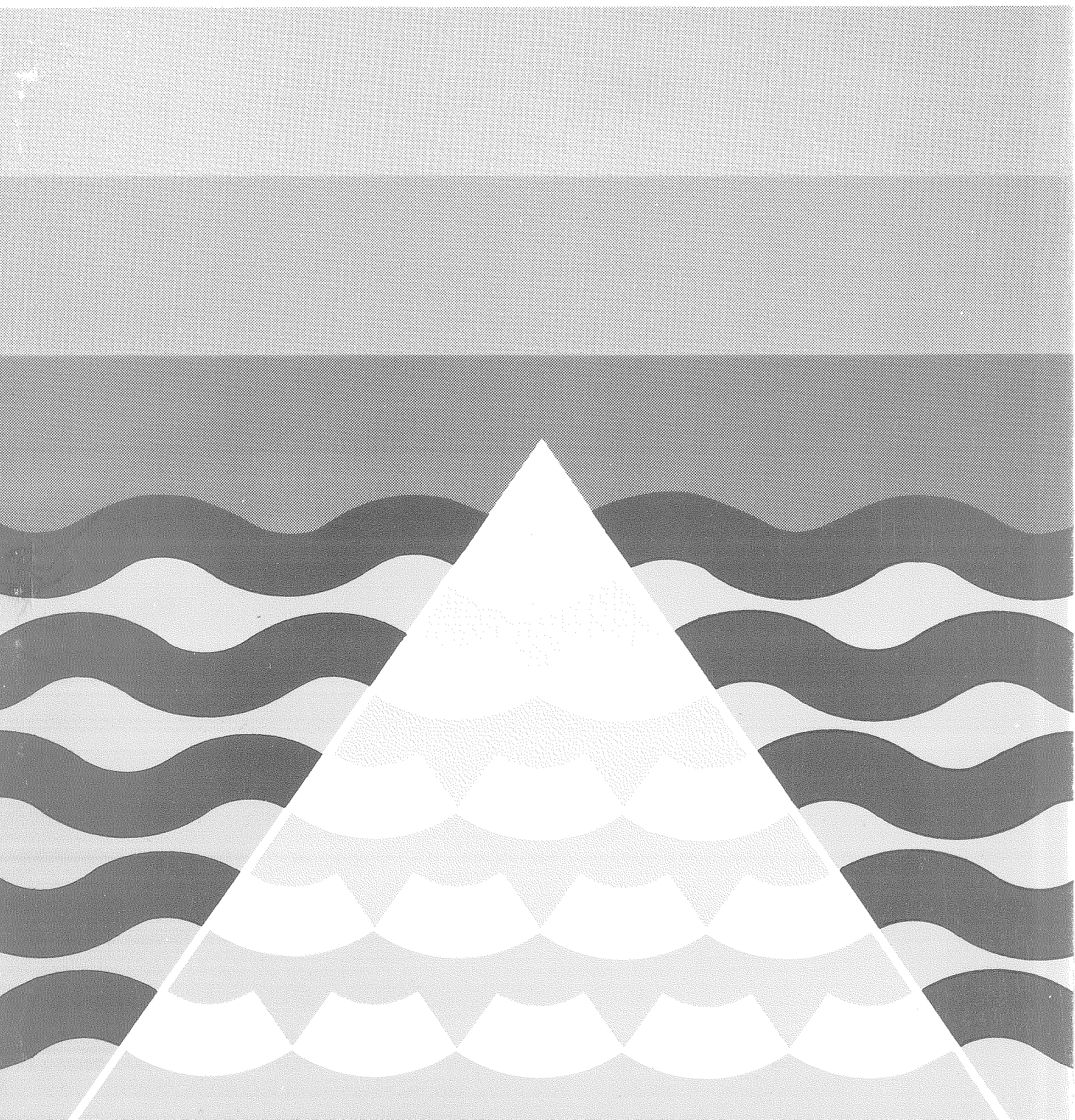


SERIE B

1978 Nr. 3

# FISKEN og HAVET

RAPPORTER OG MELDINGER  
FRA FISKERIDIREKTORATETS HAVFORSKNINGSINSTITUTT - BERGEN



SERIE B

1978 Nr. 3

Begrenset distribusjon  
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DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF SIX FISHES  
AT TWO ULTRASONIC FREQUENCIES

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ERLING BRATBERG

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## ABSTRACT

FOOTE, K.G. and NAKKEN, O. 1978. Dorsal aspect target strength functions of six fishes at two ultrasonic frequencies. Fisken og Havet Ser. B, 1978 (3): 1-96.

The dorsal aspect target strength functions of six fishes at two ultrasonic frequencies are presented in tabular and graphical form. Each table presents the value of the target strength function for tilt angles ranging from -45 to +45 degrees inclusive at one-degree intervals. The fishes are cod (Gadus morhua), saithe (Pollachius virens), pollack (Pollachius pollachius), herring (Clupea harengus), sprat (Sprattus sprattus) and mackerel (Scomber scombrus). The frequencies of measurement were 38 and 120 kHz. The source of the data is Nakken and Olsen's 1971 study of the target strengths of fish.

## INTRODUCTION

A knowledge of the target strength functions of fish is important for assessing fish abundance acoustically at high frequencies. Except at very low frequencies, where scattering is essentially isotropic, target strength is a function of fish orientation. This function depends additionally on the fish length-to-wavelength ratio as well as fish species and frequency of ensonification. It depends, moreover, on individual specimen by reason of natural variability. The existence of significant specific and frequency dependent differences may be demonstrated both for the maximum dorsal aspect target strength data of NAKKEN and OLSEN (1977) and for the dorsal aspect target strength functions reported here when averaged according to schemes of the sort described briefly in FOOTE (1978 a). The sensitivity of target strength to different specimens of the same species and of identical or very similar length when ensonified dorsally or ventrally, is observed in the unpublished target strength data gathered by Røttingen in conjunction with the study reported in RØTTINGEN (1976) and analyzed in FOOTE (1978 b).

Averaged target strengths depend additionally on fish behaviour, or equivalently on the kind of orientation distribution assumed by the fish, as demonstrated in FOOTE (1978 a). Thus, because a knowledge of the averaged target strength-to-length relationship is important in estimating fish abundance

acoustically and because this relationship, like the individual averaged target strengths, depends on the precise form of individual target strength functions, the functional dependence of target strength should be considered in the determination of target strength-to-length relationships.

This recognition has provided the incentive for re-examining the target strength data gathered by Nakken and Olsen in their 1971 study and discussed in their 1977 paper.

In this data report the dorsal aspect target strength functions of six of the fishes of Nakken and Olsen's 1971 study are presented. The numbers of specimens and length ranges for which dorsal aspect target strength functions are presented are stated in Table 1.

Table 1. Numbers of specimens and length ranges for which dorsal aspect target strength functions are presented.

SPECIES	Frequency of ensonification			
	38 kHz		120 kHz	
	Number	Length range(cm)	Number	Length range(cm)
Cod ( <u>Gadus morhua</u> )	68	6.7-96.0	44	6.7-67.0
Saithe ( <u>Pollachius virens</u> )	59	9.1-68.0	48	9.1-68.0
Pollack ( <u>Pollachius pollachius</u> )	44	19.7-61.0	39	19.7-52.0
Herring ( <u>Clupea harengus</u> )	25	10.0-32.4	30	8.7-32.4
Sprat ( <u>Sprattus sprattus</u> )	21	6.6-17.6	24	6.6-17.6
Mackerel ( <u>Scomber scombrus</u> )	35	29.7-41.5	24	29.7-41.5

## METHOD

A description of the method of measurement of the dorsal aspect target strength function is given in NAKKEN and OLSEN (1977). It is repeated here for completeness.

The measurements were made in the period June - September 1971 on the island of Lepsøy in Norway in a sheltered inlet 200 m wide, 12-14 m deep and with a soft bottom. The arrangement of apparatus is shown in Fig. 1.

An anchored raft carried both the laboratory and the accommodation for the staff.

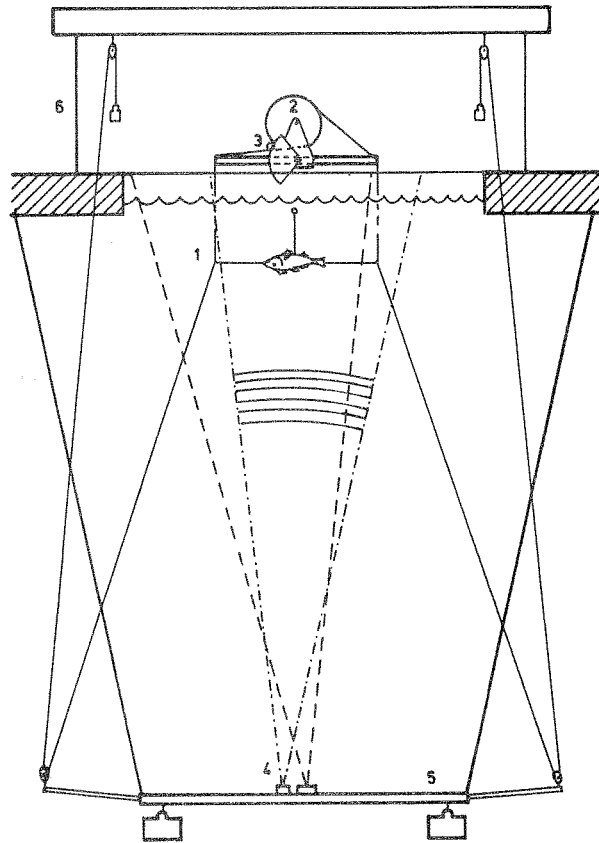


Fig. 1. Experimental set-up. 1: fish suspension; 2: hoisting system; 3: tilting system; 4: 38 kHz and 120 kHz transducer; 5: transducer base; 6: raft.

The upward looking transducers were mounted in a heavily loaded steel frame submerged from the raft on adjustable wires. The fish were kept in an upside down position in the central part of the sound beam by a frame of thin monofil nylon. A special hoisting device made it possible to hook the fish to the frame at the surface, and then lower it to the measuring position at 2.4 m depth. The aspect of the fish could be continuously changed in two planes, tilt and roll, without any re-hooking. The fish was tilted between  $-45^{\circ}$  and  $+45^{\circ}$  from horizontal position with  $\pm 1^{\circ}$  accuracy by operation of the automatic "tilting bar". The tilting speed was  $1^{\circ}$  per second. When only tilt variations were wanted, a stable upside-down position was obtained by

small floats attached to the belly of the fish. When roll variations were also wanted, the floats were replaced with thin nylon strings from the fish sides to a small wheel which was operated manually and worked normal to the tilting bar. For complete change of aspect, the fish was hauled to the surface and the points of hooking changed.

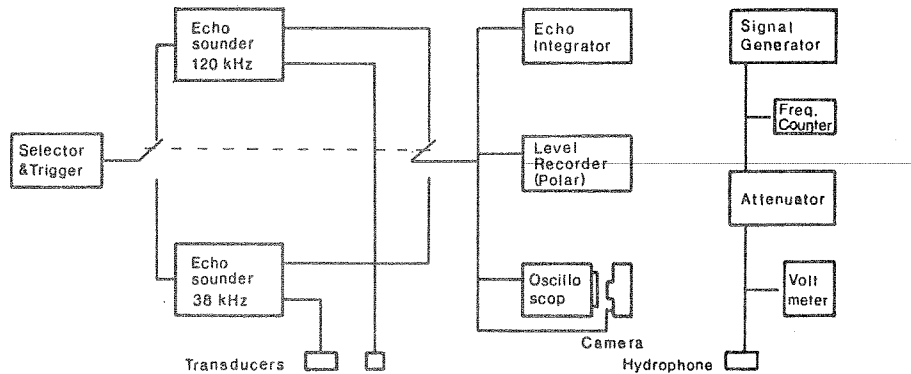


Fig. 2. Block diagram of instrumentation.

A block diagram of the instrumentation is shown in Fig. 2. Two echo-sounders working at frequencies 38 kHz and 120 kHz (Simrad Ek 38 A and Ek 120 A) with transducers respectively 10x10 cm and 5 cm diameter were used. The transmitted pulse lengths, measured at half amplitude, were 0.6 ms for both sounders. The repetition rates of the sounders were increased to 4 pulses per second. For measuring and recording of data, a Hewlett Packard 141 A, a two-channel oscilloscope, a Simrad QM echo integrator with a Hewlett Packard 7702 B two channel recorder and a Brüel and Kjær 2304 polarplot level recorder were used. One channel of both the oscilloscope and the integrator recorder was used for presentation of echo amplitudes, while the corresponding tilt angles were recorded on the other channel. A film camera triggered by the echo-sounders was attached to the oscilloscope.

An Atlantic Research LV 32 hydrophone was used for calibration of the equipment. In addition, a daily calibration was carried out by measuring the target strength of a steel sphere of 5 cm diameter, which was lowered into the measuring position.

The sequence in one measuring programme was that the tilting bar started

from the horizontal position, moved to  $+45^\circ$ , back again through the horizontal to  $-45^\circ$  and then back to horizontal. During the first quarter of this cycle, suitable gain settings were selected. The data collected during the complete half cycle between  $+45^\circ$  and  $-45^\circ$  were used for further treatment.

The fish was stunned or killed by hitting the frontal parts of the brain by a sharp tool. When suspending the fish, care was taken to avoid air being enclosed in the gills and stomach. The measurements were started immediately after the fish had been lowered into the measuring position. In order to obtain necessary information about the relation between target strength characteristics of dead and live fish, measurements were made on a few live fish; these were allowed to move their tails and bodies without changing their position within the sound beam.

The recorded data, which consisted of a series of diagrams of corresponding values of voltage and tilt angle on linear graph paper, were purged as the data were excessively noisy or lacking in precise angle-identification. One criterion applied in the confirmation or rejection of measured target strength functions was that there should be consistency in redundant measurements on individual diagrams, as available, with proper allowance being made for changes in the gain setting during the first quarter of the measurement cycle. The middle half-cycles of acceptable target strength diagrams were then represented by piecewise linear curves which were interpolated at one-degree intervals from  $-45$  to  $+45$  degrees. The target strength function was derived from these interpolated voltages by the following prescription:

$$TS = 20 \log_{10}(v/v_{\text{ref}}) + TS_{\text{ref}}$$

where  $TS$  denotes the target strength value corresponding to the interpolated voltage  $v$ ,  $v_{\text{ref}}$  is the mean voltage level of the reference sphere, and  $TS_{\text{ref}}$  is the target strength of the reference sphere in units of decibels.  $TS_{\text{ref}}$  was observed to be  $-38.0$  dB at  $38$  kHz and  $-38.5$  dB at  $120$  kHz. These measured values of  $TS_{\text{ref}}$  were used in the determination of target strength values from the corresponding observed voltages.



## USE OF TABLES

Except for a number of mackerel target strength functions, each dorsal aspect target strength function is described at one-degree intervals which completely span the ninety-degree range in tilt angles from -45 to +45 degrees inclusively. The tilt angle is defined as the angle made by the centerline of the fish, or imaginary line running from the tip of the upper jaw to the root of the tail, with the horizontal plane. The sign convention is that negative angles denote the normal head-down or head-away position when viewed from the transducer. All values of the target strength function are negative; for simplicity only the magnitude is stated. The values are given in decibels relative to MKS units so that the backscattering cross section in units of square meters may be derived from the target strength value by the following formula:

$$TS = 10 \log_{10} (\sigma_b / 4 \pi)$$

where TS denotes a value of the target strength value and  $\sigma_b$ , the corresponding value of backscattering cross section.

Each table contains ten rows. The first row contains the values of the target strength function for tilt angles from -45 to -36 degrees the second row contains values from -35 to -26 degrees; and so forth. The tenth row contains a single value which is that of the function at +45 degrees.

The exceptional cases are wholly confined to the mackerel data. In these cases the target strength function was not measured over the full range of tilt angles. This is noted in the pertinent tables where, nevertheless, values are shown for the missing measurements. These numbers are spurious; for convenience they were arbitrarily equated to the smallest finite digitization level.

Diagrams or plots of each tabulated target strength function are attached to the corresponding table. The graduations of all diagrams are identical to that of the example in Fig. 3.

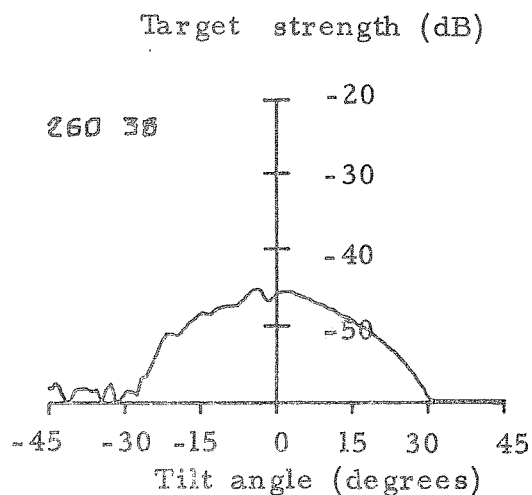


Fig. 3. Target strength as a function of tilt angle.

The pair of numbers associated with these diagrams merely specify the fish number or order of measurement in Nakken and Olsen's original study and the frequency of ensonification in units of kHz. Thus, in Fig. 3 the fish number is 260 and the frequency is 38 kHz.

#### REFERENCES

- FOOTE, K.G. 1978 a. Effect of fish behaviour on echo energy: The need for measurements of orientation distributions. ICES Working Group on Reaction of Fish to Fishing Operations. Bergen, May 1978.
- FOOTE, K.G. 1978 b. Analysis of empirical observations on the scattering of sound by engaged aggregations of fish. FiskDir. Skr. Ser. HavUnders., 16: 423-456.
- NAKKEN, O. and OLSEN, K. 1977. Target strength measurements of fish. P. 52-69 in MARGETTS, A.R. ed. Hydro-acoustics in fisheries research. Rapp. P. -v. Reún. Cons. int. Explor. Mer, 170.
- RØTTINGEN, I. 1976. On the relation between echo intensity and fish density. FiskDir. Skr. Ser. HavUnders., 16: 301-314.



## TABLES

			Page
Cod	38 kHz		13 - 24
"	120 "		25 - 32
Saithe	38 "		33 - 42
"	120 "		43 - 50
Sprat	38 "		51 - 54
"	120 "		55 - 58
Herring	38 "		59 - 63
"	120 "		64 - 68
Mackerel	38 "		69 - 75
"	120 "		76 - 80
Pollack	38 "		81 - 88
"	120 "		89 - 95

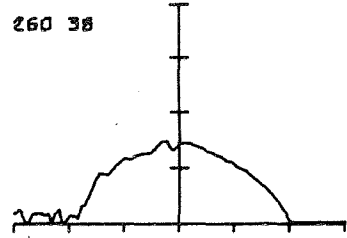


DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF COD AT 38 KHZ

COD 6.7 CM 38 KHZ FISH NO 260

58.4 57.3 58.7 60.7 59.6 58.1 58.4 58.4 58.7 58.1  
 61.1 58.1 57.3 62.3 59.3 58.4 58.7 59.3 56.6 56.3  
 55.1 53.4 51.9 50.7 51.1 51.4 50.5 49.8 49.1 48.5  
 48.0 48.6 48.0 47.5 47.2 47.1 47.1 47.0 46.4 45.7  
 45.0 45.0 45.8 46.8 46.1 45.4 45.3 45.5 45.8 46.1  
 46.3 46.6 46.9 47.2 47.5 47.8 48.1 48.5 48.8 49.1  
 49.5 50.0 50.4 50.8 51.3 51.8 52.4 53.0 53.4 54.1  
 54.9 55.7 56.3 57.3 58.4 59.6 61.1 62.3 64.4 67.1  
 68.8 63.8 61.1 61.1 66.3 81.9 87.9 87.9 87.9 87.9  
 87.9

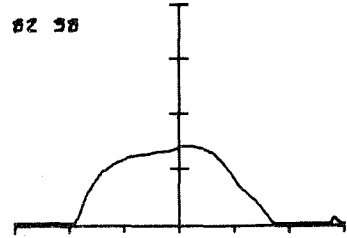
260 38



COD 7.2 CM 38 KHZ FISH NO 82

67.2 64.7 64.1 71.8 71.8 67.2 71.8 88.7 88.7 88.7  
 74.8 69.7 67.2 64.7 62.7 61.1 59.8 58.6 57.2 55.5  
 54.1 52.9 51.8 50.9 50.0 49.6 49.1 48.7 48.4 48.1  
 47.8 47.5 47.2 47.1 46.9 46.9 46.8 46.7 46.6 46.5  
 46.4 46.3 46.3 46.1 45.8 45.4 45.5 45.7 45.9 46.1  
 46.3 46.5 46.7 46.9 47.2 47.9 48.6 49.3 50.1 51.0  
 52.0 53.0 53.8 54.3 54.9 55.5 56.3 56.9 57.9 58.6  
 59.8 60.8 62.7 66.5 73.2 88.7 88.7 88.7 88.7 79.2  
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 61.5

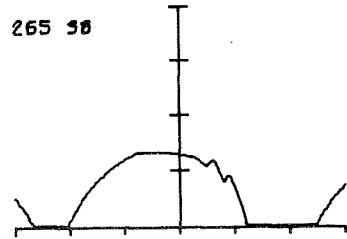
82 38



COD 7.5 CM 38 KHZ FISH NO 265

55.3 56.2 57.1 58.1 59.3 60.6 62.2 61.8 61.0 63.1  
 65.3 68.2 64.7 62.2 60.2 58.7 57.3 56.2 55.1 54.2  
 53.4 52.6 51.9 51.3 50.7 50.0 49.5 49.0 48.6 48.1  
 47.7 47.3 46.9 46.5 46.4 46.5 46.5 46.5 46.5 46.5  
 46.6 46.8 46.9 47.1 47.1 47.3 47.4 47.6 47.7 47.9  
 48.2 48.7 49.3 48.4 47.9 49.2 50.8 52.1 50.8 51.8  
 53.2 55.1 57.3 60.2 64.7 74.2 82.2 88.2 78.7 74.2  
 70.1 68.2 66.6 65.3 64.1 64.1 64.7 65.3 65.9 65.3  
 63.1 61.3 59.6 58.4 57.3 56.4 55.3 54.6 53.9 53.2  
 52.5

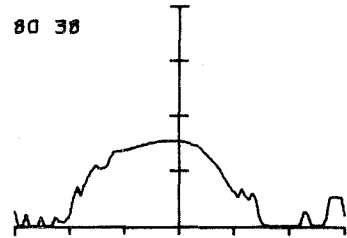
265 38



COD 7.9 CM 38 KHZ FISH NO 30

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 64.5 58.2 59.1 59.4 58.5 57.6 54.7 52.7 54.4 52.4  
 50.8 49.5 48.8 49.6 49.2 48.9 47.5 46.3 46.3 46.1  
 45.9 45.7 45.5 45.3 45.1 44.9 44.8 44.6 44.5 44.3  
 44.3 44.3 44.4 44.4 44.5 44.5 44.8 44.9 45.2 45.4  
 45.6 46.1 46.8 47.5 48.2 49.0 49.9 51.0 52.0 53.2  
 53.8 54.7 53.0 54.6 55.3 53.8 55.3 58.7 64.5 88.0  
 68.0 62.4 65.1 68.9 76.0 71.1 65.1 61.5 59.1 57.1  
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 58.2

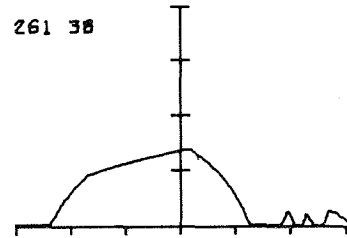
30 38



COD 8.0 CM 38 KHZ FISH NO 261

88.0 88.0 88.0 88.0 82.0 72.5 67.2 64.0 62.0 60.1  
 58.5 57.4 56.2 55.2 54.4 53.6 52.8 52.2 51.5 50.9  
 50.4 50.2 50.0 49.8 49.6 49.4 49.2 49.0 48.8 48.6  
 48.4 48.2 48.0 47.9 47.7 47.5 47.4 47.2 47.1 46.9  
 46.8 46.6 46.5 46.3 46.2 46.0 45.9 46.0 46.4 46.9  
 47.4 47.9 48.4 49.0 49.7 50.3 51.0 51.8 52.6 53.7  
 54.8 56.0 57.4 59.1 61.6 64.5 69.0 78.5 88.0 82.0  
 69.0 64.0 61.2 58.8 57.2 58.5 60.8 64.0 61.2 57.7  
 58.8 60.8 63.4 63.4 59.4 57.2 57.7 57.9 58.5 58.8  
 59.4

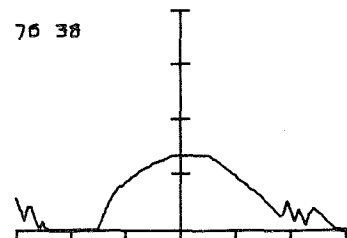
261 38



COD 8.1 CM 38 KHZ FISH NO 76

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 61.4 67.0 64.3 63.2 67.0 75.8 87.8 87.8 87.8 81.8  
 68.7 63.7 61.0 58.6 56.9 55.3 54.0 53.0 52.2 51.7  
 51.0 50.5 50.0 49.5 49.0 48.6 48.3 47.9 47.6 47.3  
 47.1 46.8 46.5 46.3 46.3 46.4 46.4 46.4 46.4 46.4  
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 50.5 51.3 51.7 52.2 52.7 53.2 53.7 54.2 54.9 55.6  
 56.2 56.9 57.7 56.9 54.7 56.7 58.6 56.2 57.7 59.2  
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 64.3

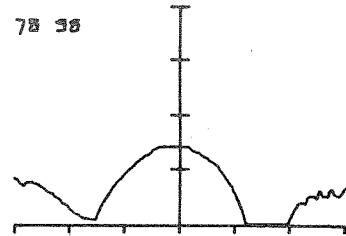
76 38



COD AT 38 KHZ

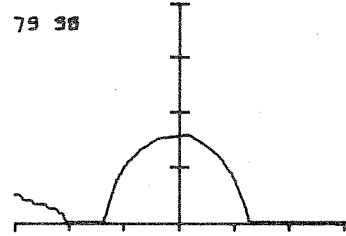
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54.5	55.1	55.5	56.2	56.6	57.3	57.9	58.4	58.7	59.0
59.3	59.3	59.3	57.3	55.9	54.7	53.7	52.7	51.9	51.1
50.4	49.7	49.1	48.4	47.9	47.4	46.9	46.5	46.0	45.6
45.5	45.6	45.6	45.6	45.6	45.6	45.7	46.0	46.4	46.8
47.1	47.6	48.0	48.4	48.9	49.4	50.2	51.1	52.1	53.2
54.5	55.9	57.9	60.0	63.4	68.0	82.0	88.0	88.0	88.0
82.0	71.1	66.4	62.9	60.7	58.7	57.3	55.9	55.7	56.4
54.5	54.5	55.5	53.5	54.9	54.7	53.3	54.5	55.1	54.0
53.0									



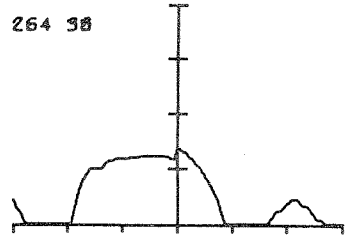
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57.5	57.5	58.4	58.4	60.6	63.5	71.5	77.5	77.5	77.5
77.5	77.5	77.5	68.0	61.9	58.4	55.9	54.0	51.9	50.7
49.5	48.6	48.0	47.4	46.6	46.1	45.7	45.2	44.8	44.4
44.2	44.2	44.1	44.1	43.9	43.9	43.7	44.1	44.4	44.8
45.2	45.7	46.1	46.6	47.1	47.7	48.3	49.2	50.3	51.1
52.4	54.0	55.9	57.5	60.6	65.5	71.5	77.5	77.5	77.5
77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	71.5	71.5
65.5	68.0	63.5	63.5	71.5	63.5	63.5	61.9	61.9	61.9
61.9									



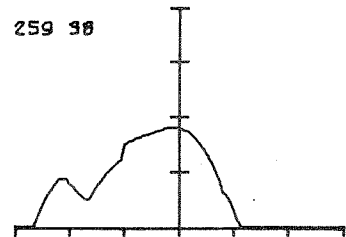
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56.0	57.4	58.3	60.2	62.7	64.3	68.7	72.2	72.2	72.2
72.2	78.3	78.3	78.3	72.2	64.3	59.2	56.0	53.6	51.8
50.7	49.6	50.0	50.0	50.0	49.0	48.2	48.2	47.9	47.9
47.9	47.9	47.6	47.6	47.6	47.4	47.4	47.4	47.6	47.6
47.6	47.9	47.9	48.2	48.2	46.0	46.7	47.1	47.9	48.4
49.3	50.0	51.0	52.2	53.2	54.7	56.0	58.3	61.4	64.3
72.2	68.7	68.7	66.2	64.3	62.7	62.7	61.4	60.2	60.2
59.2	58.3	57.4	57.4	56.7	56.0	55.3	55.3	56.0	56.7
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78.3									



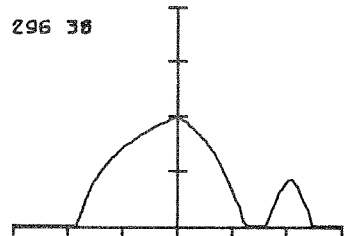
COD 11.2 CM 38 KHZ FISH NO 259

77.9	77.9	71.8	65.8	62.3	59.8	57.9	56.3	54.9	53.8
52.8	51.8	51.0	51.0	51.4	52.3	52.8	53.8	54.3	54.9
54.9	53.8	52.8	51.8	51.0	49.9	49.2	48.6	48.0	47.5
44.6	44.2	43.9	43.5	43.4	43.1	42.9	42.6	42.4	42.2
42.0	41.7	41.6	41.6	41.9	42.2	42.4	42.7	43.1	43.7
44.4	45.4	46.3	47.5	48.6	50.3	51.8	53.8	54.3	55.6
57.0	58.8	61.0	62.3	65.8	71.8	77.9	77.9	77.9	77.9
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
77.9	77.9	77.9	63.9	77.9	77.9	77.9	77.9	77.9	68.3
77.9									



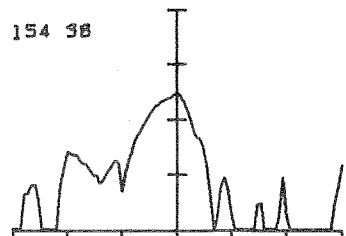
COD 11.5 CM 38 KHZ FISH NO 296

78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
78.2	78.2	78.2	78.2	78.2	78.2	66.1	61.3	58.2	56.6
54.7	53.1	51.7	50.9	49.9	48.9	48.1	47.3	46.8	46.1
45.5	44.9	44.6	44.0	43.5	43.1	42.6	42.3	41.9	41.5
41.2	40.9	40.6	40.2	39.9	40.0	40.6	41.0	41.7	42.2
42.8	43.5	44.2	44.9	45.9	46.8	48.1	49.2	50.6	52.2
53.6	55.3	56.6	59.1	62.6	66.1	78.2	68.6	64.2	60.1
58.2	56.6	55.3	53.6	52.6	51.7	51.3	52.2	53.1	54.7
55.9	57.3	60.1	62.6	66.1	78.2	78.2	72.2	68.6	64.2
78.2									



COD 20.5 CM 38 KHZ FISH NO 154

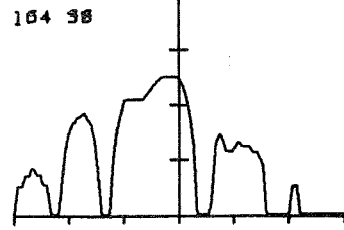
67.1	67.1	67.1	53.2	53.2	51.6	51.6	55.1	61.1	67.1
67.1	67.1	61.1	51.6	48.1	45.6	46.3	46.3	47.1	48.1
48.1	49.1	50.2	50.2	51.6	50.2	49.1	48.1	47.1	48.1
53.2	49.1	46.3	44.2	42.5	41.6	40.3	39.2	38.2	37.3
36.8	36.3	36.0	35.8	35.3	35.1	36.0	37.3	38.8	40.7
43.1	43.6	44.9	48.1	53.2	61.1	57.6	51.6	50.2	53.2
57.6	67.1	67.1	67.1	67.1	67.1	61.1	55.1	55.1	67.1
67.1	67.1	67.1	57.6	50.2	57.6	67.1	67.1	67.1	67.1
67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	55.1	51.6
48.1									



COD AT 38 KHZ

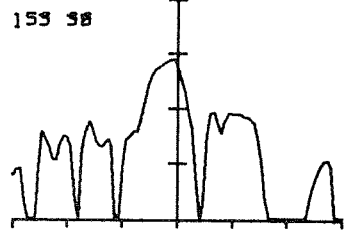
COD 23.0 CM 38 KHZ FISH NO 164

66.6	54.6	54.6	52.7	52.7	51.1	52.7	52.7	54.6	54.6
66.6	66.6	66.6	54.6	47.6	44.4	43.1	42.0	41.5	41.1
42.6	43.7	46.6	52.7	66.6	66.6	66.6	49.7	44.4	41.1
38.7	38.7	38.7	39.0	39.0	38.7	37.7	36.8	36.0	35.3
34.6	34.8	34.8	35.0	35.0	35.3	36.5	39.0	42.6	47.6
66.6	66.6	66.6	66.6	57.1	46.6	45.1	46.6	48.6	48.6
47.6	46.6	47.6	47.6	47.6	48.6	48.6	49.7	51.1	60.6
66.6	66.6	66.6	66.6	66.6	66.6	66.6	54.6	60.6	66.6
66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
66.6									



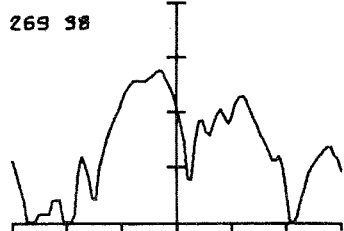
COD 25.0 CM 38 KHZ FISH NO 153

52.1	50.6	50.6	56.6	66.1	66.1	66.1	50.6	43.8	45.3
47.0	49.2	49.2	46.1	44.5	45.3	47.0	56.6	66.1	47.0
43.8	42.0	43.8	46.1	47.0	46.1	45.3	47.0	60.1	66.1
50.6	45.3	44.5	43.8	43.8	41.5	38.2	35.5	33.7	32.5
32.0	31.5	31.2	30.7	30.8	32.5	34.5	37.2	41.0	43.8
52.1	66.1	56.6	44.5	40.5	40.5	42.6	44.5	42.0	40.5
41.0	41.0	41.0	41.5	41.5	42.0	42.6	45.3	49.2	56.6
66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	60.1
60.1	56.6	54.1	52.1	50.6	49.2	49.2	50.6	66.1	66.1
66.1									



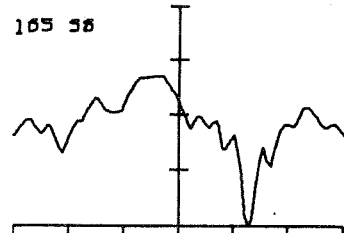
COD 26.0 CM 38 KHZ FISH NO 269

48.7	50.9	53.8	55.8	61.8	67.8	67.8	58.3	58.3	58.3
58.3	55.8	55.8	55.8	67.8	67.8	67.8	58.3	50.9	47.8
49.7	52.2	55.8	55.8	49.7	47.0	44.3	42.7	41.0	39.5
37.7	36.2	34.9	34.2	34.2	34.4	34.4	33.8	33.3	32.7
32.1	32.8	34.0	35.3	36.9	39.2	41.8	45.5	52.2	52.2
45.5	41.4	41.4	43.7	44.3	41.8	40.2	39.2	40.6	42.2
40.6	38.3	36.9	36.9	38.3	39.5	41.4	42.7	44.3	45.5
47.0	48.7	48.7	47.8	49.7	53.8	61.8	61.8	58.3	55.8
53.8	50.9	49.7	48.7	47.8	47.0	46.2	46.2	47.8	48.7
50.9									



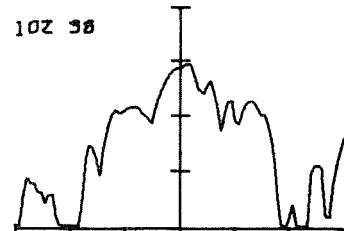
COD 27.0 CM 38 KHZ FISH NO 165

43.4	42.4	41.4	40.6	40.8	41.7	42.7	43.4	42.5	41.6
42.7	44.2	45.8	46.9	44.9	43.4	42.0	40.8	41.3	39.9
38.6	37.5	36.6	37.5	38.4	39.4	39.8	39.4	39.2	39.0
37.6	36.1	34.8	33.7	33.0	33.0	32.9	32.8	32.7	32.6
32.8	33.6	34.5	35.5	36.6	37.9	39.4	41.1	42.5	41.0
40.0	40.8	41.7	42.4	41.3	40.8	43.1	46.3	45.6	44.2
43.4	46.3	50.7	58.6	62.7	58.6	52.1	48.1	45.6	48.4
49.4	46.3	44.0	42.2	41.4	41.9	42.2	41.1	39.7	38.3
38.5	39.2	40.0	40.8	41.9	42.4	41.7	41.4	42.2	42.9
43.8									



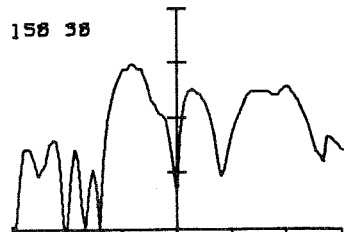
COD 27.2 CM 38 KHZ FISH NO 102

67.8	61.8	53.9	50.9	52.3	52.3	53.9	53.9	55.8	53.9
53.9	58.3	67.8	67.8	67.8	67.8	67.8	67.8	55.8	47.8
44.9	46.2	47.8	50.9	45.6	41.8	39.5	38.6	39.5	38.9
38.3	38.0	38.0	38.6	39.2	39.9	40.6	41.4	38.6	36.5
34.6	33.2	32.0	31.3	30.9	30.7	30.4	30.1	31.3	33.2
35.4	36.0	34.4	33.3	35.2	38.3	42.7	39.5	36.9	37.5
41.0	41.4	38.6	37.2	36.9	37.7	38.6	39.9	39.5	41.4
44.3	48.7	55.8	67.8	67.8	58.3	55.8	61.8	67.8	67.8
67.8	49.8	48.7	48.7	49.8	58.3	58.3	52.3	48.7	45.6
43.7									



COD 28.5 CM 38 KHZ FISH NO 158

66.2	66.2	50.7	45.4	45.4	46.2	48.2	50.7	49.3	48.2
44.6	43.9	44.6	48.2	66.2	66.2	50.7	45.4	48.2	56.7
60.2	52.2	49.3	52.2	66.2	46.2	40.2	37.0	34.4	32.4
31.0	31.3	30.1	30.4	31.1	31.0	32.6	34.4	37.0	37.9
39.4	39.8	40.6	43.9	49.3	54.2	41.6	36.7	35.1	34.6
35.3	35.9	36.7	37.9	39.8	42.7	47.1	50.7	49.3	45.4
42.7	40.6	39.0	37.3	35.9	35.1	35.1	35.3	35.3	35.3
35.6	35.9	36.1	35.3	34.4	34.0	34.9	35.9	37.0	38.3
39.8	41.6	43.9	46.2	47.1	48.2	43.3	43.9	44.6	45.4
46.2									



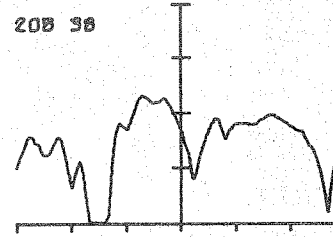


COD AT 38 KHZ

COD 29.2 CM 38 KHZ FISH NO 208

49.7	47.7	46.1	44.2	44.2	45.4	46.1	47.7	47.7	46.9
45.4	44.2	44.8	46.9	50.8	53.7	50.8	48.6	50.8	55.7
61.7	67.7	67.7	67.7	67.7	58.2	48.6	43.6	41.7	42.6
43.1	41.3	39.4	37.6	36.6	37.1	37.6	38.2	37.9	37.6
37.1	37.9	38.8	40.1	41.7	43.1	45.4	47.7	52.2	50.8
47.7	45.4	43.6	42.2	40.9	41.3	43.1	44.8	43.1	42.2
41.7	41.7	41.7	42.2	42.2	42.2	41.3	40.9	40.5	40.1
40.5	40.9	41.3	41.7	42.2	42.6	43.1	43.6	43.6	44.8
46.1	46.9	48.6	50.8	53.7	58.2	52.2	48.6	45.4	43.6
42.2									

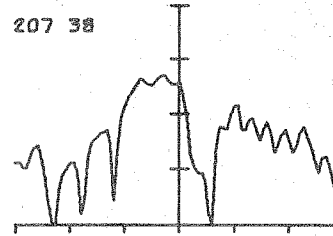
208 38



COD 29.8 CM 38 KHZ FISH NO 207

48.6	48.6	49.7	49.7	47.7	46.1	45.4	47.7	50.8	55.7
61.7	61.7	53.7	50.8	49.7	48.6	48.6	50.8	58.2	55.7
47.7	44.8	44.2	43.6	43.1	42.6	45.4	55.7	46.9	40.1
38.2	36.6	35.5	34.3	33.4	33.9	34.5	34.8	34.1	33.2
32.6	33.1	34.1	34.5	34.3	34.1	36.4	40.5	47.7	49.7
50.8	50.8	52.2	58.2	67.7	45.4	42.1	42.6	42.6	39.8
38.2	38.2	43.1	42.6	40.9	40.5	43.1	44.8	42.6	41.3
43.6	46.9	45.4	43.6	42.6	44.8	46.9	45.4	43.1	42.1
44.2	46.1	48.6	50.8	47.7	47.7	49.7	52.2	55.7	61.7
58.2									

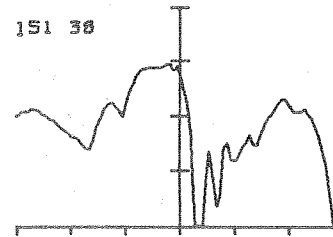
207 38



COD 30.0 CM 38 KHZ FISH NO 151

39.7	39.3	38.9	38.9	38.5	38.9	39.3	39.7	40.1	40.6
41.0	41.5	42.1	42.6	43.2	43.9	43.9	44.6	45.3	46.1
46.1	43.9	41.5	40.1	38.5	37.5	37.2	38.2	38.9	40.1
37.5	35.3	33.5	32.0	31.3	31.0	30.7	31.3	31.0	30.9
30.6	30.3	30.3	31.7	30.6	32.5	35.0	38.2	43.9	60.1
66.1	66.1	52.2	46.1	50.6	56.6	54.1	45.3	44.6	48.1
48.1	47.1	45.3	44.6	43.2	45.3	45.3	43.2	41.5	40.1
39.3	38.2	37.2	36.6	37.2	38.2	39.3	39.3	38.9	38.5
39.7	40.6	42.1	43.9	46.1	49.2	54.1	60.1	66.1	66.1
66.1									

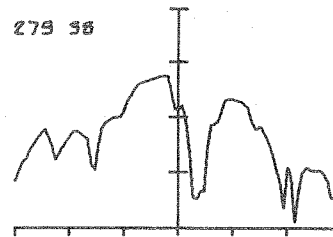
151 38



COD 30.2 CM 38 KHZ FISH NO 279

51.8	49.7	47.9	47.2	45.8	44.7	43.6	42.7	41.9	43.6
45.2	47.9	46.5	45.2	44.1	43.2	42.3	42.7	43.2	43.6
44.1	48.8	49.7	44.7	41.5	40.5	40.1	39.8	39.8	39.5
38.4	36.7	35.3	34.3	33.5	33.3	33.0	32.8	32.6	32.4
32.1	32.4	32.6	34.9	38.6	38.4	37.6	40.8	46.5	54.8
54.8	53.2	53.2	45.2	41.1	40.8	40.1	38.1	36.5	36.5
36.9	37.2	37.4	37.9	38.4	40.5	42.3	41.5	42.3	43.6
45.2	47.2	49.7	51.8	56.7	48.8	50.7	59.2	53.2	49.7
48.8	49.7	49.7	49.7	49.7	50.7	51.8	54.8	54.8	50.7
47.9									

