{15}$	$\frac{2}{16}$	$\frac{2}{20}$	$\frac{1}{33}$	$\frac{1}{36}$
✓ Witch D	2	$\frac{1}{15}$	$\frac{1}{24}$				
✓ C. Dab.	2	$\frac{1}{18}$	$\frac{1}{24}$				
✓ LRD	3	$\frac{1}{12}$	$\frac{1}{16}$	$\frac{1}{17}$			

*Nephrops* 97

97

COUNT

RANGE

FRACTION SAMPLED

HAUL No. M64/44 DATE 23/4/64 AREA 229a LARGE/SMALL MESH

DURATION OF HAUL 1 1/2 No. of SHEETS 1

WHITING

HADDOCK

HERRING

10		0	10
1		1	1
2		2	2
3	1	3	3
4	3	4	4
5	7	5	5
6	NN:	6	6
7	NN:	7	7
8	NNI:	8	8
9	NNN	9	9 1 5
20	NI:	0	20 NN:
1	I:	1	1 NN NN 40
2	I:	2	2 NN NI 36
3	I:	3	3 N: 13
4	NI:	4	4 : 3
5	NN:	5	5 : 2
6	NNN:	6	6 : 3
7	NNNI:	7	7
8	NN:	8	8 1
9	N:	9	9
30	N:	0	30
1	I:	1	1
2	I:	2	2
3	I:	3	3
4	I:	4	4
5	I:	5	5
6	I:	6	6
7	I:	7	7
8	I:	8	8
9	I:	9	9
40	I:	0	0
1	I:	1	1
2	I:	2	2
3	I:	3	3
4	I:	4	4
5	I:	5	5
6	I:	6	6
7	I:	7	7
8	I:	8	8
9	I:	9	9

324

126

COUNT /  
 RANGE /  
 FRACTION SAMPLED  
 baskets 1/4

COUNT /  
 RANGE /  
 FRACTION SAMPLED

COUNT /  
 RANGE /  
 FRACTION SAMPLED All

1296

HAUL No. 2164/44

LARGE/SMALL MESH

Hake T Minutes T Earnings

0	6		6		6
1	7		7		7
2	8		8		8
3	9		9		9
4	10		10		10
5	1		1		1
6	2	1	2		2
7	3	1	3		3
8	4	6	4	2	4
9	5	5	5	2	5
0	6	3	6	8	6
1	7	4	7	2	7
2	8		8		8
3	9		9		9
4	20		20		20
5	1		1		1
6	2	1/33	2	1	2
7	3	1/37	3		3
8	4	1/71	4		4
9	5		5		5
0		23		15	
1					
2					
3					
4					
5					
6					
7					
8					
9					

COUNT  
 RANGE  
 FRACTION SAMPLED All All All

SPECIES					
✓ Cod	5	1/41	1/49	1/50	2/55
✓ Gurnard	1		1/28		
Hake					
✓ Plaice	3	1/25	1/29	1/55	
✓ White Dab	5	3/23	1/25	1/50	
4 bearded Robbing	3	2/21	1/22		
✓ LRD	7	1/13	2/14	1/15	1/17
Argentine Sh	1		1/19		
Nephrops	101		101		
Pandalus	1		1		

COUNT  
 RANGE  
 FRACTION SAMPLED

HAUL No. M64/46 DATE 28/4/64 AREA 229a ~~LARGE/SMALL MESH~~

DURATION OF HAUL 1 1/4 No. of SHEETS 1

WHITING

1 to dock

Herring

10		0	0
1		1	1
2		2	2
3	1	3	3
4	5	4	4
5	4	5	5
6	NI:	6	6
7	NNN:	7	7
8	NNN:	8	8
9	NN:	9	9
20	NNN	0	20 N:
1	NI	1	1 N:
2	N:	2	2 N: NI
3	N	3	3
4	NNI	4	4
5	NNN:	5	5
6	NNNN:	6	6
7	NNN:	7	7
8	NN:	8	8
9	NI	9	9
30	N	0	0
1	NI	1	1
2		2	2
3		3	3
4		4	4
5		5	5
6		6	6
7		7	7
8	1	8	8
9	1	9	9
0		0	0
1		1	1
2		2	2
3		3	3
4		4	4
5		5	5
6		6	6
7		7	7
8		8	8
9		9	9
	388		91