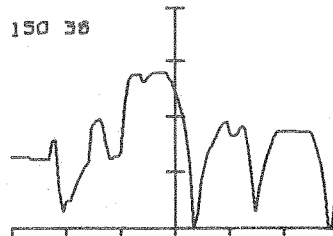
279 38



COD 31.0 CM 38 KHZ FISH NO 150

47.0	47.0	47.0	47.0	47.0	47.9	47.9	47.9	47.9	47.9
47.9	44.0	44.0	53.0	57.4	54.9	54.9	53.0	51.4	50.1
48.9	47.9	41.4	40.5	40.1	41.9	45.4	47.9	47.0	47.0
46.1	38.0	33.0	32.0	32.0	32.2	33.7	32.8	32.0	31.7
31.7	31.7	31.7	32.8	34.1	35.6	37.4	40.1	43.4	48.9
67.0	57.4	51.4	48.9	46.1	44.7	43.4	41.9	40.9	40.5
43.4	43.4	42.4	41.4	42.4	45.4	51.4	57.4	53.0	50.1
47.0	45.4	43.4	42.4	42.4	42.4	42.4	42.4	42.9	42.9
42.9	42.9	42.9	44.0	46.1	48.9	53.0	60.9	60.9	53.0
47.9									

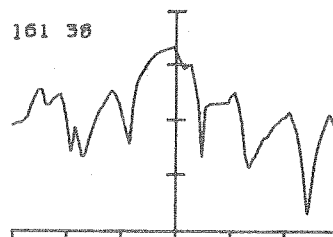
150 38



COD 32.3 CM 38 KHZ FISH NO 161

40.6	40.2	40.2	39.8	39.1	37.1	35.5	34.2	34.6	37.4
36.8	36.0	35.5	35.1	37.4	41.1	45.8	41.1	43.7	46.7
45.8	43.1	41.1	39.1	37.7	36.6	35.5	34.4	35.3	36.8
39.1	41.6	44.4	37.1	33.4	31.7	30.5	29.5	28.6	27.8
27.4	27.1	26.8	26.6	26.4	27.7	29.0	30.7	29.9	30.0
32.9	37.1	46.7	37.4	36.8	36.8	36.8	36.6	36.6	36.6
35.3	34.8	37.4	40.6	46.7	48.6	46.7	45.8	44.4	43.1
42.6	41.6	40.6	40.2	39.4	39.1	38.4	40.2	42.0	45.1
49.8	57.1	52.7	47.6	44.4	42.0	40.2	38.7	40.2	42.6
46.7									

161 38

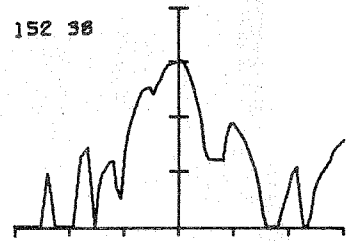


COD AT 38 KHZ

COD 32.5 CM 38 KHZ FISH NO 152

66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	54.9	50.0
54.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	52.9	46.9	46.1
45.3	52.9	60.9	52.9	50.0	48.8	47.8	47.8	52.9	54.9	
46.9	42.8	40.1	38.0	36.3	34.9	34.4	34.6	35.8	34.0	
32.6	31.3	30.3	30.0	29.8	29.4	29.9	31.2	32.7	34.6	
37.1	40.5	46.1	47.8	47.8	47.8	47.8	47.8	43.4	40.9	
41.3	42.3	43.4	44.6	46.1	47.8	50.0	52.9	57.4	60.9	
66.9	66.9	66.9	57.4	54.9	52.9	50.0	48.8	54.9	66.9	
60.9	57.4	52.9	51.3	50.0	48.8	47.8	46.1	45.3	44.6	
44.0										

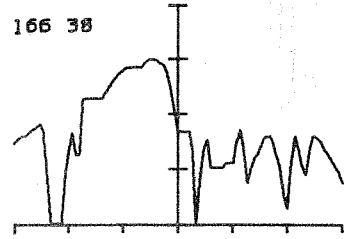
152 38



COD 32.9 CM 38 KHZ FISH NO 166

45.1	44.4	43.8	43.8	43.2	42.6	42.1	41.6	43.2	49.8	
66.7	66.7	66.7	60.7	51.2	46.7	43.2	47.6	46.7	36.9	
36.9	36.9	37.2	37.2	37.2	35.8	34.9	33.9	33.1	32.2	
31.6	31.3	31.3	31.2	31.2	31.2	30.3	29.7	30.1	30.3	
30.7	31.2	32.4	35.1	39.1	43.2	43.2	43.2	43.2	46.7	
66.7	51.2	45.9	44.4	49.8	49.8	49.8	49.8	48.7	48.7	
48.7	45.1	42.6	46.7	52.7	49.8	47.6	46.7	45.1	43.8	
43.8	45.1	47.6	49.8	54.7	57.2	48.7	43.8	46.7	49.8	
51.2	45.9	43.8	44.4	45.1	46.7	47.6	43.7	49.8	51.2	
52.7										

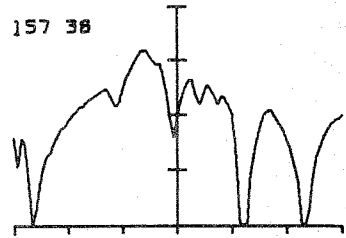
166 38



COD 33.5 CM 38 KHZ FISH NO 157

44.1	49.5	44.1	45.6	52.4	60.4	56.8	52.4	49.5	47.3	
46.4	44.8	43.5	42.3	41.8	40.8	39.9	39.1	38.4	38.1	
37.4	36.8	36.3	36.0	35.5	35.0	36.0	37.1	38.4	37.4	
34.8	32.9	31.4	30.1	29.0	28.0	28.1	29.0	30.0	30.8	
30.5	32.8	35.8	40.4	44.1	39.9	36.8	34.6	33.3	33.7	
36.3	38.1	36.0	34.3	35.3	36.6	38.1	36.3	37.1	38.4	
39.9	45.6	60.4	66.4	60.4	50.8	46.4	43.5	41.3	39.5	
38.8	39.5	40.8	41.8	42.9	44.8	46.4	49.5	52.4	60.4	
66.4	56.8	50.8	47.3	45.6	43.5	42.3	41.3	40.8	40.4	
39.9										

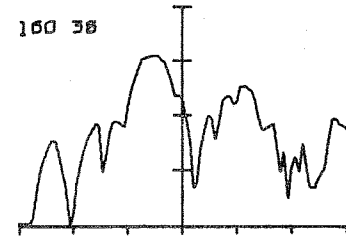
157 38



COD 33.5 CM 38 KHZ FISH NO 160

67.3	67.3	67.3	67.3	57.7	53.3	49.2	47.3	45.7	44.4	
45.0	47.3	50.4	53.3	61.3	57.7	51.7	48.2	45.7	43.8	
42.7	41.3	42.2	50.4	47.3	42.7	40.8	41.3	41.7	42.2	
38.0	35.0	32.6	30.9	29.4	29.1	28.9	28.7	29.1	29.7	
30.4	32.0	33.8	36.4	36.4	37.2	40.1	44.4	53.3	51.7	
45.7	42.2	39.7	40.8	44.4	40.8	36.9	36.2	36.4	38.0	
36.9	34.4	34.8	35.2	35.7	37.2	40.8	42.7	42.2	41.7	
41.3	45.7	50.4	46.5	55.2	49.2	47.3	50.4	45.0	49.2	
53.3	53.3	51.7	50.4	49.2	43.8	40.4	40.8	41.7	42.2	
42.7										

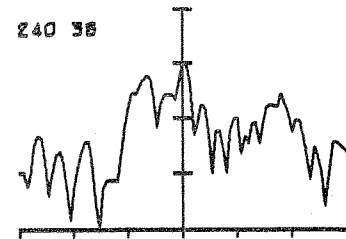
160 38



COD 34.0 CM 38 KHZ FISH NO 240

50.0	50.0	52.5	50.0	44.5	43.0	44.0	48.1	54.1	50.0	
46.5	45.8	48.1	52.5	58.5	52.5	49.0	45.8	44.0	44.0	
48.1	56.0	62.0	52.5	51.2	51.2	51.2	51.2	47.2	41.2	
37.7	35.2	35.4	34.1	32.8	32.2	33.0	36.2	41.6	37.2	
35.4	35.6	36.0	36.7	32.8	30.0	29.9	34.3	43.0	40.8	
37.4	38.5	43.0	50.0	42.0	42.5	45.8	50.0	42.0	39.8	
40.1	46.5	43.0	44.5	40.8	40.5	44.5	41.2	37.7	37.4	
38.0	37.7	35.4	37.2	34.4	42.5	40.1	40.8	43.5	47.2	
51.2	45.1	47.2	50.0	56.0	49.0	44.0	44.5	45.1	45.8	
46.5										

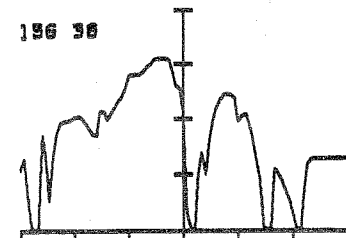
240 38



COD 35.0 CM 38 KHZ FISH NO 154

48.8	46.9	54.8	66.9	66.9	66.9	42.8	48.9	54.8	44.9	
42.3	40.4	40.8	40.0	39.6	39.3	39.3	40.0	40.8	41.8	
42.8	42.8	38.2	38.8	40.0	38.6	37.6	36.5	35.7	34.0	
31.8	31.6	31.6	31.5	31.0	30.3	29.6	28.9	28.7	28.9	
29.0	29.4	31.3	34.0	34.6	38.9	57.3	66.9	66.9	50.0	
46.0	50.0	43.9	40.4	37.9	36.2	35.3	35.5	35.7	36.2	
40.4	39.3	38.9	40.8	43.3	46.9	51.3	66.9	66.9	66.9	
48.8	50.0	51.3	52.9	54.8	57.3	60.8	66.9	52.9	47.8	
46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	
46.9										

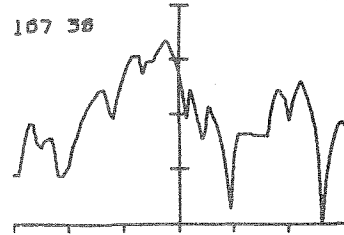
154 38



COD AT 38 KHZ

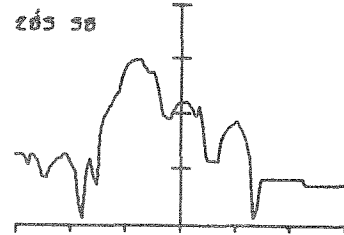
COD 35.0 CM 38 KHZ FISH NO 167

51.3	51.3	46.9	43.4	41.3	41.8	45.3	46.1	44.6	44.0
44.0	46.9	51.3	51.3	50.0	48.8	45.3	43.4	41.3	40.0
38.6	37.3	36.5	35.5	35.3	37.1	39.7	40.9	37.1	34.4
32.4	30.6	29.3	29.2	29.5	32.7	30.1	30.1	29.9	28.5
27.3	26.3	27.2	28.7	30.5	32.7	35.8	40.9	35.3	37.6
40.4	44.6	42.8	38.3	40.0	41.8	44.0	46.9	51.3	57.3
46.9	43.4	43.4	43.4	43.4	44.0	44.0	44.0	44.0	44.0
39.7	36.8	35.3	36.5	37.9	41.3	37.6	35.3	33.8	35.5
37.3	40.0	43.4	48.8	60.9	51.3	46.9	44.0	41.8	41.3
42.8									



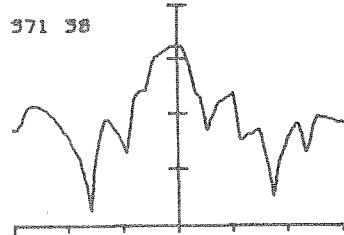
COD 35.5 CM 38 KHZ FISH NO 283

47.0	47.0	47.8	49.5	47.0	47.8	49.5	51.7	51.7	49.5
48.6	47.8	47.8	47.0	47.8	49.5	50.5	56.5	59.0	50.5
47.8	51.7	53.0	42.6	40.3	38.8	37.7	36.5	35.7	32.6
31.0	30.2	29.9	29.8	30.5	31.6	32.6	32.1	33.6	36.3
40.6	41.0	40.6	39.0	37.7	37.7	37.5	38.5	39.3	40.6
38.5	42.6	48.6	48.6	48.6	48.6	44.5	43.0	42.1	41.7
41.0	42.1	43.5	45.1	47.8	59.0	56.5	51.7	51.7	51.7
51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	53.0
53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
53.0									



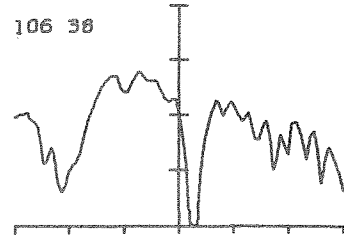
COD 36.5 CM 38 KHZ FISH NO 371

42.5	42.5	41.1	39.5	38.5	38.2	38.5	38.8	39.2	39.5
40.3	40.7	41.6	42.5	43.6	44.2	45.6	47.1	48.1	50.2
53.2	57.6	50.2	46.3	43.1	40.7	41.1	42.0	43.1	44.2
45.6	47.1	42.0	37.0	35.8	35.5	35.5	33.2	30.5	29.4
28.9	28.4	28.0	27.5	27.5	27.5	27.5	29.0	31.0	33.7
36.5	37.0	39.5	43.1	40.7	39.2	37.6	37.3	36.8	36.5
36.0	39.2	44.9	44.2	43.6	43.6	43.1	42.5	44.2	47.1
50.2	55.1	51.6	48.1	46.3	44.2	43.1	41.6	42.0	44.2
47.1	44.9	41.6	40.3	40.7	40.7	41.1	41.1	41.6	41.6
42.0									



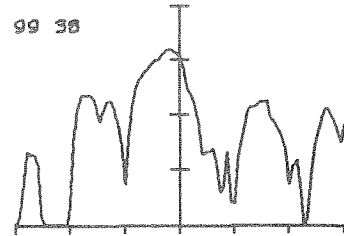
COD 37.5 CM 38 KHZ FISH NO 106

40.1	39.7	39.7	39.4	40.8	41.2	42.0	44.5	48.9	48.0
45.7	48.0	52.5	54.0	52.5	50.0	48.9	48.0	46.4	43.4
40.8	38.8	37.1	35.8	34.6	33.5	32.8	32.6	33.1	35.2
36.0	35.6	34.0	32.9	31.9	32.6	33.7	33.9	33.4	34.0
35.6	37.1	37.7	36.9	37.4	39.7	43.4	48.9	68.0	68.0
68.0	50.0	44.5	41.6	39.1	37.1	38.2	40.1	38.5	37.4
38.5	39.7	41.2	40.4	39.4	41.6	44.5	44.5	42.0	40.8
43.9	50.0	48.0	43.4	45.7	47.2	41.2	41.2	42.9	45.1
48.0	43.4	42.9	46.4	52.5	48.0	45.7	47.2	48.9	51.1
54.0									



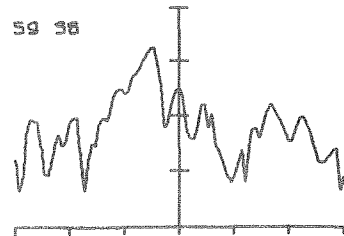
COD 39.0 CM 38 KHZ FISH NO 99

68.1	58.6	52.6	46.6	47.3	47.3	49.1	58.6	68.1	68.1
68.1	68.1	68.1	68.1	68.1	56.1	43.5	38.0	36.3	36.3
36.3	37.0	38.3	41.3	39.2	37.3	37.3	38.9	41.7	45.9
52.6	43.0	37.8	34.7	33.3	32.3	31.4	30.6	29.9	29.8
28.8	28.1	27.8	28.3	28.9	29.5	31.4	35.3	36.5	37.8
40.9	47.3	46.6	46.6	45.9	49.1	54.2	52.6	46.6	56.1
56.1	47.3	43.5	40.5	38.6	38.3	38.0	37.5	37.3	37.3
40.9	41.7	42.6	44.1	46.6	52.6	49.1	48.1	52.6	62.1
58.6	50.1	45.2	42.6	40.2	38.6	39.5	40.9	42.6	45.2
41.7									



COD 39.5 CM 38 KHZ FISH NO 59

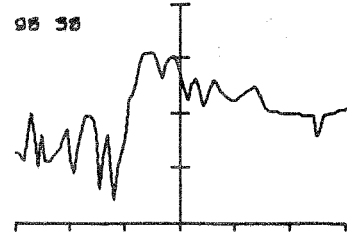
47.7	53.7	50.8	43.1	40.5	40.9	41.3	44.8	50.8	50.8
47.7	44.8	43.1	45.4	44.2	40.9	40.1	40.5	48.6	53.7
47.7	44.8	45.4	41.3	40.1	40.9	39.1	36.1	34.9	35.3
35.9	35.3	32.8	32.0	31.3	29.8	28.4	27.3	27.5	30.3
34.5	42.1	40.9	37.6	35.1	34.5	36.4	42.6	44.2	44.2
42.1	37.6	37.9	42.1	39.4	45.4	46.9	48.6	50.8	52.2
50.8	48.6	46.1	52.2	46.1	42.1	42.1	44.2	41.7	39.1
37.6	38.8	40.1	41.3	43.1	44.8	44.2	41.7	40.1	40.1
41.7	43.6	46.1	48.6	48.6	47.7	46.9	46.1	46.1	53.7
50.8									



COD AT 38 KHZ

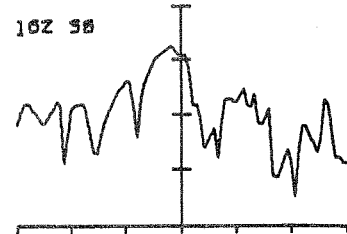
COD 39.5 CM 38 KHZ FISH NO 98

47.0	47.9	48.8	44.4	39.9	43.8	49.8	43.8	48.8	48.8
47.9	47.0	46.3	44.4	42.8	48.8	51.0	45.6	42.8	40.3
40.6	41.4	43.8	53.9	47.9	43.8	51.0	55.8	49.8	47.0
44.4	37.2	36.1	33.9	30.6	28.9	28.7	28.6	29.4	31.2
33.7	30.7	29.8	29.4	31.0	32.9	35.4	37.8	34.4	33.7
35.6	38.9	37.5	35.4	33.9	35.0	36.3	37.0	37.5	38.0
37.5	37.0	36.3	35.8	35.4	35.0	36.3	37.5	39.2	39.9
39.9	39.9	40.3	40.3	40.3	40.3	40.3	40.3	40.6	40.6
40.6	40.6	44.4	42.8	40.3	39.9	39.9	39.6	39.2	39.2
38.9									



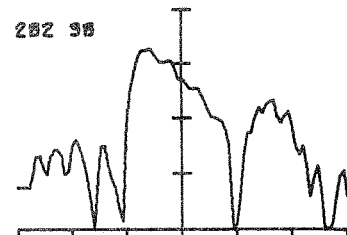
COD 40.0 CM 38 KHZ FISH NO 162

41.4	39.3	37.7	38.0	39.0	39.7	40.9	41.8	40.9	39.7
38.6	37.4	38.6	48.9	43.4	38.6	38.0	37.7	37.7	39.7
42.9	46.9	46.9	44.0	41.4	39.3	38.0	36.6	35.3	34.5
33.5	34.3	38.6	44.0	37.1	33.9	32.1	30.7	29.4	28.8
28.2	27.7	27.2	28.1	29.3	29.3	28.8	32.0	38.3	38.0
40.5	46.1	44.7	43.4	42.3	47.9	40.9	36.8	36.8	37.7
37.4	36.3	36.1	38.3	38.6	36.1	41.8	41.8	40.1	38.6
51.4	51.4	50.0	47.9	46.1	48.9	54.9	46.1	41.8	42.3
44.0	45.4	46.9	44.0	37.1	38.6	43.4	47.9	47.9	48.9
48.9									



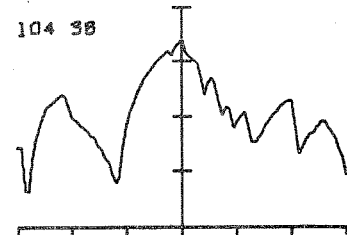
COD 40.4 CM 38 KHZ FISH NO 282

52.8	52.8	52.8	52.8	50.3	46.7	46.7	49.2	50.3	46.7
45.4	46.0	46.7	50.3	49.2	44.8	43.7	45.4	47.5	50.3
54.3	62.3	51.4	44.8	44.8	49.2	51.4	52.8	56.3	58.8
41.1	35.1	31.4	28.9	27.4	27.3	27.1	27.9	28.9	29.8
29.7	29.2	29.6	30.7	32.9	33.0	33.5	34.7	34.7	34.3
35.4	36.9	38.5	39.7	40.0	40.4	40.7	42.3	44.8	62.3
58.8	54.3	46.0	42.3	42.3	39.7	37.7	39.1	37.4	36.7
36.3	39.7	40.7	39.4	38.5	41.1	44.8	46.7	44.8	48.3
54.3	50.3	48.3	52.8	68.3	68.3	58.8	54.3	50.3	49.2
54.3									



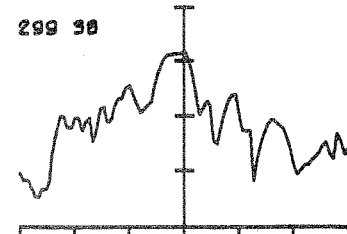
COD 41.5 CM 38 KHZ FISH NO 104

45.4	45.4	53.7	53.7	47.7	44.1	41.6	39.7	38.1	37.6
37.0	36.3	35.8	36.5	38.4	40.4	40.8	41.6	42.1	42.6
43.6	44.1	45.4	46.1	47.7	48.6	50.8	52.1	50.8	44.7
41.2	38.7	36.8	35.2	33.9	32.7	31.7	30.8	29.9	29.2
28.5	27.8	28.8	27.4	26.3	26.0	28.4	29.4	29.7	30.4
32.7	36.1	33.7	32.8	34.0	37.6	39.7	38.1	38.7	42.1
40.8	39.7	39.0	41.6	44.7	44.7	43.6	42.6	41.2	40.4
39.4	38.7	37.8	37.3	36.8	37.3	41.2	46.8	45.4	44.1
43.0	42.6	41.6	40.8	40.8	42.1	43.0	44.1	46.1	47.7
50.8									



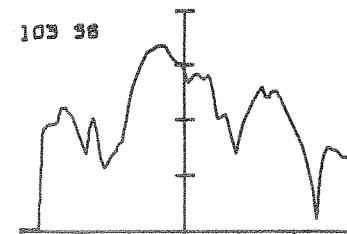
COD 42.3 CM 38 KHZ FISH NO 299

50.6	51.8	51.8	53.1	54.7	54.7	53.1	53.1	51.8	45.8
42.2	39.7	40.1	42.2	41.8	40.1	40.4	42.7	40.7	40.1
44.6	42.2	38.3	38.1	41.1	40.4	37.8	36.6	36.4	34.7
34.2	35.8	37.8	39.4	38.6	37.8	37.1	34.2	31.8	30.0
28.7	28.6	28.4	28.3	28.3	28.1	29.4	32.2	36.0	39.7
38.3	37.1	38.1	44.6	45.2	41.5	39.1	37.1	36.0	36.0
39.7	42.7	42.7	42.7	51.8	47.9	44.6	42.7	41.1	40.4
41.1	41.8	42.2	43.6	45.8	48.7	50.6	49.6	46.7	48.7
47.9	47.1	46.4	45.2	44.6	47.1	47.9	43.1	44.6	47.1
45.8									



COD 43.6 CM 38 KHZ FISH NO 103

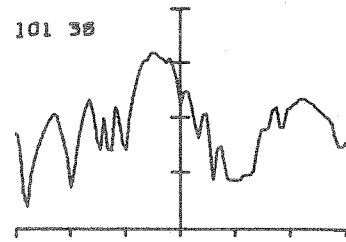
67.6	67.6	67.6	67.6	67.6	67.6	41.2	40.8	40.4	40.4
40.0	37.5	37.3	38.4	39.3	40.8	42.5	44.7	46.1	41.2
39.3	42.5	46.8	48.6	47.6	46.1	45.4	44.1	43.6	39.7
36.0	33.5	31.5	29.9	28.6	27.4	27.0	26.6	26.2	26.2
27.1	28.3	29.3	29.7	30.0	31.2	33.3	31.9	31.4	32.2
32.7	31.8	32.7	35.4	39.7	39.3	38.7	40.8	43.6	46.1
43.0	40.4	38.7	37.3	36.0	34.8	33.8	35.8	35.6	34.4
35.0	36.0	37.3	38.7	40.4	41.6	43.0	44.7	46.8	49.6
52.1	58.1	49.6	46.1	44.7	45.4	45.4	46.1	46.8	46.8
47.6									



COD AT 38 KHZ

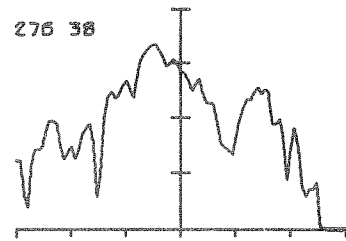
COD 43.7 CM 38 KHZ FISH NO 101

42.7	45.4	54.3	56.3	50.2	47.5	44.8	43.2	41.5	40.3
39.1	39.7	41.9	44.2	47.5	52.7	49.2	43.7	40.3	37.9
36.5	39.4	44.2	46.0	39.7	46.0	46.0	37.9	40.0	44.8
46.0	39.4	35.6	32.9	30.9	29.4	29.0	27.8	28.2	28.8
29.4	30.0	29.0	30.5	33.3	37.7	34.9	35.6	38.2	41.5
43.7	39.1	39.1	44.8	51.4	45.4	44.8	48.3	51.4	51.4
51.4	51.4	50.2	50.2	50.2	49.2	44.8	41.9	41.9	41.5
38.2	37.9	41.9	41.5	38.2	37.7	37.2	36.5	36.5	36.9
37.4	37.9	38.5	39.1	39.7	40.3	41.1	43.7	45.4	44.8
44.2									



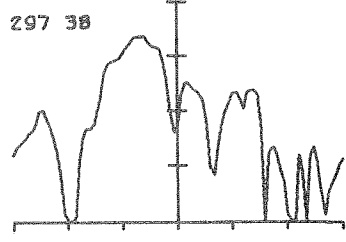
COD 44.5 CM 38 KHZ FISH NO 276

47.5	47.5	54.3	56.3	48.3	45.4	45.4	44.8	42.3	40.3
40.7	41.1	44.8	47.5	46.0	44.8	47.5	45.4	42.7	41.5
40.7	44.8	54.3	50.2	40.3	35.8	34.9	36.5	35.4	33.8
32.9	34.5	36.3	32.3	29.3	28.1	27.1	26.4	26.3	27.6
28.9	30.6	29.8	29.1	30.4	31.7	32.0	33.3	35.1	33.7
32.7	35.6	37.4	37.2	37.9	41.1	44.8	45.4	46.0	46.7
43.7	40.3	37.9	36.3	36.7	35.1	34.2	35.6	34.5	35.4
41.1	40.7	40.0	43.7	51.4	45.4	41.5	45.4	52.7	54.3
52.7	52.7	51.4	68.3	68.3	68.3	68.3	68.3	68.3	68.3
68.3									



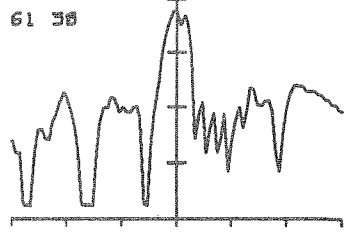
COD 49.0 CM 38 KHZ FISH NO 297

47.7	46.3	45.6	45.0	43.9	43.4	42.1	39.9	39.6	41.3
43.0	45.0	47.7	51.6	59.0	68.5	68.5	59.0	49.5	45.0
43.0	43.0	42.1	39.9	37.2	32.6	31.3	30.8	30.5	30.1
29.3	28.2	27.3	26.5	26.2	26.2	26.6	27.6	28.4	28.5
28.8	30.8	34.2	39.9	43.9	42.5	36.7	34.6	35.1	35.9
36.5	37.2	38.4	42.5	50.5	51.6	46.3	42.5	39.9	38.2
36.5	36.3	37.9	39.6	36.5	35.9	36.5	37.2	43.4	68.5
47.0	46.3	47.7	50.5	53.0	59.0	68.5	68.5	47.7	51.6
62.5	47.7	46.3	49.5	54.6	59.0	54.6	53.0	51.6	49.5
48.5									



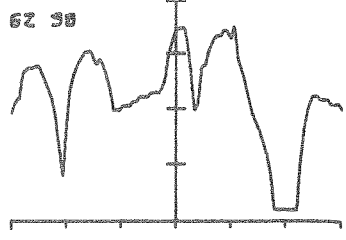
COD 50.0 CM 38 KHZ FISH NO 61

45.7	48.2	48.2	57.7	57.7	57.7	48.2	43.7	43.7	45.7
45.7	42.1	40.8	38.6	36.9	38.6	40.8	43.7	48.2	57.7
57.7	57.7	57.7	48.2	42.1	39.6	39.6	37.7	38.6	40.8
39.6	40.8	40.8	39.6	39.6	42.1	57.7	57.7	45.7	39.6
34.8	29.4	26.3	23.9	22.0	22.9	25.0	22.9	25.0	30.5
45.7	40.8	38.6	48.2	43.7	40.8	48.2	45.7	40.8	51.7
45.7	42.1	39.6	43.7	40.8	36.1	36.9	39.6	39.6	38.6
38.6	40.8	48.2	51.7	43.7	39.6	36.9	35.4	36.1	36.1
36.9	36.9	36.9	37.7	37.7	38.6	38.6	39.6	39.6	40.8
40.8									



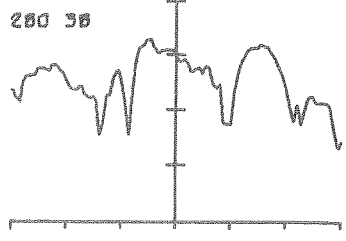
COD 50.0 CM 38 KHZ FISH NO 62

40.3	38.3	37.5	33.2	32.3	32.3	31.9	33.2	33.2	34.8
36.7	38.3	41.4	46.3	52.3	42.8	36.0	33.2	31.5	30.4
29.4	29.1	30.4	31.9	30.7	32.3	34.2	36.7	40.3	40.3
39.2	39.2	39.2	38.3	38.3	37.5	37.5	37.5	36.7	36.7
36.7	36.0	34.2	30.0	27.2	25.3	24.9	24.9	27.7	33.2
40.3	38.3	31.9	31.5	29.1	27.4	26.3	26.7	25.5	26.3
27.2	24.7	31.1	33.2	35.4	38.3	41.4	42.8	44.3	46.3
48.8	52.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	48.8
42.8	39.2	37.5	37.5	38.3	38.3	38.3	39.2	39.2	39.2
40.3									



COD 50.0 CM 38 KHZ FISH NO 280

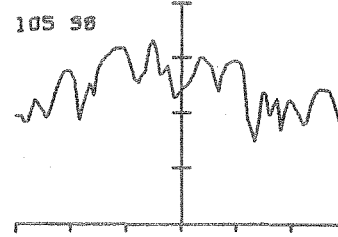
36.1	37.7	38.5	34.4	33.4	33.4	33.4	32.3	32.2	32.7
33.0	31.5	31.8	32.7	33.6	34.8	36.1	36.5	35.7	35.5
37.4	37.9	37.2	38.5	44.5	41.7	37.2	36.7	33.7	32.4
34.9	38.5	44.5	36.7	30.7	28.4	28.0	27.0	26.9	28.6
29.6	28.9	28.8	29.0	29.2	30.4	31.3	30.5	31.5	33.1
32.4	31.9	33.3	31.8	32.3	35.5	36.1	35.1	42.5	42.5
42.5	36.5	32.7	30.7	29.6	28.6	28.4	28.6	27.9	28.3
28.7	29.7	30.8	32.3	33.9	36.1	39.0	42.1	38.7	42.5
39.9	37.4	37.4	38.7	38.5	38.5	39.0	39.9	43.5	47.0
45.6									



COD AT 38 KHZ

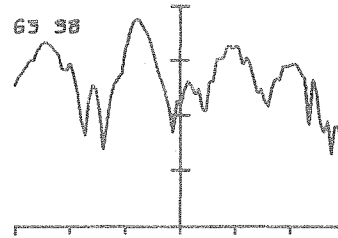
COD 52.3 CM 38 KHZ FISH NO 105

40.2	40.2	41.7	41.3	39.2	37.5	38.6	39.5	40.9	39.8
37.2	35.2	33.6	32.1	32.1	33.1	34.3	41.3	38.3	36.3
34.5	37.0	31.9	30.6	29.8	29.1	28.4	28.0	28.2	28.4
29.5	31.5	33.8	34.5	33.1	32.0	27.7	25.6	28.6	33.1
32.3	31.3	33.8	37.2	36.3	35.6	34.9	34.3	33.0	31.1
29.6	30.3	31.0	31.7	33.5	36.1	32.5	31.1	30.6	30.2
30.7	31.2	33.6	41.3	43.0	45.2	41.3	36.1	36.7	40.5
38.3	37.2	43.0	39.8	37.5	38.0	39.2	40.5	42.1	41.3
38.6	36.5	35.6	35.6	35.9	36.1	37.5	39.5	41.7	42.1
41.7									



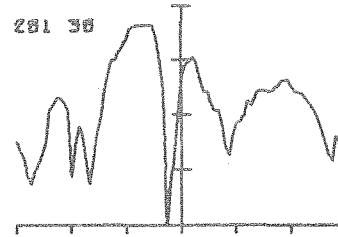
COD 55.0 CM 38 KHZ FISH NO 63

34.2	32.8	31.8	30.7	29.8	29.7	28.1	26.9	26.3	26.9
27.6	28.3	29.1	31.7	31.5	30.2	32.4	36.2	41.3	43.7
37.4	34.3	35.3	39.1	46.2	40.9	36.6	34.2	33.1	32.1
27.8	24.9	22.7	22.2	23.0	24.2	25.6	27.3	29.3	32.1
34.0	36.2	38.8	43.2	37.1	38.2	35.5	33.5	34.7	36.2
34.9	39.1	38.8	33.6	33.6	29.4	29.6	28.9	27.1	27.9
27.2	27.9	30.7	29.4	30.5	33.1	36.0	35.1	37.4	38.5
34.7	33.1	33.6	30.9	30.9	30.5	30.4	31.3	32.4	33.5
41.8	33.3	35.7	41.3	43.2	40.9	46.9	41.8	42.2	44.9
46.9									



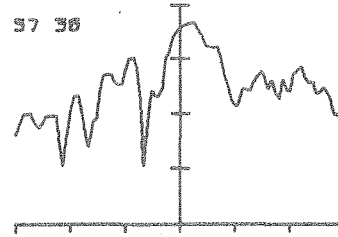
COD 58.0 CM 38 KHZ FISH NO 281

44.8	46.7	48.3	51.4	52.7	50.2	48.3	46.7	44.8	38.8
37.7	36.7	37.2	37.7	39.4	51.4	45.4	41.9	44.2	49.2
52.7	46.7	42.7	40.3	35.6	32.2	29.7	29.6	28.2	27.0
25.8	23.9	23.6	23.3	23.8	23.4	23.3	23.9	25.7	29.2
35.4	68.3	52.7	47.5	39.4	32.9	30.8	29.9	29.2	30.5
33.2	35.8	35.4	37.9	39.4	39.1	41.9	46.0	47.5	43.2
41.1	40.7	39.7	37.2	38.2	36.7	35.2	35.6	35.8	35.8
35.1	34.5	33.8	33.3	33.8	34.9	35.8	36.1	36.3	37.2
38.2	39.4	40.7	42.7	44.8	47.5	48.3	43.7	44.8	51.4
49.2									



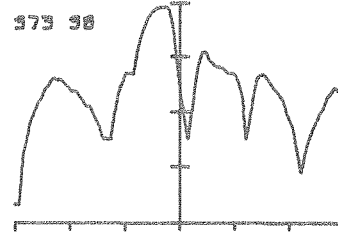
COD 59.5 CM 38 KHZ FISH NO 57

43.6	41.6	39.7	39.7	40.1	41.6	42.6	41.6	40.4	40.1
40.1	40.4	45.4	49.6	43.1	39.0	36.5	36.8	40.1	44.1
46.1	41.2	40.4	35.4	32.7	32.5	32.9	34.4	34.8	34.0
31.5	29.6	29.7	31.7	37.6	49.6	40.1	35.6	36.8	36.5
35.0	29.4	28.5	25.8	24.5	24.0	23.6	23.3	23.0	23.9
25.0	26.3	27.8	28.1	28.0	27.9	30.0	33.0	35.0	37.8
38.7	37.6	35.2	35.8	35.8	34.0	32.9	32.2	33.3	35.4
33.7	36.5	37.3	33.7	35.8	35.6	32.4	31.8	31.3	33.7
34.4	34.4	36.5	35.8	35.2	36.3	37.8	40.4	40.1	39.0
38.1									



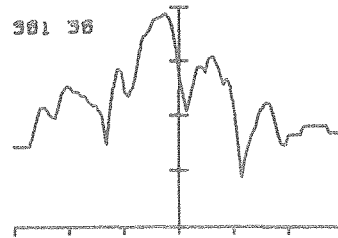
COD 60.5 CM 38 KHZ FISH NO 373

57.1	57.1	47.6	45.1	41.6	40.2	38.0	37.1	35.5	34.8
33.6	34.2	34.2	34.8	35.5	36.3	36.3	37.1	38.0	39.1
39.1	40.2	41.6	43.1	45.1	45.1	45.1	40.2	36.3	34.2
32.5	33.0	33.0	29.2	26.5	24.5	22.6	21.7	21.0	20.6
20.6	20.6	21.7	24.1	30.3	37.1	40.2	45.1	40.2	34.8
31.1	28.8	29.2	30.7	31.5	32.0	32.0	32.5	33.0	33.0
33.6	34.8	38.0	45.1	41.6	37.1	33.6	33.0	33.6	34.2
35.5	36.3	37.1	38.0	40.2	41.6	43.1	47.6	51.1	47.6
45.1	43.1	41.6	40.2	39.1	37.1	36.3	35.5	36.3	37.1
38.0									



COD 61.0 CM 38 KHZ FISH NO 381

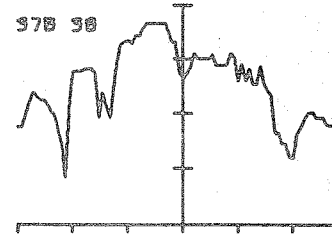
45.3	45.3	45.3	45.3	45.3	43.3	40.4	38.2	38.2	39.3
40.4	40.4	38.2	35.7	34.4	35.0	35.7	35.7	36.5	36.5
37.3	38.2	38.2	39.3	40.4	45.3	39.3	34.4	31.3	32.2
35.7	36.5	34.4	32.2	28.1	25.3	24.5	23.7	22.2	21.9
21.5	21.2	22.2	23.7	27.8	33.2	35.7	34.3	36.5	33.2
30.9	31.3	32.2	29.4	29.0	30.5	32.2	34.4	33.2	35.0
38.2	43.3	51.3	47.8	45.3	43.3	41.8	39.3	38.2	37.3
38.2	40.4	43.3	45.3	45.3	43.3	43.3	43.3	43.3	41.8
41.8	41.8	41.8	41.8	41.8	41.8	43.3	43.3	43.3	43.3
43.3									



COD AT 38 KHZ

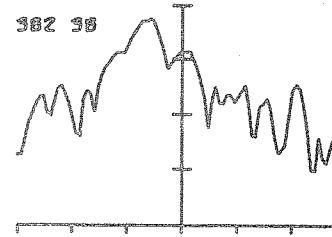
COD 62.0 CM 38 KHZ FISH NO 378

42.1	42.1	39.6	37.6	36.0	36.8	37.6	37.6	38.5	39.6
40.7	43.6	45.6	51.6	37.6	32.0	32.0	32.0	31.6	31.6
31.6	33.0	40.7	36.0	38.5	40.7	35.3	30.4	27.2	26.5
26.5	27.2	25.4	25.8	24.2	23.3	23.3	23.3	23.5	23.5
23.5	25.0	27.0	26.7	32.5	33.5	32.5	31.2	28.7	30.0
29.7	29.7	30.0	29.0	31.2	31.2	31.2	30.8	28.7	30.0
34.1	30.8	34.1	31.6	34.7	34.7	31.2	34.7	36.0	36.8
43.6	43.6	45.6	45.6	48.1	48.1	43.6	42.1	40.7	39.6
39.6	40.7	40.7	40.7	42.1	42.1	42.1	43.6	43.6	43.6
45.6									



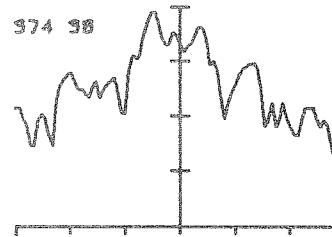
COD 62.0 CM 38 KHZ FISH NO 382

47.1	47.1	43.5	41.0	39.5	37.8	36.4	36.7	39.8	40.2
37.2	35.0	34.6	36.2	38.1	40.6	43.5	44.1	36.7	35.5
36.4	39.5	35.0	32.6	31.2	30.2	29.2	28.6	28.6	28.6
27.5	26.0	24.8	23.7	22.8	23.0	22.4	23.1	24.6	26.5
28.8	31.8	30.5	29.6	28.7	28.4	28.4	28.7	30.2	31.9
34.2	37.5	42.5	37.2	34.9	38.1	38.1	36.2	36.4	37.8
36.7	35.7	34.6	38.1	44.1	44.1	38.4	37.8	37.0	38.8
44.1	47.1	46.2	45.5	40.2	35.5	34.4	35.7	38.8	43.0
50.2	50.2	44.1	48.0	49.0	46.2	44.1	42.5	41.0	39.8
38.8									



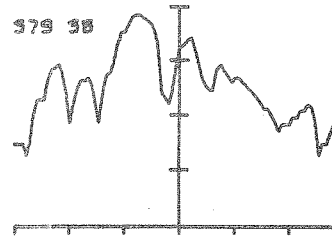
COD 63.0 CM 38 KHZ FISH NO 374

38.4	38.4	40.6	42.0	45.5	45.5	40.6	39.5	40.6	43.5
45.5	37.5	34.6	33.4	32.4	31.9	33.4	35.2	35.2	35.9
36.7	34.6	33.4	36.7	35.2	34.0	33.4	32.9	35.2	39.5
39.5	31.9	28.9	29.6	28.9	25.3	22.6	21.0	21.0	22.9
25.9	27.2	26.6	24.5	25.7	26.9	28.3	26.9	26.6	24.9
23.5	24.3	26.2	30.7	29.9	31.9	36.7	40.6	37.5	35.2
34.0	32.4	31.1	30.7	30.3	30.3	31.5	35.2	42.0	40.6
37.5	42.0	40.6	37.5	40.6	42.0	43.5	43.5	40.6	38.4
38.4	38.4	40.6	42.0	40.6	42.0	45.5	48.0	45.5	45.5
43.5									



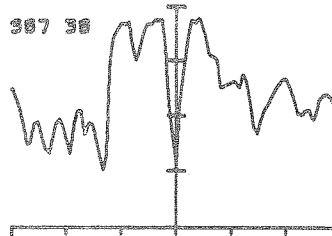
COD 64.5 CM 38 KHZ FISH NO 379

44.9	44.9	44.9	47.4	44.9	40.1	37.0	37.0	37.0	33.4
31.4	30.9	30.5	32.4	36.1	41.4	37.9	34.7	33.4	33.4
32.9	34.7	37.9	41.4	36.1	32.4	31.9	30.1	26.9	24.5
24.5	23.3	21.8	21.4	21.8	22.3	22.8	23.3	24.5	24.9
36.1	37.0	37.9	35.4	30.5	27.4	26.9	26.1	25.6	27.7
30.1	33.4	34.7	35.4	35.4	31.4	30.5	31.9	32.9	34.0
22.9	33.4	34.0	34.7	35.4	36.1	37.0	37.9	38.9	38.9
40.1	41.4	43.0	41.4	41.4	41.4	40.1	40.1	38.9	38.9
37.9	38.9	41.4	47.4	44.9	44.9	43.0	41.4	41.4	40.1
38.9									