COUNT  
RANGE  
FRACTION SAMPLED 1 basket AA

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED AA



HAUL No. n164/46

LARGE/SMALL MESH

✓ 4 Bearded Robbing      Hake      ✓ T. Esmothie      ✓ T. Minutus

10		6		6		6	
1		7		7		7	
2		8		8		8	
3		9		9		9	
4	1	10	2	10		10	
5		1	1	1		1	
6		2	9	2		2	
7		3	8	3		3	
8		4	13	4		4	1
9		5	15	5	1	5	1
20	2	6	6	6	1	6	1
1	2	7	6	7	1	7	1
2	1	8	2	8	2	8	1
3	5	9		9	3	9	
4		20	1	20	2	20	1
5		1		1	1	1	
6		2		2		2	
7		3		3	1	3	
8		4		4		4	
9		5		5		5	
0			63		12		6

COUNT  
 RANGE  
 FRACTION SAMPLED *M*      *M*      *M*

4	SPECIES						
5	✓ Cod	1	$\frac{1}{69}$				
6	✓ Saitho	1	$\frac{1}{42}$				
7	Collyronomus Lycra	1	$\frac{1}{22}$				
8	✓ Wetch Bab	7	$\frac{1}{14}$	$\frac{1}{15}$	$\frac{2}{16}$	$\frac{1}{19}$	$\frac{1}{22}$ $\frac{1}{23}$
9	✓ LRD	3	$\frac{1}{13}$	$\frac{1}{16}$	$\frac{1}{18}$		
0	✓ Plaise	1	$\frac{1}{30}$				

2	Nephrops	149	148	+ 1 berried
3	Pandalus	12	12	
4	Crangon	3	3	

11

COUNT  
 RANGE  
 FRACTION SAMPLED *M*

HAUL No. M 64/47 DATE 28/4/64 AREA 22.10 c LARGE/SMALL MESH

DURATION OF HAUL 1 1/4 No. of SHEETS 1

WHITING

HERRING

10		0	10
1		1	1
2		2	2
3	1	3	3
4	4	4	4
5	13	5	5
6	13	6	6
7	26	7	7
8	28	8	8
9	23	9	9
20	20	0	20
1	5	1	1
2	11	2	2
3	9	3	3
4	33	4	4
5	33	5	5
6	32	6	6
7	29	7	7
8	24	8	8
9	17	9	9
30	8	0	0
1	9	1	1
2	1	2	2
3	1	3	3
4		4	4
5	2	5	5
6		6	6
7		7	7
8		8	8
9		9	9
40		0	0
1		1	1
2		2	2
3		3	3
4		4	4
5		5	5
6		6	6
47	1	7	7
8	1	8	8
9		9	9

343 ~~93~~

21

COUNT		COUNT		COUNT	
RANGE		RANGE		RANGE	
FRACTION SAMPLED	All	FRACTION SAMPLED		FRACTION SAMPLED	All
	1 basket				

HAUL No. M64/47

LARGE/SMALL MESH.....

Hake

T minutes

T Estimated

0	6		6	6
1	7		7	7
2	8		8	8
3	9		9	9
4	10	1	10	10
5	1		1	1
6	2		2	2
7	3	7	3	3
8	4	11	4	4
9	5	3	5	5
0	6	3	6	6
1	7	6	7	7
2	8		8	8
3	9		9	9
4	20	3	20	20
5	1		1	1
6	2		2	2
7	3		3	3
8	4		4	4
9	5	1	5	5
0		40		9

COUNT

RANGE

FRACTION SAMPLED

SPECIES

4	✓ Cod	4	1/49	1/57	1/64	1/69
6	✓ Angler	2	1/52	1/60		
7	✓ Plaice	1	1/30			
8	✓ Witch Dab	5	1/4	1/6	1/21	1/24
9	✓ LRD	1	1/11			
0	Pristigaster	1	1/37			
1	4 bearded Rockling	4	1/20	1/23	1/24	1/25
3	Nephrops	16		16		
4	Pandalus	2		2		

COUNT

RANGE

FRACTION SAMPLED

HAUL No. EG4/43 DATE 29-4-64 AREA 22.100 ~~LARGE/SMALL MESH~~

DURATION OF HAUL 1 1/2 No. of SHEETS 1

WHITING

HERRING

10		0		10		
1		1		1		
2		2		2		
3	:	3	3	3		
4	1	5	4	4		
5	1:	7	5	5		
6	NN:	22	6	6		
7	NN:	19	7	7		
8	NN:	25	8	8		
9	NI:	16	9	9		1
20	NN:	22	0	20	:	4
1	NI:	17	1	1	N:	13
2	N:	12	2	2	N:	11
3	NN	20	3	3	:	8
4	NNNN:	43	4	4	:	4
5	NNNN:	48	5	5		
6	NNNNNI:	59	6	6		1
7	NNNNNI:	54	7	7		
8	NNNNI:	46	8	8		
9	NNNI:	34	9	9		
30	NNI:	26	0	30		
1	:	9	1	1		
2	:	8	2	2		
3	:	7	3	3		
4	:	6	4	4		
5	:	2	5	5		
6	:	2	6	6		
7	:	1	7	7		
8			8	8		
9			9	9		
40		0		0		
1			1	1		
2			2	2		
3			3	3		
4			4	4		
5		1	5	5		
6			6	6		
7			7	7		
8			8	8		
9		514	9	9		
		504				42

COUNT -  
 RANGE -  
 FRACTION SAMPLED 1 3/4 buckets all

COUNT  
 RANGE  
 FRACTION SAMPLED

COUNT  
 RANGE  
 FRACTION SAMPLED all

HAUL No. M64/48

LARGE/SMALL MESH

Hake

T Comatic

T minutes

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	10	10	10
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	20	20	20
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5 $\frac{1}{40}$	5	5
0		19	11

COUNT

RANGE

FRACTION SAMPLED 11

11

14

SPECIES

✓ Cod 5  $\frac{1}{70}$   $\frac{1}{46}$   $\frac{1}{66}$   $\frac{1}{63}$   $\frac{1}{43}$

4 Banded Rockling 1  $\frac{1}{21}$

✓ Plaice 1  $\frac{1}{29}$

Nephrops 46 45 + 1 buried

oysters 1 1

COUNT

RANGE

FRACTION SAMPLED

HAUL No. M64/49 DATE 29/4/69 AREA 229a ~~LARGE/SMALL MESH~~

DURATION OF HAUL 1 1/2

No. of SHEETS 1

Whiting

Herring

0	0	0	10
1	1	1	1
2	2	2	2
3	2	3	3
4	4	6	4
5 N	12	18	5
6 NN	29	43	6
7 NNN	36	53	7
8 N	12	18	8
9 N	11	16	9
20	8	12	20
1	7	10	1
2	9	13	2
3	7	10	3
4 NI	19	28	4
5 NNI	29	43	5
6 N	11	16	6
7 NN	22	32	7
8 NN	20	30	8
9 N	11	16	9
30	12	18	0
1	9	13	1
2	3	4	2
3	1	1	3
4	2	3	4
5	1	1	5
6	1	1	6
7			7
8			8
9			9
0			0
1			1
2			2
3			3
4			4
5			5
6			6
7			7
8			8
9			9

278

9

COUNT + 132  
 RANGE as above  
 FRACTION SAMPLED All

COUNT  
 RANGE  
 FRACTION SAMPLED

COUNT  
 RANGE  
 FRACTION SAMPLED All

HAUL No. 264/49

LARGE/SMALL MESH

0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5
0	6	6	6
1	7	7	7
2	8	8	8
3	9	9	9
4	0	0	0
5	1	1	1
6	2	2	2
7	3	3	3
8	4	4	4
9	5	5	5