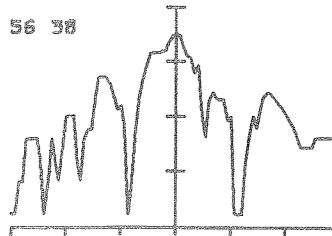
COD 64.5 CM 38 KHZ FISH NO 387

35.0	36.7	38.9	41.7	45.2	44.5	41.2	40.8	43.3	46.0
46.8	43.9	41.2	40.4	42.2	44.5	46.8	41.2	38.9	39.2
43.3	41.2	41.7	43.9	46.8	47.9	46.8	29.8	25.4	24.0
23.1	23.6	22.8	27.3	24.9	27.8	24.7	23.2	23.2	23.5
22.4	22.6	27.5	37.9	43.9	48.7	37.0	31.0	26.1	22.4
23.2	22.0	23.8	26.0	29.0	29.5	29.9	35.0	34.3	33.9
33.6	34.1	35.0	32.3	33.7	37.0	42.2	43.3	40.8	38.9
37.6	36.2	35.0	33.9	33.0	33.4	35.0	37.0	39.6	40.0
38.9	38.9	40.8	29.6	36.7	35.9	36.2	37.0	38.2	39.2
39.2									



COD 65.5 CM 38 KHZ FISH NO 56

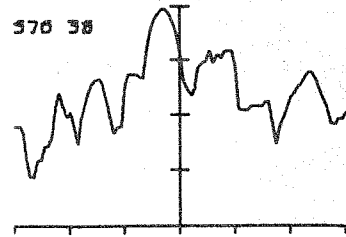
57.8	57.8	51.7	51.7	43.8	43.8	43.8	43.8	48.2	57.8
51.7	43.8	48.2	51.7	45.7	39.7	39.7	39.7	48.2	51.7
43.8	42.2	42.2	36.2	32.7	32.7	33.2	34.2	36.2	38.7
37.8	42.2	57.8	51.7	42.2	36.2	32.7	30.2	28.2	28.2
28.2	27.9	27.9	26.4	25.1	25.1	27.9	27.9	29.1	29.5
32.2	30.5	39.7	43.8	36.9	35.5	36.9	36.9	36.9	40.9
39.7	57.8	57.8	57.8	48.2	43.8	39.7	42.2	38.7	36.2
35.5	36.2	36.9	37.8	38.7	39.7	40.9	42.2	43.8	45.7
45.7	45.7	45.7	43.8	41.8	43.8	43.8	43.8	43.8	42.2
42.2									



COD AT 38 KHZ

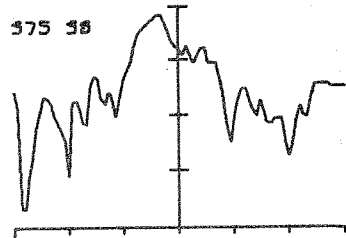
COD 65.6 CM 38 KHZ FISH NO 376

41.8	41.8	43.3	47.8	51.3	51.3	47.8	47.8	45.3	45.3
43.3	38.2	35.7	38.2	40.4	39.3	41.8	45.3	40.4	38.2
35.7	33.8	33.2	33.2	34.4	37.3	40.4	43.3	41.8	41.8
34.4	32.2	32.7	32.7	33.2	33.2	27.5	24.1	22.2	21.2
20.3	21.1	21.8	23.2	25.5	28.7	33.8	35.7	36.5	35.0
30.9	30.1	29.7	28.1	30.5	28.7	29.7	28.1	28.1	28.7
31.3	39.3	39.3	39.3	38.2	38.2	38.2	38.2	37.3	37.3
41.8	45.3	41.8	40.4	38.2	36.5	35.7	34.4	33.8	32.7
31.8	32.7	33.8	35.7	37.3	39.3	41.8	41.8	40.4	40.4
39.3									



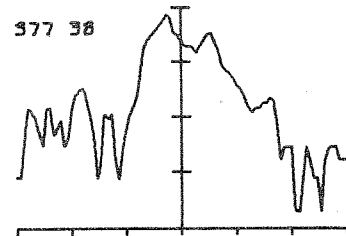
COD 66.0 CM 38 KHZ FISH NO 375

35.5	39.0	57.1	57.1	51.0	47.5	41.5	39.0	36.2	37.1
38.0	40.2	41.5	43.1	45.0	51.0	37.1	37.1	39.0	41.5
41.5	34.1	32.5	33.5	37.1	38.0	35.5	37.1	40.2	36.2
33.0	31.5	29.8	26.7	24.8	24.0	23.3	22.7	22.1	21.5
21.8	23.1	24.6	26.4	27.8	28.1	29.1	27.2	29.1	30.6
29.1	27.5	27.5	30.6	30.2	30.6	33.0	36.2	41.5	45.0
40.2	37.1	34.8	34.8	37.1	39.0	40.2	37.1	39.0	41.5
41.5	40.2	40.2	40.2	45.0	47.5	45.0	40.2	38.0	40.2
40.2	36.2	34.1	34.1	34.1	34.1	34.8	34.8	34.8	34.8
34.8									



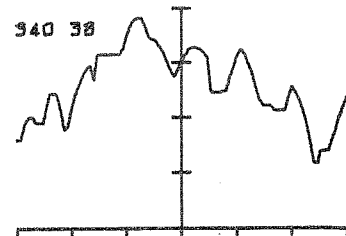
COD 67.0 CM 38 KHZ FISH NO 377

51.3	51.3	43.3	38.2	39.3	40.4	43.3	45.3	38.2	38.2
43.3	41.8	40.4	45.3	43.3	38.2	35.7	35.0	34.4	36.5
39.3	43.3	51.3	47.8	39.3	40.4	39.3	47.8	51.3	45.3
41.8	39.3	37.3	35.7	30.9	27.0	25.5	24.7	23.9	23.2
22.2	21.2	22.2	24.7	25.5	26.2	27.2	27.0	27.5	28.4
27.0	25.7	24.7	24.7	26.2	28.1	30.9	31.7	32.2	33.2
34.4	35.0	36.5	38.2	39.3	38.2	38.2	37.3	37.3	36.5
37.3	41.8	47.8	45.3	45.3	45.3	57.3	57.3	51.3	45.3
47.8	51.3	51.3	57.3	47.8	45.3	45.3	45.3	47.8	47.8
47.8									



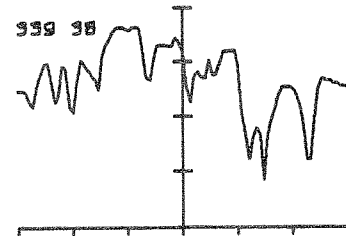
COD 69.5 CM 38 KHZ FISH NO 340

43.8	43.8	40.9	39.8	39.8	40.9	40.9	40.9	37.8	35.5
35.5	36.2	38.7	42.3	40.9	37.8	35.5	33.7	32.2	31.0
30.2	33.2	28.3	28.3	28.3	28.3	28.3	28.3	28.3	27.2
25.0	23.2	21.8	21.7	22.0	23.3	25.4	25.8	26.2	27.2
28.3	29.9	31.4	32.7	31.0	29.5	28.3	27.2	24.9	27.5
27.7	28.3	29.5	35.5	35.5	35.5	34.9	34.9	32.7	30.6
28.6	27.5	28.6	30.2	31.8	34.3	37.0	37.8	37.8	37.8
38.7	38.7	38.7	38.7	36.2	34.3	35.5	37.0	38.7	40.9
43.8	48.3	48.3	45.8	45.8	45.8	43.8	42.3	39.8	37.8
36.2									



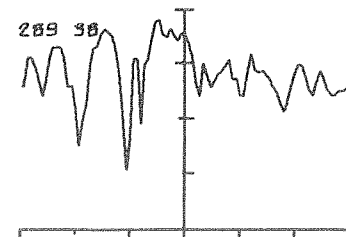
COD 70.0 CM 38 KHZ FISH NO 339

35.2	35.2	35.9	37.5	38.4	34.6	31.9	30.2	30.2	33.4
37.5	35.9	30.6	31.5	38.4	39.4	34.0	29.5	30.6	31.5
32.4	33.4	35.2	28.9	26.8	25.4	24.0	23.5	23.7	24.0
24.4	23.5	23.7	24.2	27.7	32.9	33.4	29.5	26.8	27.1
27.1	27.4	26.8	25.4	26.8	28.2	34.6	37.5	32.4	31.5
32.9	32.9	29.5	32.4	31.9	29.9	27.9	27.9	27.7	27.9
31.0	39.4	43.5	47.9	43.5	41.9	43.5	51.5	43.5	40.6
38.4	35.9	34.6	34.6	34.6	35.2	35.9	38.4	41.9	47.9
47.9	39.4	34.6	32.9	33.4	33.4	34.0	34.0	34.6	34.6
35.2									



COD 75.3 CM 38 KHZ FISH NO 289

33.8	33.8	28.6	29.1	30.6	32.9	36.0	32.5	28.6	26.7
26.9	27.4	29.1	34.3	33.8	38.1	45.0	39.9	37.4	30.6
26.9	26.5	24.6	23.5	24.3	25.1	27.4	31.3	38.9	49.4
43.4	28.8	29.4	40.9	30.0	28.8	24.8	22.0	21.8	24.8
25.3	23.4	24.8	25.9	24.3	24.8	26.3	29.1	33.8	36.0
29.7	32.5	34.3	32.9	31.7	31.0	30.0	29.1	32.9	32.5
36.0	36.0	31.3	28.1	31.3	31.7	31.0	32.1	32.9	34.3
35.4	37.4	38.9	36.7	33.8	31.7	30.0	30.6	32.5	34.9
36.0	32.9	31.3	32.9	34.9	36.0	35.4	34.9	34.9	34.3
33.8									

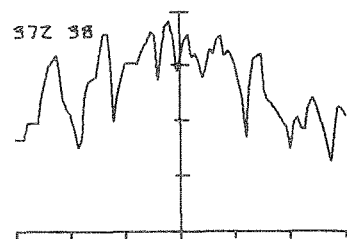




COD AT 38 KHZ

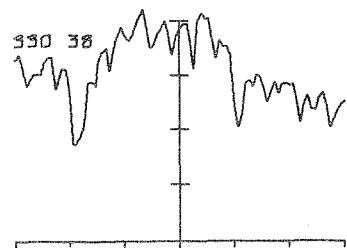
COD 89.0 CM 38 KHZ FISH NO 372

43.2	43.2	43.2	40.3	40.3	40.3	40.3	35.6	32.6	29.9
28.9	27.9	31.1	36.3	38.1	39.1	41.6	45.1	43.2	34.9
32.6	32.1	31.6	27.3	24.1	24.3	29.6	40.3	34.9	31.6
29.2	29.6	29.6	29.9	27.9	26.3	24.9	23.7	24.7	32.6
26.0	22.4	21.6	24.5	31.1	28.2	25.1	24.1	28.5	27.6
29.2	32.1	30.3	26.8	27.9	24.7	24.3	28.2	27.1	28.5
30.3	33.1	36.3	43.2	32.6	28.5	27.9	27.6	34.9	36.3
37.2	38.1	39.1	40.3	41.6	45.1	40.3	39.1	41.6	41.6
37.2	35.6	37.2	39.1	41.6	45.1	47.6	41.6	37.2	38.1
39.1									



COD 96.0 CM 38 KHZ FISH NO 330

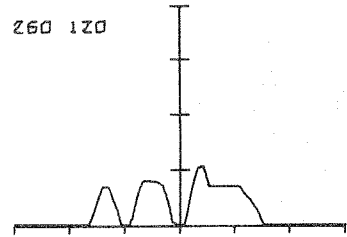
27.1	26.2	28.8	32.2	30.7	29.7	30.0	29.7	27.5	26.6
26.6	32.6	30.4	28.6	29.4	34.1	43.1	41.8	40.6	38.7
31.1	31.4	32.2	27.1	25.6	24.9	29.4	25.6	23.0	21.2
23.1	23.9	22.7	20.7	19.3	18.0	21.8	25.2	24.3	22.5
21.1	20.0	22.7	26.4	22.7	21.4	20.5	20.9	24.0	29.1
19.9	18.6	19.9	19.6	23.3	27.1	23.6	25.0	24.9	26.6
35.7	39.6	37.1	31.1	30.7	32.2	29.7	30.7	32.6	35.1
32.6	31.1	33.6	31.4	31.4	32.2	31.4	35.1	38.7	35.1
33.6	36.4	36.4	34.1	33.1	35.7	39.6	37.0	36.4	35.1
34.6									



DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF COD AT 120 KHZ

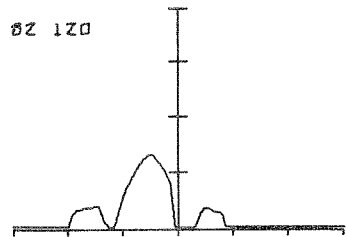
COD 6.7 CM 120 KHZ FISH NO 260

80.4	63.5	64.8	66.4	66.4	68.3	70.8	74.3	80.4	80.4
80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	66.4
61.3	58.1	56.3	54.3	52.8	52.8	53.9	56.8	57.4	60.4
63.5	62.3	58.1	55.3	53.1	51.7	51.7	52.1	52.1	52.4
52.8	54.3	56.3	59.5	63.5	70.8	62.3	56.8	53.5	51.1
49.2	49.0	50.8	53.1	53.1	53.1	53.1	52.8	52.8	52.8
52.8	53.1	53.9	54.8	55.3	56.3	57.4	58.8	60.4	62.3
66.4	74.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
80.4									



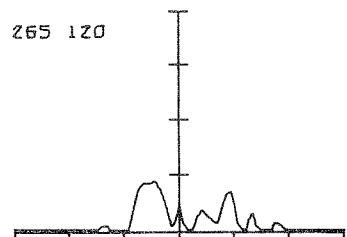
COD 7.2 CM 120 KHZ FISH NO 82

83.0	83.0	83.0	83.0	73.4	71.9	67.4	64.9	63.9	63.9
64.9	66.0	67.4	66.0	62.1	59.4	57.4	56.5	56.5	56.1
56.1	56.1	55.7	55.7	57.4	59.4	61.4	63.0	58.9	56.1
54.0	52.3	50.9	49.7	48.6	47.7	46.8	46.3	47.0	47.7
48.6	49.5	50.7	52.1	60.7	63.0	64.9	66.0	64.9	61.4
58.9	56.9	56.1	56.5	56.9	57.4	57.4	57.8	60.7	64.9
73.4	76.9	69.0	64.9	63.9	69.0	83.0	83.0	83.0	83.0
83.0	83.0	83.0	83.0	73.4	69.0	66.0	63.9	66.0	69.0
76.9	83.0	83.0	83.0	83.0	83.0	83.0	73.4	67.4	64.9
66.0									



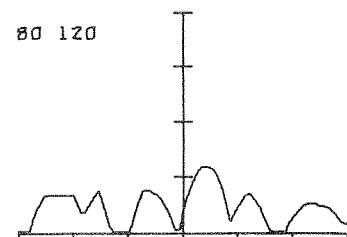
COD 7.5 CM 120 KHZ FISH NO 265

81.7	81.7	81.7	81.7	81.7	81.7	75.7	75.7	75.7	75.7
75.7	72.1	63.6	60.1	60.1	60.1	63.6	69.6	72.1	72.1
72.1	69.6	62.6	59.4	58.8	58.8	60.1	62.6	67.7	66.1
63.6	61.7	57.1	54.4	52.1	51.3	51.1	51.1	50.8	51.6
53.1	54.8	57.1	59.4	57.6	55.2	58.8	64.8	61.7	58.8
57.1	56.1	57.1	57.6	58.2	58.8	57.1	54.8	53.1	52.7
55.2	58.8	64.8	60.9	57.6	56.6	59.4	64.8	69.6	63.6
60.1	58.2	58.8	59.4	60.1	60.1	60.9	61.7	62.6	63.6
63.6	64.8	66.1	69.6	75.7	81.7	75.7	72.1	72.1	69.6
72.1									



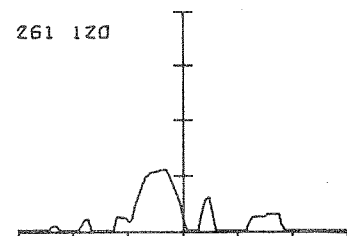
COD 7.9 CM 120 KHZ FISH NO 80

77.2	66.3	62.4	59.7	57.2	55.6	54.3	53.1	53.1	53.1
53.1	53.1	53.1	53.1	53.1	53.4	54.6	56.4	56.4	55.3
54.3	53.1	52.3	54.3	56.4	59.1	64.1	73.7	77.2	71.2
62.4	58.6	56.0	54.0	52.3	52.1	52.6	53.1	53.4	54.0
55.3	56.4	58.1	59.7	59.1	55.6	53.4	51.4	50.0	48.7
47.8	48.1	48.4	48.6	49.4	51.0	52.8	55.3	58.1	56.4
55.3	54.3	53.1	52.8	53.7	54.6	55.6	57.2	58.6	60.3
62.4	62.4	60.9	59.7	58.1	57.2	56.4	55.6	54.9	54.6
54.9	54.9	55.3	55.3	55.6	56.0	56.4	57.2	58.1	58.6
58.6									



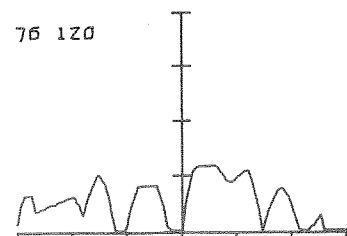
COD 8.0 CM 120 KHZ FISH NO 261

81.3	81.3	81.3	81.3	81.3	81.3	71.7	64.4	61.3	59.0
59.0	59.7	60.4	61.3	62.2	63.2	60.4	59.0	57.7	57.7
61.3	65.7	75.2	81.3	81.3	67.3	59.7	57.2	57.7	57.7
58.3	57.7	54.8	53.0	51.2	49.7	49.2	49.0	48.8	48.6
48.6	49.9	51.4	53.0	55.2	58.3	63.2	75.2	64.4	59.7
56.7	54.0	53.7	56.7	60.4	63.2	62.2	61.3	63.2	71.7
81.3	81.3	65.7	58.3	57.2	57.2	57.2	57.2	56.7	56.7
56.7	56.7	59.0	63.2	69.2	71.7	65.7	63.2	60.4	63.2
65.7	71.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
81.3									



COD 8.1 CM 120 KHZ FISH NO 76

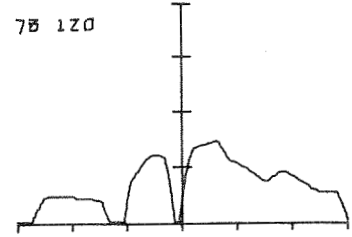
58.7	55.0	53.2	53.4	53.7	56.4	56.0	55.7	55.3	55.0
55.0	54.6	54.3	54.0	53.7	53.4	54.3	55.7	57.2	54.6
52.6	50.8	49.5	50.4	51.4	53.7	57.2	63.3	73.7	63.3
58.7	55.7	53.4	51.7	51.4	51.4	51.4	51.4	51.7	53.4
55.7	59.2	64.2	63.3	61.7	59.7	54.3	51.0	48.6	48.0
47.8	47.8	47.8	47.7	47.8	48.8	49.6	50.8	51.2	50.6
50.0	49.5	48.9	48.8	50.6	52.9	56.0	60.3	57.7	55.7
54.0	52.6	51.9	52.6	53.7	55.3	57.2	59.7	61.0	60.3
59.2	58.7	57.7	56.8	60.3	67.7	83.3	83.3	83.3	83.3
83.3									



COD AT 120 KHZ

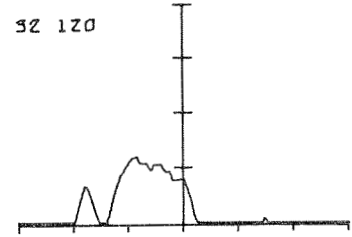
COD 8.5 CM 120 KHZ FISH NO 78

76.9 69.0 64.9 61.4 59.4 57.8 56.5 55.3 55.0 55.0  
 55.3 55.3 55.3 55.3 55.3 55.3 55.7 55.7 55.7 55.7  
 55.7 56.1 56.1 56.5 58.3 60.7 63.9 69.0 73.4 60.7  
 55.3 52.3 50.9 50.1 49.1 48.3 47.7 47.5 47.8 48.0  
 48.3 50.7 55.0 63.9 63.9 55.0 50.7 47.8 46.2 45.9  
 45.7 45.6 45.3 45.2 45.0 45.8 46.8 48.0 49.0 49.1  
 49.5 49.9 50.3 50.7 51.1 51.6 52.1 52.6 52.6 51.8  
 51.4 50.7 50.7 50.9 51.4 51.8 52.1 52.6 53.1 53.4  
 54.0 54.3 54.7 54.7 54.7 54.7 54.7 54.7 56.1 57.8  
 60.0



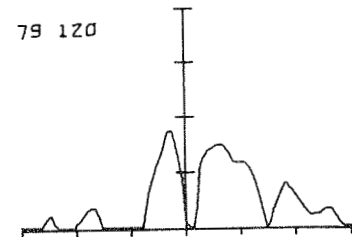
COD 8.6 CM 120 KHZ FISH NO 32

81.8 81.8 81.8 81.8 81.8 81.8 81.8 81.8 81.8 81.8  
 81.8 81.8 81.8 81.8 72.3 62.7 57.7 55.0 52.9 53.9  
 55.8 58.3 61.8 61.8 61.0 57.2 54.6 52.6 50.9 49.8  
 48.6 47.8 47.5 49.0 49.2 49.2 50.5 49.0 49.2 49.4  
 50.7 50.2 52.3 52.0 51.7 51.7 53.5 55.8 58.9 63.8  
 75.8 81.8 81.8 81.8 75.8 75.8 75.8 67.8 60.2 66.3  
 72.3 63.8 67.8 64.9 64.9 64.9 72.3 58.9 63.8 72.3  
 72.3 72.3 72.3 75.8 75.8 75.8 75.8 69.8 64.9 75.8  
 81.8 81.8 81.8 81.8 81.8 81.8 81.8 81.8 81.8 81.8  
 81.8



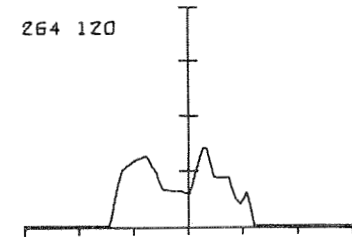
COD 9.0 CM 120 KHZ FISH NO 79

70.9 66.0 62.9 61.3 61.3 60.6 58.8 57.8 57.4 59.4  
 61.3 63.8 62.1 60.6 60.0 58.8 58.3 57.4 56.5 56.1  
 56.5 57.8 60.0 62.1 63.8 63.8 64.9 66.0 67.4 68.9  
 68.9 70.9 73.4 61.3 56.1 52.8 50.5 48.4 46.9 45.2  
 42.3 42.1 44.2 47.1 51.1 59.4 76.9 82.9 56.1 48.4  
 46.8 45.7 45.3 45.0 44.7 45.2 45.8 46.7 48.1 48.4  
 48.0 48.4 49.1 50.3 52.0 54.3 57.4 62.1 58.8 56.5  
 54.6 53.1 51.8 52.6 53.4 54.3 55.3 56.5 57.4 57.8  
 57.4 57.4 56.9 56.5 56.5 57.4 58.3 59.4 61.3 62.9  
 64.9



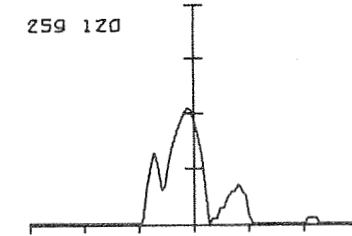
COD 9.2 CM 120 KHZ FISH NO 264

81.0 81.0 74.9 74.9 74.9 67.0 62.9 60.1 61.0 62.9  
 65.4 71.4 81.0 81.0 81.0 74.9 74.9 74.9 74.9 74.9  
 71.4 71.4 71.4 65.4 58.0 54.1 51.4 49.4 48.9 48.3  
 47.9 47.5 47.2 47.0 47.9 49.1 50.3 52.0 53.4 53.4  
 53.7 53.7 53.7 53.7 54.1 54.1 52.3 49.4 47.2 45.4  
 46.0 48.7 51.1 51.1 50.9 50.9 51.1 53.0 54.9 55.9  
 54.9 53.7 56.4 61.0 74.9 81.0 81.0 81.0 81.0 81.0  
 81.0 81.0 81.0 81.0 81.0 74.9 74.9 74.9 74.9 74.9  
 74.9 74.9 74.9 74.9 74.9 74.9 71.4 68.9 65.4 64.1  
 61.9



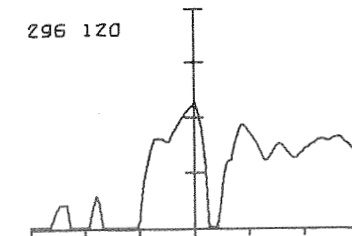
COD 11.2 CM 120 KHZ FISH NO 259

70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7  
 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7  
 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7  
 70.7 58.7 52.7 49.2 46.7 49.2 53.8 52.7 48.5 45.6  
 43.1 41.5 39.9 38.7 39.4 41.5 43.9 47.8 53.8 61.2  
 58.7 58.7 56.8 56.8 55.2 53.8 53.8 52.7 53.8 55.2  
 58.7 64.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7  
 70.7 70.7 61.2 61.2 61.2 61.2 58.7 58.7 58.7 70.7  
 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70.7  
 70.7



COD 11.5 CM 120 KHZ FISH NO 296

80.8 80.8 80.8 68.8 63.9 60.8 58.5 56.7 55.7 55.7  
 55.7 61.7 74.8 61.7 60.8 61.7 60.0 56.2 54.0 55.7  
 60.8 74.8 80.8 80.8 80.8 80.8 80.8 66.8 63.9 68.8  
 58.5 51.9 48.1 45.5 43.6 43.7 43.9 44.3 43.9 42.5  
 41.3 40.2 39.3 38.4 37.7 36.9 38.9 42.5 49.0 74.8  
 74.8 74.8 56.2 50.2 47.8 47.4 44.6 42.4 41.0 41.8  
 42.8 43.7 44.8 46.2 47.8 47.4 46.2 45.1 44.4 45.1  
 46.0 46.8 47.4 46.8 46.2 45.5 45.1 44.6 44.2 43.7  
 43.8 44.3 43.8 43.4 43.2 43.8 44.4 45.0 45.7 46.5  
 47.2

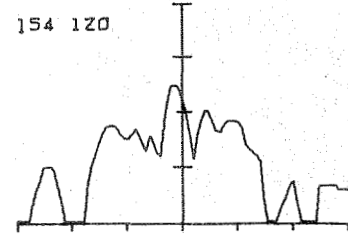


COD AT 120 KHZ

COD 20.5 CM 120 KHZ FISH NO 154

72.1	72.1	66.0	60.0	56.5	54.0	52.1	49.8	49.8	49.8
51.2	54.0	56.5	62.5	72.1	72.1	72.1	72.1	60.0	53.0
49.8	47.5	45.6	43.8	42.5	42.0	42.5	43.1	44.1	44.8
44.8	43.8	42.8	44.1	45.6	47.0	44.1	45.6	47.5	48.0
41.2	37.4	34.8	34.8	35.8	37.9	40.5	44.5	48.5	44.1
41.4	39.4	40.2	41.7	43.4	43.8	42.2	41.4	41.7	41.7
42.0	42.8	46.0	47.0	47.5	48.0	49.1	56.5	72.1	66.0
62.5	58.1	56.5	55.2	53.0	52.1	56.5	72.1	72.1	72.1
72.1	72.1	53.0	53.0	53.0	53.0	53.0	54.0	54.0	54.0
54.0									

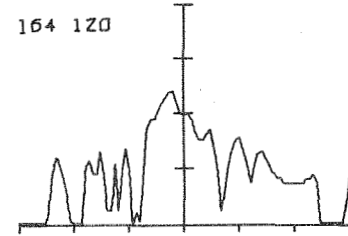
154 120



COD 23.0 CM 120 KHZ FISH NO 164

71.7	71.7	71.7	71.7	71.7	59.6	55.7	71.7	57.7	50.9
47.6	49.4	51.7	54.8	59.6	71.7	71.7	62.1	49.4	48.2
50.9	50.9	46.6	50.9	57.7	57.7	48.8	57.7	50.9	46.1
50.1	65.7	57.7	59.6	50.1	42.4	40.6	40.8	39.2	37.9
36.7	35.7	35.7	37.7	40.1	40.1	40.1	41.1	43.4	44.8
44.8	43.4	42.7	45.7	49.4	57.7	53.6	49.4	46.6	44.5
44.1	46.6	49.4	52.6	49.4	47.1	46.6	48.2	49.4	50.9
51.7	51.7	52.6	52.6	52.6	52.6	52.6	52.6	51.7	51.7
50.9	52.6	62.1	71.7	71.7	71.7	71.7	71.7	71.7	56.1
50.9									

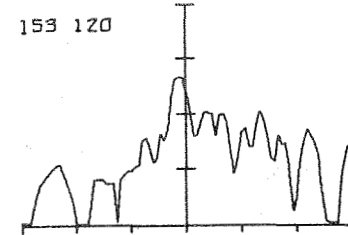
164 120



COD 25.0 CM 120 KHZ FISH NO 153

71.7	71.7	62.1	57.7	54.8	52.6	51.7	50.9	50.1	49.4
48.8	50.1	51.7	53.6	56.1	71.7	71.7	65.7	65.7	56.1
51.7	51.7	51.7	52.6	52.6	52.6	59.6	51.7	50.9	50.1
50.1	49.4	48.8	44.5	44.1	46.1	48.8	47.6	43.4	44.8
42.4	36.9	33.5	33.1	33.6	36.0	39.0	44.1	43.4	41.1
39.4	39.9	40.1	44.1	39.9	40.1	41.6	47.1	50.9	47.1
43.1	42.4	46.1	45.7	41.9	39.4	41.3	44.1	48.2	48.8
43.7	45.7	45.2	49.4	57.7	54.8	48.2	44.5	42.7	44.1
45.2	47.6	54.8	59.6	71.7	71.7	65.7	53.6	48.8	45.7
45.7									

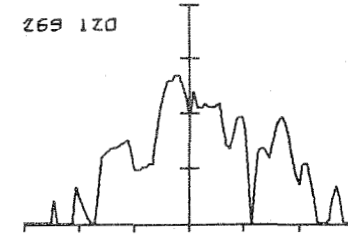
153 120



COD 26.0 CM 120 KHZ FISH NO 269

71.1	71.1	71.1	71.1	71.1	71.1	71.1	61.5	55.5	61.5
71.1	71.1	71.1	61.5	53.0	55.5	57.1	59.0	61.5	65.1
55.5	47.6	47.0	46.5	46.0	46.0	45.5	45.1	44.6	46.5
50.3	50.3	49.5	49.5	48.8	48.8	42.8	38.6	35.8	33.8
33.7	32.7	33.0	34.8	37.3	40.5	35.7	39.0	38.8	38.0
39.0	38.8	38.2	37.8	42.1	46.0	46.5	43.5	40.5	40.2
42.1	47.6	65.1	53.0	46.5	46.0	47.0	48.2	44.6	41.5
40.2	41.8	43.8	47.0	51.1	53.0	48.8	48.8	52.0	55.5
61.5	71.1	65.1	59.0	55.5	53.0	55.5	71.1	71.1	71.1
71.1									

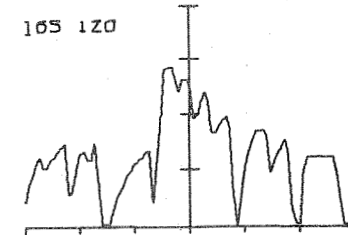
269 120



COD 27.0 CM 120 KHZ FISH NO 165

55.9	52.3	50.6	48.5	47.3	49.8	49.1	47.9	47.3	46.3
45.4	45.0	54.5	53.4	49.8	46.8	46.3	48.5	47.9	45.0
51.4	71.4	61.9	59.4	57.4	54.5	53.4	52.3	50.6	49.8
48.5	47.9	47.3	46.3	46.3	55.9	47.9	41.3	31.5	31.0
31.3	33.4	36.0	33.3	33.8	35.0	40.8	39.6	37.3	35.6
37.8	43.5	43.1	41.9	40.8	40.1	42.8	54.5	65.4	54.5
49.8	46.8	44.6	42.8	42.8	42.5	44.2	50.6	48.5	46.8
45.4	44.2	47.3	57.4	71.4	59.4	49.8	47.3	47.3	47.3
47.3	47.9	47.9	47.9	47.9	50.6	55.9	71.4	71.4	71.4
71.4									

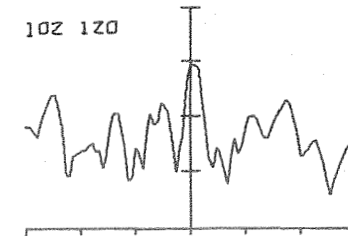
165 120



COD 27.2 CM 120 KHZ FISH NO 102

41.5	42.0	42.9	43.8	41.3	39.2	37.4	36.0	35.8	38.3
42.3	50.8	50.8	46.8	46.4	46.0	46.0	45.2	44.5	46.4
46.0	49.5	46.8	42.0	39.2	39.5	42.0	45.6	51.6	50.8
45.6	46.8	49.5	42.6	39.2	41.5	40.4	37.4	38.3	39.5
44.8	50.1	45.6	42.9	32.6	30.2	30.8	31.4	36.2	41.5
47.8	49.5	45.6	46.8	49.5	52.4	46.8	43.8	46.8	44.8
41.8	39.7	39.7	40.8	42.3	44.1	43.8	42.0	40.4	39.2
37.9	36.8	37.8	39.9	42.9	47.3	46.4	45.6	44.5	44.1
46.0	48.3	51.6	54.3	51.6	49.5	47.8	46.4	45.2	46.8
49.5									

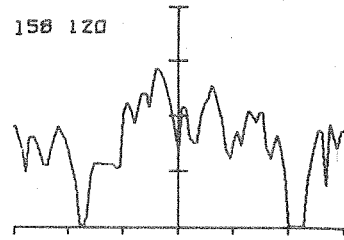
102 120



COD AT 120 KHZ

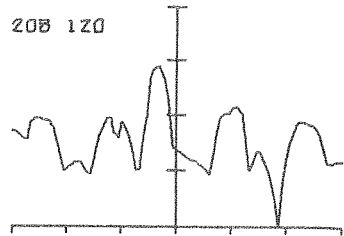
COD 28.5 CM 120 KHZ FISH NO 158

41.7	43.8	46.2	50.2	43.8	43.5	44.9	46.7	48.9	48.9
45.8	43.5	41.7	43.2	44.6	46.7	49.5	52.7	59.7	71.8
57.8	50.2	48.3	48.3	48.9	48.9	48.9	48.9	49.5	48.9
38.7	37.3	39.1	41.4	33.2	35.7	36.1	38.5	34.3	31.2
31.9	33.3	35.5	38.3	42.8	46.2	38.0	38.9	43.8	44.9
44.6	39.5	37.5	36.4	34.2	36.1	38.9	41.2	46.2	47.7
44.2	42.5	45.3	41.4	38.9	39.7	41.2	39.1	39.5	45.8
47.7	44.9	43.2	45.8	50.2	62.2	71.8	71.8	71.8	62.2
51.8	47.7	44.6	42.2	43.2	52.7	41.2	43.5	45.8	42.5
42.2									



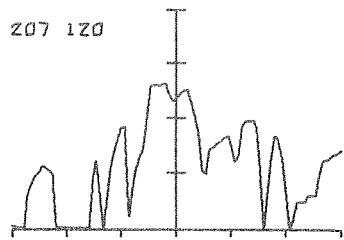
COD 29.2 CM 120 KHZ FISH NO 208

42.5	43.0	43.7	44.3	44.0	40.9	40.2	40.5	40.7	40.9
41.2	42.2	44.0	46.7	50.0	49.4	48.8	48.2	48.2	48.8
50.0	50.7	48.8	45.8	43.3	41.7	40.2	40.5	43.3	44.0
40.9	42.2	44.0	46.3	50.0	49.4	43.3	39.8	32.7	31.1
30.7	32.1	33.8	37.3	45.8	46.3	46.7	47.2	47.7	48.2
48.2	48.8	49.4	50.0	50.7	47.2	43.0	40.2	39.4	39.6
38.7	38.1	39.0	39.8	44.0	50.0	48.2	46.3	46.7	48.2
50.0	52.3	55.4	60.2	52.3	47.7	44.7	42.7	40.9	41.2
41.4	41.7	41.9	42.5	43.7	46.3	48.8	48.8	48.2	48.2
48.2									



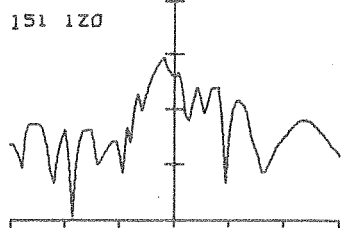
COD 29.8 CM 120 KHZ FISH NO 207

59.8	65.9	71.9	65.9	53.8	51.9	50.3	49.6	48.4	49.0
49.6	50.3	59.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9
71.9	62.3	51.1	47.3	52.8	65.9	55.0	49.0	45.9	43.3
41.3	41.5	57.9	52.8	49.0	46.8	45.0	39.4	33.8	33.5
34.2	33.4	33.4	35.5	36.9	36.0	35.2	34.5	34.7	36.8
39.2	42.9	49.6	50.3	45.4	45.0	44.3	43.9	43.3	42.9
45.0	47.8	46.3	41.0	40.1	40.1	40.1	41.8	49.0	62.3
52.8	46.8	42.9	43.9	47.3	52.8	71.9	57.9	55.0	55.0
55.0	53.8	53.8	53.8	50.3	47.3	47.3	46.8	46.3	45.9
45.4									



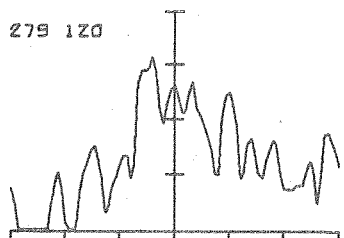
COD 30.0 CM 120 KHZ FISH NO 151

46.1	47.1	48.7	50.8	44.4	42.4	42.4	42.7	43.0	44.1
47.1	51.7	53.6	48.1	45.2	43.4	48.1	59.6	50.1	45.6
43.7	43.4	43.4	46.1	50.1	48.7	47.6	46.6	45.6	45.6
48.1	51.7	43.0	46.1	39.8	37.0	40.3	37.5	35.4	33.7
32.2	31.0	30.3	32.4	33.8	34.2	33.0	35.8	41.3	42.1
38.6	35.7	37.9	40.8	38.8	35.8	35.7	36.0	41.0	53.6
44.1	39.6	38.0	38.8	39.4	41.0	45.2	47.1	48.7	51.7
50.8	49.4	48.1	46.6	45.6	44.8	44.1	43.0	42.4	41.8
41.6	42.1	42.4	43.0	43.7	44.4	45.2	46.1	47.1	47.6
48.7									



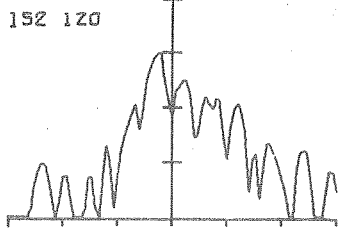
COD 30.2 CM 120 KHZ FISH NO 279

52.8	55.3	61.3	70.8	70.8	70.8	70.8	70.8	70.8	70.8
61.3	55.3	51.8	49.3	52.8	58.8	70.8	70.8	58.8	52.8
49.3	47.3	45.3	44.4	46.8	50.8	56.9	55.3	51.8	50.0
47.9	46.2	46.8	50.8	47.9	33.3	30.8	30.7	30.3	28.3
31.6	38.4	40.7	36.9	34.2	33.6	35.7	38.8	37.8	35.0
32.8	38.2	39.5	41.3	43.2	45.7	50.0	50.0	39.5	35.3
34.7	37.4	41.6	50.8	49.3	44.0	43.2	46.2	50.0	50.8
47.3	45.3	43.6	44.8	50.0	52.8	52.8	52.8	51.8	51.8
51.8	49.3	47.3	49.3	55.3	50.0	42.5	42.2	44.0	46.2
48.6									



COD 32.5 CM 120 KHZ FISH NO 152

72.2	72.2	72.2	72.2	72.2	66.2	58.2	54.1	51.4	49.9
50.6	53.1	56.6	62.7	56.6	52.2	52.2	56.6	72.2	72.2
72.2	58.2	52.2	53.1	58.2	72.2	52.2	46.6	49.9	58.2
52.2	47.6	44.6	42.4	40.6	39.1	43.9	40.0	35.1	32.7
30.8	29.9	29.8	34.8	38.8	41.6	36.6	35.7	34.7	35.4
37.6	45.4	44.3	40.0	37.7	39.5	40.2	38.1	39.0	45.4
49.3	43.3	39.7	39.0	41.3	44.3	55.3	49.3	48.1	56.6
49.9	46.2	47.1	48.7	50.6	53.1	55.3	60.2	60.2	51.4
48.1	47.6	48.7	54.1	66.2	72.2	62.7	55.3	51.4	52.2
55.3									

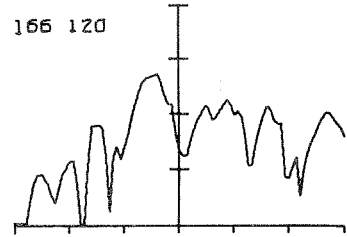


COD AT 120 KHZ

COD 32.9 CM 120 KHZ FISH NO 166

71.7	59.6	65.7	59.6	56.1	52.6	50.8	50.8	51.7	52.6
54.8	56.1	53.6	50.8	49.4	48.2	48.2	52.6	71.7	71.7
49.4	41.8	41.8	41.8	42.7	47.6	57.7	47.6	45.7	48.2
45.7	43.7	40.3	37.7	35.7	33.9	33.2	32.9	32.6	32.4
34.2	36.4	38.1	38.2	43.4	46.6	47.6	47.1	44.4	42.4
40.8	39.4	38.2	39.0	41.0	40.1	39.0	38.1	37.2	38.2
40.1	39.2	40.5	43.7	49.4	48.8	44.8	42.1	40.1	38.4
39.4	41.3	41.8	41.8	51.7	51.7	49.4	47.6	54.8	50.1
47.1	44.8	43.4	41.8	40.5	39.4	39.9	40.8	41.6	42.7
44.1									

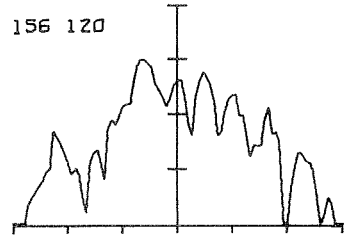
166 120



COD 35.0 CM 120 KHZ FISH NO 156

71.8	65.8	62.2	59.7	56.2	54.9	53.7	52.7	51.8	50.2
49.5	42.8	44.2	45.3	47.2	48.9	50.9	49.5	50.9	54.9
57.8	48.3	46.7	46.2	48.3	51.8	42.2	40.7	41.9	40.0
38.2	37.8	37.6	33.9	30.7	29.7	30.3	30.9	31.6	34.5
35.8	37.0	38.5	37.1	34.3	33.6	33.8	37.0	41.9	43.8
36.5	33.5	32.1	33.3	34.6	37.6	43.8	42.8	39.3	36.8
36.2	36.4	40.2	40.2	43.5	47.7	45.3	45.8	45.3	40.7
38.6	43.5	43.1	44.9	71.8	62.2	53.7	49.5	46.7	47.2
48.3	48.9	50.2	54.9	65.8	57.8	54.9	56.2	71.8	71.8
71.8									

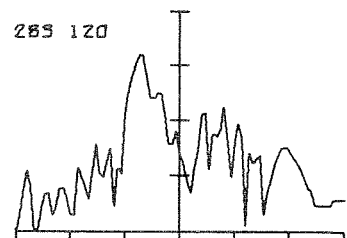
156 120



COD 35.5 CM 120 KHZ FISH NO 283

71.2	57.2	52.1	48.9	52.1	61.6	59.1	55.6	53.1	53.1
57.2	55.6	52.1	52.1	54.3	57.2	57.2	48.3	50.4	52.1
54.3	48.9	44.0	49.6	50.4	47.1	44.7	55.6	48.3	49.6
38.9	34.4	31.4	29.2	27.9	28.3	32.3	35.9	35.9	34.8
35.3	38.7	44.3	44.0	41.6	46.1	47.7	51.2	53.1	48.3
45.2	38.5	38.5	48.9	42.2	42.9	41.4	37.2	42.6	50.4
44.0	40.3	43.2	59.1	45.6	47.7	46.6	46.1	57.2	53.1
50.4	47.7	46.1	44.7	44.7	45.6	46.6	47.7	48.9	50.4
52.1	53.1	55.6	55.6	55.6	55.6	55.6	54.3	54.3	54.3
54.3									

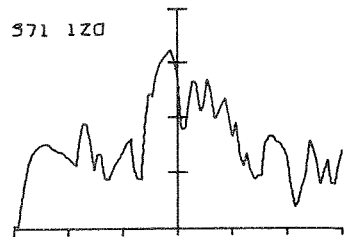
283 120



COD 36.5 CM 120 KHZ FISH NO 371

70.4	64.4	54.8	51.3	48.1	46.3	45.3	44.8	44.4	44.8
45.3	45.8	46.3	46.3	48.9	47.5	48.1	48.8	43.9	40.6
41.4	44.4	49.6	46.3	46.9	51.3	51.3	49.6	48.1	46.9
45.8	44.4	43.5	49.6	51.3	51.3	40.3	35.3	36.2	32.3
29.9	28.9	28.1	27.4	29.6	33.1	42.1	41.4	36.4	33.1
34.0	38.8	37.5	32.8	35.0	40.3	38.8	37.3	36.2	40.3
43.5	40.6	46.9	48.8	46.3	49.6	51.3	50.4	50.4	44.4
43.1	43.5	44.4	44.8	45.8	47.5	52.3	56.4	54.8	52.3
50.4	43.9	45.8	48.1	52.3	49.6	47.5	52.3	52.3	48.1
45.8									

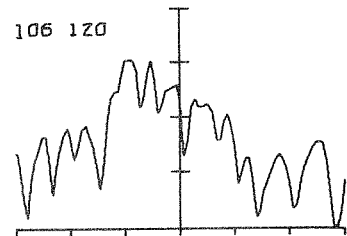
371 120



COD 37.5 CM 120 KHZ FISH NO 106

46.2	49.3	55.3	58.2	51.4	47.6	45.4	43.3	43.6	47.6
54.2	48.7	45.4	43.0	41.6	44.3	47.6	45.0	41.9	41.3
43.3	45.4	48.7	53.1	49.3	40.4	36.2	35.1	35.0	31.7
29.3	29.4	29.9	31.4	38.2	36.5	31.9	29.4	33.0	39.2
37.3	35.0	34.6	34.2	33.8	37.3	47.1	43.9	37.7	36.4
38.1	37.9	37.4	38.2	39.4	44.3	43.6	40.4	39.2	41.9
45.4	52.2	49.3	47.1	47.6	51.4	58.2	56.7	53.1	51.4
49.3	47.6	46.6	47.6	49.3	52.2	56.7	55.3	51.4	48.7
47.1	45.4	44.3	44.6	45.0	48.1	54.2	66.2	72.2	56.7
51.4									

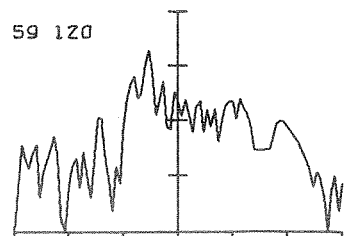
106 120



COD 39.5 CM 120 KHZ FISH NO 59

62.7	53.1	44.2	47.1	48.7	45.8	44.2	54.1	49.3	47.1
45.0	42.7	46.6	58.2	60.2	52.2	48.1	46.6	52.2	45.4
49.9	54.1	46.2	39.3	39.7	47.1	50.6	56.6	48.1	51.4
40.8	36.1	33.1	31.8	35.9	34.7	29.6	27.1	31.1	39.1
35.7	32.6	41.3	41.6	34.6	36.4	39.3	35.9	39.1	42.1
37.2	36.2	42.1	37.9	41.1	37.7	43.9	39.9	37.1	36.2
36.6	39.7	35.8	37.7	38.8	40.8	45.4	45.4	45.4	45.0
45.0	43.0	40.4	39.7	40.4	41.3	42.1	43.3	44.2	45.8
47.1	49.3	52.2	49.3	50.6	54.1	60.2	53.1	49.9	56.6
51.4									

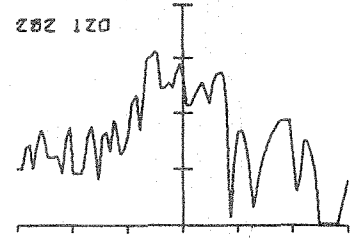
59 120



COD AT 120 KHZ

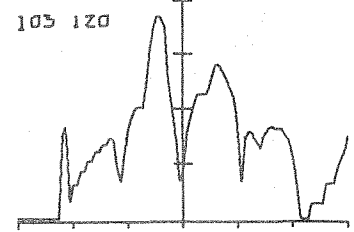
COD 40.4 CM 120 KHZ FISH NO 282

50.0	50.0	45.8	45.3	50.0	45.8	42.6	44.4	48.0	48.0
47.4	48.6	50.9	44.4	42.2	50.9	50.9	50.9	48.6	43.6
41.9	46.3	51.8	43.6	42.9	46.8	40.8	43.6	47.4	45.8
43.3	37.6	36.2	42.9	36.7	29.6	29.2	28.4	29.5	35.5
34.8	34.0	35.3	32.7	30.6	33.5	38.6	38.0	36.4	35.2
34.1	36.1	38.2	34.0	32.5	32.1	33.6	39.8	58.8	48.0
42.9	42.6	45.3	49.3	56.9	54.0	50.0	47.4	45.3	43.6
42.2	41.0	40.8	41.0	41.3	47.4	54.0	50.9	44.4	45.3
47.4	50.9	70.9	70.9	70.9	70.9	70.9	61.3	56.9	54.0
51.8									



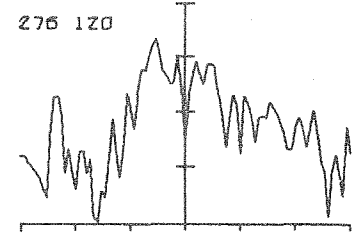
COD 43.6 CM 120 KHZ FISH NO 103

62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
62.8	62.8	44.7	42.8	56.8	53.2	53.2	50.7	50.7	48.8
48.8	47.2	47.2	45.9	45.9	44.7	45.9	50.7	53.2	47.2
43.7	41.2	39.3	39.3	39.3	35.2	28.5	24.7	22.7	23.5
25.2	34.5	39.3	43.7	53.2	50.7	44.7	41.2	38.7	36.8
36.8	37.2	35.9	33.5	31.4	32.4	33.5	34.8	36.3	38.2
42.8	53.2	44.7	43.7	44.7	45.9	47.2	44.7	43.7	42.8
43.7	43.7	43.7	44.7	45.9	48.8	53.2	62.8	62.8	62.8
56.8	56.8	56.8	56.8	53.2	53.2	53.2	50.7	48.8	47.2
44.7									



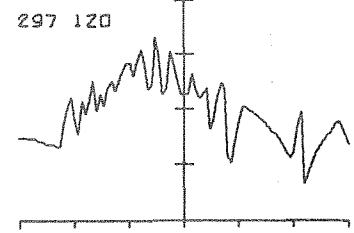
COD 44.5 CM 120 KHZ FISH NO 276

47.6	48.2	49.5	50.3	51.1	52.0	54.2	55.5	42.8	36.8
36.8	40.5	51.1	46.5	51.1	54.2	47.0	47.0	51.1	48.2
59.1	71.1	54.2	55.5	49.5	41.0	47.0	52.0	47.0	36.3
39.5	43.2	35.4	31.9	32.5	29.7	27.6	26.4	29.3	32.6
33.7	35.0	34.0	29.9	35.5	45.1	37.1	33.2	30.6	33.3
35.0	31.1	31.0	32.0	36.3	41.0	46.5	41.0	36.6	38.9
47.6	37.0	38.6	41.0	45.5	40.7	40.5	41.3	38.0	39.3
40.5	42.2	44.3	47.0	46.5	42.5	40.7	43.2	46.5	42.8
39.5	44.3	49.5	51.1	59.1	50.3	47.6	51.1	55.5	42.5
47.6									



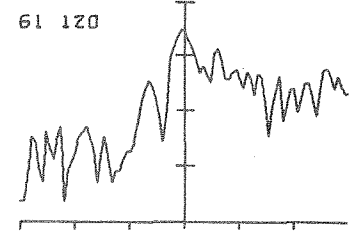
COD 49.0 CM 120 KHZ FISH NO 297

44.9	44.9	45.4	45.4	45.4	45.9	45.9	46.4	46.4	46.4
47.0	46.4	42.5	39.6	37.6	41.9	44.5	38.3	40.7	38.3
34.7	40.4	37.1	39.4	35.9	34.7	36.7	34.5	32.9	31.4
31.6	34.1	30.7	29.1	32.0	36.4	35.1	26.7	30.5	37.4
36.0	29.4	31.6	34.4	37.4	37.1	37.1	33.4	36.5	38.0
37.1	36.0	43.7	41.6	37.6	34.9	36.7	48.9	49.7	44.9
41.9	39.4	39.9	40.4	40.7	41.3	41.9	42.5	43.3	44.1
44.5	45.4	46.4	47.6	48.9	47.6	42.9	40.1	53.6	51.4
49.7	47.6	46.4	45.4	44.5	43.7	42.5	41.9	43.3	44.9
46.4									



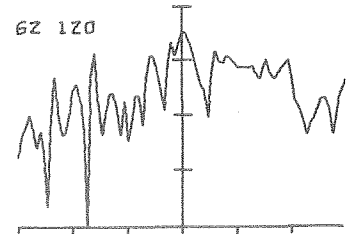
COD 50.0 CM 120 KHZ FISH NO 61

56.6	56.6	50.6	44.6	45.7	50.6	53.1	43.5	47.1	48.7
44.6	42.6	56.6	50.6	48.7	47.1	44.6	43.5	42.6	44.6
47.1	53.1	47.1	44.6	48.7	53.1	50.6	50.6	48.7	47.1
47.1	45.7	41.8	38.0	35.8	34.3	35.8	38.0	41.0	45.7
39.7	30.0	28.1	26.5	24.9	26.0	27.4	28.8	30.8	33.1
31.7	33.7	35.0	29.4	28.5	31.0	34.3	34.3	32.8	32.3
34.3	35.8	32.8	34.3	37.1	33.1	34.0	38.5	44.6	39.1
35.8	33.4	41.8	39.1	35.8	35.8	40.4	37.1	34.7	34.7
37.5	41.0	36.2	32.3	32.3	34.0	36.2	33.7	35.8	37.1
36.6									



COD 50.0 CM 120 KHZ FISH NO 62

47.1	43.6	41.8	39.7	42.7	45.8	42.7	47.1	56.6	40.4
32.8	40.4	43.6	42.7	39.1	35.1	34.0	37.1	42.7	62.7
32.6	28.3	38.6	43.6	39.1	35.8	35.8	39.1	43.6	37.1
44.6	41.1	36.2	36.6	41.8	33.1	28.7	29.6	31.8	34.7
39.1	30.6	26.4	29.2	26.5	24.6	25.4	27.1	29.2	31.8
34.4	35.8	40.4	32.3	28.0	30.4	30.6	29.0	29.6	30.4
31.3	31.3	31.1	31.1	30.8	32.3	33.4	31.3	29.6	32.3
33.4	32.3	31.3	30.4	29.8	33.1	37.6	39.1	41.1	43.6
41.1	39.7	38.1	36.6	36.6	39.1	43.6	39.7	36.2	34.4
32.8									

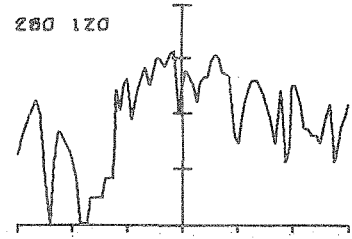


COD AT 120 KHZ

COD 50.0 CM 120 KHZ FISH NO 280

47.0	44.1	41.9	40.1	38.7	37.4	40.1	48.9	54.9	61.0
47.0	42.9	44.1	45.4	47.0	48.9	51.4	61.0	61.0	61.0
54.9	54.9	54.9	54.9	51.4	51.4	51.4	35.4	39.4	34.5
33.4	41.0	37.4	34.9	33.0	31.4	34.9	32.7	29.8	30.3
31.7	30.1	28.7	28.3	40.1	34.9	32.0	33.7	34.9	38.0
34.1	33.0	33.0	30.3	29.1	30.3	32.7	33.0	33.4	44.1
45.4	41.0	37.4	35.4	33.7	33.7	34.9	36.4	38.7	41.0
45.4	40.1	35.4	48.9	45.4	34.5	34.9	38.0	42.9	42.9
44.1	44.1	45.4	42.9	40.1	38.0	48.9	45.4	41.9	40.1
38.0									

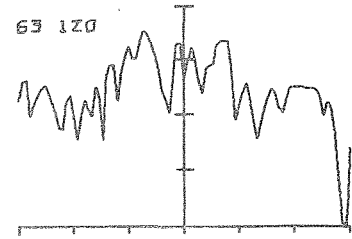
280 120



COD 55.0 CM 120 KHZ FISH NO 63

37.1	33.7	33.4	40.4	38.1	36.6	35.1	34.4	35.8	37.6
39.7	42.7	42.7	37.6	36.2	40.4	44.6	39.7	37.1	39.1
40.4	34.7	37.1	44.6	32.6	30.6	31.1	37.6	32.3	29.2
27.4	30.0	29.2	24.5	24.6	25.6	27.2	27.2	32.0	35.8
37.6	39.7	33.4	26.7	27.4	33.1	30.0	27.5	30.2	34.0
36.2	31.1	30.0	30.4	27.0	26.3	26.4	26.8	31.1	41.1
38.1	35.8	34.0	37.1	41.1	44.6	41.1	38.6	36.6	35.1
36.6	39.1	39.7	37.1	34.7	34.7	35.1	35.1	35.4	35.4
35.4	35.8	37.1	40.4	37.6	39.1	43.6	53.1	62.7	62.7
45.8									

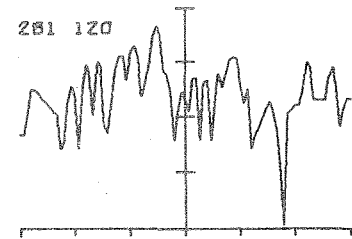
63 120



COD 58.0 CM 120 KHZ FISH NO 281

42.9	42.9	39.0	34.7	35.2	35.7	36.9	37.5	38.2	39.0
39.8	45.8	44.3	37.5	34.2	36.3	45.8	35.2	30.3	32.6
39.8	29.7	31.2	41.8	42.9	37.5	30.6	28.7	29.7	33.4
27.8	26.8	29.2	36.3	34.2	30.6	24.9	23.3	25.5	31.9
32.6	35.2	44.3	39.0	35.2	36.9	39.0	32.6	33.0	44.3
33.4	33.0	44.3	37.5	31.9	34.7	31.9	29.2	28.9	29.7
34.2	37.5	34.7	45.8	42.9	41.8	39.8	38.2	36.9	39.0
42.9	50.3	59.8	39.0	38.2	37.5	37.5	34.7	29.7	31.2
36.9	36.9	36.9	36.9	32.6	30.6	34.7	41.8	38.2	36.3
36.9									

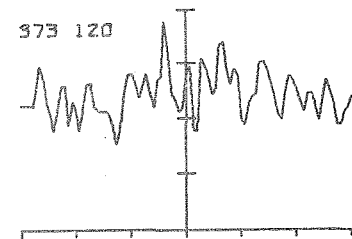
281 120



COD 60.5 CM 120 KHZ FISH NO 373

37.3	37.3	37.3	38.0	34.7	30.2	33.0	37.3	39.4	42.2
37.3	33.8	33.8	41.2	36.7	38.7	42.2	36.7	33.4	33.4
38.0	38.7	38.7	38.7	39.4	41.2	44.7	42.2	35.7	31.6
31.6	33.4	36.2	33.8	31.6	35.2	38.0	32.7	32.0	22.1
28.4	35.7	36.7	38.7	37.3	31.6	30.2	42.2	42.2	28.9
30.2	32.7	35.7	34.2	26.3	25.8	31.3	33.8	30.7	32.3
40.3	41.2	36.7	35.7	35.2	29.6	29.4	31.0	33.0	35.7
39.4	40.3	35.2	32.0	33.0	34.7	36.7	38.7	35.2	35.2
37.3	40.3	36.2	32.7	34.7	37.3	41.2	41.2	38.7	37.3
35.7									

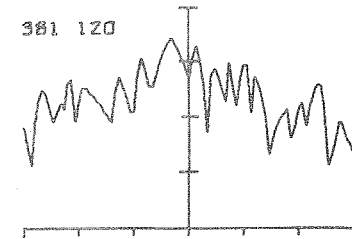
373 120



COD 61.0 CM 120 KHZ FISH NO 381

41.8	45.4	48.9	40.9	36.8	34.9	36.3	38.6	40.9	39.3
37.4	38.6	33.7	33.0	40.9	37.4	34.5	34.9	35.8	36.3
37.4	38.0	39.3	40.1	40.9	34.9	32.6	34.5	36.3	39.3
38.6	32.3	29.1	31.4	34.5	34.5	32.0	29.8	28.0	26.8
25.5	26.6	27.9	29.3	31.1	33.0	29.3	26.9	29.8	34.1
42.9	32.0	31.1	32.6	34.9	37.4	30.0	34.5	38.0	33.0
30.5	30.8	39.3	32.6	34.1	36.3	40.1	46.9	44.0	41.8
40.1	39.3	38.6	44.0	41.8	38.6	37.4	41.8	38.0	35.8
34.1	34.5	38.6	48.9	46.9	44.0	40.9	41.8	44.0	45.4
46.9									

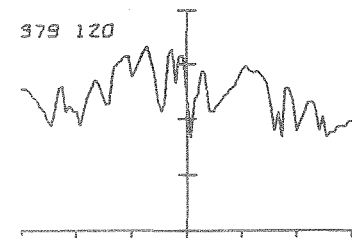
381 120



COD 64.5 CM 120 KHZ FISH NO 379

34.2	34.6	35.1	36.1	36.7	37.9	38.6	40.2	41.1	38.6
34.2	33.8	38.6	37.3	38.6	38.6	41.1	37.9	35.6	34.2
32.6	33.8	35.6	37.3	36.7	30.4	29.6	29.1	28.4	28.2
32.3	30.7	29.1	27.6	26.6	28.9	31.9	36.7	38.6	36.7
27.8	27.0	33.4	28.2	28.4	36.1	43.3	36.1	35.1	31.0
31.9	38.6	38.6	37.3	36.7	35.6	35.1	34.2	33.8	32.3
31.0	30.1	31.3	31.6	31.0	31.9	32.6	33.8	37.3	42.2
38.6	43.3	34.2	34.6	36.7	42.2	40.2	38.6	36.7	36.7
37.9	42.2	39.4	43.3	42.2	42.2	41.1	41.1	41.1	40.2
40.2									

379 120

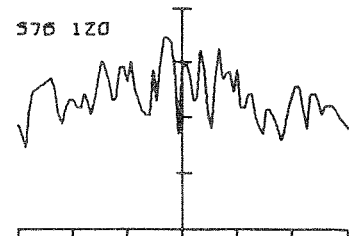




COD AT 120 KHZ

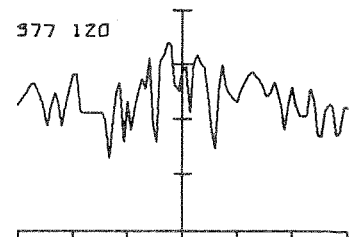
COD 65.6 CM 120 KHZ FISH NO 376

41.1	43.0	45.5	38.2	35.1	34.6	33.9	33.5	33.1	32.5
35.1	39.5	41.1	38.2	36.5	37.0	38.2	38.2	35.5	37.0
39.5	36.5	32.5	29.5	31.0	33.5	37.0	36.0	30.5	30.7
33.5	29.5	35.1	37.0	38.8	39.5	39.5	31.0	37.0	30.0
25.1	25.7	26.3	31.0	43.0	30.7	29.7	32.5	37.0	36.0
27.5	31.5	39.5	42.0	32.8	27.1	33.1	31.8	31.3	35.5
31.0	38.2	38.2	35.5	35.5	39.5	42.0	43.0	38.2	38.8
40.3	42.0	44.2	42.0	38.2	36.0	33.9	35.1	38.8	42.0
35.5	35.5	37.0	39.5	37.6	37.6	38.2	38.8	40.3	41.1
42.0									



COD 67.0 CM 120 KHZ FISH NO 377

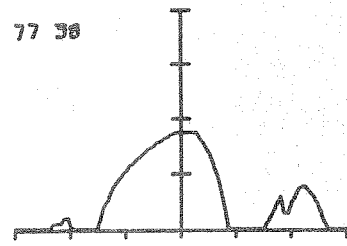
37.0	36.0	35.0	33.8	33.1	34.2	36.0	38.1	41.1	37.5
35.0	37.0	41.1	37.5	34.2	31.5	31.5	38.8	38.8	38.8
38.8	38.8	38.8	38.8	40.2	47.1	40.2	35.0	33.1	44.2
36.5	42.0	37.5	34.6	32.4	34.6	28.6	41.1	44.2	29.0
27.8	25.8	26.7	33.8	35.0	30.7	30.2	38.8	29.7	28.0
29.7	30.7	35.5	42.0	45.5	33.5	29.9	34.2	35.5	36.5
37.0	34.6	33.1	31.8	31.2	32.1	33.1	34.2	36.0	35.0
33.1	35.0	37.5	42.0	37.0	33.8	37.5	39.5	39.5	38.8
34.2	37.0	43.0	43.0	38.1	37.0	38.1	43.0	42.0	37.5
38.1									



DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF SAITHE AT 38 KHZ

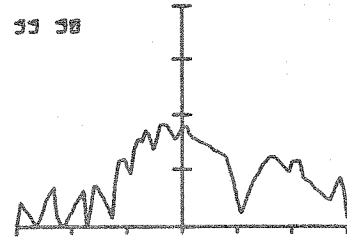
SAITHE 9.1 CM 38 KHZ FISH NO 77

77.9	77.9	77.9	77.9	77.9	77.9	63.9	61.0	59.8	59.8
58.8	58.8	58.8	57.9	57.9	59.8	62.3	65.9	71.9	77.9
68.4	63.9	59.8	57.9	55.6	54.4	52.8	51.5	50.7	49.6
49.0	48.1	47.5	46.8	46.3	45.7	45.0	44.7	44.1	43.8
43.3	42.9	42.5	42.2	42.2	42.2	42.2	42.2	42.2	42.6
43.6	44.7	45.7	47.0	48.7	50.7	53.3	56.3	62.3	77.9
77.9	77.9	77.9	77.9	71.9	65.9	63.9	61.0	58.8	57.9
56.3	55.0	53.8	57.1	57.1	55.0	53.8	52.3	51.9	52.8
53.3	54.4	55.6	57.1	58.8	61.0	62.3	65.9	71.9	77.9
77.9									



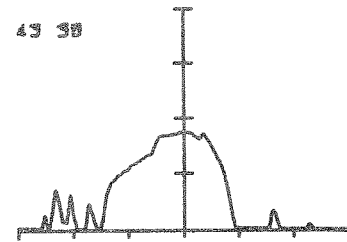
SAITHE 10.0 CM 38 KHZ FISH NO 33

78.0	55.7	57.2	58.0	58.9	61.1	58.9	57.2	55.1	53.9
52.9	58.9	62.4	59.9	58.0	57.2	55.7	54.5	53.4	68.4
57.2	52.4	53.4	54.5	55.7	57.2	58.9	51.5	47.9	47.9
49.4	50.8	45.7	44.0	44.9	42.6	44.0	46.2	44.4	41.7
41.6	42.4	43.3	44.4	43.2	41.9	41.9	43.7	44.4	44.7
45.1	45.5	45.7	46.2	46.6	47.1	47.4	47.9	49.7	52.4
55.7	58.0	55.7	53.9	52.4	51.1	50.0	48.7	47.9	47.4
47.9	48.4	49.0	49.7	50.4	48.2	48.2	48.4	51.5	52.0
52.4	53.4	53.9	54.5	55.1	55.7	53.9	52.4	51.1	53.9
58.9									



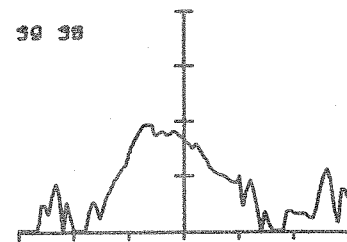
SAITHE 10.2 CM 38 KHZ FISH NO 43

78.8	78.8	78.8	78.8	73.6	66.7	60.7	57.2	60.7	57.9
52.7	55.2	58.8	58.8	53.6	57.9	66.7	72.7	61.8	55.2
57.2	59.7	64.8	57.9	53.6	51.5	50.8	53.1	49.5	49.2
48.6	48.1	47.6	47.2	46.7	46.3	45.9	44.6	43.2	42.9
42.8	42.6	42.5	42.4	42.2	42.1	42.5	42.9	43.3	43.8
42.6	43.5	44.6	45.7	46.9	48.4	50.1	52.7	56.5	64.8
78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	64.8	56.5
57.9	66.7	72.7	69.2	66.7	64.8	61.8	60.7	59.7	58.8
60.7	63.2	66.7	69.2	78.8	78.8	78.8	78.8	78.8	78.8
78.8									



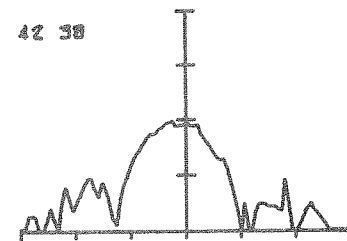
SAITHE 11.0 CM 38 KHZ FISH NO 39

78.6	61.7	63.0	64.6	66.5	69.0	55.0	55.4	57.0	53.5
51.3	53.5	60.5	54.5	57.7	64.6	72.5	63.0	59.5	56.3
54.5	55.6	57.7	55.6	53.5	52.1	50.8	47.6	48.5	47.7
45.5	43.9	42.4	41.3	40.5	40.6	40.8	42.7	41.9	41.8
42.7	42.2	41.7	42.3	42.9	43.4	44.2	44.9	44.1	44.9
46.1	47.2	48.5	49.3	49.6	49.9	50.3	50.6	51.0	51.3
49.9	55.6	52.1	50.6	52.5	55.6	60.5	56.3	58.6	61.7
66.5	66.5	60.5	56.3	56.3	57.0	57.0	57.0	57.0	57.7
57.7	55.6	52.5	49.9	48.5	51.3	56.3	58.6	52.1	53.0
54.5									



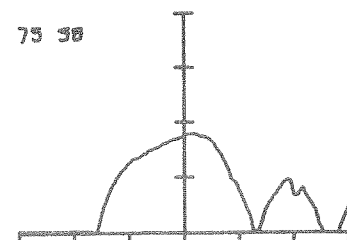
SAITHE 11.0 CM 38 KHZ FISH NO 42

78.1	61.2	57.2	57.2	56.1	61.2	72.0	58.1	55.8	58.1
60.0	55.1	52.0	54.0	56.5	55.1	53.5	51.6	50.5	50.8
52.5	54.0	51.2	52.5	54.5	58.1	59.0	54.5	51.6	49.8
48.0	46.5	45.4	44.3	43.3	42.4	42.5	41.8	41.3	40.7
40.2	40.0	41.2	40.9	40.7	40.3	41.2	40.9	40.8	42.6
43.7	44.6	45.6	46.7	47.4	46.9	48.5	50.5	53.0	56.5
62.5	55.1	60.0	61.2	56.5	55.1	55.1	55.8	55.8	55.8
56.5	56.5	50.8	54.5	62.5	61.2	59.0	57.2	55.8	55.1
56.5	57.2	58.1	59.0	60.0	62.5	64.1	66.0	68.5	72.0
78.1									



SAITHE 11.7 CM 38 KHZ FISH NO 75

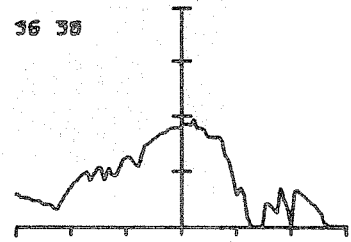
78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	72.0
64.1	60.0	57.2	55.1	53.4	51.6	50.5	49.4	48.5	47.7
46.9	46.5	46.2	45.8	45.4	45.0	44.6	44.3	44.1	43.7
43.4	43.1	42.8	42.6	42.4	42.1	41.8	41.9	42.2	42.5
42.6	42.9	43.3	43.9	45.0	46.0	47.2	48.5	50.5	51.2
52.5	54.0	55.8	57.2	60.0	60.0	58.1	55.8	54.5	53.4
52.5	51.6	50.8	50.1	50.8	53.4	53.0	51.6	53.0	54.0
55.1	56.5	59.0	61.2	64.1	64.1	61.2	60.0	58.1	56.5
55.1									



SAITHE AT 38 KHZ

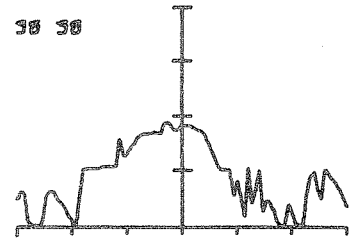
SAITHE 11.8 CM 38 KHZ FISH NO 36

54.3	54.8	54.8	54.8	55.4	55.4	55.4	56.1	56.1	56.1
56.8	56.8	55.4	54.3	53.2	52.3	51.5	50.7	50.1	49.7
51.5	50.1	49.1	49.4	51.5	49.1	50.7	50.7	49.1	47.5
47.0	47.7	48.5	49.1	46.3	44.9	44.4	43.9	43.4	42.9
42.6	42.2	41.8	41.7	42.2	41.1	41.1	41.6	40.4	42.0
42.1	42.6	43.7	43.7	43.7	43.7	44.7	47.5	48.2	51.1
54.3	52.8	54.3	58.4	64.4	78.4	78.4	61.5	55.4	56.1
56.8	57.5	52.8	54.8	56.8	60.3	53.2	53.7	54.3	54.8
55.4	56.1	56.8	57.5	59.3	62.8	68.8	78.4	78.4	78.4



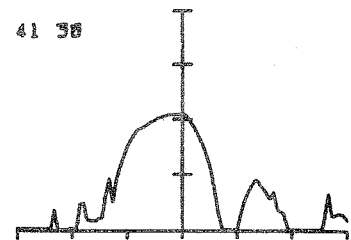
SAITHE 12.0 CM 38 KHZ FISH NO 38

55.2	53.4	54.6	59.5	71.5	77.5	65.5	58.4	54.0	53.4
54.0	55.2	55.9	56.7	58.4	59.5	60.6	54.0	49.2	49.2
49.2	49.2	49.2	48.9	48.9	48.9	48.9	48.9	43.9	47.4
46.6	45.5	44.5	43.4	43.0	43.0	42.9	42.7	43.0	43.4
41.0	41.0	42.1	42.6	42.0	41.4	41.7	42.0	42.3	42.6
42.9	43.7	44.9	46.4	48.0	49.9	49.9	49.6	50.3	54.6
51.5	54.6	58.4	49.2	55.9	53.4	49.6	57.5	55.2	55.9
57.5	59.5	62.0	65.5	55.9	57.5	59.5	63.5	60.6	54.0
50.7	49.9	53.4	55.2	49.6	50.7	51.5	52.4	53.4	55.2



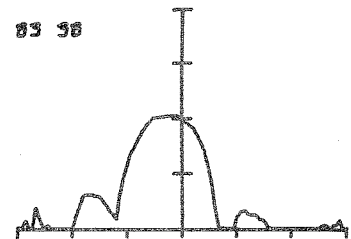
SAITHE 12.2 CM 38 KHZ FISH NO 41

78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	66.4
56.2	62.9	78.4	78.4	59.4	78.4	62.9	54.9	54.9	58.4
58.4	58.4	57.6	57.6	53.8	50.5	54.9	50.8	48.3	46.2
44.6	43.3	42.0	41.5	41.1	40.7	40.3	39.9	39.5	39.3
39.0	38.7	38.8	38.8	38.8	38.9	39.5	40.5	41.4	42.6
43.8	45.4	47.3	49.5	52.9	57.6	72.4	78.4	72.4	64.5
59.4	56.9	54.4	52.9	51.6	50.8	51.6	52.4	53.3	54.4
52.9	56.2	56.9	57.6	70.4	68.9	62.9	78.4	78.4	78.4
64.5	61.5	62.9	66.4	57.6	53.3	57.6	56.9	56.9	57.6



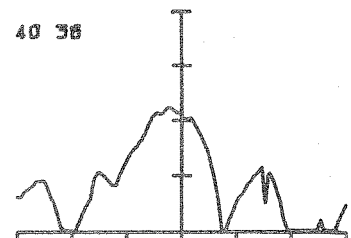
SAITHE 13.1 CM 38 KHZ FISH NO 83

78.3	64.3	58.3	60.2	60.2	56.0	58.3	62.7	59.2	64.3
78.3	78.3	78.3	78.3	60.2	61.4	57.5	55.4	53.7	53.7
53.7	54.2	54.2	54.8	55.4	56.7	57.5	58.3	53.7	50.3
48.2	46.2	44.8	43.5	42.3	41.4	40.4	39.7	39.5	39.5
39.4	39.3	39.3	39.3	39.7	40.2	40.8	41.3	41.9	42.9
44.3	46.0	48.5	51.4	56.0	66.2	78.3	72.3	64.3	60.2
57.5	56.7	56.7	57.5	57.5	57.5	58.3	58.3	59.2	61.4
64.3	66.2	72.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
72.3	66.2	61.4	59.2	59.2	60.2	59.2	59.2	58.3	60.2



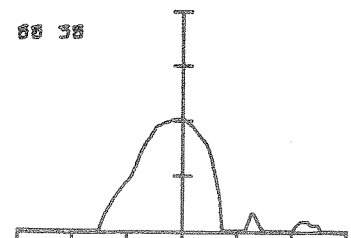
SAITHE 13.2 CM 38 KHZ FISH NO 40

54.0	53.5	52.6	52.2	51.8	51.0	50.7	50.7	51.8	53.5
55.1	57.0	59.5	63.1	64.6	61.7	59.5	57.8	56.3	55.1
54.0	50.3	49.1	49.7	50.3	51.0	51.8	51.8	49.7	48.2
47.0	45.7	44.8	44.0	43.2	42.0	40.3	39.0	38.3	39.0
38.2	37.4	37.7	38.2	38.7	39.2	39.7	39.2	40.2	41.3
42.5	44.0	45.5	47.7	50.3	54.5	61.7	60.6	57.8	56.3
54.5	53.5	52.6	51.4	50.7	49.7	49.1	48.2	55.1	49.4
50.7	52.6	54.5	57.8	63.1	72.6	78.6	78.6	78.6	69.1
64.6	61.7	59.5	57.8	72.6	66.6	63.1	60.6	57.8	56.3



SAITHE 13.2 CM 38 KHZ FISH NO 88

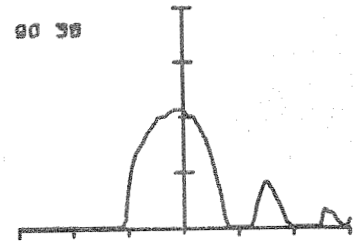
78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	72.1
66.0	62.5	60.0	58.1	56.5	55.2	54.0	53.0	52.1	51.2
50.5	49.8	48.0	46.3	44.8	43.6	42.5	41.4	40.6	40.2
39.9	39.7	39.4	39.4	39.5	39.6	40.1	40.7	41.4	42.2
43.1	43.9	45.0	47.0	49.8	53.5	61.2	78.1	78.1	72.1
66.0	62.5	60.0	58.1	56.5	57.3	59.0	60.0	62.5	64.1
68.5	72.1	78.1	78.1	78.1	64.1	59.0	58.1	58.1	58.1
59.0	59.0	59.0	60.0	64.1	68.5	78.1	78.1	78.1	78.1



SAITHE AT 38 KHZ

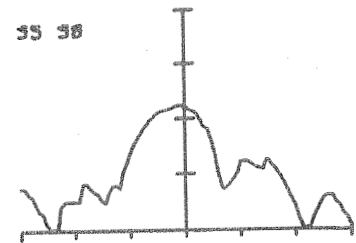
SAITHE 13.3 CM 38 KHZ FISH NO 90

78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	58.3
52.3	48.5	46.1	45.1	44.0	42.7	41.7	40.7	39.8	39.6	
39.4	38.9	38.4	38.4	36.5	38.9	39.7	39.6	40.5	41.7	
42.9	44.3	46.3	48.5	51.5	54.2	58.3	68.8	78.3	78.3	
78.3	78.3	68.8	62.7	56.3	55.4	53.2	51.5	52.3	53.2	
54.8	56.0	57.5	59.2	62.7	66.3	72.3	78.3	78.3	78.3	
78.3	78.3	61.4	56.7	57.5	57.5	58.3	59.2	62.7	61.4	
58.3										



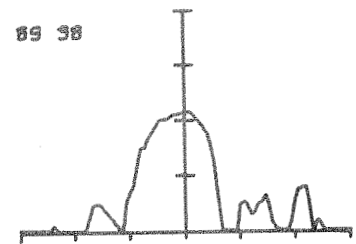
SAITHE 14.0 CM 38 KHZ FISH NO 35

52.8	52.8	53.8	54.3	55.4	56.8	57.5	59.3	60.3	62.8	
60.3	55.4	54.8	54.8	54.8	54.8	54.6	51.5	51.9	52.8	
53.3	53.8	54.8	55.4	53.3	51.9	51.9	52.8	49.7	47.7	
45.9	44.4	43.2	42.1	41.2	40.3	39.5	38.8	38.4	38.2	
38.0	37.8	37.5	37.3	37.6	38.0	38.4	38.7	39.2	40.4	
41.6	42.0	44.0	46.5	50.1	52.8	52.3	51.5	50.8	49.7	
47.5	47.7	48.0	48.5	48.8	49.1	49.4	47.2	48.0	48.8	
49.7	50.8	51.9	53.3	54.8	56.1	58.4	61.5	61.5	59.3	
57.5	56.1	54.8	53.8	53.8	54.3	55.4	56.1	57.5	58.4	
78.4										



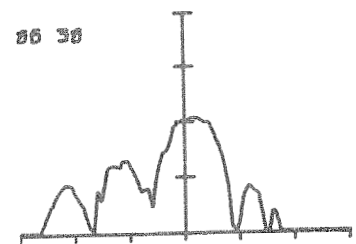
SAITHE 14.0 CM 38 KHZ FISH NO 89

77.9	77.9	77.9	77.9	77.9	68.4	65.9	62.4	59.9	58.8	
59.9	65.9	77.9	77.9	77.9	77.9	68.4	62.4	58.8	57.1	
55.0	55.0	55.6	56.3	57.1	57.9	58.8	59.9	62.4	54.4	
52.8	51.5	47.6	44.7	44.7	43.1	41.8	40.7	39.6	39.6	
39.5	39.0	38.6	38.6	38.4	38.1	38.4	39.0	39.8	40.5	
41.4	42.4	44.5	47.8	53.3	71.9	77.9	77.9	68.4	59.9	
55.0	54.4	55.6	57.1	56.3	55.0	54.4	53.3	55.6	58.8	
63.9	77.9	77.9	63.9	57.9	54.4	52.3	51.9	51.9	55.0	
61.0	57.9	58.8	68.4	77.9	77.9	77.9	77.9	77.9	77.9	
77.9										



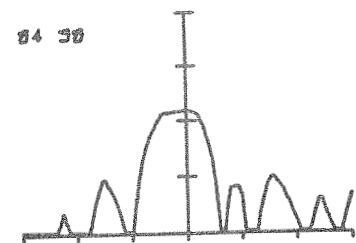
SAITHE 14.2 CM 38 KHZ FISH NO 86

78.3	78.3	78.3	66.2	62.7	60.2	58.3	56.7	55.3	54.2	
52.7	51.8	51.0	51.0	51.8	53.2	54.2	55.3	57.4	59.2	
60.2	52.2	54.2	51.0	47.9	47.6	47.9	48.2	46.7	46.7	
47.9	49.0	50.7	52.7	51.8	52.2	55.3	50.3	47.4	45.2	
44.6	43.0	40.5	39.9	39.4	39.7	39.1	36.9	39.2	39.8	
40.1	39.8	41.0	42.4	43.9	46.0	48.7	52.7	59.2	66.2	
57.4	53.2	51.4	52.2	52.7	53.2	56.7	61.4	61.4	56.0	
57.4	60.2	66.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	
78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	
78.3										



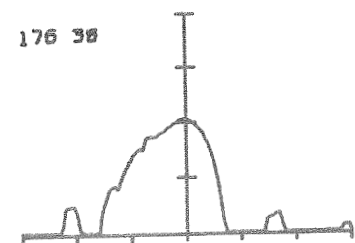
SAITHE 15.2 CM 38 KHZ FISH NO 84

78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	66.3	61.4	
58.3	56.1	58.3	61.4	60.3	78.3	78.3	78.3	64.4	57.5	
54.3	51.9	50.0	51.1	52.3	53.7	55.4	57.5	60.3	64.4	
68.8	54.8	49.4	46.3	44.0	42.2	40.7	39.5	38.3	38.1	
38.0	37.9	37.6	37.7	37.6	37.9	38.2	38.5	39.0	40.4	
42.2	44.5	47.5	52.3	64.4	60.3	54.8	51.5	51.5	51.9	
53.7	60.3	60.3	61.4	61.4	56.1	53.2	50.7	49.7	50.4	
51.5	52.3	53.7	54.8	56.8	58.3	61.4	64.4	62.8	58.3	
56.1	53.7	54.8	56.8	58.3	61.4	66.3	61.4	57.5	54.8	
52.8										



SAITHE 15.3 CM 38 KHZ FISH NO 176

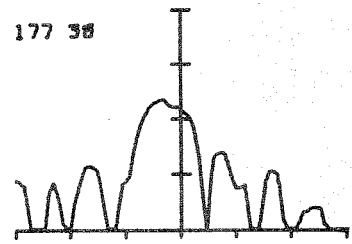
66.5	59.5	60.5	64.6	69.0	78.6	78.6	78.6	78.6	78.6	
63.0	58.6	55.0	55.0	55.0	56.3	59.5	64.6	78.6	78.6	
64.6	59.5	55.6	53.5	51.7	51.3	52.1	50.3	48.7	47.2	
46.1	45.1	44.6	44.9	42.7	42.3	42.7	42.0	41.5	41.1	
40.5	40.1	39.6	39.2	39.3	39.4	39.8	40.3	41.0	41.5	
42.9	44.4	46.3	48.7	52.1	57.7	72.5	78.6	78.6	78.6	
78.6	78.6	78.6	78.6	78.6	64.6	59.5	57.0	57.0	56.3	
56.3	58.6	72.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	
78.6	78.6	78.6	78.6	76.6	78.6	72.5	59.5	56.6	58.6	
78.6										



SAITHE AT 38 KHZ

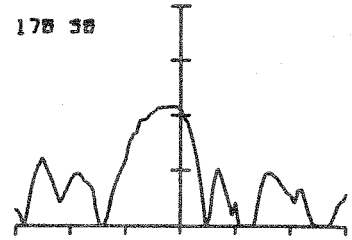
SAITHE 16.0 CM 38 KHZ FISH NO 177

51.4	51.8	52.3	56.0	66.2	78.3	78.3	78.3	59.2	53.2
51.4	53.2	55.4	59.2	68.7	59.2	55.4	52.3	50.3	48.4
48.4	49.0	49.3	51.4	55.4	62.7	78.3	68.7	56.0	51.4
51.0	50.0	45.8	43.0	40.9	39.2	37.8	37.1	36.7	36.3
36.2	37.1	37.6	37.8	37.9	38.3	38.9	39.6	40.7	43.5
47.4	55.4	61.4	51.0	46.5	46.0	45.8	46.7	48.7	51.4
52.7	52.3	51.8	55.4	61.4	78.3	66.2	56.0	51.0	49.3
49.6	50.0	53.2	58.3	72.3	78.3	66.2	58.3	56.7	56.7
56.0	56.0	56.0	56.7	59.2	61.4	64.3	66.7	78.3	78.3
78.3									



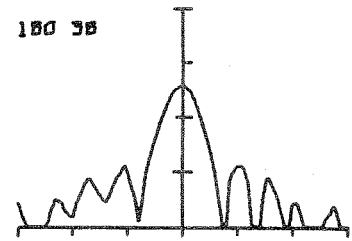
SAITHE 16.5 CM 38 KHZ FISH NO 178

57.3	58.1	60.0	57.3	53.5	50.9	48.9	47.7	48.9	50.5
52.1	54.0	55.8	54.6	53.0	51.7	50.5	50.5	51.3	52.1
52.5	53.5	57.3	72.1	64.1	58.1	55.2	52.5	50.9	49.2
48.0	44.8	43.3	42.8	40.8	40.7	40.0	39.4	38.8	38.4
38.3	38.2	38.1	38.3	38.6	39.0	40.4	41.6	43.8	46.3
49.8	55.2	78.1	58.1	52.5	49.5	50.9	53.0	55.2	58.1
55.8	60.0	78.1	78.1	68.6	60.0	55.8	52.5	50.5	50.1
50.9	51.3	52.1	53.0	54.0	54.6	55.8	53.0	53.5	55.8
58.1	61.2	68.6	68.6	64.1	61.2	59.0	57.3	55.8	55.2
54.0									