COUNT

RANGE

FRACTION SAMPLED

SPECIES

5	✓ Cod	2	$\frac{1}{68}$	$\frac{1}{91}$
6	✓ Common Dab	1	$\frac{1}{17}$	
7	✓ LRD	2	$\frac{1}{2}$ $\frac{1}{17}$	
8	✓ Witch Dab	1	$\frac{1}{25}$	
9	4 Bearded Rockling	9	$\frac{1}{16}$ $\frac{1}{18}$ $\frac{2}{20}$ $\frac{2}{22}$ $\frac{1}{23}$ $\frac{1}{26}$	
0	✓ Hake	5	$\frac{1}{15}$ $\frac{4}{16}$	
1	✓ T. Esmachie	4	$\frac{1}{15}$ $\frac{1}{19}$ $\frac{1}{20}$ $\frac{1}{22}$	
2	✓ T. minutus	5	$\frac{1}{14}$ $\frac{2}{15}$ $\frac{1}{16}$ $\frac{1}{18}$	

Lompenus

$\frac{1}{18}$

Nephrops

270 269 + 1 banded  $\frac{1}{2}$  basket  
3 baskets Heart Mochins

COUNT

RANGE

FRACTION SAMPLED

HAUL No. M 69/50 DATE 29-4-64 AREA 2210C LARGE/SMALL MESH

DURATION OF HAUL 1 1/2

No. of SHEETS 1

Whiting

Herring

10		0		10	
1		1		1	
2		2		2	
3		3		3	
4		1	4	4	
5		6	5	5	
6		7	6	6	
7		6	7	7	
8	N:	12	8	8	
9	N:	11	9	9	1
20	:	4	0	20	5
1		6	1	1	NI: 17
2	:	4	2	2	7
3	N:	13	3	3	8
4	N:	18	4	4	6
5	NN NI:	36	5	5	
6	NN N:	31	6	6	1
7	NN N	30	7	7	
8	NN :	23	8	8	
9	NI:	18	9	9	
30	:	9	0	0	
1		6	1	1	
2		6	2	2	
3			3	3	
4		1	4	4	
5			5	5	
6			6	6	
7	:	2	7	7	
8			8	8	
9			9	9	
40			0	0	
1		1	1	1	
2			2	2	
3			3	3	
4			4	4	
5		1	5	5	
6			6	6	
7			7	7	
8			8	8	
9	1/50	1	9	9	
		<u>25.3</u>			<u>45</u>

COUNT  
RANGE  
FRACTION SAMPLED  
baskets 1/2

COUNT  
RANGE  
FRACTION SAMPLED

COUNT  
RANGE  
FRACTION SAMPLED  
All



HAUL No. M64/50

LARGE/SMALL MESH.....

Hake

T. Comaris

T. maculatus

0	6	6	6	
1	7	7	7	
2	8	8	8	
3	9	9	9	
4	10	10	10	
5	1 :	2 1	1	
6	2 :	3 2'	2	
7	3 N:	13 3	3	
8	4 N:	14 4 :	3 4	5
9	5 N'	11 5 :	4 5	3
0	6 :	4 6	5 6	4
1	7 :	4 7	1 7	4
2	8 :	2 8	2 8	
3	9	9	1 9	1
4	20	20	3 20	
5	1	1	2 1	
6	2	2	1 2	
7	3	3	3	
8	4	4	4	
9	5 $\frac{1}{28}$	1 5	5	
0		54	22	17

COUNT

RANGE

FRACTION SAMPLED All

SPECIES

5	✓ Cod	1	$\frac{1}{20}$	
6	✓ Saithe	2	$\frac{1}{49}$ $\frac{1}{53}$	
7	4 Bearded Rockling	6	$\frac{1}{22}$ $\frac{1}{23}$ $\frac{2}{24}$ $\frac{2}{25}$	
8	✓ Plaice	3	$\frac{1}{9}$ $\frac{1}{18}$ $\frac{1}{28}$	
9	✓ Witch Dabs	2	$\frac{1}{18}$ $\frac{1}{25}$	
0	✓ LRD	4	$\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{18}$	
2	octopus	1	1	
3	nephrops	623	620+ 3 berried	(1 basket)
4	heart urchin	est.	few	
5	Pandalus	"	few	
6	Cragman	"	few	

COUNT

RANGE

FRACTION SAMPLED