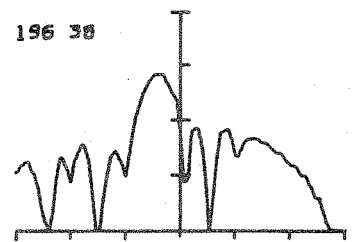
SAITHE 16.5 CM 38 KHZ FISH NO 180

56.0	58.1	60.9	66.9	74.0	72.9	65.0	62.1	59.0	56.7
54.9	55.4	56.0	57.4	58.1	58.1	55.4	53.9	52.1	51.0
51.7	52.9	53.9	54.9	55.4	53.9	52.1	50.7	49.7	48.6
50.3	52.5	54.9	59.0	54.9	50.0	46.9	44.6	42.7	40.4
38.5	36.8	35.5	34.6	34.0	34.2	34.7	35.3	36.7	38.3
40.3	42.8	45.0	47.4	50.3	55.4	66.9	79.0	51.0	49.4
48.6	48.6	50.0	52.1	60.9	79.0	60.9	53.9	50.7	51.7
53.4	54.9	57.4	60.9	63.4	55.4	55.4	57.4	59.9	63.4
65.0	63.4	60.9	59.9	58.1	57.4	56.0	57.4	59.9	63.4
69.4									



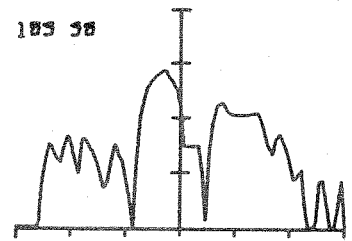
SAITHE 27.5 CM 38 KHZ FISH NO 196

49.1	48.2	47.4	47.4	49.1	50.1	52.6	56.2	58.7	68.2
56.2	50.1	46.6	47.4	49.1	51.3	47.4	45.3	44.1	45.3
47.4	54.2	60.2	68.2	54.2	49.1	45.9	45.3	46.6	48.2
50.1	45.9	41.4	38.4	36.4	34.6	33.1	31.9	31.4	31.3
31.7	32.8	34.1	35.3	36.4	42.2	51.3	50.1	41.8	41.0
41.8	45.3	51.3	68.2	54.2	45.9	41.8	41.4	41.4	43.6
46.6	45.9	44.1	43.1	43.1	43.1	43.6	44.1	44.1	44.7
45.3	45.9	45.9	46.6	47.4	48.2	48.2	49.1	50.1	50.1
51.3	52.6	54.2	54.2	56.2	58.7	62.2	62.2	66.2	68.2
68.2									



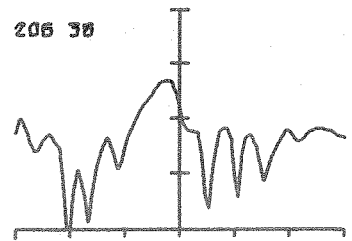
SAITHE 28.9 CM 38 KHZ FISH NO 183

68.1	68.1	68.1	68.1	68.1	68.1	58.6	51.2	47.3	44.6
45.9	47.3	48.1	45.2	43.0	44.6	47.3	50.1	43.5	44.1
45.2	46.6	48.1	50.1	52.6	51.2	47.3	44.6	46.6	48.1
51.2	54.2	62.1	47.3	39.5	36.3	33.8	32.9	32.2	31.6
31.0	31.6	32.6	33.7	34.9	38.0	45.2	45.2	45.2	45.2
45.2	50.1	58.6	45.2	40.2	37.3	37.0	37.8	38.9	39.5
39.5	39.2	39.2	39.2	38.9	38.9	39.2	40.5	42.6	45.2
46.6	43.5	42.6	44.1	45.9	48.1	51.2	50.1	49.1	56.1
68.1	68.1	58.6	51.2	51.2	56.1	68.1	68.1	56.1	51.2
68.1									



SAITHE 29.5 CM 38 KHZ FISH NO 206

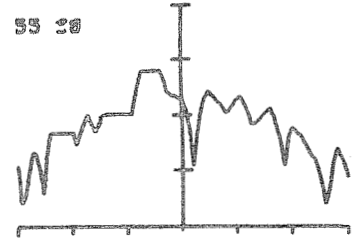
42.3	39.7	41.1	42.7	44.8	46.0	45.4	44.2	43.2	42.7
43.7	44.8	45.4	50.3	68.3	68.3	52.8	49.2	51.4	54.3
58.8	52.8	49.2	46.7	44.8	43.2	44.6	46.7	49.2	47.5
44.6	42.7	41.1	39.7	38.5	37.4	36.5	35.6	34.7	33.8
32.9	32.9	32.9	33.7	35.4	37.9	41.1	42.3	42.3	42.7
42.7	46.7	54.3	56.3	49.2	44.8	41.9	41.5	41.9	43.7
50.3	54.3	46.0	43.2	42.7	43.7	45.4	48.3	51.4	49.2
46.7	45.4	44.2	43.2	41.9	42.3	43.2	44.2	43.7	43.2
42.3	41.9	41.5	41.9	41.9	42.3	42.3	42.7	43.2	43.2
43.7									



SAITHE AT 38 KHZ

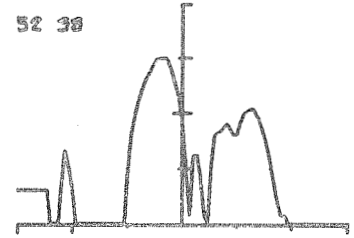
SAITHE 30.1 CM 38 KHZ FISH NO 55

49.1	56.1	54.2	50.1	46.6	47.4	50.1	54.2	46.6	43.1
43.1	43.1	43.1	43.1	43.1	43.1	45.3	43.1	41.3	39.9
41.3	43.1	41.7	39.9	39.6	39.6	39.6	39.6	39.9	39.9
39.9	39.9	36.6	33.9	31.9	31.9	31.9	31.8	31.8	31.8
33.5	35.9	36.4	36.6	37.1	37.3	38.9	42.6	49.1	43.6
39.6	36.8	35.7	36.4	37.1	37.8	38.6	39.6	38.9	37.8
36.8	36.6	38.1	39.6	41.7	41.3	40.6	39.9	39.2	38.6
40.2	42.6	45.3	49.1	43.6	42.2	43.1	43.6	44.7	45.9
47.4	48.2	50.1	52.6	56.1	52.6	48.2	45.9	47.4	49.1
51.3									



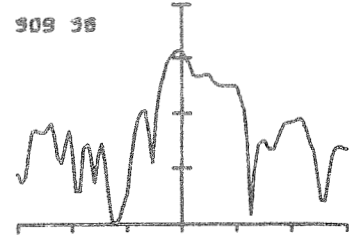
SAITHE 30.5 CM 38 KHZ FISH NO 52

54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	68.1
68.1	68.1	52.5	46.5	50.0	54.1	62.1	68.1	68.1	68.1
68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
50.0	43.5	39.8	37.2	35.2	33.6	32.2	30.9	29.9	29.6
29.6	30.5	32.2	34.3	37.0	41.2	49.0	58.5	47.3	47.3
51.2	58.5	68.1	49.0	43.5	43.0	42.5	41.6	42.5	44.0
43.5	41.2	39.5	39.1	38.8	39.8	41.2	43.0	45.2	48.1
52.5	56.0	58.5	58.5	62.1	62.1	68.1	68.1	68.1	68.1
68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
68.1									



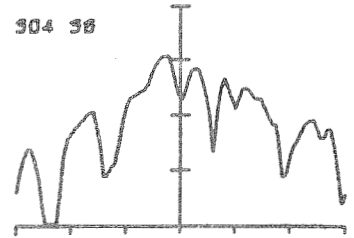
SAITHE 31.0 CM 38 KHZ FISH NO 309

51.3	52.6	51.3	46.6	43.1	43.1	43.6	43.6	42.6	41.7
44.1	48.2	49.1	45.9	43.1	46.6	54.2	54.2	45.9	45.3
47.4	52.6	47.4	45.3	49.1	56.1	68.2	62.2	58.6	56.1
54.2	48.2	43.1	40.2	39.2	39.6	44.1	49.1	39.9	35.3
32.5	30.2	29.4	28.6	28.1	28.8	30.0	31.4	33.1	33.4
32.9	32.6	32.9	33.7	34.4	35.1	35.1	35.1	34.9	34.9
35.5	37.3	39.6	45.9	58.6	50.1	45.3	44.7	45.3	46.6
46.6	44.7	43.1	41.7	41.3	41.3	41.0	40.6	41.7	43.1
45.3	47.4	51.3	56.1	56.1	51.3	47.4	45.9	45.9	46.6
46.6									



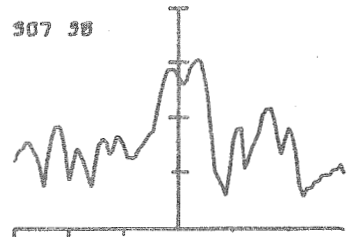
SAITHE 31.2 CM 38 KHZ FISH NO 304

54.3	50.2	47.4	46.0	46.7	48.3	51.4	56.2	62.3	68.3
68.3	68.3	54.3	47.4	44.2	43.2	42.3	41.4	40.7	40.0
39.3	39.6	42.3	45.4	51.4	50.2	49.2	48.3	45.4	41.0
38.4	36.7	36.2	35.8	35.4	35.2	34.0	32.4	31.0	29.9
29.1	29.0	29.7	32.0	35.4	37.4	36.2	33.6	31.6	31.3
31.9	34.0	36.5	40.3	46.7	39.3	35.0	33.2	35.0	37.1
38.7	36.7	34.8	35.2	36.0	36.9	37.1	37.4	38.7	40.3
41.8	41.8	45.4	51.4	50.2	47.4	45.4	44.2	42.7	41.4
40.7	40.7	42.3	44.2	44.2	42.3	43.2	46.0	50.2	56.2
54.3									



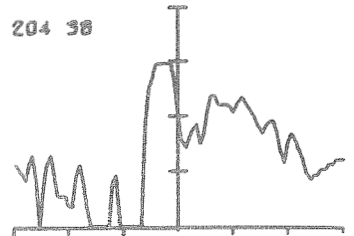
SAITHE 31.2 CM 38 KHZ FISH NO 307

47.5	46.0	45.4	44.2	44.8	46.0	47.5	49.2	52.7	47.5
43.7	41.4	41.4	42.7	46.7	51.4	48.3	45.4	46.7	48.3
50.2	52.7	44.3	44.8	43.7	44.8	46.7	45.4	43.2	44.2
45.4	47.5	47.5	46.7	45.4	44.8	43.7	42.7	42.3	39.3
35.4	32.9	31.0	31.0	31.8	32.9	34.0	33.0	30.7	29.7
29.3	30.1	32.7	36.5	43.2	50.2	51.4	52.7	54.3	49.2
43.7	41.8	41.8	49.2	47.5	45.4	43.7	42.3	39.3	38.2
38.2	40.3	43.7	46.7	43.7	41.8	43.2	46.7	52.7	54.3
52.7	52.7	51.4	51.4	50.2	50.2	50.2	49.2	49.2	48.3
50.2									



SAITHE 31.7 CM 38 KHZ FISH NO 204

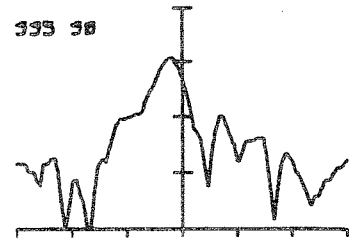
48.6	49.5	50.5	51.7	48.6	47.0	51.7	62.6	53.0	48.6
47.0	50.5	54.6	54.6	54.6	56.5	56.5	50.5	48.6	51.7
56.5	68.6	68.6	68.6	68.6	68.6	68.6	51.7	50.5	62.6
68.6	68.6	68.6	68.6	68.6	68.6	40.6	34.4	32.6	30.2
30.2	30.3	30.3	30.4	33.8	39.6	44.5	45.7	43.5	42.1
41.3	45.1	43.0	38.8	36.1	36.5	38.0	38.0	37.7	38.5
39.3	37.7	36.5	37.2	38.2	39.3	40.6	42.1	43.0	41.7
40.6	41.0	43.0	46.3	48.6	44.5	43.0	44.5	46.3	47.8
50.5	51.7	50.5	50.5	49.5	49.5	48.6	48.6	47.8	47.8
47.8									



SAITHE AT 38 KHZ

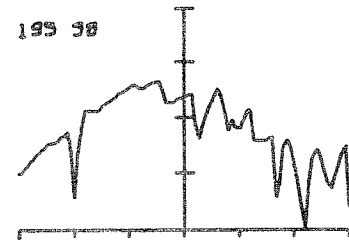
SAITHE 33.0 CM 38 KHZ FISH NO 335

48.1	48.1	49.0	50.0	50.0	51.2	52.5	48.1	48.1	47.3
47.3	50.0	56.0	68.1	56.0	51.2	51.2	54.1	56.0	62.1
62.1	52.5	48.1	47.3	48.1	45.2	43.0	40.9	40.1	40.1
39.8	39.5	39.1	39.1	38.5	36.5	35.0	33.9	32.4	30.9
29.8	29.0	29.0	30.1	31.6	33.3	35.4	38.3	42.1	43.0
44.0	49.0	52.5	45.8	42.1	39.5	40.1	41.6	43.5	45.2
48.1	46.5	44.0	44.0	44.0	43.5	43.5	44.0	47.3	52.5
58.5	52.5	48.1	46.5	47.3	48.1	50.0	51.2	52.5	54.1
56.0	54.1	54.1	52.5	51.2	51.2	50.0	49.0	49.0	48.1
47.3									



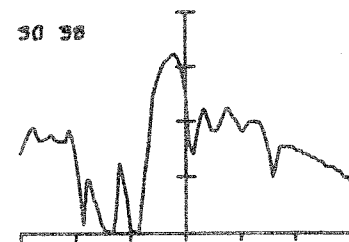
SAITHE 34.1 CM 38 KHZ FISH NO 195

50.3	49.3	48.4	47.5	46.8	46.1	45.4	44.8	44.3	44.3
43.8	43.3	42.8	42.3	46.1	54.4	46.1	41.1	38.3	38.5
38.8	38.5	38.0	37.2	36.2	36.3	35.9	35.3	34.9	34.6
34.0	33.7	34.6	34.7	34.2	33.7	33.3	33.1	33.6	34.9
37.5	37.0	36.8	36.3	36.1	35.9	35.5	35.9	41.1	43.8
41.1	38.8	37.2	35.9	34.6	36.5	38.8	42.3	40.1	41.9
41.9	40.1	38.3	39.1	44.3	44.3	43.8	43.8	43.3	43.3
54.4	51.5	44.8	43.8	45.4	48.4	51.5	56.3	62.3	51.5
46.8	45.4	46.8	49.3	51.5	52.8	50.3	40.4	46.1	44.8
56.3									



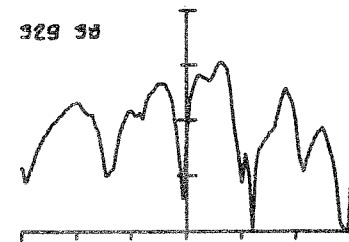
SAITHE 34.9 CM 38 KHZ FISH NO 30

45.3	43.6	41.8	40.6	41.8	43.6	43.1	42.6	42.2	43.1
43.6	43.6	42.6	41.4	43.1	46.6	51.3	58.7	50.1	51.3
54.2	56.2	58.7	62.2	68.2	68.2	56.2	47.4	50.1	54.2
68.2	68.2	68.2	54.2	48.2	44.1	35.1	32.8	30.8	29.3
28.3	27.7	27.8	28.8	33.9	35.1	44.1	45.9	42.2	39.3
37.3	39.6	41.8	41.8	45.6	39.0	37.3	38.1	39.3	40.2
41.8	41.0	39.9	39.9	40.2	40.2	41.4	43.6	45.9	50.1
46.6	44.1	44.7	44.7	44.7	45.3	45.3	45.9	45.9	46.6
46.6	47.4	47.4	48.2	48.2	48.2	49.1	49.1	50.1	50.1
51.3									



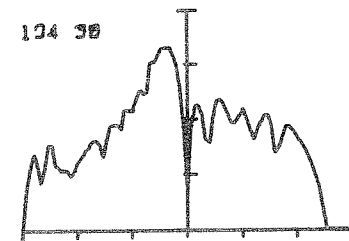
SAITHE 35.9 CM 38 KHZ FISH NO 329

48.3	51.4	49.2	47.5	45.4	44.2	42.7	41.8	40.7	40.0
39.3	38.5	37.9	37.2	36.7	36.5	37.4	38.5	39.0	38.7
40.7	42.7	46.0	50.2	49.2	48.3	44.8	41.8	40.0	38.2
38.2	39.3	38.5	39.7	36.5	35.0	34.3	33.2	33.3	33.6
34.8	36.7	41.1	46.7	54.3	42.7	36.0	33.2	31.6	32.0
32.4	32.9	31.9	30.4	29.2	29.9	30.8	34.3	41.1	46.0
51.4	46.0	50.2	62.3	47.5	44.8	43.7	42.7	41.8	41.1
38.2	35.8	34.1	35.4	36.9	40.3	46.7	49.2	46.7	44.8
43.2	41.8	41.1	42.7	44.8	47.5	51.4	58.7	68.3	68.3
50.2									



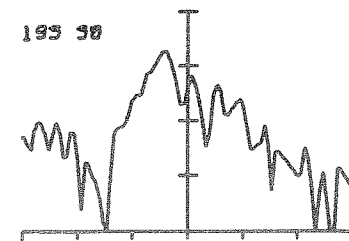
SAITHE 36.2 CM 38 KHZ FISH NO 124

68.4	52.8	48.4	46.1	48.4	51.5	48.4	44.3	44.8	48.4
49.3	49.3	49.3	50.3	49.3	47.5	46.8	45.4	44.8	43.7
43.7	44.3	46.8	43.7	41.1	40.8	41.1	41.9	38.0	38.5
38.3	36.3	34.6	35.5	34.6	29.4	29.3	28.0	26.7	26.8
27.0	28.4	30.2	34.2	42.3	52.8	41.5	37.2	37.7	39.4
43.7	44.3	39.4	36.3	36.5	37.7	39.1	40.8	40.4	39.1
38.0	39.7	41.9	43.7	41.9	40.4	39.1	39.4	41.1	46.1
44.8	42.8	41.1	41.5	42.3	43.3	44.3	45.4	46.8	48.4
50.3	52.8	56.3	62.3	68.4	68.4	68.4	68.4	68.4	68.4
68.4									



SAITHE 36.6 CM 38 KHZ FISH NO 193

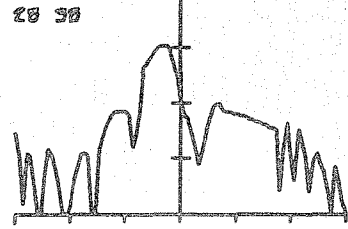
42.7	44.2	45.3	41.4	40.0	40.7	42.7	45.3	42.7	40.3
42.2	46.7	46.0	41.8	42.7	47.4	56.2	47.4	48.3	50.2
51.4	54.3	58.7	68.3	50.2	41.8	41.0	40.7	40.3	38.2
35.8	35.2	35.4	33.3	31.0	30.8	29.5	28.3	27.2	27.4
28.9	30.9	33.5	37.1	36.4	33.8	31.7	33.5	36.2	40.0
44.7	41.4	34.8	33.3	34.8	39.0	38.7	37.6	36.7	35.8
37.4	40.7	45.3	44.7	44.2	43.7	40.7	44.7	52.7	45.3
46.0	46.7	47.4	48.3	49.2	50.2	49.2	44.7	47.4	52.7
62.2	52.7	49.2	54.3	62.2	62.2	48.3	49.2	50.2	51.4
52.7									



SAITHE AT 38 KHZ

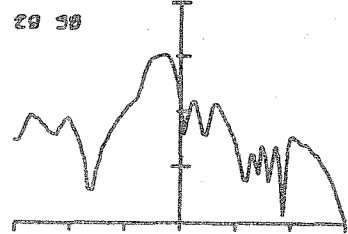
SAITHE 37.0 CM 38 KHZ FISH NO 28

45.1	48.9	58.4	48.9	49.9	54.0	62.0	68.0	52.4	48.0
49.9	52.4	55.9	62.0	68.0	58.4	54.0	51.1	48.9	48.9
49.9	68.0	68.0	48.0	45.7	43.4	42.0	41.1	41.1	41.5
41.5	42.4	48.0	45.1	40.8	33.2	32.1	31.2	30.3	29.5
29.3	29.3	30.3	32.4	35.3	39.7	42.0	43.4	45.7	48.0
51.1	48.0	44.5	42.0	40.0	39.7	41.1	41.5	41.5	42.0
42.0	42.4	42.4	42.9	42.9	43.4	43.4	43.9	43.9	44.5
44.5	45.1	55.9	48.0	43.4	49.9	54.0	44.5	47.2	49.9
55.9	49.9	48.9	51.1	52.4	55.9	62.0	51.1	54.0	58.4
68.0									



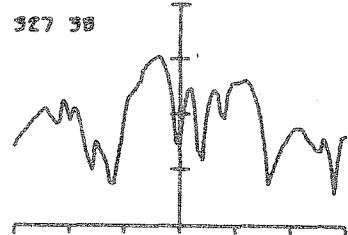
SAITHE 38.3 CM 38 KHZ FISH NO 29

44.8	44.8	43.2	41.4	40.3	41.1	41.4	42.3	42.7	43.7
44.2	44.2	42.7	41.8	40.7	41.8	43.2	44.8	46.7	49.2
54.3	54.3	50.2	48.3	46.0	44.8	43.2	42.3	41.1	40.3
39.3	38.5	37.9	37.2	35.6	33.2	31.3	30.0	29.7	29.5
29.2	29.8	30.4	31.5	34.5	39.0	44.2	40.3	37.9	38.2
40.7	44.2	44.2	40.7	38.2	39.0	40.0	41.4	42.7	44.2
46.0	49.2	52.7	52.7	47.5	48.3	51.4	46.0	47.5	52.7
48.3	46.0	50.2	58.7	47.5	44.2	44.8	45.4	46.0	46.0
46.7	47.5	48.3	49.2	50.2	51.4	52.7	54.3	56.2	58.7
62.0									



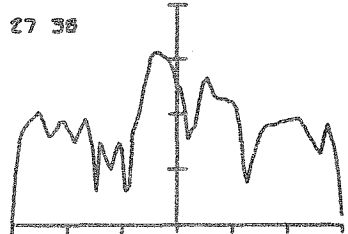
SAITHE 38.6 CM 38 KHZ FISH NO 327

45.4	44.2	43.2	42.3	41.4	40.7	40.0	39.3	38.7	39.7
40.7	41.8	41.1	37.4	38.7	41.1	38.7	39.7	42.3	45.4
48.3	50.2	44.8	46.0	47.5	49.2	52.7	52.7	48.3	44.8
40.0	36.7	35.8	34.8	33.8	31.9	30.7	30.1	29.6	29.2
30.2	31.5	34.0	37.9	45.4	45.4	39.0	35.2	35.4	39.3
46.7	48.3	40.7	36.9	35.4	36.7	40.3	40.7	36.0	34.1
34.0	34.1	33.5	34.1	34.8	35.5	38.5	41.4	45.4	52.7
50.2	48.3	46.7	45.4	44.2	43.2	42.3	42.3	42.7	43.7
44.8	45.4	46.7	46.7	44.2	46.0	49.2	54.3	47.5	43.7
43.7									



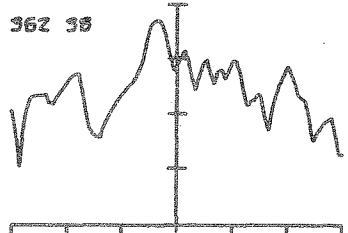
SAITHE 39.5 CM 38 KHZ FISH NO 27

68.1	50.0	44.5	42.5	41.6	40.8	40.1	39.4	40.5	42.0
44.0	43.4	42.5	41.2	41.2	42.5	43.4	45.1	43.4	42.0
40.8	42.9	46.5	54.1	45.1	47.2	49.0	50.0	47.2	45.1
46.5	54.1	52.5	42.9	41.2	38.8	34.4	32.3	29.3	28.5
28.8	29.5	29.8	30.6	32.5	35.0	35.4	38.8	44.5	42.5
42.0	37.2	34.1	33.2	34.8	36.7	37.2	37.2	37.4	37.7
38.0	38.8	42.5	50.0	52.5	49.0	46.5	44.5	42.9	42.0
41.6	41.6	41.6	41.2	41.2	40.8	40.8	40.5	40.5	41.6
42.5	44.0	45.1	46.5	47.2	44.0	41.6	44.0	46.5	51.2
58.5									



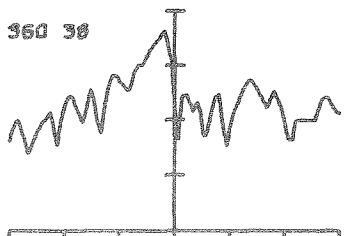
SAITHE 43.0 CM 38 KHZ FISH NO 362

39.4	43.1	49.7	43.1	39.0	36.8	36.5	36.5	36.5	36.2
38.0	38.3	37.1	36.0	35.0	34.9	33.2	32.5	32.6	35.2
38.6	42.5	43.7	44.3	44.3	42.0	40.6	39.4	38.3	37.1
36.2	35.5	34.6	33.9	32.6	31.3	29.0	26.9	23.5	22.8
23.0	24.1	25.9	28.8	32.3	30.8	29.5	28.3	30.5	33.4
35.7	32.8	30.6	30.0	32.5	34.6	32.0	31.6	33.7	31.8
30.3	30.6	32.6	36.0	38.6	37.7	37.1	36.2	37.4	40.6
43.1	39.0	36.5	34.4	32.8	31.3	32.8	34.6	36.8	37.4
37.7	40.6	45.0	43.7	42.5	41.5	41.0	40.6	43.1	47.5
47.5									



SAITHE 48.0 CM 38 KHZ FISH NO 360

43.5	41.4	39.7	41.4	43.5	46.2	44.1	42.4	41.4	40.1
39.4	38.4	41.0	44.7	39.7	36.9	35.4	36.3	37.7	39.0
40.5	37.4	34.3	36.3	40.1	42.4	36.9	33.5	31.6	32.2
33.0	33.7	34.7	33.5	31.0	29.7	29.8	28.5	27.3	26.3
25.5	24.6	23.4	25.3	29.4	37.4	43.5	35.2	35.2	36.6
38.4	36.6	38.4	42.9	41.9	38.0	35.6	34.9	40.1	44.7
41.0	38.4	36.6	34.9	33.5	32.5	33.2	34.1	35.2	36.3
37.7	35.9	34.5	36.1	37.7	40.1	43.5	43.5	39.7	39.7
39.7	40.1	40.1	40.1	38.4	35.9	35.4	36.3	37.4	38.7
38.7									

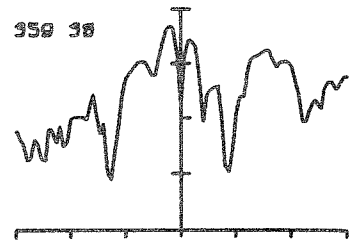




SAITHE AT 38 KHZ

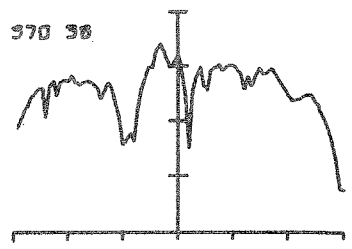
SAITHE 50.5 CM 38 KHZ FISH NO 359

42.0	43.7	45.1	47.6	46.7	43.7	45.1	47.6	47.6	41.5
42.6	44.4	41.1	45.1	43.7	39.8	39.4	39.8	39.8	40.2
38.0	35.3	39.4	42.6	40.6	49.7	51.1	45.0	41.5	35.1
32.3	31.4	30.5	29.6	29.5	29.6	30.7	32.3	31.8	28.7
25.7	23.4	22.9	24.0	28.7	37.7	28.4	25.5	26.2	27.0
31.7	40.6	35.3	34.4	34.0	33.8	39.0	40.6	49.7	45.1
38.7	35.8	35.8	31.4	28.8	28.5	28.1	27.7	27.4	28.0
29.6	30.8	29.5	29.4	29.9	30.5	32.8	36.0	40.6	40.2
38.0	36.5	37.4	38.4	34.2	33.0	33.6	34.8	33.6	32.3
32.3									



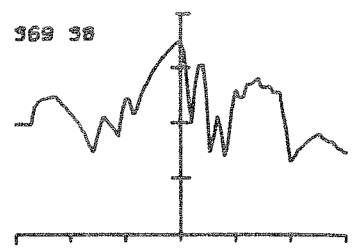
SAITHE 51.5 CM 38 KHZ FISH NO 370

41.1	41.1	39.4	38.0	36.8	35.5	34.6	33.8	34.2	39.4
39.2	32.5	35.5	32.6	32.3	32.8	31.7	33.0	33.6	32.6
32.5	33.0	33.4	34.0	36.0	34.2	32.0	34.0	36.3	39.4
44.3	43.1	42.0	43.7	47.7	44.2	31.8	29.9	30.2	27.0
25.8	27.3	29.0	30.4	28.9	27.6	30.8	35.7	45.0	34.2
31.7	30.0	33.8	34.4	30.4	30.0	29.5	30.8	30.1	29.5
30.0	30.6	31.7	34.4	31.7	33.8	31.5	30.2	31.4	31.2
30.4	31.2	32.1	33.2	34.2	35.5	36.3	36.0	35.7	35.3
35.0	35.3	36.3	37.4	38.7	40.2	42.0	44.3	47.5	52.6
52.6									



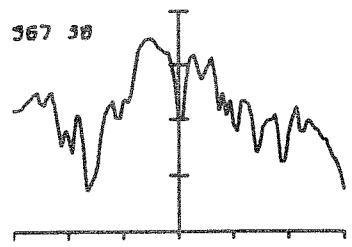
SAITHE 52.0 CM 38 KHZ FISH NO 369

40.0	40.0	40.0	40.0	40.0	36.8	35.8	35.5	35.3	35.1
35.1	35.5	36.3	36.8	37.7	38.3	39.3	40.0	41.3	42.3
44.0	45.3	42.8	40.5	38.6	39.7	40.5	41.3	42.3	38.0
35.3	35.8	38.3	37.4	35.1	33.5	32.1	30.8	29.8	28.7
27.9	27.1	26.4	25.8	25.1	25.6	27.4	34.6	40.0	32.9
29.2	29.2	34.0	45.3	42.8	38.6	40.9	46.1	43.4	37.1
33.8	35.3	35.3	32.6	32.6	32.3	31.6	33.6	33.6	33.1
34.4	34.2	34.6	37.7	41.8	46.9	46.1	44.6	44.0	43.4
42.8	42.3	41.8	42.3	42.8	43.4	43.4	44.0	44.6	45.3
45.3									



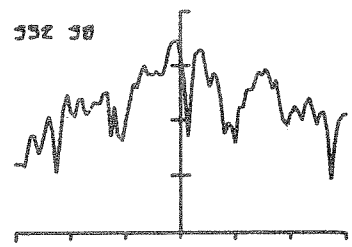
SAITHE 53.0 CM 38 KHZ FISH NO 367

37.9	37.9	37.3	36.4	35.9	35.2	34.5	37.0	37.3	35.4
34.5	37.3	40.8	44.5	41.7	43.3	46.0	38.8	39.9	44.5
52.8	51.2	49.9	47.7	42.2	38.2	37.0	36.2	39.6	39.2
35.9	37.0	34.5	30.7	26.9	25.8	25.0	25.0	25.7	26.5
27.3	27.9	27.6	29.5	33.4	39.9	39.9	32.3	28.3	27.9
30.0	32.6	31.2	29.7	28.3	32.5	38.2	35.0	39.2	36.2
41.2	42.2	36.2	36.7	37.3	39.6	46.0	44.5	40.8	39.9
39.6	38.8	41.7	47.7	46.8	42.2	39.2	37.3	42.2	42.2
39.9	40.8	41.7	42.2	43.3	43.9	45.2	46.8	47.7	49.9
52.8									



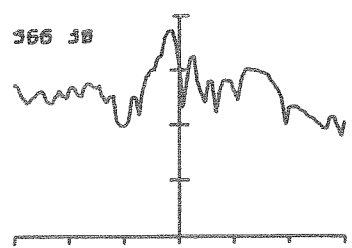
SAITHE 54.0 CM 38 KHZ FISH NO 352

47.5	47.5	48.5	45.3	42.4	42.9	46.0	44.0	41.1	38.9
42.4	49.5	43.5	37.4	34.9	38.6	39.2	35.7	36.2	38.9
38.0	36.4	36.9	36.4	34.5	34.7	42.9	37.2	42.9	43.5
39.6	36.7	33.1	34.1	31.3	29.7	31.6	31.7	30.8	31.8
31.2	29.2	26.3	25.2	25.2	28.2	32.7	42.9	34.1	27.5
27.0	27.7	31.4	33.9	31.2	32.7	36.2	42.4	40.3	41.5
44.0	37.2	37.4	34.1	34.5	33.4	31.0	31.8	30.6	31.7
34.3	32.4	36.4	39.9	41.1	38.3	37.4	38.6	39.9	36.9
35.7	38.3	40.7	38.3	38.3	42.4	50.6	44.0	39.9	38.6
38.6									



SAITHE 54.2 CM 38 KHZ FISH NO 366

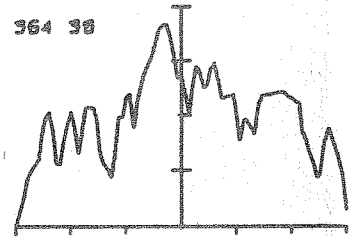
32.5	33.7	35.2	36.1	35.4	34.7	34.1	33.5	34.5	35.9
36.1	34.7	33.7	34.7	35.2	33.1	33.1	34.5	35.0	32.6
32.3	33.0	33.3	32.5	35.0	35.9	34.5	34.5	39.5	40.3
39.9	39.2	34.5	35.2	38.1	33.5	30.9	29.9	29.9	27.6
26.9	23.5	22.8	22.8	25.2	29.2	36.7	31.7	27.5	27.4
32.3	34.5	35.9	31.7	32.1	37.8	33.7	31.8	32.0	32.1
34.1	35.6	31.2	29.7	29.9	30.1	30.3	30.5	30.6	31.2
32.1	33.0	33.9	35.2	39.9	36.4	36.4	36.9	37.5	37.8
38.5	38.8	39.5	39.9	40.8	40.8	38.5	38.5	40.3	42.2
39.2									



SAITHE AT 38 KHZ

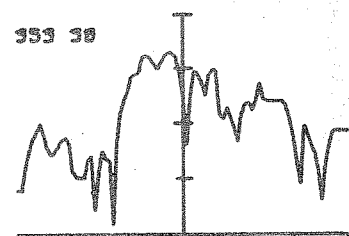
SAITHE 54.5 CM 38 KHZ FISH NO 364

66.8	57.3	54.8	51.3	49.9	48.8	47.8	43.3	40.0	39.2
42.8	48.8	48.8	44.6	41.3	39.2	42.2	46.8	42.2	38.2
38.5	38.9	40.8	46.8	48.8	49.9	51.3	46.8	40.0	40.0
36.2	36.0	42.2	37.3	34.4	32.0	30.3	23.8	26.5	24.0
23.2	23.4	25.6	28.9	33.4	32.9	35.7	39.6	34.4	31.0
32.2	34.8	34.2	31.1	30.4	33.8	37.0	36.5	36.2	36.0
39.6	44.6	40.4	41.3	42.2	43.3	37.9	36.2	36.0	36.0
35.7	35.5	35.5	36.0	36.5	37.0	37.3	37.9	43.3	44.6
46.8	48.8	51.3	49.9	44.6	42.2	43.9	40.0	47.8	51.3
57.3									



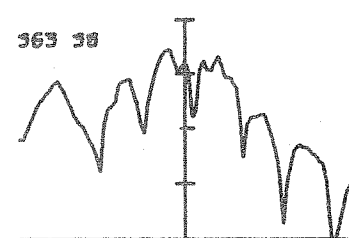
SAITHE 55.0 CM 38 KHZ FISH NO 353

52.4	52.4	47.9	45.0	42.8	41.5	40.0	41.9	44.4	45.7
45.0	43.9	42.8	42.4	43.9	48.9	49.9	49.9	49.9	46.4
45.7	55.9	48.9	45.0	46.4	47.1	58.4	43.3	37.8	35.3
33.8	31.2	30.7	30.3	27.6	27.6	28.3	29.1	30.1	28.7
27.4	26.8	27.3	27.9	30.7	35.1	43.9	34.3	30.3	31.2
32.4	34.9	30.7	30.1	30.6	38.7	39.3	37.1	38.7	41.1
43.3	38.1	36.1	36.3	37.6	35.7	32.7	35.7	36.1	36.1
35.9	35.9	35.9	36.8	39.0	41.9	46.4	51.0	40.3	41.9
43.9	45.7	48.9	54.0	47.1	43.3	41.1	41.1	41.5	41.5
41.5									



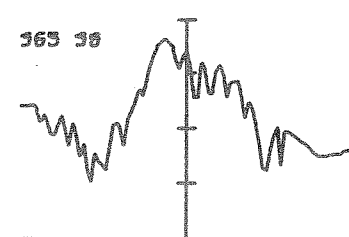
SAITHE 55.0 CM 38 KHZ FISH NO 363

41.8	41.8	39.7	38.3	36.8	35.5	34.4	33.5	32.8	31.9
31.2	32.3	33.3	34.7	36.3	38.0	39.0	39.7	40.9	42.3
43.4	45.3	47.8	39.3	36.3	35.5	34.9	31.6	31.1	30.7
31.3	33.3	35.8	39.3	40.9	35.1	31.8	29.3	27.4	26.0
25.4	26.0	27.6	29.5	28.4	28.0	29.4	38.0	36.3	29.1
27.4	29.4	29.4	27.7	26.7	28.6	30.8	30.4	31.5	32.6
37.1	45.3	38.6	37.7	37.7	37.4	37.1	38.0	39.7	41.8
44.6	48.8	57.4	50.0	46.1	43.4	42.8	43.4	43.4	44.0
44.6	45.3	46.1	46.9	50.0	60.9	60.9	57.4	54.9	51.3
50.0									



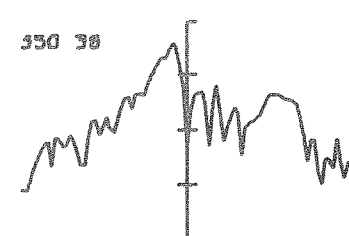
SAITHE 55.0 CM 38 KHZ FISH NO 365

35.6	35.6	35.4	35.4	36.6	38.8	37.5	38.8	41.2	41.2
38.8	37.5	40.3	43.2	38.8	41.2	45.1	42.6	47.6	49.8
44.4	45.9	46.7	47.6	43.8	38.8	38.8	40.3	43.2	37.8
36.6	34.9	32.6	33.9	31.3	28.5	26.2	24.5	23.9	23.5
24.6	25.0	27.6	29.1	26.4	25.7	28.6	34.5	34.3	27.9
29.3	33.7	33.3	29.3	28.3	30.3	34.3	31.3	31.3	31.5
34.3	38.1	35.1	36.4	38.8	42.1	47.6	47.6	43.8	41.2
39.5	46.7	40.3	40.7	41.2	41.6	42.1	42.6	43.2	43.8
44.4	45.1	45.1	45.1	44.4	44.4	44.4	44.4	43.8	43.8
43.8									



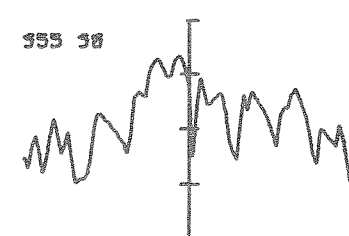
SAITHE 56.0 CM 38 KHZ FISH NO 350

51.1	51.1	48.9	46.4	45.1	43.4	42.0	42.0	46.4	41.1
42.0	42.9	42.4	40.7	42.0	43.9	46.4	45.7	40.7	37.9
38.1	40.7	39.3	37.3	39.7	40.4	37.6	35.5	33.8	33.8
35.9	33.0	33.3	33.7	31.7	30.0	28.6	27.5	26.4	26.8
25.1	24.0	25.1	28.1	32.6	42.9	36.2	33.0	32.9	32.6
35.3	42.9	35.1	31.6	36.2	42.0	39.3	37.3	35.7	37.3
44.5	39.3	38.4	38.1	37.6	37.1	35.3	33.8	33.3	33.7
33.8	34.2	34.5	34.7	35.1	35.5	37.6	41.5	45.7	41.5
42.0	48.0	49.9	45.1	45.7	47.1	41.5	45.7	48.9	45.7
45.7									



SAITHE 56.0 CM 38 KHZ FISH NO 355

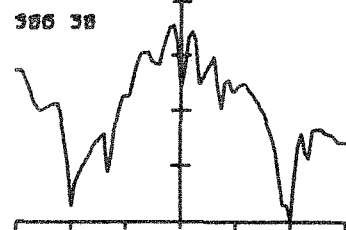
44.9	47.0	42.7	41.0	43.8	47.8	44.9	41.0	38.0	40.2
44.3	42.7	40.2	44.9	49.8	48.8	48.8	47.8	44.9	39.5
37.0	37.5	38.3	38.9	39.9	40.6	41.8	42.7	44.3	40.6
33.9	33.0	33.9	33.9	29.5	27.8	27.0	27.9	29.2	30.6
29.7	27.2	26.4	27.4	29.4	32.4	44.9	35.8	30.5	32.9
35.6	34.8	34.0	33.4	33.9	37.2	42.3	44.3	45.6	38.3
33.5	36.5	33.2	34.0	35.2	36.2	37.5	39.2	41.0	43.2
37.2	36.0	36.2	33.5	32.7	34.0	35.8	38.0	41.0	44.9
46.3	39.9	40.6	41.4	42.3	43.2	39.2	41.4	44.9	49.8
49.8									



SAITHE AT 38 KHZ

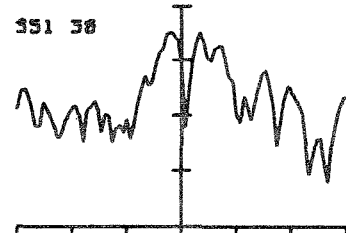
SAITHE 56.5 CM 38 KHZ FISH NO 386

32.5	32.5	33.7	35.2	37.0	38.8	40.0	39.6	39.2	38.8
38.5	38.5	40.8	44.5	49.9	57.3	52.8	51.2	49.9	48.7
47.7	46.0	45.2	44.5	43.9	51.2	47.7	42.7	39.6	37.0
37.3	36.4	33.2	30.8	29.3	29.4	29.4	31.2	31.5	31.4
28.4	26.2	24.5	24.2	27.7	35.7	32.7	26.2	25.5	27.5
35.2	33.6	32.3	31.1	30.0	36.2	39.6	34.6	34.3	36.7
35.9	35.2	35.0	35.9	36.7	37.6	38.8	40.0	41.2	43.3
45.2	47.7	52.8	57.3	57.3	60.8	52.8	46.0	43.9	47.7
48.7	43.3	43.3	43.3	43.9	44.5	44.5	45.2	46.0	46.0
46.0									



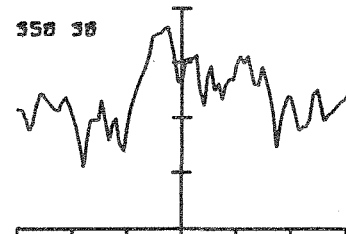
SAITHE 57.0 CM 38 KHZ FISH NO 351

38.5	35.3	34.9	36.6	38.8	42.1	41.7	37.6	38.8	40.1
42.1	44.2	43.1	40.9	39.4	38.2	38.5	40.5	44.8	38.8
38.2	37.4	38.8	43.1	39.8	40.1	44.8	42.1	41.7	43.1
40.5	44.2	40.9	37.4	34.9	32.8	34.5	33.4	30.2	28.3
27.4	24.8	25.0	25.6	26.5	30.6	42.1	34.7	29.6	26.4
24.8	26.8	29.6	30.1	27.7	27.2	27.6	30.1	33.2	34.1
40.1	41.3	36.4	38.5	40.9	37.6	34.5	32.2	31.6	34.3
38.2	45.4	41.3	37.1	34.5	35.7	36.8	38.2	39.8	44.8
50.8	46.9	44.2	44.2	47.7	52.2	44.8	41.3	38.5	36.6
36.6									



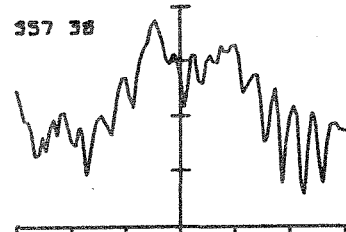
SAITHE 59.5 CM 38 KHZ FISH NO 358

38.3	38.3	40.1	42.3	40.9	37.7	35.3	36.1	36.8	37.7
38.6	38.6	36.8	36.1	37.7	39.7	41.8	45.4	48.9	43.4
40.1	40.5	40.1	36.6	40.1	44.0	40.9	39.7	44.7	46.1
41.4	38.0	35.6	33.7	32.1	30.8	28.3	25.0	24.6	24.3
23.7	23.3	25.6	28.7	33.5	33.5	29.4	29.1	28.8	28.5
34.9	37.7	32.1	30.3	35.1	33.5	36.6	33.7	32.8	33.1
30.0	28.6	30.0	28.5	31.0	34.1	34.1	30.5	32.5	35.1
39.0	45.4	40.9	38.0	35.8	36.6	39.0	42.3	41.4	41.4
40.1	35.3	34.7	37.4	40.5	39.3	38.6	38.0	37.1	36.6
35.8									



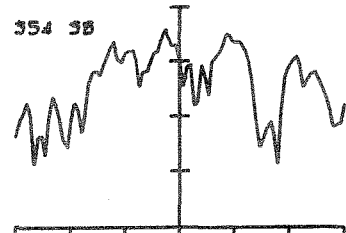
SAITHE 60.5 CM 38 KHZ FISH NO 357

35.3	37.8	40.9	41.3	42.9	47.3	46.4	43.5	46.4	42.3
40.4	43.5	39.2	39.2	42.3	44.8	45.6	41.8	43.5	50.9
47.3	42.9	40.4	39.6	40.9	42.3	43.5	39.2	35.3	32.8
33.0	36.6	38.5	32.8	29.4	27.6	26.2	23.3	22.4	24.3
26.6	29.8	30.7	28.6	29.7	33.0	38.5	33.8	28.6	29.4
33.8	34.2	29.9	28.8	30.3	30.4	27.1	28.4	28.2	27.0
27.1	29.0	35.8	34.4	33.4	32.4	32.8	36.9	44.8	43.5
37.2	34.8	40.4	52.4	44.1	40.0	38.1	40.4	52.4	54.4
45.6	39.2	40.9	48.4	52.4	44.8	41.3	41.3	42.3	42.9
42.9									



SAITHE 68.0 CM 38 KHZ FISH NO 354

43.4	40.7	39.0	37.3	40.0	48.9	43.4	43.4	47.1	40.4
36.2	38.1	40.7	44.5	45.7	40.4	37.3	39.0	42.9	39.0
33.7	31.8	31.7	32.6	30.8	28.9	27.3	26.2	29.7	30.2
28.4	27.8	27.9	29.8	34.7	31.7	31.8	29.8	28.1	28.0
25.6	24.0	25.8	27.4	26.8	29.7	34.7	30.6	30.5	38.1
37.1	30.6	32.9	36.2	29.8	28.8	28.1	26.8	24.9	25.8
26.7	26.2	27.1	28.1	29.8	33.7	41.1	45.7	43.9	42.0
40.7	43.9	48.9	39.0	32.3	30.9	29.8	28.8	30.8	34.7
33.3	32.1	31.7	33.0	34.5	36.4	38.7	42.0	41.5	41.1
37.9									

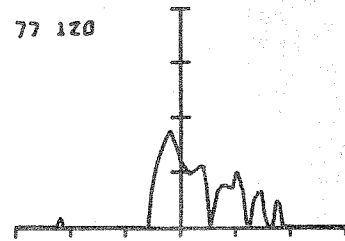


DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF SAITHE AT 120 KHZ

SAITHE 9.1 CM 120 KHZ FISH NO 77

81.7	81.7	81.7	81.7	81.7	67.7	62.6	64.8	67.7	72.1	69.6
62.6	59.4	58.1	60.1	62.6	63.6	60.8	63.6	67.7	75.6	
81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	69.6
62.0	60.8	66.1	81.7	81.7	81.7	59.4	53.0	49.4	46.9	
44.9	43.3	42.3	43.9	46.0	48.2	49.2	50.3	49.6	49.2	
48.6	49.0	53.0	60.1	50.6	53.0	52.1	52.4	53.0	52.7	
49.8	51.0	54.1	59.4	59.4	54.8	53.4	53.7	58.1	67.7	
62.6	55.2	56.1	61.7	81.7	81.7	81.7	81.7	81.7	81.7	
81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	
81.7										

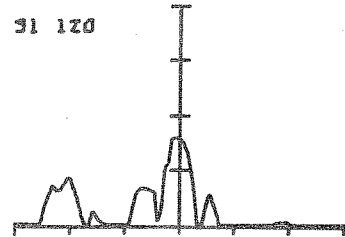
77 120



SAITHE 10.0 CM 120 KHZ FISH NO 31

65.3	64.3	64.3	63.3	62.5	62.5	61.8	58.7	56.1	54.4	
52.7	53.8	53.5	52.5	51.3	51.7	53.5	55.4	58.2	61.8	
61.8	57.3	58.2	59.3	59.8	61.1	62.5	63.3	65.3	67.8	
66.4	59.8	56.5	53.8	53.0	53.2	53.5	53.8	54.1	59.3	
56.5	49.0	48.1	43.7	44.0	44.4	45.1	47.1	49.9	54.1	
61.8	59.8	50.5	54.1	55.7	57.8	61.1	65.3	73.8	83.3	
83.3	83.3	73.8	67.8	63.3	61.1	59.8	59.8	59.8	59.8	
59.8	59.3	59.3	59.3	59.3	61.1	66.4	65.3	83.3	83.3	
73.8	66.4	66.4	69.4	73.8	63.3	63.3	63.3	71.3	65.3	
83.3										

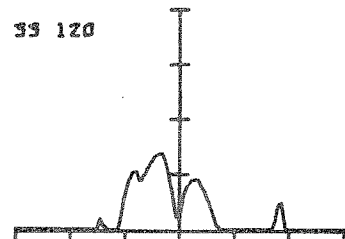
31 120



SAITHE 10.0 CM 120 KHZ FISH NO 33

83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	
67.9	60.0	60.6	61.9	63.5	65.4	67.9	71.5	77.5	83.5	
83.5	71.5	62.7	57.9	59.4	61.9	64.4	69.5	60.6	56.3	
53.1	50.8	49.2	49.2	51.2	50.1	48.7	47.5	46.4	46.0	
46.1	47.5	49.9	52.9	57.9	57.9	53.7	51.7	51.0	50.6	
51.2	52.4	53.7	55.2	57.1	57.4	62.7	67.9	83.5	83.5	
83.5	83.5	77.5	69.5	66.6	63.5	61.9	64.4	67.9	74.0	
63.5	58.4	55.2	54.9	60.0	61.2	61.9	61.9	62.7	63.5	
64.4	65.4	65.4	66.6	66.6	67.9	67.9	67.9	67.9	69.5	

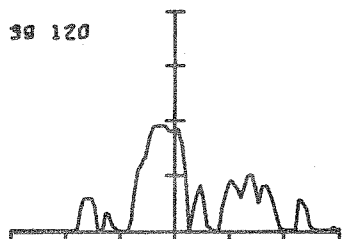
33 120



SAITHE 11.0 CM 120 KHZ FISH NO 39

81.5	60.6	63.6	60.6	60.6	59.9	59.9	59.9	59.9	60.6	
62.4	64.6	67.5	75.4	81.5	81.5	81.5	81.5	75.4	55.9	
53.9	53.7	54.2	55.4	60.6	71.9	56.4	57.4	59.2	60.6	
63.4	65.9	71.9	57.4	51.9	48.6	47.1	45.9	42.7	40.9	
40.9	40.8	40.8	41.6	42.0	41.3	41.6	44.8	50.3	61.5	
56.4	53.2	51.6	54.6	59.2	67.5	69.4	60.6	55.9	52.8	
50.3	51.4	52.5	53.9	51.9	49.6	49.9	52.2	55.0	51.6	
51.9	53.2	55.0	57.4	59.9	64.6	71.9	61.5	81.5	54.2	
55.0	55.9	59.2	65.9	81.5	81.5	81.5	64.6	59.2	59.9	
64.6										

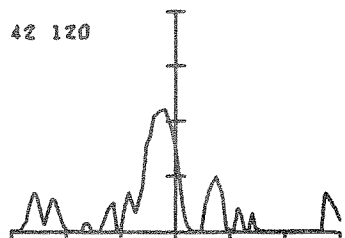
39 120



SAITHE 11.0 CM 120 KHZ FISH NO 42

65.7	63.2	61.2	58.9	57.7	54.8	52.9	54.0	56.6	58.9	
56.1	54.0	54.8	56.6	58.9	61.2	62.1	62.1	61.2	61.2	
58.3	58.9	61.2	65.7	75.2	58.3	56.6	55.2	54.8	69.2	
59.6	55.6	52.9	54.8	56.6	54.4	51.4	43.8	42.5	38.9	
38.1	37.9	37.7	39.5	41.8	44.8	49.6	56.1	58.9	63.2	
71.7	65.7	59.6	55.6	52.9	50.9	50.1	51.7	53.3	59.6	
67.2	59.6	55.6	57.1	60.4	67.2	56.6	59.6	64.3	75.2	
61.2	81.2	81.2	81.2	69.2	62.1	61.2	65.7	81.2	71.7	
69.2	65.7	63.2	62.1	60.4	59.6	52.9	54.0	55.2	56.6	
58.3										

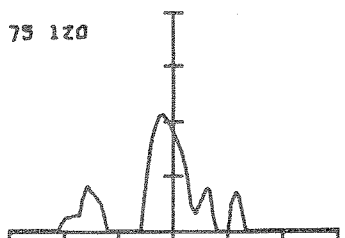
42 120



SAITHE 11.7 CM 120 KHZ FISH NO 75

61.2	60.5	66.5	82.1	82.1	82.1	82.1	82.1	82.1	76.0	
70.0	65.2	63.0	60.5	58.5	57.5	57.5	57.0	57.0	57.0	
53.8	51.7	52.5	53.4	54.1	55.2	57.5	61.2	68.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	61.2	54.1	48.6	43.7	
40.6	38.8	38.6	39.6	40.7	42.0	43.5	45.3	47.6	50.7	
55.6	57.0	55.2	53.8	52.2	53.1	57.5	66.5	82.1	82.1	
70.0	54.5	52.8	54.1	57.0	60.5	65.2	64.3	63.0	62.1	
62.1	66.5	76.0	82.1	82.1	82.1	82.1	82.1	82.1	76.0	
72.5	68.1	65.2	64.0	62.1	62.1	63.0	63.0	64.0	70.0	
82.1										

75 120

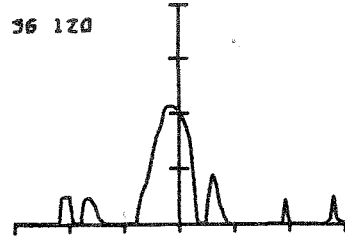


SAITHE AT 120 KHZ

SAITHE 11.8 CM 120 KHZ FISH NO 36

81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	75.0	71.5
69.0	67.1	65.5	55.0	55.0	55.0	60.2	65.5	59.5	55.5	
55.0	55.9	57.0	58.8	65.5	81.0	81.0	81.0	81.0	81.0	81.0
81.0	81.0	65.5	59.5	50.4	53.8	52.1	49.4	46.1	43.5	
41.6	38.6	38.3	38.7	39.1	39.5	41.0	42.9	45.2	52.1	
81.0	81.0	61.0	54.6	50.9	52.7	56.4	58.1	60.2	63.0	
67.1	69.0	65.5	63.0	75.0	81.0	81.0	81.0	81.0	81.0	
81.0	81.0	81.0	59.5	55.5	60.2	71.5	81.0	81.0	81.0	
81.0	81.0	81.0	71.5	60.2	59.5	58.8	55.0	59.5	61.9	
59.5										

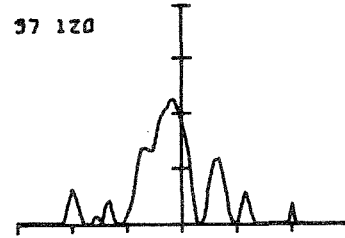
36 120



SAITHE 11.9 CM 120 KHZ FISH NO 37

81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
81.3	71.8	63.3	58.4	55.3	53.4	55.3	57.8	61.3	67.4	
64.4	58.4	59.1	59.8	50.2	55.3	58.4	62.3	61.3	59.1	
57.8	56.2	53.0	48.7	45.9	46.2	46.9	46.5	44.0	40.8	
39.3	38.5	37.1	37.6	39.2	41.3	44.0	47.7	55.3	75.3	
71.8	58.4	53.7	50.5	46.1	47.9	50.2	53.4	58.4	65.8	
59.8	56.7	54.1	55.8	58.4	61.3	65.8	81.3	81.3	81.3	
81.3	81.3	81.3	65.8	59.1	56.2	61.3	75.3	81.3	81.3	
81.3	81.3	81.3	81.3	61.3	71.3	81.3	81.3	81.3	81.3	
81.3										

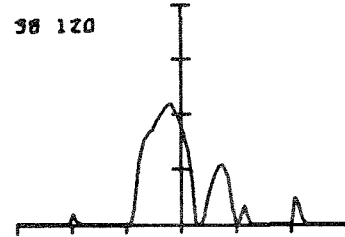
37 120



SAITHE 12.0 CM 120 KHZ FISH NO 38

80.9	80.9	80.9	74.9	62.8	61.8	68.8	80.9	80.9	80.9	
80.9	80.9	80.9	80.9	80.9	58.0	59.3	60.9	64.0	66.9	
71.3	80.9	66.9	62.8	61.8	64.0	65.3	68.8	74.7	60.9	
80.9	80.9	56.3	50.0	46.7	44.2	43.0	42.5	41.1	40.1	
39.0	38.1	37.9	39.1	40.5	42.2	44.4	47.1	52.6	74.9	
64.0	58.6	55.3	52.9	53.8	49.3	48.8	50.3	51.9	57.4	
64.0	58.6	55.3	58.6	61.8	68.8	80.9	74.9	71.3	68.8	
66.9	66.9	65.3	64.0	62.8	61.8	54.9	56.8	59.3	62.8	
66.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	
80.9										

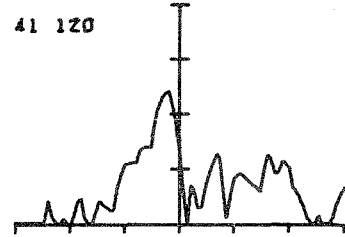
38 120



SAITHE 12.2 CM 120 KHZ FISH NO 41

81.2	81.2	81.2	81.2	81.2	81.2	81.2	61.3	59.0	55.7	
59.0	67.2	62.1	59.0	65.7	61.2	58.3	55.7	55.2	59.0	
65.7	61.2	57.7	55.7	55.6	57.1	57.7	57.1	53.3	50.6	
48.8	48.8	48.6	48.6	40.4	45.8	46.0	46.1	42.3	39.0	
36.9	35.9	35.7	38.0	41.4	47.1	53.0	63.2	52.9	54.0	
57.1	56.6	53.3	50.9	48.8	47.2	48.4	53.0	59.0	54.4	
51.4	50.6	51.1	51.7	52.3	52.9	53.0	54.0	50.1	47.2	
48.6	50.9	50.3	48.6	49.2	49.9	53.3	54.4	55.7	57.1	
59.0	61.2	59.6	58.3	63.2	64.3	60.4	58.3	56.1	54.4	
53.3										

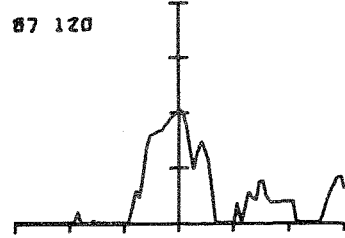
41 120



SAITHE 13.0 CM 120 KHZ FISH NO 87

82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
82.4	82.4	72.8	64.3	64.3	72.8	62.4	57.8	60.1	64.3	
65.5	59.4	65.5	76.3	60.8	63.3	82.4	82.4	82.4	82.4	
65.5	60.1	56.8	54.1	55.5	51.7	46.0	43.9	43.6	43.2	
42.9	42.1	41.3	40.5	39.8	39.2	40.0	42.6	46.8	50.3	
47.1	45.1	46.7	48.6	53.4	32.4	82.4	82.4	82.4	70.3	
60.8	56.3	61.5	57.3	54.4	55.5	55.9	52.3	52.3	55.5	
56.3	56.3	56.3	55.9	55.9	55.9	55.9	62.4	72.8	64.3	
64.3	68.4	68.4	62.4	58.8	56.3	54.4	53.1	51.7	51.7	
54.1										

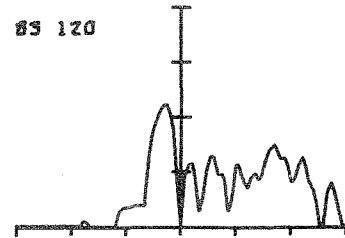
87 120



SAITHE 13.1 CM 120 KHZ FISH NO 83

63.2	65.4	68.3	72.8	62.3	62.3	82.3	82.3	82.3	82.3	82.3
82.3	82.3	76.3	70.3	66.7	64.2	61.5	60.0	58.8	59.4	
63.2	68.3	82.3	82.3	82.3	82.3	68.3	60.7	57.2	56.3	
56.3	56.3	55.9	55.9	55.9	55.9	47.5	42.8	40.6	38.8	
37.5	37.8	39.6	42.7	52.8	59.4	50.5	48.3	48.5	51.7	
57.2	54.0	49.2	46.9	47.3	50.5	50.3	51.7	57.2	54.4	
48.3	49.4	51.9	53.1	50.9	50.1	51.4	50.3	47.7	45.8	
45.0	46.1	47.7	47.3	48.9	51.9	51.2	48.5	47.2	49.1	
52.2	53.4	55.9	60.0	59.4	53.4	51.9	54.0	56.7	60.7	
68.3										

83 120

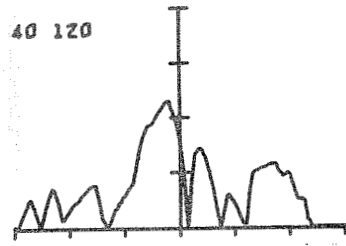


SAITHE AT 120 KHZ

SAITHE 13.2 CM 120 KHZ FISH NO 40

61.9	59.4	57.5	55.9	54.5	55.9	58.1	63.2	57.5	55.0
52.7	53.8	55.9	58.7	57.5	56.4	55.4	55.0	54.1	53.4
52.7	52.0	52.4	55.0	58.7	61.0	58.7	56.9	55.9	54.5
53.8	52.7	51.7	48.9	45.4	42.9	41.1	40.9	40.1	38.8
37.8	36.8	37.1	39.0	41.3	44.6	49.9	65.4	51.4	46.2
45.3	46.2	47.9	50.1	52.7	56.9	65.4	56.9	53.8	55.0
55.9	57.5	59.4	59.4	53.0	49.6	49.2	48.9	48.7	48.3
48.1	48.5	49.9	50.6	49.9	50.6	52.7	55.0	55.0	55.4
58.7	64.1	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0

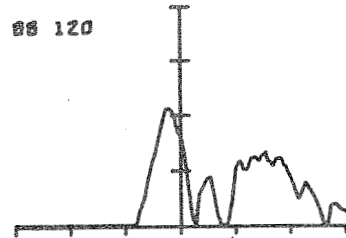
40 120



SAITHE 13.2 CM 120 KHZ FISH NO 83

82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	59.0	56.5	54.9	51.2	48.4	46.4	43.6
40.4	38.3	38.9	39.7	43.0	44.0	47.1	53.0	58.5	61.7
53.9	52.4	51.2	51.2	54.2	58.5	68.6	63.5	59.0	54.9
49.1	48.1	49.9	49.7	47.6	47.4	48.4	47.1	46.4	48.6
49.3	47.6	47.7	48.7	50.1	51.4	53.0	55.3	53.6	52.2
53.3	54.6	55.7	57.4	59.6	60.3	56.1	56.1	57.0	57.4

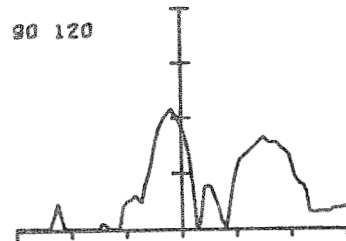
83 120



SAITHE 13.3 CM 120 KHZ FISH NO 90

82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
57.2	55.1	57.7	61.5	61.5	61.5	76.3	82.3	82.3	72.8
66.8	62.3	60.1	58.8	59.4	60.1	60.8	60.8	61.5	55.5
54.7	54.4	53.7	54.7	55.1	51.7	49.5	46.6	43.6	41.3
39.8	38.8	38.1	39.2	40.4	41.9	43.7	46.9	52.5	72.8
58.3	52.2	52.2	52.8	54.4	56.3	58.8	62.3	56.3	51.7
48.7	47.1	46.5	46.0	45.3	44.8	44.0	43.3	44.0	44.6
44.2	44.7	45.4	46.0	46.5	48.4	50.7	52.0	52.2	53.4
57.2	57.2	56.8	56.8	56.8	56.8	56.3	56.3	56.3	55.9

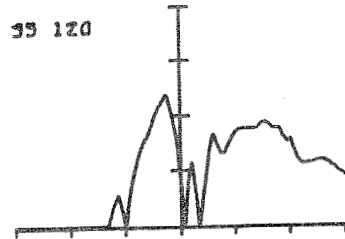
90 120



SAITHE 14.0 CM 120 KHZ FISH NO 35

81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
81.5	81.5	81.5	71.9	64.6	59.9	57.4	55.4	54.2	56.9
60.6	54.6	50.8	48.2	40.0	44.4	43.1	41.5	39.6	38.1
36.8	35.8	37.9	40.6	44.6	51.9	64.6	51.4	48.2	53.2
65.9	54.6	50.1	45.6	43.2	45.3	46.7	46.7	45.2	43.7
42.5	42.1	42.2	42.3	42.3	42.4	41.8	41.1	41.2	41.7
42.3	42.0	42.4	43.5	44.8	44.1	45.8	47.8	48.8	48.6
48.4	48.2	48.0	47.8	48.2	48.6	49.0	49.6	50.1	50.6

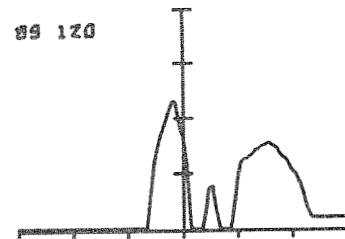
35 120



SAITHE 14.0 CM 120 KHZ FISH NO 89

72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
72.0	72.0	72.0	72.0	72.0	66.0	52.9	47.4	44.4	42.2
40.0	38.0	36.3	37.5	41.6	43.7	48.5	62.5	72.0	72.0
62.5	56.4	52.0	52.0	56.4	60.0	72.0	72.0	72.0	55.1
50.4	47.4	46.9	46.4	46.0	45.2	44.8	44.4	44.0	44.8
45.2	46.0	46.9	47.4	48.5	49.7	50.4	52.0	53.9	56.4
58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0

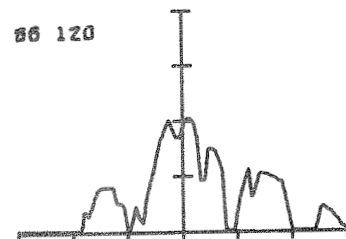
89 120



SAITHE 14.2 CM 120 KHZ FISH NO 80

60.3	64.5	73.0	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
55.7	53.3	51.9	51.9	51.9	51.9	52.2	54.9	54.9	56.1
61.0	58.5	55.3	57.9	58.5	53.9	50.7	48.6	45.6	43.1
41.2	39.7	41.3	43.1	43.0	40.8	39.2	39.6	40.6	43.2
51.0	50.3	44.7	45.2	45.6	47.3	49.5	82.5	82.5	82.5
56.1	53.0	50.5	48.6	53.9	51.9	49.3	49.7	49.9	50.3
50.5	51.0	51.2	53.0	57.0	64.5	82.5	82.5	82.5	82.5
68.6	61.7	57.9	55.3	56.1	56.5	57.4	57.9	59.0	59.6

80 120

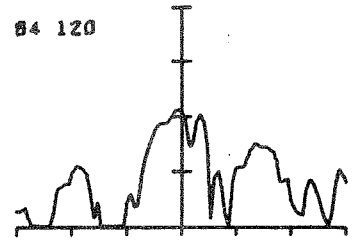


SAITHE AT 120 KHZ

SAITHE 15.2 CM 120 KHZ FISH NO 84

57.5	57.0	56.5	58.5	61.2	65.2	70.0	68.1	66.5	63.0
57.0	53.1	52.5	52.2	52.2	59.0	49.0	49.4	49.8	50.5
53.4	58.5	55.6	76.0	82.1	82.1	82.1	82.1	76.0	60.5
55.2	53.8	56.5	55.6	50.5	47.3	45.0	43.2	41.6	41.1
41.0	40.8	40.0	38.8	38.6	39.4	40.8	45.4	44.4	40.6
39.5	41.2	45.2	58.5	50.7	49.8	53.1	58.0	65.2	51.4
49.0	49.0	49.0	47.1	45.7	44.8	45.5	45.7	45.5	46.1
46.6	48.1	52.0	51.4	51.4	55.6	57.0	58.0	58.0	53.1
51.4	52.5	54.1	56.0	58.5	61.2	57.5	52.5	49.6	50.7
52.0									

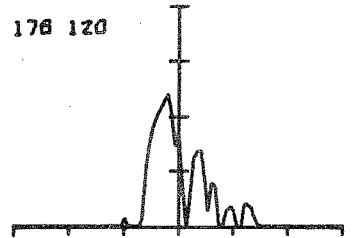
84 120



SAITHE 15.3 CM 120 KHZ FISH NO 176

81.3	81.3	81.3	81.3	81.3	81.3	81.3	71.7	65.7	62.2
59.7	62.2	65.7	71.7	81.3	81.3	81.3	81.3	81.3	81.3
81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
58.4	61.3	64.4	71.7	81.3	58.4	48.8	44.4	41.6	39.8
38.2	36.9	35.8	39.0	45.4	42.9	52.3	63.2	54.4	47.5
46.2	46.3	51.2	57.2	52.0	53.0	59.7	65.7	57.2	56.2
57.2	65.7	64.4	55.7	56.2	56.7	59.0	63.2	71.7	81.3
81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
81.3									

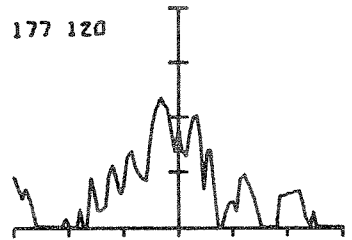
176 120



SAITHE 16.0 CM 120 KHZ FISH NO 177

51.1	52.6	54.8	52.9	54.4	56.6	71.7	81.2	81.2	81.2
81.2	81.2	65.6	59.6	58.3	65.6	81.2	60.4	56.6	62.1
61.2	50.8	53.6	57.1	56.6	56.1	50.1	48.5	50.8	54.0
52.0	46.9	45.8	48.7	50.3	51.1	51.7	45.4	40.2	37.9
36.2	37.7	38.5	42.0	46.2	41.9	46.1	47.1	42.5	39.8
39.4	43.8	53.2	45.8	46.1	54.0	64.3	59.6	57.1	55.2
55.2	57.1	50.8	50.3	51.7	53.2	55.2	57.7	61.2	61.2
59.6	67.2	59.6	54.0	54.0	53.6	53.6	53.2	53.2	55.2
58.3	59.6	57.1	65.6	31.2	31.2	31.2	75.2	75.2	75.2
81.2									

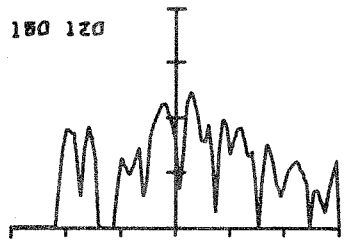
177 120



SAITHE 16.5 CM 120 KHZ FISH NO 180

71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
71.2	71.2	71.2	53.1	45.2	41.9	42.6	42.9	48.3	54.3
45.6	41.4	44.0	47.7	71.2	71.2	71.2	71.2	65.2	52.1
47.1	48.9	50.4	48.9	47.1	45.2	54.3	51.2	42.9	47.6
38.9	37.4	37.4	39.1	41.4	44.3	53.1	46.1	37.0	35.2
36.7	39.8	44.3	44.3	41.1	47.1	57.2	45.2	40.1	41.6
46.6	44.0	41.6	41.9	44.0	47.1	46.1	51.2	61.6	51.2
44.7	46.1	48.3	52.1	54.3	52.1	49.6	48.3	47.7	48.9
50.4	52.1	61.6	53.1	53.1	55.6	57.2	53.1	50.4	47.7
71.2									

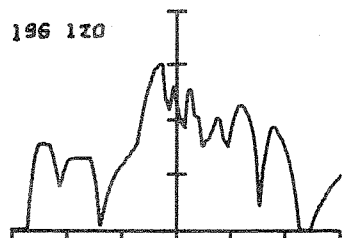
180 120



SAITHE 27.5 CM 120 KHZ FISH NO 196

71.3	71.3	71.3	71.3	71.3	52.2	46.2	44.1	44.1	44.5
44.5	46.2	49.0	52.2	49.0	47.2	46.7	46.7	46.7	46.7
46.7	46.7	49.0	52.2	59.3	55.8	53.3	51.3	49.7	48.4
47.8	46.7	45.8	44.9	44.1	40.7	36.8	34.2	32.1	30.4
29.6	30.3	36.5	38.1	33.7	37.2	40.4	41.6	34.3	34.7
39.5	39.7	44.9	43.4	43.0	41.0	39.3	40.2	43.7	44.9
41.5	38.9	37.0	37.3	38.3	39.5	42.1	46.7	55.8	48.4
44.1	41.2	41.2	42.4	43.7	45.3	47.2	50.5	54.4	61.8
65.3	61.8	59.3	57.3	55.3	54.4	53.3	52.2	51.3	50.5
49.7									

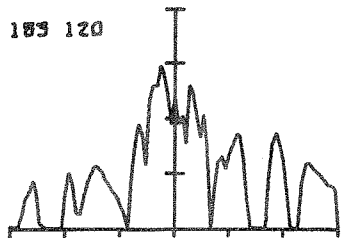
196 120



SAITHE 28.9 CM 120 KHZ FISH NO 183

71.3	65.3	59.3	57.4	54.4	53.3	51.3	53.3	59.3	71.3
71.3	71.3	71.3	71.3	59.3	53.3	49.8	52.3	57.4	57.4
54.4	51.3	49.8	48.4	49.1	49.8	51.3	52.3	53.3	54.4
55.8	57.4	61.8	50.5	44.5	41.0	43.0	46.4	36.2	33.8
34.0	30.2	32.0	35.4	41.0	35.9	41.0	39.3	44.5	33.8
35.5	39.7	43.4	39.3	45.3	65.3	52.3	47.3	46.7	49.1
46.2	44.5	42.7	43.4	47.3	54.4	71.3	71.3	71.3	71.3
65.3	49.8	44.1	42.4	44.9	47.8	53.3	65.3	71.3	61.8
51.3	47.8	48.4	49.1	49.8	50.5	51.3	52.3	52.3	53.3
71.3									

183 120

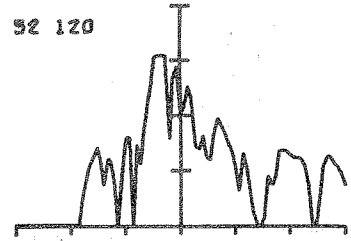


SAITHE AT 120 KHZ

SAITHE 30.5 CM 120 KHZ FISH NO 52

71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
71.8	71.8	71.8	71.8	71.8	71.8	71.8	59.7	54.9	51.8	
48.8	47.2	45.7	48.2	52.7	47.7	48.8	52.7	59.7	49.5	
43.8	44.2	65.7	45.3	48.8	42.5	37.3	33.9	29.1	28.9	
29.2	29.4	44.2	33.1	31.0	39.7	38.1	34.5	37.3	45.7	
46.2	43.5	47.7	48.2	43.5	40.4	41.7	43.1	44.9	46.7	
49.5	53.7	46.7	49.5	53.7	57.8	62.2	71.8	57.8	50.9	
52.7	50.9	46.2	46.2	46.7	47.2	47.7	47.7	48.2	49.5	
52.7	59.7	71.8	54.9	48.8	47.2	47.7	48.8	49.5	50.9	
52.7										

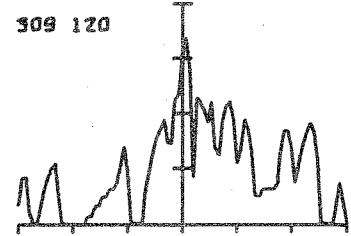
52 120



SAITHE 31.0 CM 120 KHZ FISH NO 309

56.6	51.5	51.5	58.5	70.5	64.5	56.6	53.6	51.5	49.7	
49.0	55.0	70.5	70.5	70.5	64.5	64.5	61.0	61.0	58.5	
58.5	56.6	56.6	55.0	55.0	53.6	53.6	52.5	49.7	45.9	
50.5	61.0	70.5	70.5	64.5	53.6	49.7	40.5	44.1	42.6	
41.0	45.4	45.4	37.3	35.9	29.3	26.2	32.1	51.5	37.1	
38.1	39.7	41.6	37.7	46.5	47.6	41.0	38.3	37.7	41.3	
49.0	46.5	41.0	42.9	47.0	55.0	55.0	53.6	53.6	53.6	
53.6	52.5	46.5	42.9	43.3	46.5	52.5	48.3	45.4	43.3	
41.6	43.3	48.3	64.5	70.5	70.5	61.0	50.6	52.5	56.6	
70.5										

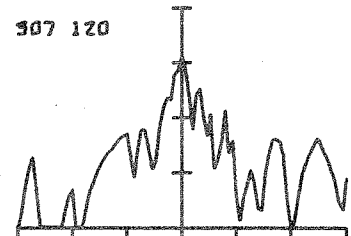
309 120



SAITHE 31.2 CM 120 KHZ FISH NO 307

65.0	57.0	51.9	48.7	46.9	52.9	71.0	71.0	71.0	71.0	
71.0	71.0	61.4	57.0	54.1	52.9	61.4	65.0	58.9	55.4	
52.9	51.0	49.4	48.1	46.9	45.9	45.4	44.5	43.7	43.0	
42.7	46.4	51.0	45.4	42.0	42.0	45.9	49.4	47.5	41.7	
37.7	36.2	36.8	31.9	31.0	28.5	31.0	36.5	42.3	35.4	
34.6	40.3	43.4	39.2	49.4	46.9	44.1	38.5	46.4	44.1	
54.1	58.9	54.1	51.9	49.4	51.9	57.0	57.0	50.1	46.4	
43.7	44.1	44.5	46.9	55.4	71.0	58.9	54.1	50.1	48.1	
46.4	45.0	43.7	45.0	46.4	48.1	50.1	51.9	55.4	57.0	
51.0										

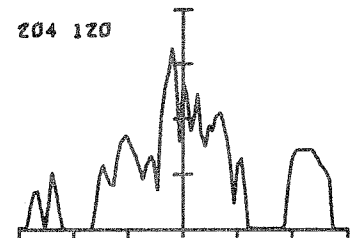
307 120



SAITHE 31.7 CM 120 KHZ FISH NO 204

71.1	65.1	59.0	55.5	53.0	53.0	57.1	65.1	55.5	49.5	
53.0	57.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	
71.1	55.5	50.3	48.2	50.3	52.0	52.0	47.0	43.9	42.8	
43.9	45.5	47.0	48.8	51.1	48.2	46.5	48.2	53.0	39.5	
33.7	31.3	26.9	31.5	44.2	33.7	35.5	42.1	39.3	35.2	
42.8	45.1	41.0	42.1	39.3	38.6	40.7	43.5	47.6	55.5	
47.6	47.0	53.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	
71.1	71.1	71.1	59.0	51.1	47.0	45.5	45.5	45.5	45.5	
45.5	46.5	47.6	48.8	49.5	51.1	71.1	71.1	71.1	71.1	
71.1										

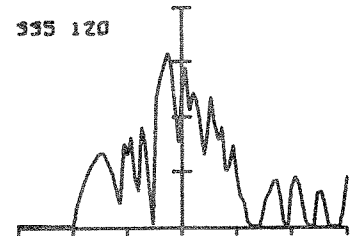
204 120



SAITHE 33.0 CM 120 KHZ FISH NO 335

65.5	65.5	65.5	65.5	71.5	71.5	71.5	71.5	71.5	71.5	
71.5	71.5	71.5	71.5	65.5	59.5	56.0	53.5	51.5	50.0	
48.6	47.5	46.4	46.4	47.5	49.3	50.7	53.5	56.0	44.7	
46.9	43.6	51.5	53.5	41.7	45.1	53.5	59.5	36.1	32.9	
30.3	28.2	30.3	37.1	44.7	35.3	30.9	38.9	35.6	37.1	
40.7	46.9	42.6	36.3	41.2	44.3	41.7	50.0	48.6	45.1	
50.7	54.6	56.0	59.5	65.5	65.5	62.0	57.6	54.6	53.5	
51.5	51.5	54.6	59.5	71.5	52.5	50.7	52.5	56.0	59.5	
71.5	59.5	53.5	53.5	56.0	62.0	71.5	62.0	59.5	56.0	
50.7										

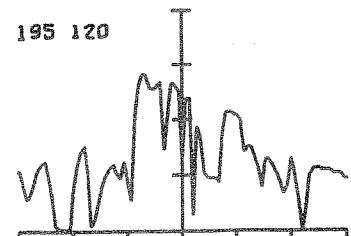
335 120



SAITHE 34.1 CM 120 KHZ FISH NO 195

49.1	51.4	54.5	53.4	51.4	49.1	47.9	47.3	49.8	53.4	
59.4	71.4	71.4	71.4	61.9	52.3	48.5	45.4	44.6	49.1	
59.4	57.4	54.5	51.4	49.8	48.5	47.9	49.8	50.6	47.3	
51.4	54.5	38.7	33.5	31.5	31.7	34.3	34.3	33.6	32.9	
45.4	38.9	33.2	33.8	34.9	47.3	35.8	36.1	57.4	41.0	
43.1	49.8	50.6	50.6	50.6	51.4	42.2	38.3	38.5	38.9	
39.4	40.0	45.8	44.6	45.0	46.8	49.1	52.3	46.0	47.3	
48.5	49.8	51.4	53.4	51.4	46.8	49.8	54.5	61.9	55.8	
49.8	48.5	48.5	49.1	49.1	49.1	49.8	49.8	49.8	50.6	
50.6										

195 120

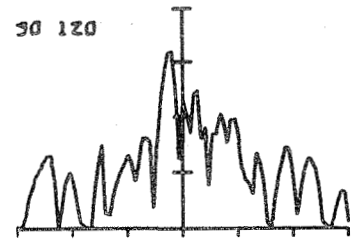




SAITHE AT 120 KHZ

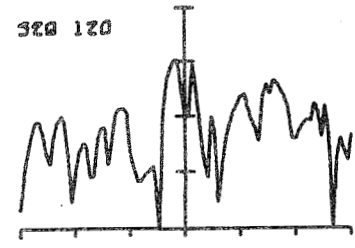
SAITHE 34.9 CM 120 KHZ FISH NO 3J

73.2	61.1	57.6	54.1	52.4	50.3	49.1	47.6	46.7	47.2
51.6	61.1	56.3	51.6	49.7	51.6	55.1	59.2	73.2	73.2
63.6	52.4	48.1	44.9	57.6	57.6	54.1	51.6	49.7	48.1
46.7	48.1	51.6	48.1	43.6	43.9	44.9	56.3	44.2	36.2
31.0	27.8	28.1	34.4	47.6	36.8	39.4	42.8	35.3	34.9
43.9	41.8	52.4	42.6	42.8	39.2	40.9	44.0	40.3	40.3
43.6	49.1	51.6	52.4	54.1	46.3	48.6	52.4	59.2	63.6
54.1	50.3	47.6	45.2	46.7	51.6	57.6	52.4	49.1	47.2
48.1	49.7	53.2	59.2	73.2	63.0	57.6	55.1	53.2	54.1
59.2									



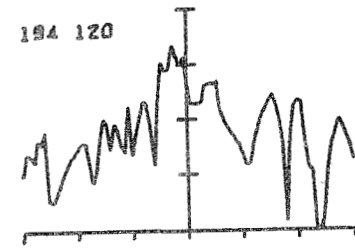
SAITHE 35.9 CM 120 KHZ FISH NO 329

57.0	49.4	45.4	42.7	40.6	40.9	43.4	46.9	48.7	43.7
40.6	39.8	41.4	47.4	55.4	49.4	45.9	44.5	45.9	51.0
50.1	43.7	41.7	42.3	48.7	43.4	39.1	38.1	38.3	39.6
46.9	49.4	51.9	51.0	50.1	49.4	48.7	52.9	61.4	39.4
32.8	30.7	29.3	29.7	35.4	40.1	39.4	30.4	35.0	40.9
47.4	51.0	39.8	43.0	55.4	48.0	43.7	41.1	38.9	37.3
35.8	35.7	38.7	40.9	42.3	44.5	35.8	33.9	35.8	33.2
34.3	35.4	36.6	38.5	44.1	43.7	42.0	40.6	40.3	40.9
37.3	39.1	43.7	37.7	43.4	61.4	46.9	43.7	45.9	48.0
43.0									



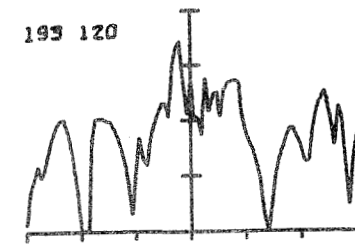
SAITHE 36.2 CM 120 KHZ FISH NO 194

49.7	45.9	47.0	47.6	43.7	44.5	42.2	55.0	55.0	53.6
51.5	49.7	48.3	47.0	45.9	45.0	44.1	44.5	47.6	51.5
49.7	43.3	39.9	41.0	45.4	40.7	42.2	45.0	45.9	37.5
46.5	42.6	39.2	36.6	37.5	41.3	48.3	37.1	29.5	31.2
30.5	26.4	28.3	30.1	28.6	33.0	37.1	37.1	36.9	36.4
33.4	33.3	33.8	32.9	38.3	40.4	41.6	42.6	43.7	45.0
46.5	48.3	47.6	44.1	41.6	39.4	37.9	36.6	35.4	36.9
40.2	45.0	58.5	42.9	36.9	36.4	37.3	45.0	49.0	49.7
70.5	70.5	56.6	49.0	44.5	41.9	39.9	41.3	42.9	45.0
47.6									



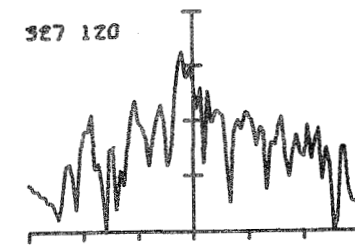
SAITHE 36.6 CM 120 KHZ FISH NO 193

58.9	52.9	50.2	48.1	50.2	48.7	45.4	43.0	41.2	39.9
39.6	41.4	43.7	47.5	52.9	71.0	71.0	71.0	43.0	39.4
39.6	39.9	40.1	40.4	41.4	43.0	45.0	47.5	51.0	57.0
49.4	43.0	46.9	48.1	43.4	40.6	38.5	36.8	36.8	39.2
29.3	26.5	25.5	33.0	38.9	32.2	39.4	39.9	42.7	32.1
38.3	35.0	35.0	39.4	34.0	33.1	32.5	32.6	33.3	39.4
42.4	44.1	45.9	48.1	51.0	57.0	71.0	55.4	50.2	46.9
44.5	42.7	41.2	41.7	43.4	45.0	47.5	46.9	41.7	38.5
36.2	34.5	36.7	39.9	44.5	37.5	39.6	47.5	55.4	46.9
42.7									



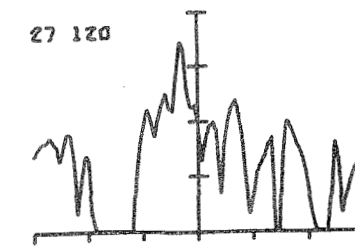
SAITHE 38.6 CM 120 KHZ FISH NO 327

51.8	52.7	52.7	53.7	53.7	54.9	54.9	56.2	57.8	54.9
48.2	47.7	50.2	56.2	45.7	41.7	41.9	38.7	48.8	47.7
51.8	59.7	44.9	44.5	56.2	48.8	51.8	44.5	39.3	36.2
40.6	41.4	43.5	48.2	42.8	39.5	37.1	40.4	48.2	45.7
34.3	29.4	27.2	32.2	30.5	33.1	37.8	33.8	47.7	34.6
40.4	38.1	38.7	39.3	45.7	54.9	41.7	39.7	41.7	38.3
39.3	40.4	44.5	41.1	42.2	52.7	43.6	44.5	41.1	39.1
46.7	50.2	45.7	42.5	46.2	46.7	40.6	47.1	43.1	41.4
50.9	44.9	48.2	59.7	57.8	44.5	45.3	52.7	54.9	54.9
56.2									



SAITHE 39.5 CM 120 KHZ FISH NO 27

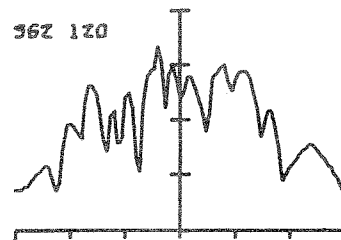
45.9	44.7	43.7	43.7	42.8	43.7	44.7	47.2	44.7	42.0
42.8	47.2	56.8	50.7	45.9	47.2	56.8	62.8	62.8	62.8
62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	50.7	43.7
40.5	37.7	39.9	42.8	39.3	36.8	34.8	37.7	38.2	31.9
25.4	27.1	34.5	37.7	36.8	40.5	47.2	42.8	40.5	39.9
42.0	53.2	43.7	39.9	37.2	35.9	38.7	42.8	50.7	56.8
53.2	48.8	47.2	45.9	43.7	42.8	62.8	62.8	45.9	39.9
41.2	42.8	44.7	45.9	48.8	53.2	56.8	62.8	62.8	62.8
62.8	53.2	43.7	47.2	56.8	53.2	50.7	48.8	47.2	44.7
43.7									



SAITHE AT 120 KHZ

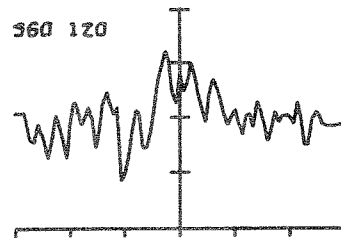
SAITHE 43.0 CM 120 KHZ FISH NO 362

53.0	53.0	52.0	52.0	51.1	50.3	49.5	48.3	48.2	48.8
51.1	53.0	51.1	44.7	40.7	40.7	41.6	42.5	43.5	36.6
33.6	34.2	35.3	38.4	43.5	46.0	38.9	38.2	44.3	43.2
35.4	34.9	38.2	47.0	49.5	36.8	31.9	30.7	30.5	26.4
29.9	38.0	31.3	30.3	32.6	36.0	35.0	32.0	32.5	34.1
36.1	38.6	42.2	38.6	32.0	31.1	30.4	29.8	32.9	34.9
32.5	31.2	31.3	31.5	32.5	34.9	38.0	43.2	40.7	38.2
38.9	41.6	45.5	51.1	49.5	48.2	47.6	46.5	45.5	45.1
44.3	44.7	45.5	46.5	47.0	48.2	48.8	50.3	51.1	53.0
53.0									



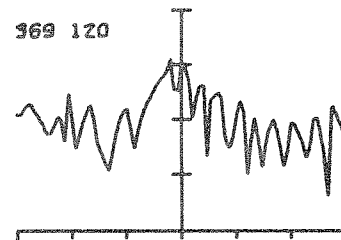
SAITHE 48.0 CM 120 KHZ FISH NO 360

38.9	38.9	38.9	41.3	44.2	44.6	41.0	42.3	44.6	47.3
43.4	39.4	41.3	43.8	47.3	40.5	36.8	38.5	41.3	39.6
37.8	40.5	45.4	41.9	30.9	35.1	37.6	39.4	37.8	51.4
49.8	46.8	41.6	38.3	39.6	45.4	45.0	42.2	38.2	33.0
29.9	27.6	29.6	35.7	37.4	31.8	35.1	33.2	29.8	32.2
35.6	38.7	40.8	35.3	32.8	34.5	36.6	39.2	41.3	39.4
38.2	41.0	43.1	39.4	39.2	41.6	36.9	38.7	41.0	44.2
41.0	38.7	40.8	39.4	39.2	40.0	41.0	36.9	40.0	45.0
44.6	39.8	38.7	39.8	41.3	41.6	41.3	41.3	41.0	41.0
40.8									



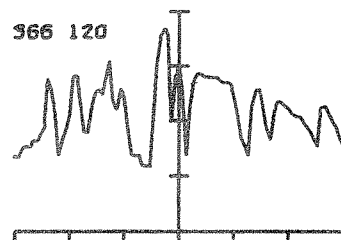
SAITHE 52.0 CM 120 KHZ FISH NO 369

38.9	38.9	37.5	37.1	37.9	38.9	40.1	41.2	42.8	42.4
40.9	39.4	40.4	43.9	35.2	39.9	45.2	42.4	40.1	38.5
37.1	40.1	44.7	46.1	47.8	49.2	46.1	42.8	40.1	38.3
37.9	41.2	45.2	42.1	39.0	37.7	36.1	34.9	33.7	32.7
31.8	30.7	28.8	34.6	34.8	29.8	30.5	33.2	39.6	36.1
33.7	34.0	46.7	36.1	35.5	35.0	36.6	43.5	45.2	42.8
39.1	36.6	38.7	49.9	43.5	39.6	43.9	48.5	44.3	41.5
39.9	41.8	44.7	48.5	45.2	40.4	41.2	42.8	44.3	46.7
45.2	39.6	39.6	42.4	46.1	53.8	37.5	38.9	40.4	42.1
44.3									



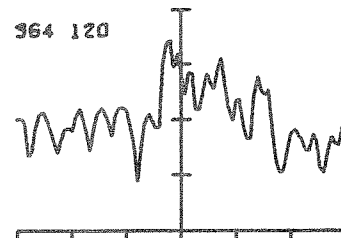
SAITHE 54.2 CM 120 KHZ FISH NO 366

46.3	46.3	44.7	44.7	44.7	43.4	43.4	42.2	41.2	32.3
34.7	38.7	46.3	43.4	41.2	38.7	31.6	32.0	37.3	42.2
42.2	37.3	34.7	34.2	35.2	31.6	29.1	30.7	38.0	34.2
35.7	41.2	46.3	46.3	46.3	48.2	48.2	46.2	39.4	29.6
24.0	23.0	24.4	40.3	31.6	29.9	34.7	46.3	37.3	32.7
31.3	31.6	32.0	32.0	32.3	32.3	32.7	33.0	33.0	33.4
35.7	38.7	43.4	44.7	45.3	37.3	34.2	34.2	37.3	41.2
43.4	38.7	36.2	36.7	37.3	38.0	38.7	37.4	39.4	40.3
41.2	42.2	43.4	44.7	37.3	37.3	38.7	40.3	41.2	43.4
44.7									



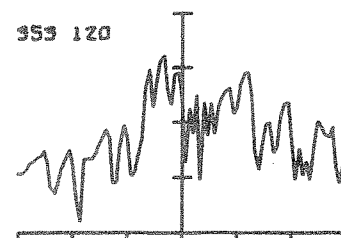
SAITHE 54.5 CM 120 KHZ FISH NO 364

39.7	39.7	41.2	46.7	45.7	41.5	38.8	33.6	39.9	41.7
44.1	46.2	43.7	41.7	41.5	42.3	39.5	38.0	39.9	42.3
45.7	41.2	38.6	37.8	33.8	40.7	43.0	34.8	37.7	38.0
38.6	41.2	44.8	51.3	45.3	40.4	38.8	40.2	41.7	41.2
29.1	25.9	25.4	30.6	29.0	31.3	35.6	31.4	31.9	38.4
38.0	34.4	31.7	33.4	34.5	30.6	28.7	33.4	38.0	40.2
36.3	36.6	41.5	43.7	43.3	35.4	32.1	35.0	35.7	34.6
42.7	47.8	49.7	49.0	45.3	42.3	41.7	43.0	44.1	45.7
45.7	42.7	44.1	49.0	49.7	45.7	43.0	44.4	44.8	41.2
41.7									



SAITHE 55.0 CM 120 KHZ FISH NO 353

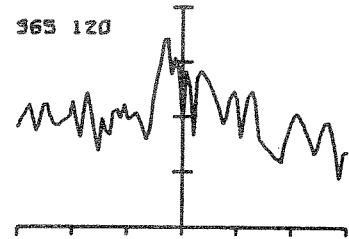
49.1	49.1	48.5	47.4	46.9	46.5	46.0	45.2	47.4	52.1
53.0	50.5	48.0	46.5	44.8	48.0	54.0	58.1	46.5	46.5
46.5	45.6	43.8	42.5	41.2	42.8	51.2	50.5	43.8	40.2
43.1	49.8	48.5	45.2	42.8	43.4	30.3	37.2	32.3	28.4
27.6	34.4	36.8	31.0	30.8	36.1	47.4	37.4	42.0	34.9
50.5	36.2	42.5	36.3	42.0	36.5	34.9	33.8	33.6	38.4
36.9	32.6	30.8	31.0	34.8	45.6	48.5	43.4	40.0	40.0
45.6	44.1	38.6	36.3	36.5	43.4	50.5	44.5	49.8	46.9
50.5	44.1	39.6	40.7	42.2	42.8	40.7	48.0	51.2	47.4
44.5									



SAITHE AT 120 KHZ

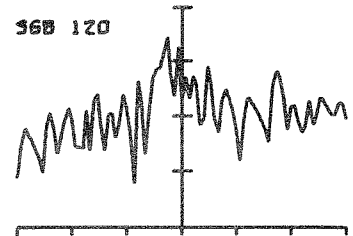
SAITHE 55.0 CM 120 KHZ FISH NO 365

41.5	40.0	38.9	37.7	40.0	42.7	40.2	37.6	37.9	40.2
41.8	41.3	40.7	40.2	39.8	37.2	40.7	43.8	38.7	35.5
38.5	43.4	46.3	40.2	42.7	43.4	38.9	38.5	40.2	37.7
40.5	39.8	39.1	40.5	42.1	44.1	41.8	36.1	32.8	30.2
25.7	25.9	32.4	29.2	31.8	41.3	31.6	34.8	43.4	32.6
31.5	32.6	33.7	35.1	36.7	38.7	41.3	37.8	36.4	35.2
36.9	43.8	39.1	36.1	35.2	36.9	44.1	44.9	45.8	46.3
47.3	47.8	48.4	44.9	42.4	40.5	39.3	40.2	41.5	43.1
44.5	46.8	45.3	42.7	41.0	41.3	43.4	46.8	51.4	46.3
46.3									



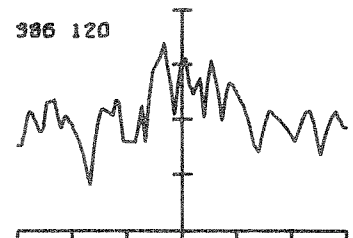
SAITHE 55.0 CM 120 KHZ FISH NO 368

51.2	45.2	42.0	43.5	44.7	46.2	48.0	50.3	41.7	39.2
42.4	46.8	43.5	40.5	38.3	40.8	45.7	45.7	45.7	38.7
46.2	36.7	35.7	42.0	46.2	39.2	39.9	43.9	41.1	36.0
38.7	43.1	52.2	33.4	37.6	46.8	38.7	32.7	31.2	30.7
28.0	25.5	32.9	36.3	27.4	36.9	32.6	36.7	32.5	34.5
41.7	39.9	30.8	34.3	40.5	43.1	36.7	34.9	36.7	39.2
42.7	48.0	40.2	36.5	37.4	38.5	39.7	41.1	42.7	44.7
33.9	31.7	33.0	36.5	42.4	37.8	38.1	41.1	43.1	41.1
36.9	41.7	39.2	36.3	37.4	38.7	39.9	39.4	37.4	38.1
40.5									



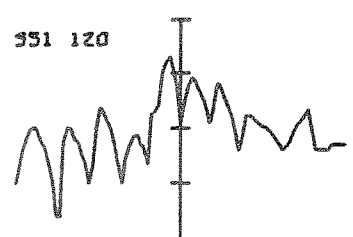
SAITHE 56.5 CM 120 KHZ FISH NO 366

44.4	44.4	41.0	38.4	39.1	40.4	42.4	41.4	36.7	36.4
36.2	39.4	41.7	39.1	40.2	41.4	42.7	44.4	46.5	49.2
51.9	44.4	40.4	37.9	38.4	38.9	39.4	36.2	37.1	44.0
44.0	44.0	44.0	41.0	37.3	44.0	35.3	30.7	29.6	28.5
25.9	30.4	33.9	39.1	32.6	26.9	28.9	33.9	35.5	33.6
32.3	39.6	33.1	29.2	31.8	35.5	40.2	35.7	33.2	34.1
35.2	36.5	37.9	39.9	42.0	44.9	45.9	42.7	40.2	38.4
39.1	39.6	40.4	41.0	42.0	43.1	44.0	41.7	39.9	38.4
38.2	40.4	43.5	46.5	43.5	41.0	39.4	33.4	39.9	41.4
41.4									



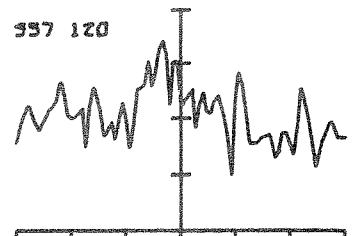
SAITHE 57.0 CM 120 KHZ FISH NO 351

49.9	46.4	42.9	41.1	39.7	39.7	41.1	42.9	43.9	46.4
49.9	55.9	55.9	42.0	39.7	40.4	42.0	42.9	45.1	46.4
49.9	46.4	39.7	35.9	37.4	39.0	40.4	42.9	46.4	49.9
45.1	42.9	41.1	41.1	42.9	43.9	46.4	36.9	36.4	35.5
29.3	27.6	26.7	29.1	32.7	39.0	35.5	31.9	30.6	31.6
33.0	34.7	36.4	39.0	36.4	31.6	32.7	34.4	35.9	37.9
40.4	43.9	41.1	37.4	37.9	38.4	39.0	39.7	39.7	40.4
41.1	42.0	42.9	43.9	42.9	42.0	40.4	39.0	38.4	37.4
36.4	40.4	43.9	43.9	43.9	43.9	42.9	42.9	42.9	42.9
42.9									



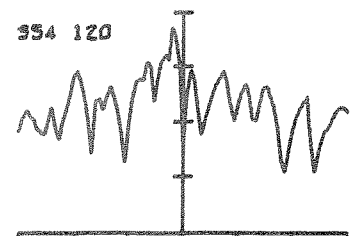
SAITHE 60.5 CM 120 KHZ FISH NO 357

43.9	41.1	38.9	37.4	36.9	40.8	42.2	40.5	39.4	38.1
37.2	36.1	33.1	35.2	37.6	40.0	39.4	38.5	37.9	45.2
36.1	34.1	36.1	38.9	43.2	41.6	40.5	43.6	40.5	37.0
40.3	45.2	40.5	34.3	34.1	33.3	29.5	34.1	31.4	27.6
25.6	28.3	37.4	29.4	29.7	37.7	36.5	35.3	34.4	41.6
37.4	34.9	38.9	39.1	36.7	35.6	37.6	40.0	43.6	50.3
36.5	31.4	34.5	39.4	44.7	44.3	43.9	43.2	42.9	42.5
44.3	47.1	45.6	42.2	42.9	44.7	46.6	41.1	34.4	36.7
39.6	44.3	48.9	46.1	43.6	41.6	40.3	41.6	43.6	43.6
43.6									



SAITHE 68.0 CM 120 KHZ FISH NO 354

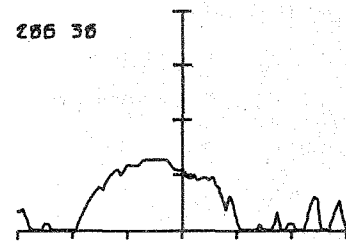
41.4	39.1	37.9	39.1	39.8	41.4	42.3	42.3	39.8	37.3
41.4	43.3	39.8	37.9	34.9	31.8	30.8	33.1	35.8	39.8
45.8	35.8	35.8	37.9	35.4	33.4	35.4	37.9	41.4	47.4
40.0	35.8	32.4	32.1	32.4	29.1	30.3	36.3	32.1	28.9
27.9	28.9	22.9	24.5	29.8	44.5	34.9	30.5	32.4	37.9
42.3	39.1	36.8	34.9	33.1	31.8	30.3	32.8	36.8	39.8
36.8	34.5	33.1	34.9	39.8	39.8	36.3	33.8	33.4	35.4
37.9	41.4	47.4	49.3	44.5	41.4	39.1	37.3	36.3	35.4
43.3	49.3	45.8	43.3	41.4	40.6	39.1	37.9	37.3	37.9
38.5									



DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF SPRAT AT 38 KHZ

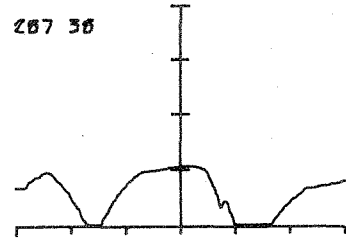
SPRAT 6.6 CM 38 KHZ FISH NO 286

56.7	56.0	57.6	59.6	62.2	62.2	60.3	58.7	59.0	60.3
61.8	63.7	66.0	69.2	64.2	61.4	59.3	57.6	56.2	54.8
53.8	52.8	52.0	52.8	51.2	49.9	49.3	48.7	50.0	48.7
47.8	48.5	48.3	47.8	47.4	47.0	46.9	47.0	47.0	47.0
47.1	47.6	48.4	49.1	49.2	48.8	50.4	50.6	49.7	51.0
50.4	50.2	51.2	50.3	51.5	52.8	54.5	56.4	53.8	55.6
58.7	63.7	64.2	62.2	61.0	60.0	59.0	64.2	68.3	62.7
59.0	56.7	70.2	62.7	58.7	59.0	63.7	67.4	61.4	58.2
55.6	53.8	54.8	68.3	63.2	60.0	57.6	55.8	54.5	58.4
66.0									



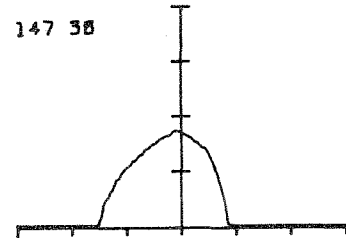
SPRAT 7.6 CM 38 KHZ FISH NO 287

53.6	53.6	53.0	52.4	51.8	51.3	51.0	50.5	50.1	50.6
51.3	52.0	52.7	53.4	54.2	55.3	56.3	57.5	58.8	60.4
62.8	64.3	61.9	60.1	58.5	57.2	56.1	55.1	54.0	53.3
52.5	51.8	51.2	50.6	50.1	50.0	49.9	49.8	49.7	49.6
49.5	49.4	49.3	49.2	49.1	49.0	49.0	49.2	49.4	49.6
49.8	50.0	50.4	51.6	53.1	54.7	56.8	55.3	56.3	58.5
61.1	65.4	72.8	74.4	70.3	66.8	64.8	63.3	61.9	60.8
59.4	58.5	57.7	57.0	56.1	55.5	54.9	54.4	53.9	53.3
53.1	53.0	52.8	52.7	52.5	52.4	52.2	52.1	52.0	51.8
51.7									



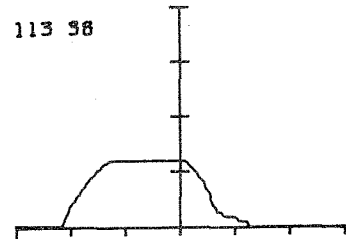
SPRAT 8.1 CM 38 KHZ FISH NO 147

77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
68.2	62.2	59.7	57.8	55.5	54.2	53.2	51.7	50.9	49.8
49.1	48.5	47.7	47.1	46.6	45.9	45.5	44.9	44.5	44.1
43.6	43.3	43.0	42.5	42.5	43.0	43.3	43.8	44.3	44.7
45.3	45.7	46.4	47.7	49.1	50.9	53.2	55.5	59.7	68.2
77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
77.8									



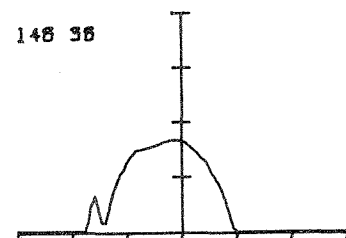
SPRAT 8.2 CM 38 KHZ FISH NO 113

78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
68.6	64.2	61.3	59.1	57.3	55.9	55.2	54.1	53.1	52.1
51.3	50.6	49.9	49.2	48.6	48.1	47.8	47.8	47.8	47.8
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
47.8	47.8	47.8	47.8	47.8	47.8	47.8	48.6	49.2	49.9
50.9	51.7	53.1	54.1	55.9	57.3	57.3	58.2	58.2	58.2
58.2	59.1	59.1	59.1	60.1	60.1	60.1	60.1	61.3	61.3
61.3	62.6	62.6	64.2	72.1	78.2	78.2	78.2	78.2	78.2
78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
78.2									



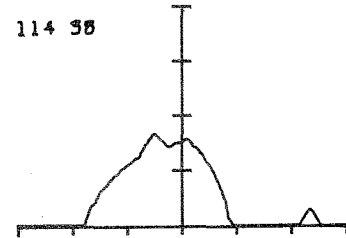
SPRAT 8.4 CM 38 KHZ FISH NO 148

77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
77.4	77.4	77.4	77.4	77.4	77.4	77.4	67.9	61.9	58.3
55.1	53.3	55.8	58.3	58.3	55.1	52.8	51.0	49.5	48.2
47.0	46.1	45.2	45.0	44.8	44.6	44.4	44.2	44.0	43.8
43.4	43.3	43.1	43.3	43.4	43.6	43.8	44.4	45.0	45.6
46.3	47.0	47.9	49.1	50.2	51.4	52.8	54.5	56.6	59.4
65.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
77.4									



SPRAT 8.7 CM 38 KHZ FISH NO 114

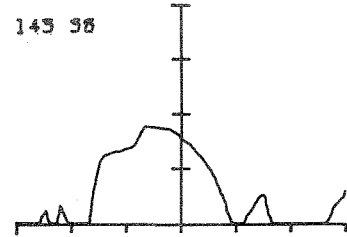
77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
77.8	77.8	77.8	77.8	71.8	65.8	63.9	60.9	59.8	57.8
56.3	55.6	54.3	53.2	52.7	51.8	51.0	50.6	49.9	49.2
48.9	48.3	47.7	47.5	46.5	45.2	44.2	43.2	43.7	44.2
44.8	45.6	45.4	45.0	44.8	44.6	44.2	44.6	45.4	46.0
46.7	47.7	48.6	49.5	50.6	52.3	53.8	55.6	58.8	62.3
68.3	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
71.8	68.3	65.8	63.9	62.3	62.3	60.9	59.8	58.8	57.8
57.0	57.8	58.8	60.9	62.3	63.9	65.8	71.8	77.8	77.8
77.8									



SPRAT AT 38 KHZ

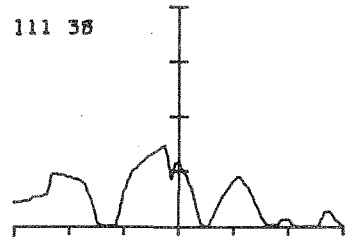
SPRAT 10.5 CM 38 KHZ FISH NO 143

77.5	77.5	77.5	77.5	77.5	67.9	61.9	58.4	57.5	65.4
67.9	60.6	56.6	58.4	67.9	77.5	77.5	77.5	77.5	77.5
59.4	53.9	51.0	48.5	47.4	47.1	46.8	46.6	46.6	46.3
46.1	45.9	45.6	44.6	43.0	42.2	42.4	42.5	42.5	42.7
42.8	42.8	43.0	43.3	43.8	44.4	45.0	45.4	46.1	46.8
47.6	48.5	49.2	50.2	51.4	52.9	54.5	55.9	58.4	61.9
65.4	61.9	60.6	58.4	57.5	56.6	55.2	54.5	55.2	58.4
65.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
77.5	71.4	65.4	63.5	61.9	59.4	58.4	56.6	55.9	55.2
53.9									



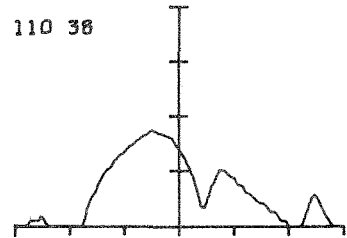
SPRAT 11.0 CM 38 KHZ FISH NO 111

55.8	55.8	55.2	55.2	55.2	54.6	54.6	54.6	54.1	54.1
50.4	50.4	50.8	50.8	51.1	51.1	51.5	51.5	51.9	52.3
53.6	55.2	57.1	59.6	63.2	69.2	78.7	66.7	59.6	56.4
53.6	51.5	49.8	49.2	48.6	48.1	47.4	46.9	46.5	46.1
45.5	45.1	47.6	51.5	48.1	48.6	49.8	51.1	52.7	54.1
56.4	59.6	63.2	60.7	58.7	57.1	55.8	54.6	53.6	52.3
51.5	50.8	51.5	52.3	53.1	54.1	55.8	57.1	58.7	59.6
59.6	59.6	59.6	58.7	58.7	58.7	59.6	61.8	64.7	69.2
78.7	72.7	66.7	61.8	58.7	57.1	57.1	57.9	58.7	59.6
60.7									



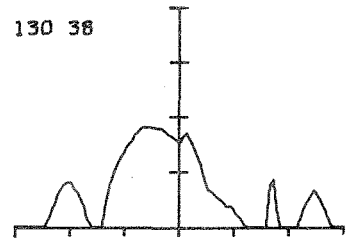
SPRAT 12.0 CM 38 KHZ FISH NO 110

61.2	60.1	60.1	60.1	59.0	59.0	59.0	58.1	59.0	61.2
66.1	72.1	78.1	78.1	78.1	78.1	78.1	66.1	62.6	59.0
56.5	54.6	53.5	52.1	50.9	49.8	49.2	48.3	47.5	46.8
46.3	45.7	45.1	44.5	44.0	43.6	43.2	42.7	42.7	43.0
43.3	43.5	43.8	44.1	45.1	46.1	47.0	48.3	49.8	51.3
53.5	56.5	56.5	54.6	52.5	51.3	49.8	49.8	50.2	50.9
51.3	52.1	52.5	53.5	54.0	54.6	55.2	55.8	55.8	56.5
57.3	57.3	58.1	59.0	59.0	60.1	61.2	61.2	62.6	59.0
57.3	55.2	54.0	55.2	56.5	58.1	59.0	61.2	64.1	68.6
72.1									



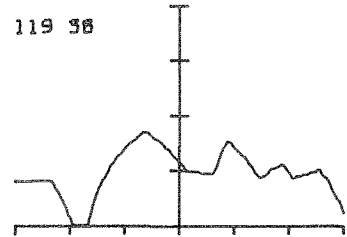
SPRAT 12.5 CM 38 KHZ FISH NO 130

77.8	77.8	77.8	77.8	77.8	77.8	68.2	63.8	60.9	58.7
57.0	55.5	53.7	52.7	51.8	51.8	52.7	53.7	54.9	56.2
58.7	60.9	63.8	68.2	59.7	55.5	52.7	50.6	48.8	47.4
46.2	45.1	44.2	43.1	42.4	41.8	41.8	41.9	41.9	42.1
42.1	42.5	43.0	43.5	44.0	44.5	43.8	42.8	44.0	45.3
46.9	48.8	51.3	53.2	53.7	54.3	54.9	55.5	56.2	56.2
57.0	57.8	58.7	59.7	60.9	62.2	62.2	63.8	65.7	65.7
52.2	51.3	57.0	71.8	71.8	65.7	63.8	60.9	58.7	57.0
55.5	54.3	53.2	54.3	55.5	57.0	58.7	60.9	63.8	68.2
77.8									



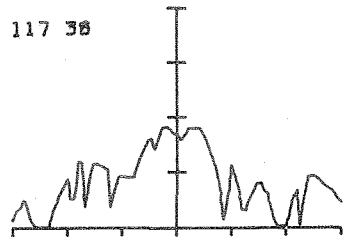
SPRAT 12.7 CM 38 KHZ FISH NO 119

52.2	52.2	52.2	52.2	52.2	51.8	51.8	51.8	51.8	51.8
52.2	53.2	54.3	55.5	57.0	58.7	60.9	63.8	68.3	65.8
59.7	57.0	54.9	53.2	51.8	50.6	49.2	48.3	47.4	46.7
46.0	45.1	44.6	44.0	43.5	43.0	43.2	43.7	44.2	44.6
45.1	45.8	46.2	46.9	47.7	48.6	49.2	50.2	50.2	50.2
50.2	50.6	50.6	50.6	50.6	49.5	47.7	46.0	44.7	45.1
45.8	46.4	47.2	47.7	48.6	49.5	50.6	51.4	51.0	50.6
49.8	49.5	49.2	48.9	49.5	50.2	51.4	51.0	51.0	50.6
50.6	50.2	50.2	49.8	50.6	51.4	52.2	53.7	54.9	56.2
57.8									



SPRAT 12.9 CM 38 KHZ FISH NO 117

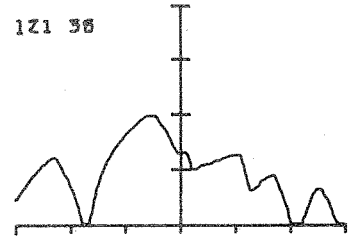
58.8	57.0	56.3	54.9	56.3	58.8	62.3	68.3	71.8	63.9
59.8	57.0	55.6	53.8	52.3	51.0	54.9	54.3	47.8	48.6
56.3	51.0	48.3	48.6	48.9	49.2	49.6	56.3	53.2	50.6
50.6	51.0	51.0	51.0	48.9	47.2	45.6	44.2	43.7	46.0
43.5	41.6	41.7	42.3	42.9	43.4	44.1	43.2	41.9	41.9
41.9	41.9	42.9	44.2	45.8	47.8	49.9	53.2	58.8	54.9
48.6	50.6	53.2	57.0	57.0	54.9	53.2	51.8	51.8	53.2
54.3	56.3	58.8	61.0	65.8	63.9	57.9	54.3	53.2	59.8
54.9	50.6	50.6	51.0	51.4	52.3	52.8	53.2	53.8	54.9
55.6									



SPRAT AT 38 KHZ

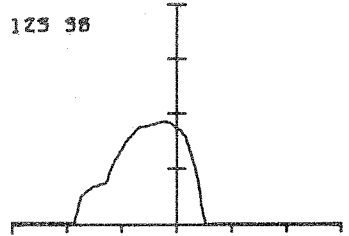
SPRAT 13.1 CM 38 KHZ FISH NO 121

55.7	54.4	53.4	52.4	51.5	50.7	50.0	49.3	48.7	48.1
47.6	48.4	49.3	50.7	51.9	53.4	55.0	57.1	59.9	64.0
59.9	56.4	53.4	51.5	49.7	48.1	47.1	45.9	45.1	44.2
43.3	42.7	42.0	41.4	40.8	40.3	39.9	40.0	40.3	41.2
42.1	43.2	44.3	45.7	47.1	46.8	46.6	47.9	50.0	49.7
49.3	49.0	48.7	48.7	48.4	48.1	47.9	47.6	47.3	47.1
47.1	47.3	49.0	51.5	53.9	53.4	52.9	51.9	51.5	51.1
50.7	51.9	53.4	55.0	57.1	59.9	64.0	62.4	59.9	58.0
56.4	54.4	53.4	53.4	54.4	55.7	57.1	58.9	61.1	64.0
71.9									



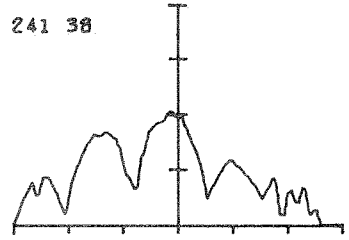
SPRAT 13.2 CM 38 KHZ FISH NO 123

77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
77.6	77.6	77.6	77.6	77.6	68.0	62.0	59.5	56.8	54.7
54.1	53.5	53.0	53.0	52.5	52.5	52.0	50.0	48.6	47.2
46.2	45.1	44.1	43.4	42.6	42.2	42.0	41.9	41.6	41.5
41.3	41.2	41.3	41.7	42.2	42.6	43.1	44.1	45.5	47.5
49.6	52.5	57.6	68.0	77.6	77.6	77.6	77.6	77.6	77.6
77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
77.6									



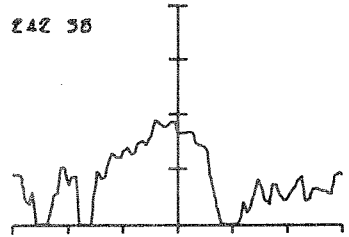
SPRAT 15.7 CM 38 KHZ FISH NO 241

78.2	58.2	55.9	54.7	53.6	52.2	54.7	54.1	51.3	51.3
52.2	53.6	54.7	56.6	58.2	55.3	52.2	49.9	48.4	46.8
45.5	44.4	43.4	44.0	43.7	43.1	43.5	44.0	44.6	46.1
48.9	51.0	52.2	53.6	52.6	47.6	45.9	42.9	42.2	41.5
41.2	40.9	39.6	39.3	40.2	40.2	40.2	42.3	43.9	45.3
46.8	48.9	51.7	55.3	53.6	52.2	51.0	49.9	48.9	48.1
48.6	49.2	49.9	50.6	51.3	52.2	53.1	54.1	55.3	54.1
52.6	51.3	52.6	58.2	58.2	54.1	53.6	55.9	55.9	53.1
54.1	58.2	57.4	57.4	61.3	72.2	78.2	78.2	78.2	78.2
78.2									



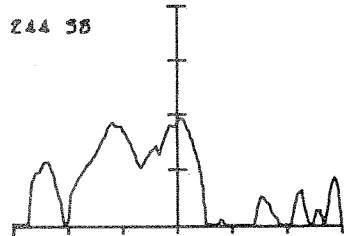
SPRAT 16.0 CM 38 KHZ FISH NO 242

51.2	51.2	51.6	55.8	56.5	54.0	60.0	78.0	78.0	64.1
57.2	54.5	54.0	49.4	50.1	52.9	51.2	51.2	64.1	78.0
78.0	78.0	54.5	50.1	51.6	51.2	48.5	46.9	47.9	47.7
46.5	46.0	47.2	46.7	45.2	44.6	45.6	44.4	42.8	40.9
41.9	42.3	41.8	41.3	41.4	43.4	43.2	43.1	42.9	43.6
45.4	45.8	46.0	46.7	51.2	54.5	58.0	64.1	78.0	78.0
78.0	66.0	59.0	55.8	58.0	56.5	54.0	51.6	53.4	55.8
56.5	52.5	52.9	54.5	55.8	55.1	54.0	52.9	51.6	51.2
55.8	55.1	53.4	53.4	54.0	54.0	54.5	54.5	51.2	50.4
51.2									



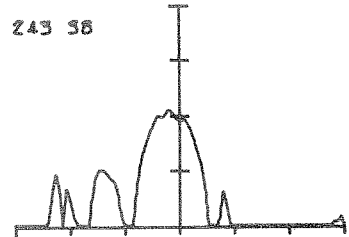
SPRAT 16.0 CM 38 KHZ FISH NO 244

78.0	66.0	78.0	78.0	60.0	52.4	50.1	50.1	48.8	48.2
49.4	51.2	53.4	55.7	60.0	58.9	53.9	52.4	51.2	50.1
49.1	48.2	47.4	46.4	45.1	43.7	42.3	41.2	42.2	41.9
42.9	43.9	45.1	46.7	48.5	49.7	48.2	47.1	46.2	45.6
47.1	45.0	43.2	41.8	42.2	41.2	40.4	41.5	42.9	44.6
46.7	49.4	53.4	60.0	78.0	78.0	60.0	58.9	60.0	60.0
61.1	78.0	78.0	72.0	72.0	72.0	61.1	56.4	54.5	55.7
56.4	58.0	58.9	61.1	62.5	66.0	60.0	56.4	53.9	53.4
57.2	64.0	68.5	57.2	57.2	66.0	57.2	52.9	51.2	53.4
78.0									



SPRAT 16.5 CM 38 KHZ FISH NO 243

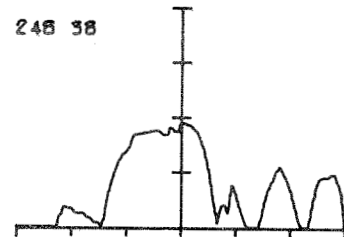
78.2	60.1	60.1	61.3	64.2	66.1	68.6	78.2	78.2	59.1
53.6	50.2	53.1	60.1	53.1	55.2	58.2	78.2	78.2	78.2
61.3	54.6	50.9	49.5	49.9	50.6	51.3	52.1	53.6	58.2
68.6	78.2	66.1	54.6	49.9	46.8	44.5	42.7	41.3	40.0
40.2	39.5	38.7	39.6	40.5	41.0	40.4	41.4	42.7	44.4
46.6	49.2	53.1	60.1	78.2	78.2	58.2	53.6	55.9	60.1
66.1	66.1	64.2	62.6	61.3	60.1	61.3	66.1	72.1	78.2
78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
62.6	62.6	61.3	61.3	60.1	60.1	60.1	59.1	59.1	58.2
78.2									



SPRAT AT 38 KHZ

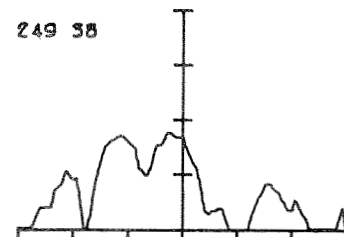
SPRAT 16.6 CM 38 KHZ FISH NO 248

78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	68.7
62.6	59.1	57.4	55.9	56.6	56.6	57.4	57.4	57.4	57.4	58.2
58.2	59.1	59.1	60.1	58.2	54.1	51.8	49.6	47.8	46.6	
45.9	44.9	42.9	42.8	42.6	42.5	42.4	42.2	42.1	42.5	
43.2	43.1	41.7	42.4	42.6	40.7	41.1	41.4	41.9	42.4	
43.7	45.5	47.8	51.0	55.3	59.1	55.9	55.9	57.4	52.2	
53.6	55.9	58.2	61.3	68.7	72.2	62.6	58.2	55.3	53.1	
51.4	49.9	48.7	49.9	51.4	53.1	55.3	58.2	62.6	72.2	
60.1	55.9	52.6	51.0	50.6	50.6	50.2	50.2	51.8	54.1	
78.2										



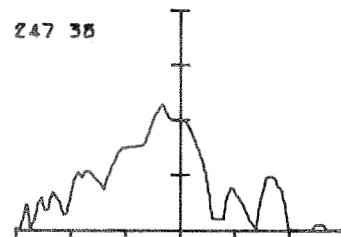
SPRAT 17.5 CM 38 KHZ FISH NO 249

78.2	68.6	64.2	61.3	59.1	57.4	55.9	55.9	55.9	55.9	
52.6	52.2	51.3	49.2	50.2	51.0	50.6	54.7	62.6	68.6	
56.6	51.7	48.9	46.6	44.7	43.9	43.5	43.2	42.8	43.4	
44.0	44.7	45.5	48.9	49.6	50.2	48.9	46.4	44.6	44.6	
43.4	42.2	42.6	43.2	43.2	43.1	45.1	46.8	48.1	49.2	
51.7	56.6	57.4	56.6	56.6	55.9	56.6	58.2	60.1	64.2	
68.6	68.6	62.6	60.1	57.4	55.9	54.1	53.1	51.7	51.7	
52.6	53.1	54.1	55.3	56.6	56.6	54.7	55.9	57.4	58.2	
60.1	62.6	66.1	72.2	78.2	78.2	66.1	61.3	58.2	55.9	
78.2										



SPRAT 17.6 CM 38 KHZ FISH NO 247

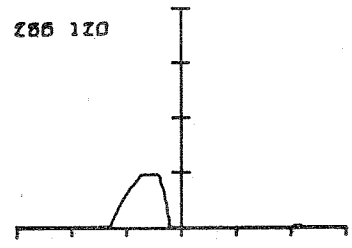
78.1	60.1	57.3	55.2	62.6	58.1	55.2	54.1	56.6	55.9	
53.0	54.1	55.2	57.3	56.6	53.5	50.9	49.2	50.5	49.2	
49.5	50.2	50.9	51.7	52.6	50.5	48.9	47.3	45.9	44.9	
44.9	44.7	44.7	44.5	44.5	44.3	42.6	40.9	39.3	38.1	
37.0	38.4	39.8	40.1	40.3	40.3	40.1	41.1	42.3	43.7	
45.3	47.3	49.8	53.0	58.1	58.1	58.1	58.1	54.1	52.1	
53.0	54.1	55.2	56.6	58.1	59.1	60.1	55.2	52.6	50.2	
50.2	50.9	52.1	53.0	55.9	78.1	78.1	78.1	78.1	72.1	
66.1	61.2	59.1	59.1	59.1	60.1	61.2	78.1	78.1	78.1	
78.1										



DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF SPRAT AT 120 KHZ

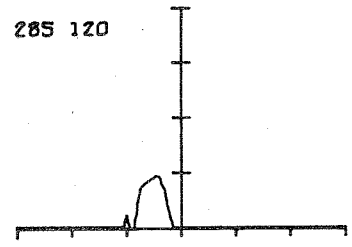
SPRAT 6.6 CM 120 KHZ FISH NO 284

81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
81.7	81.7	75.7	67.7	63.6	60.9	58.8	57.6	56.1	54.8	
53.7	52.8	51.9	51.1	50.3	50.3	50.3	50.1	50.1	50.8	
53.1	55.7	60.1	67.7	75.7	72.2	69.7	67.7	66.1	64.8	
63.6	62.6	61.7	61.7	66.1	72.2	81.7	81.7	81.7	81.7	
81.7	81.7	81.7	81.7	81.7	75.7	75.7	75.7	75.7	75.7	
75.7	75.7	75.7	72.2	66.1	61.7	59.4	59.4	60.1	60.1	
60.1	60.9	60.9	61.7	61.7	61.7	62.6	62.6	62.6	63.6	
81.7										



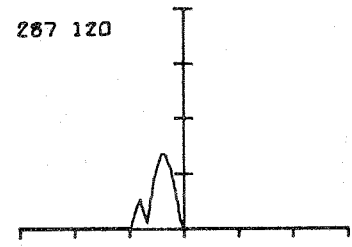
SPRAT 7.3 CM 120 KHZ FISH NO 285

81.0	81.0	81.0	81.0	81.0	81.0	75.0	75.0	75.0	69.0	
67.1	65.5	63.0	63.0	65.5	69.0	75.0	81.0	81.0	81.0	
81.0	81.0	75.0	75.0	75.0	75.0	75.0	75.0	67.1	61.0	
57.5	61.0	60.2	55.5	52.4	51.8	51.2	50.9	50.4	50.9	
52.7	55.0	58.1	61.0	61.7	63.0	64.1	65.5	67.1	69.0	
69.0	71.5	75.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	
81.0	81.0	81.0	64.1	61.0	63.0	67.1	75.0	69.0	64.1	
61.0	64.1	49.0	75.0	75.0	75.0	75.0	75.0	81.0	81.0	
81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	
81.0										



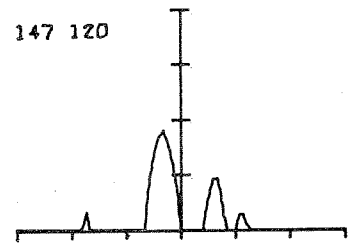
SPRAT 7.6 CM 120 KHZ FISH NO 287

80.6	80.6	71.1	71.1	71.1	74.6	74.6	74.6	80.6	80.6	
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	74.6	65.1	
61.5	58.3	56.0	54.6	57.1	59.0	53.8	50.5	48.2	46.3	
46.8	48.6	50.8	53.8	58.3	68.6	74.6	74.6	74.6	74.6	
74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	
74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	80.6	80.6	
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	
80.6										



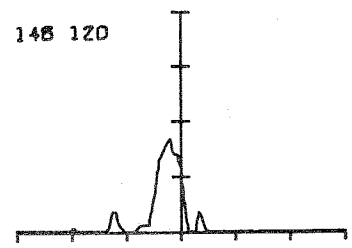
SPRAT 8.1 CM 120 KHZ FISH NO 147

81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	
69.7	66.1	66.1	66.1	64.8	64.8	66.1	72.2	58.8	56.6	
67.7	81.7	81.7	63.7	63.7	69.7	81.7	81.7	81.7	81.7	
81.7	81.7	81.7	81.7	81.7	60.9	52.5	48.1	45.2	43.0	
41.8	43.5	45.6	48.5	52.8	60.9	81.7	81.7	81.7	81.7	
69.7	60.1	55.7	52.8	50.6	50.6	53.1	57.6	66.1	69.7	
61.7	57.1	57.1	58.8	60.9	64.8	69.7	81.7	81.7	81.7	
81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	69.7	
63.7	63.7	81.7	69.7	66.1	63.7	60.9	62.6	75.7	81.7	
81.7										



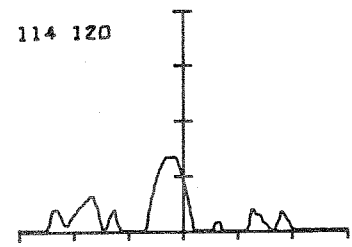
SPRAT 8.4 CM 120 KHZ FISH NO 148

82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	
82.2	76.2	68.2	64.1	60.6	59.3	59.9	59.9	60.6	61.4	
61.4	62.2	65.3	68.2	64.1	59.3	56.2	56.6	58.7	62.2	
65.3	64.1	62.2	59.3	58.7	58.7	58.7	55.3	52.6	46.9	
45.4	44.1	43.1	45.8	46.2	48.9	54.6	64.1	68.2	59.9	
56.2	58.1	60.6	64.1	68.2	66.6	65.3	66.6	70.1	76.2	
82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	
82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	
76.2	70.1	66.6	63.1	61.4	62.2	63.1	63.1	62.2	62.2	
63.1										



SPRAT 8.7 CM 120 KHZ FISH NO 114

82.0	70.0	63.9	61.2	62.9	63.9	66.4	63.9	59.1	56.0	
56.0	52.9	58.5	59.1	57.9	56.9	56.0	55.2	54.4	53.7	
53.4	55.2	57.4	60.4	59.1	56.9	56.0	58.5	62.0	68.0	
82.0	82.0	82.0	82.0	68.0	59.1	54.8	51.9	49.8	48.0	
46.6	46.3	46.4	46.7	48.4	50.4	52.8	56.4	62.9	66.4	
66.4	68.0	68.0	66.4	58.5	58.5	62.9	65.1	65.1	65.1	
65.1	65.1	65.1	59.1	56.0	56.9	57.4	58.5	59.1	60.4	
61.2	58.5	56.4	57.4	58.5	59.7	61.2	62.9	65.1	70.0	
76.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	
82.0										



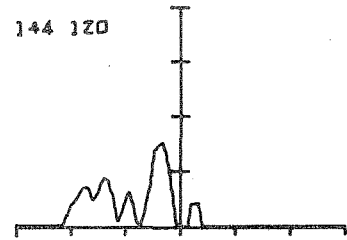


SPRAT AT 120 KHZ

SPRAT 9.6 CM 120 KHZ FISH NO 144

82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	72.6
66.6	63.0	61.3	59.2	57.5	56.1	55.3	54.2	53.2	52.6	
53.5	55.3	54.2	52.6	51.2	51.7	53.5	55.7	59.2	57.5	
55.3	53.5	54.1	59.2	64.1	56.0	54.5	52.0	46.0	45.2	
44.5	46.3	49.4	54.2	66.6	82.1	82.1	61.3	55.7	55.7	
55.7	70.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	

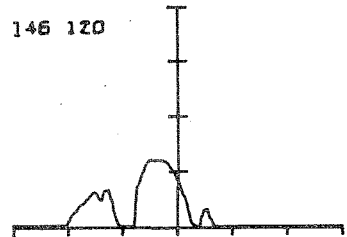
144 120



SPRAT 9.7 CM 120 KHZ FISH NO 146

82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	76.5	70.5
66.9	65.6	63.4	61.7	60.2	59.0	57.9	56.9	56.1	55.7
54.9	54.2	53.6	54.5	55.5	53.3	53.3	55.3	57.9	61.7
64.9	82.5	82.5	60.9	52.7	50.7	48.9	47.7	47.9	47.9
48.0	48.2	46.5	49.4	50.5	51.6	53.0	54.9	56.9	59.6
63.4	60.9	56.9	56.5	58.4	60.9	64.4	68.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5

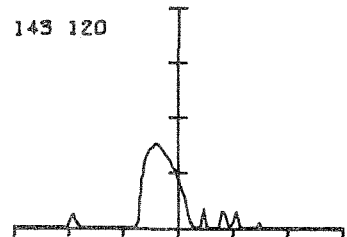
146 120



SPRAT 10.5 CM 120 KHZ FISH NO 143

81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
81.9	69.8	66.3	62.8	60.3	58.9	57.3	58.9	61.0	63.8
67.9	75.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
75.8	69.8	66.3	63.8	58.9	51.5	47.5	46.0	45.2	44.6
45.2	46.2	47.1	48.2	44.6	51.0	52.9	55.0	58.3	63.8
67.9	59.6	56.3	60.3	67.9	66.3	60.3	56.8	57.8	63.8
58.9	56.8	61.0	67.9	69.8	63.6	60.3	58.9	66.3	81.9
81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9

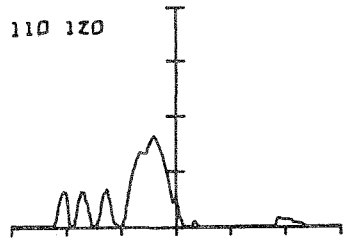
143 120



SPRAT 12.0 CM 120 KHZ FISH NO 110

81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
75.7	63.4	58.8	55.7	53.4	54.1	60.9	60.9	56.1	53.4
54.1	57.1	66.8	66.1	58.2	54.1	53.1	55.7	59.4	66.1
69.6	58.2	53.4	50.3	48.1	46.4	46.7	46.3	44.3	43.3
44.8	46.4	45.6	51.3	55.7	54.4	58.2	81.7	66.1	61.7
58.8	66.1	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
67.7	42.6	40.1	58.2	58.8	56.8	58.8	59.4	59.4	59.4
60.1	60.1	60.9	60.9	60.9	61.7	61.7	61.7	62.6	64.8
75.7									

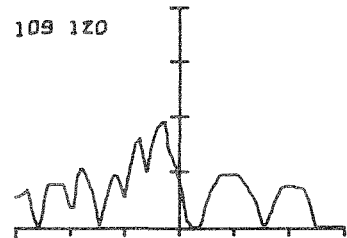
110 120



SPRAT 12.5 CM 120 KHZ FISH NO 109

54.8	54.1	53.7	53.0	55.3	58.4	62.2	58.4	54.4	52.0
52.0	52.0	52.0	52.0	54.1	56.7	56.2	50.4	49.0	50.2
51.7	53.7	56.2	59.7	57.2	54.4	52.0	50.4	50.9	52.7
54.8	50.9	47.3	44.6	43.7	46.3	50.2	46.8	43.6	41.7
40.7	40.9	45.7	47.5	49.2	51.5	54.4	59.0	69.2	69.2
42.2	59.0	56.2	54.4	52.7	51.5	50.2	50.2	50.2	50.2
50.2	50.7	51.5	52.3	53.3	54.4	55.7	57.8	59.7	59.0
57.2	55.3	54.1	52.7	52.3	52.7	52.7	63.0	53.0	53.3
54.4	56.7	59.7	63.2	71.7	81.3	81.3	81.3	81.3	75.3
67.3									

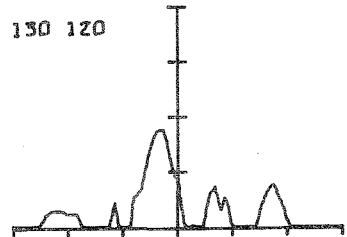
109 120



SPRAT 12.5 CM 120 KHZ FISH NO 130

81.6	75.6	69.6	66.1	64.7	62.6	60.8	59.4	58.7	57.6
57.0	57.0	57.0	57.0	57.6	57.6	57.6	57.6	58.7	60.8
63.6	67.7	75.6	81.6	81.6	81.6	66.1	58.1	55.2	60.8
75.6	81.6	59.4	54.4	53.7	53.0	49.6	46.7	44.4	42.7
42.0	42.2	44.4	47.5	50.0	51.3	55.2	75.6	60.1	59.4
62.6	67.7	60.8	56.5	53.7	52.4	54.4	57.0	54.4	56.5
60.1	66.1	81.6	81.6	81.6	67.7	62.6	58.7	56.1	54.4
52.7	52.1	53.3	54.8	56.5	58.7	41.6	66.1	66.1	67.7
67.7	67.7	69.6	69.6	69.6	69.6	72.1	72.1	72.1	75.6
81.6									

130 120

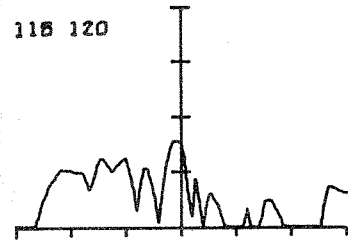


SPRAT AT 120 KHZ

SPRAT 12.6 CM 120 KHZ FISH NO 118

61.3	64.1	68.2	70.1	64.1	59.9	57.6	55.3	53.9	52.3
51.3	50.3	49.5	49.7	49.7	49.9	50.1	50.1	50.3	51.5
53.2	51.5	48.9	47.4	48.0	48.9	49.9	49.1	48.4	47.7
47.4	49.9	53.2	57.1	52.1	49.1	49.9	52.1	54.9	59.2
52.6	48.5	45.8	44.1	44.4	44.8	47.5	54.6	58.1	51.0
54.9	65.3	55.3	53.5	54.9	56.1	58.1	59.9	63.1	66.6
66.6	62.2	59.2	56.6	59.9	65.3	64.1	58.1	54.9	54.9
55.7	57.1	58.1	59.9	61.3	64.1	64.1	64.1	64.1	64.1
63.1	63.1	63.1	63.1	56.1	52.6	52.9	53.2	53.5	53.9
53.9									

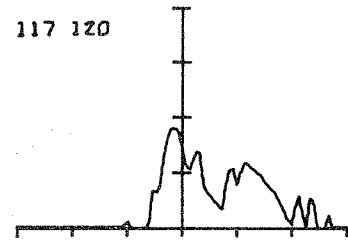
118 120



SPRAT 12.9 CM 120 KHZ FISH NO 117

81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
81.8	81.8	81.8	81.8	81.8	81.8	72.3	66.2	61.8	59.5
58.9	60.2	61.8	63.7	66.2	72.3	58.9	53.2	53.8	52.3
47.0	43.8	41.8	41.9	42.8	45.3	48.5	49.5	47.6	46.1
46.8	52.6	53.9	54.6	55.4	56.2	56.7	52.3	49.5	49.1
52.3	50.0	48.2	48.7	49.3	49.8	50.4	51.2	52.0	52.9
53.5	54.6	55.8	57.2	58.9	59.5	54.2	54.2	57.7	61.8
54.6	55.8	60.2	69.8	61.8	52.7	61.0	67.8	81.8	81.8
81.8									

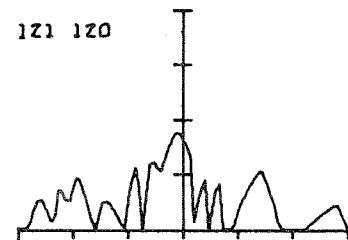
117 120



SPRAT 13.1 CM 120 KHZ FISH NO 121

72.1	64.8	61.7	58.7	56.6	54.8	54.4	55.6	57.1	58.7
57.1	52.7	53.4	54.8	54.8	52.4	50.5	51.8	53.7	55.6
58.1	60.8	57.6	54.8	54.8	55.6	56.6	57.6	58.7	60.1
54.8	51.3	48.6	52.1	60.1	54.1	47.9	47.5	49.0	49.4
47.0	45.1	43.6	42.3	42.6	43.7	45.0	46.7	58.7	55.2
52.7	50.8	62.6	56.1	52.7	51.6	60.1	66.1	61.7	58.7
56.6	54.8	53.4	52.1	51.0	50.1	49.2	50.3	51.8	53.7
55.6	58.7	62.6	64.8	63.6	62.6	61.7	60.8	60.1	59.4
58.7	58.1	57.6	57.1	56.6	56.1	55.6	55.6	57.1	58.7
61.7									

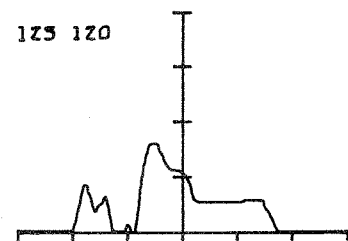
121 120



SPRAT 13.2 CM 120 KHZ FISH NO 123

82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0	72.4	63.9	59.7	59.7	62.0	57.4	54.0	51.3	51.9
54.0	56.4	55.1	54.4	53.3	56.4	61.1	72.4	66.4	60.4
59.5	62.9	69.9	55.5	49.7	46.3	43.8	43.7	44.0	45.5
47.2	46.5	48.7	48.9	49.1	49.5	49.9	51.6	54.0	54.7
54.7	54.7	54.7	54.4	54.4	54.4	54.4	54.4	54.4	54.4
54.4	54.4	54.0	54.0	54.0	54.0	54.0	54.7	56.0	56.9
58.5	60.4	62.0	65.1	68.0	76.0	82.0	82.0	82.0	82.0
82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0									

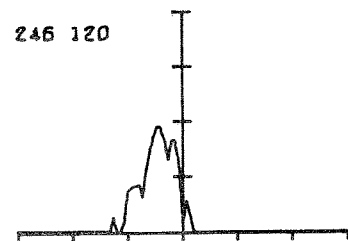
123 120



SPRAT 14.5 CM 120 KHZ FISH NO 246

80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	80.6	80.6	80.6	71.1	63.7	66.6	71.1	80.6
68.6	60.6	65.0	80.6	80.6	63.7	57.1	60.6	66.6	57.7
52.3	51.7	51.4	51.1	53.8	49.0	45.2	42.5	40.6	41.1
43.6	46.8	43.2	43.7	48.1	58.3	54.2	57.1	62.5	80.6
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6									

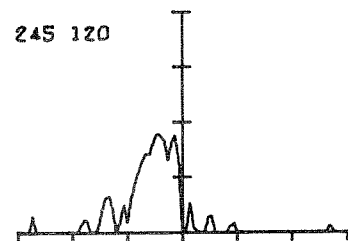
246 120



SPRAT 14.8 CM 120 KHZ FISH NO 245

80.5	80.5	66.5	59.7	57.0	70.9	74.5	64.9	59.7	74.5
80.5	80.5	80.5	70.9	66.5	63.6	60.5	58.9	57.6	58.2
74.5	63.6	58.9	55.9	53.6	53.3	55.9	63.6	58.2	54.9
58.2	54.0	50.9	48.9	47.0	45.7	45.7	43.6	42.0	42.6
43.3	47.0	43.6	42.3	47.2	59.7	59.7	54.5	58.9	80.5
74.5	62.4	57.0	57.0	63.6	80.5	80.5	64.9	58.9	58.2
61.4	64.9	74.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
80.5	80.5	80.5	80.5	68.4	58.9	59.7	62.4	66.5	74.5
80.5									

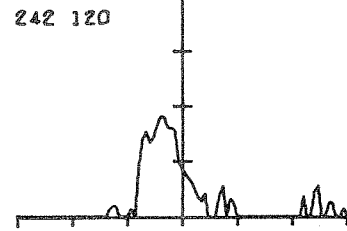
245 120



SPRAT AT 120 KHZ

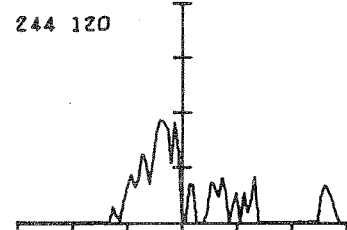
SPRAT 16.0 CM 120 KHZ FISH NO 242

80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
80.8	80.8	80.8	80.8	71.2	58.5	57.9	58.5	61.7	68.7	
60.0	58.5	65.2	51.2	45.8	44.4	46.5	45.5	43.4	41.7	
42.2	43.7	43.9	44.5	50.2	51.5	52.5	53.6	54.8	56.2	
57.0	55.7	65.2	80.8	71.2	55.7	54.3	60.8	56.7	57.9	
68.7	65.2	62.9	80.8	80.8	80.8	80.8	80.8	80.8	80.8	
65.2	67.7	80.8	80.8	61.7	60.0	80.8	63.9	56.2	61.7	
62.7	55.2	54.3	61.7	62.7	57.3	57.9	74.8	63.9	58.5	
80.8										



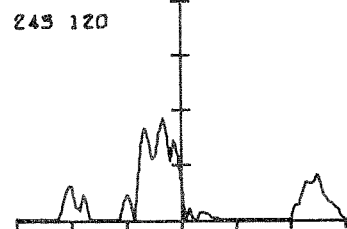
SPRAT 16.0 CM 120 KHZ FISH NO 244

80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	63.6
66.5	74.4	80.5	80.5	80.5	63.6	56.9	58.9	59.6	55.9	
53.2	51.2	53.6	51.8	47.4	48.6	52.9	48.4	43.3	41.1	
42.0	43.0	49.3	41.7	47.4	58.2	63.6	52.9	53.6	61.4	
61.4	60.5	57.5	52.5	53.6	58.4	51.8	54.4	62.4	56.4	
54.4	60.5	54.4	58.2	55.9	51.5	61.4	66.5	60.5	80.5	
80.5	80.5	80.5	63.6	70.9	80.5	64.9	59.6	70.9	64.9	
59.6	60.5	59.6	54.9	53.2	54.4	55.9	58.2	60.5	63.6	
80.5										



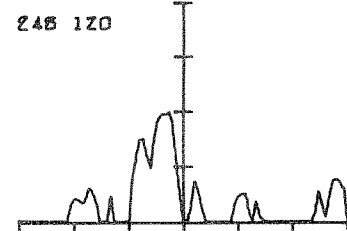
SPRAT 16.5 CM 120 KHZ FISH NO 243

81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	75.2	75.2
71.7	63.2	58.3	55.6	53.6	54.0	57.7	58.3	55.2	57.1	
64.3	81.2	81.2	81.2	81.2	71.7	61.2	63.2	71.7	56.6	
55.2	56.6	64.3	52.9	46.1	43.0	45.5	49.0	47.8	43.9	
41.3	44.3	49.4	45.2	48.3	53.3	63.2	57.7	63.2	81.2	
58.3	58.9	58.9	59.6	59.6	40.4	61.2	63.2	75.2	60.4	
64.3	75.2	61.2	71.7	81.2	81.2	65.6	75.2	71.7	61.2	
71.7	75.2	69.2	75.2	69.2	59.6	57.1	57.1	54.8	52.9	
53.6	52.9	51.7	53.3	55.6	56.6	57.1	57.7	58.3	59.6	
60.4										



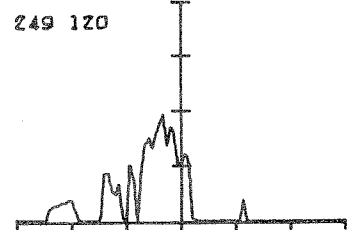
SPRAT 16.6 CM 120 KHZ FISH NO 246

60.7	60.7	60.7	61.6	63.8	65.1	68.7	74.7	71.2	65.1	
60.7	63.8	65.1	59.9	56.6	55.6	56.1	56.6	55.6	53.5	
54.7	56.6	59.9	63.8	59.9	55.1	62.6	74.7	61.6	63.8	
62.6	52.4	47.8	44.7	44.6	47.8	50.1	44.6	41.3	40.1	
40.5	39.8	41.9	47.5	55.1	61.6	66.7	56.6	52.4	54.3	
57.2	60.7	66.7	74.7	80.7	80.7	80.7	80.7	80.7	56.6	
55.1	54.7	54.7	58.4	65.1	56.1	59.1	65.1	80.7	80.7	
80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	61.6	62.6
68.7	58.4	54.3	56.6	59.1	55.1	52.1	52.1	53.1	54.3	
80.7										



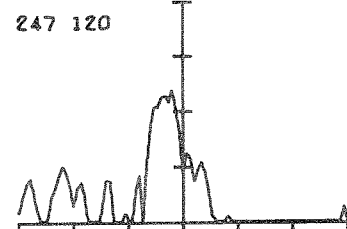
SPRAT 17.5 CM 120 KHZ FISH NO 249

81.1	81.1	81.1	81.1	81.1	75.0	65.5	62.0	59.5	57.5	
57.0	57.0	56.5	56.5	56.0	56.5	58.1	60.2	63.0	67.1	
75.0	81.1	81.1	58.8	51.2	51.2	54.6	55.5	53.1	59.5	
61.1	49.5	52.8	67.1	51.2	46.0	44.7	46.7	44.0	42.1	
40.4	46.3	42.7	43.9	49.9	49.0	47.6	49.7	59.5	63.0	
69.0	75.0	65.5	62.0	61.1	81.1	81.1	81.1	81.1	81.1	
75.0	61.1	56.0	44.2	81.1	81.1	81.1	81.1	81.1	81.1	
81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	
81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	
81.1										



SPRAT 17.6 CM 120 KHZ FISH NO 247

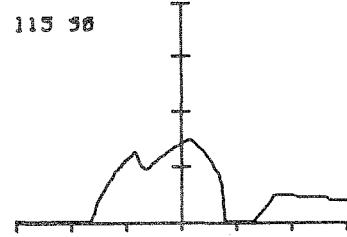
58.3	55.5	53.0	52.0	54.6	57.7	62.5	65.0	59.0	55.5	
53.4	51.4	49.7	51.1	53.8	57.1	53.8	52.7	55.5	59.8	
62.5	61.5	61.5	56.5	52.3	53.0	62.5	68.6	60.6	58.3	
65.0	60.6	53.8	51.4	61.5	49.7	42.4	39.0	39.3	37.4	
36.9	38.2	35.9	39.0	43.7	50.8	47.5	48.8	52.7	50.5	
49.0	51.1	54.2	59.0	71.1	80.6	68.6	59.0	59.8	60.6	
61.5	80.6	80.6	80.6	80.6	80.6	80.6	74.6	61.5	71.1	80.6
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	74.6
65.0	65.0	65.0	63.7	63.7	63.7	80.6	80.6	61.5	57.1	
66.6										



DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF HERRING AT 38 KHZ

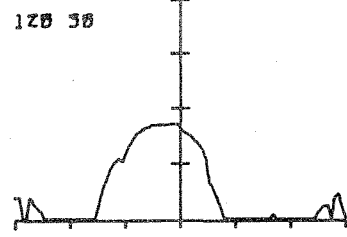
HERRING 10.0 CM 38 KHZ FISH NO 115

78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	69.0	64.5
60.4	58.5	56.2	55.0	53.9	52.5	51.7	50.5	49.9	49.9	49.0
48.4	47.9	47.1	46.8	49.9	50.5	49.9	49.3	48.7	48.1	
47.6	47.1	46.7	46.2	45.0	45.4	45.1	44.7	45.4	46.0	
46.7	47.4	48.1	49.0	50.2	51.3	53.4	61.6	72.5	69.0	
66.5	64.5	62.9	61.6	60.4	59.4	58.5	57.7	56.9	56.2	
55.0	55.0	55.0	55.0	55.0	55.0	55.6	55.6	55.6	55.6	
55.6	55.6	55.6	55.6	55.6	56.2	56.2	56.2	56.2	56.2	
56.2										



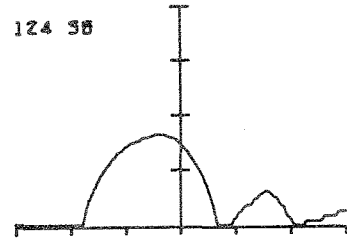
HERRING 10.0 CM 38 KHZ FISH NO 128

56.5	55.8	60.0	61.2	55.0	57.3	58.1	59.0	61.2	62.5	
64.1	68.6	72.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	
78.1	68.1	59.0	56.5	54.0	52.1	50.5	49.5	48.9	49.8	
48.0	46.5	45.2	44.3	43.8	43.3	43.0	42.7	42.7	42.5	
42.5	42.5	42.4	42.4	42.8	43.5	44.0	44.7	45.2	45.9	
46.7	47.5	49.2	53.5	54.6	56.5	58.1	61.2	64.1	72.1	
78.1	78.1	78.1	78.1	78.1	78.1	78.1	72.1	64.1	60.0	
59.0	78.1	78.1	78.1	78.1	72.1	68.6	66.1	64.1	62.5	
61.2	60.0	59.0	58.1	57.3	57.3	60.0	55.8	55.2	58.1	
64.1										



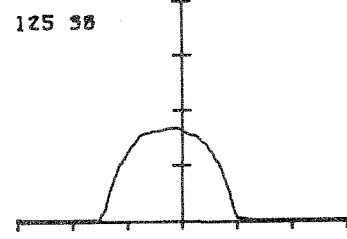
HERRING 11.0 CM 38 KHZ FISH NO 124

78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	
78.2	78.2	78.2	78.2	78.2	78.2	72.1	64.2	60.1	57.3	
55.2	53.6	52.1	50.9	49.9	48.9	48.1	47.3	46.6	45.9	
45.3	44.9	44.5	44.4	44.0	43.8	43.7	43.4	43.2	43.4	
43.5	43.8	44.0	44.2	44.7	45.3	46.1	46.8	47.8	48.9	
49.9	51.3	52.6	54.6	56.6	60.7	62.6	61.3	60.1	59.1	
58.2	57.3	56.6	55.9	55.9	55.2	54.6	54.1	53.6	54.1	
54.6	55.2	55.9	56.6	58.2	59.1	60.1	60.1	60.1	59.1	
59.1	59.1	59.1	59.1	58.2	58.2	58.2	58.2	57.3	57.3	
57.3										



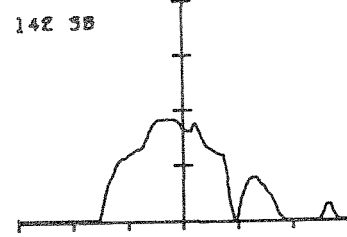
HERRING 11.0 CM 38 KHZ FISH NO 125

77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	
77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	
68.2	63.7	60.8	58.6	57.7	54.8	53.1	51.3	49.7	48.5	
47.3	46.3	45.5	44.6	44.1	43.9	43.7	43.6	43.4	43.4	
43.2	43.1	42.9	43.2	43.4	43.7	44.1	44.5	44.6	45.0	
45.5	45.0	46.0	47.6	48.8	49.7	51.3	53.1	54.8	57.7	
59.6	59.6	59.6	60.8	60.8	60.8	60.8	60.8	60.8	62.1	
62.1	62.1	62.1	77.7	77.7	77.7	77.7	77.7	77.7	71.7	
62.1	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
77.7										



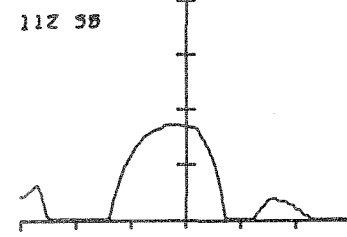
HERRING 11.4 CM 38 KHZ FISH NO 142

77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	
77.9	68.3	61.0	57.1	54.4	52.3	50.7	49.3	48.6	48.3	
47.8	47.5	47.0	46.8	46.3	44.8	43.2	42.0	41.5	41.6	
41.6	41.8	41.8	41.9	42.5	43.7	43.9	43.9	42.2	43.4	
44.8	46.5	47.0	47.3	47.8	48.1	48.3	51.4	57.1	62.3	
58.8	55.6	53.8	52.3	51.9	52.3	53.3	53.8	55.0	55.6	
57.1	58.8	59.8	62.3	63.9	68.3	71.9	77.9	77.9	77.9	
68.3	63.9	61.0	58.8	57.1	57.1	58.8	61.0	62.3	65.8	
71.9										



HERRING 11.7 CM 38 KHZ FISH NO 112

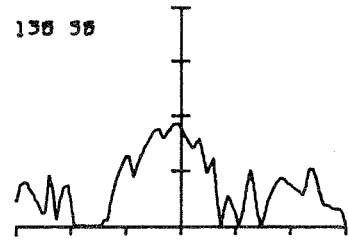
56.0	55.3	54.7	54.2	53.6	54.7	56.7	59.2	62.7	68.7	
78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	
78.2	78.2	78.2	68.7	61.3	56.7	54.2	52.2	50.3	49.0	
47.9	46.7	45.8	45.0	44.4	44.1	43.6	43.3	43.0	42.7	
42.4	42.5	42.7	42.8	43.0	43.1	43.3	43.3	43.8	44.8	
46.0	47.4	48.7	50.6	53.1	56.7	61.3	68.7	66.2	64.3	
62.7	64.3	61.3	60.2	59.2	58.2	57.4	56.7	56.0	56.0	
56.7	56.7	56.7	57.4	57.4	58.2	58.2	59.2	59.2	60.2	
60.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	
78.2										



HERRING AT 38 KHZ

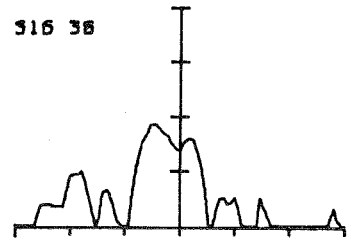
HERRING 11.9 CM 38 KHZ FISH NO 138

55.6 52.3 51.8 52.7 53.8 54.9 56.3 57.9 57.0 50.6  
 53.8 58.8 54.9 52.7 52.3 55.6 60.9 62.3 60.9 60.9  
 60.9 59.8 59.8 59.8 58.8 58.8 54.9 52.3 50.2 48.3  
 47.0 47.5 51.0 48.9 47.0 45.6 44.2 43.0 42.1 42.3  
 43.9 42.9 42.0 41.2 41.3 42.3 43.5 44.8 45.8 44.8  
 43.9 47.0 50.2 48.9 47.5 55.6 62.3 56.3 54.3 56.3  
 57.9 60.9 57.0 52.7 49.6 52.7 57.9 60.9 57.9 54.9  
 53.2 51.8 51.0 51.4 52.3 52.7 53.2 53.8 54.3 52.7  
 49.2 49.9 51.8 54.3 56.3 56.3 57.0 57.0 57.0  
 77.9



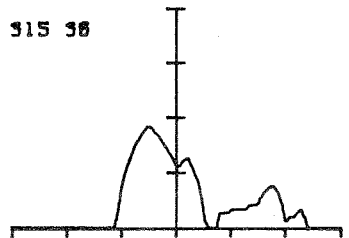
HERRING 19.2 CM 38 KHZ FISH NO 316

78.1 78.1 78.1 78.1 72.1 61.2 57.3 55.8 55.8 55.8  
 56.5 56.5 56.5 56.5 53.0 50.5 50.2 50.2 49.8 51.7  
 54.0 57.3 61.2 58.1 53.5 53.0 54.6 56.5 59.0 62.6  
 64.1 62.6 53.5 49.2 46.3 44.1 42.6 41.1 41.2 41.9  
 42.6 43.3 44.1 45.1 46.1 46.1 44.5 43.8 44.0 44.7  
 46.8 49.5 53.5 61.2 61.2 56.5 54.6 54.6 55.8 55.2  
 54.6 56.5 60.1 68.6 78.1 78.1 61.2 54.6 56.5 58.1  
 61.2 64.1 68.6 78.1 78.1 78.1 78.1 78.1 78.1 78.1  
 78.1 78.1 78.1 68.6 64.1 61.2 58.1 56.5 59.0 62.6  
 68.6



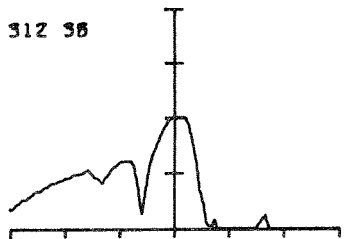
HERRING 20.0 CM 38 KHZ FISH NO 315

78.7 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78.7  
 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78.7  
 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78.7 66.6 57.1  
 52.6 50.0 47.8 46.0 44.5 43.4 42.3 41.4 41.6 42.4  
 43.2 44.2 45.2 46.2 47.5 48.3 48.3 47.5 47.1 48.3  
 50.0 51.8 54.6 58.7 66.6 78.7 64.7 57.1 57.1 57.1  
 56.4 56.4 56.4 56.4 56.4 55.7 55.7 55.7 54.6 53.6  
 52.6 52.2 52.6 53.6 55.7 58.7 57.8 57.8 57.1 56.4  
 57.8 61.8 61.8 61.8 61.8 61.8 61.8 64.7 69.1 78.7  
 78.7



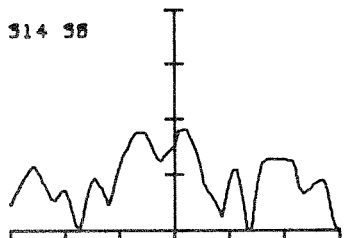
HERRING 20.2 CM 38 KHZ FISH NO 312

56.7 56.0 55.4 54.8 54.8 54.2 53.7 53.2 53.2 52.7  
 52.3 51.8 51.8 51.4 51.1 50.7 50.7 50.3 50.0 50.0  
 49.7 49.3 50.0 50.7 51.1 51.8 50.7 50.0 49.0 48.5  
 47.9 47.7 47.7 47.7 49.0 52.1 57.5 53.2 49.3 46.7  
 44.8 43.2 41.8 40.6 39.6 39.6 39.7 39.8 40.0 41.5  
 44.1 48.2 53.2 55.4 59.2 60.2 58.3 61.4 66.2 72.3  
 78.3 78.3 78.3 72.3 68.7 64.3 62.7 61.4 59.2 58.3  
 57.5 62.7 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3  
 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3  
 78.3



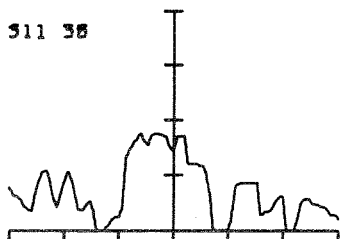
HERRING 20.3 CM 38 KHZ FISH NO 314

55.6 53.9 52.5 51.3 50.2 49.3 48.4 49.3 50.2 51.7  
 52.9 54.4 55.0 53.9 52.9 52.9 54.4 56.9 59.4 62.9  
 57.7 53.9 51.7 50.5 51.7 52.5 53.9 55.6 53.9 50.5  
 48.4 46.5 45.1 43.7 42.5 42.2 42.4 42.7 43.9 45.2  
 46.9 47.6 46.7 46.0 45.2 44.7 42.0 41.7 41.6 42.9  
 44.4 46.2 48.4 51.7 52.9 53.9 55.0 56.2 57.7 53.9  
 50.9 49.0 49.3 52.1 55.6 62.9 60.4 54.4 50.5 47.9  
 47.1 47.1 47.4 47.4 47.4 47.4 47.6 47.6 48.7 52.5  
 53.4 52.9 52.5 51.7 51.3 50.9 51.7 53.9 57.7 64.5  
 72.5



HERRING 21.0 CM 38 KHZ FISH NO 311

52.5 53.5 54.0 54.6 55.8 56.5 56.5 53.0 50.9 49.1  
 48.8 50.9 54.0 55.8 53.0 50.9 49.1 50.9 53.5 56.5  
 56.5 55.2 54.6 56.5 60.0 61.2 60.0 59.0 58.1 57.3  
 57.3 55.8 46.3 45.0 43.9 43.0 42.1 43.9 44.5 42.5  
 42.2 42.5 42.8 43.1 45.2 45.6 42.7 42.7 43.0 48.0  
 48.0 48.0 48.3 48.3 49.8 53.5 61.2 78.1 78.1 78.1  
 72.1 57.3 51.6 51.2 51.2 51.2 51.2 51.2 51.2 57.3  
 56.5 56.5 55.8 54.6 53.5 54.0 60.0 78.1 62.5 57.3  
 54.6 54.0 54.6 55.2 55.2 55.8 55.8 56.5 57.3 57.3  
 58.1

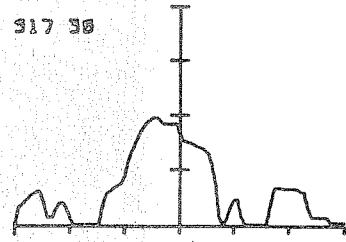


HERRING AT 38 KHZ

HERRING 21.0 CH 38 KHZ FISH NO 317

78.7	56.4	55.0	55.2	54.6	54.1	53.6	54.6	56.4	58.7
58.7	57.1	55.8	55.8	57.1	58.7	60.6	63.1	69.1	78.7
78.7	78.7	78.7	66.6	56.4	54.1	53.6	53.1	52.7	52.2
50.7	48.1	46.0	44.4	43.1	41.9	41.0	40.5	40.1	40.6
41.4	41.7	41.7	41.5	41.5	43.4	44.7	45.1	45.2	45.6
45.0	46.2	46.6	47.1	49.4	53.1	58.7	61.8	58.7	56.4
55.2	55.2	58.7	64.7	78.7	78.7	78.7	78.7	78.7	61.8
55.0	53.1	53.1	53.6	53.6	53.6	53.6	53.6	54.1	54.1
56.4	58.7	58.7	58.7	58.7	58.7	59.6	59.6	59.6	59.6
59.6									

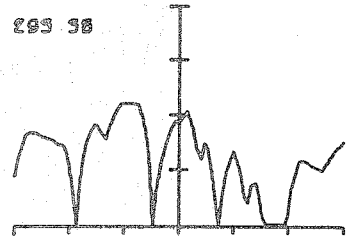
317 38



HERRING 22.5 CH 38 KHZ FISH NO 293

51.3	47.9	45.3	43.4	42.9	43.2	43.5	43.9	44.0	44.4
48.7	45.1	45.4	45.6	46.5	49.3	53.4	61.6	52.1	47.6
44.7	42.7	41.5	42.4	43.4	44.4	42.2	40.6	39.1	37.9
37.6	37.8	37.9	38.1	38.2	39.9	43.2	48.4	62.9	53.4
49.0	46.3	44.0	42.2	40.8	40.9	40.2	39.1	40.9	43.1
46.3	48.1	44.9	46.5	49.9	55.6	60.4	54.4	50.5	48.1
46.5	48.4	50.9	55.0	56.2	52.5	52.1	54.4	58.5	64.5
78.5	78.5	78.5	78.5	66.5	57.7	52.8	50.2	48.1	48.4
48.7	49.3	49.6	49.9	50.2	49.0	47.9	46.9	46.0	45.3
44.5									

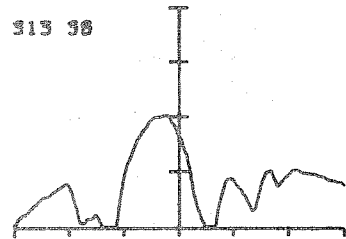
293 38



HERRING 23.2 CH 38 KHZ FISH NO 313

78.5	58.5	57.7	57.7	56.9	56.2	56.6	55.0	54.4	54.4
53.9	53.4	52.9	52.5	52.0	52.9	56.4	56.4	59.4	59.4
58.5	58.5	57.7	58.5	66.4	78.5	78.5	78.5	60.4	54.4
50.9	48.4	46.7	45.0	43.7	42.5	41.6	40.6	40.0	39.9
39.7	39.5	39.7	40.8	42.0	43.4	45.0	47.1	49.9	53.9
56.2	58.5	61.6	68.9	66.8	59.4	55.6	53.4	51.3	50.9
51.6	52.5	53.4	54.4	55.6	56.9	56.2	53.4	51.3	49.9
49.5	50.9	52.5	51.6	50.9	50.2	49.5	49.5	49.9	50.2
50.2	50.5	50.5	50.9	50.9	51.3	51.6	51.6	52.0	52.0
52.5									

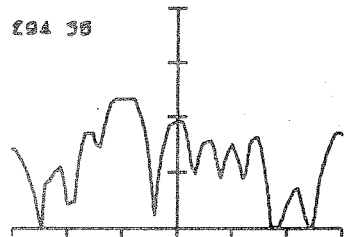
313 38



HERRING 23.4 CH 38 KHZ FISH NO 294

45.4	46.4	47.6	48.9	50.4	52.2	54.6	57.9	61.8	51.8
51.1	50.1	49.4	48.9	51.4	55.8	55.2	55.2	48.6	44.9
42.6	42.7	42.8	45.2	45.4	41.7	39.0	37.1	36.5	36.5
36.5	36.5	36.4	36.4	37.7	39.6	42.0	45.4	51.4	57.9
50.1	46.0	43.3	41.2	40.6	40.5	40.5	42.0	44.7	48.9
50.4	46.4	44.4	44.2	43.9	45.6	48.6	51.1	48.0	45.8
44.7	46.4	48.3	51.1	49.7	44.5	43.6	43.4	45.4	48.6
53.6	66.6	61.8	59.6	57.9	55.8	54.6	53.7	52.7	55.2
57.9	63.1	69.1	56.4	51.4	48.3	46.2	44.4	42.8	42.6
43.4									

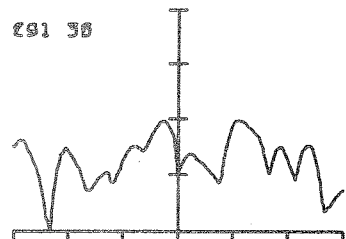
294 38



HERRING 23.9 CH 38 KHZ FISH NO 291

44.6	43.8	43.6	44.6	45.9	47.2	49.0	51.0	54.0	57.8
60.5	53.0	48.8	46.1	45.1	45.9	47.0	48.2	49.3	51.0
53.0	52.6	51.7	50.6	50.0	49.3	50.0	51.7	50.6	48.8
47.2	45.9	44.8	44.6	45.1	45.9	45.1	43.8	42.5	41.4
40.4	40.0	40.9	41.8	43.8	49.6	48.0	46.5	46.1	46.5
47.2	47.7	48.5	49.0	50.0	50.6	51.7	50.0	45.7	42.9
40.7	39.9	40.2	40.7	41.3	41.9	42.6	43.2	44.8	47.2
50.0	47.5	45.3	44.6	45.9	47.5	49.3	51.0	48.0	45.7
44.6	44.8	45.9	48.2	51.7	57.0	55.7	55.1	54.0	53.0
52.6									

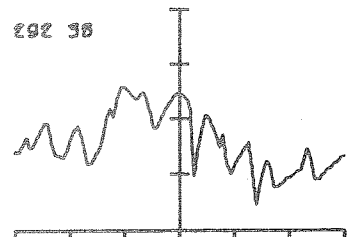
291 38



HERRING 24.0 CH 38 KHZ FISH NO 292

45.7	45.7	44.3	43.0	45.3	44.5	43.0	41.7	40.6	40.8
48.7	46.6	46.8	47.1	45.7	43.7	42.0	41.2	43.0	45.3
48.4	47.6	46.4	45.3	43.5	39.7	37.8	39.6	36.3	34.0
34.3	35.0	35.8	36.4	35.7	35.0	36.7	38.9	41.8	41.1
39.6	38.2	37.1	36.2	35.2	35.4	35.9	36.5	38.3	50.4
45.7	42.0	39.3	39.9	41.3	43.0	45.1	42.6	48.1	50.0
48.4	47.1	45.9	48.9	44.0	49.0	55.7	52.0	49.3	47.3
49.0	52.4	52.0	51.5	50.7	50.4	50.0	49.3	49.0	47.6
45.1	47.6	51.1	50.7	50.0	49.3	48.7	48.1	47.6	46.8
46.4									

292 38

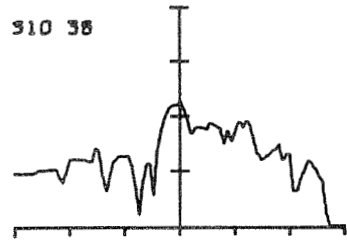


HERRING AT 38 KHZ

HERRING 25.0 CM 38 KHZ FISH NO 310

50.6	50.6	50.2	50.2	50.2	50.2	49.8	49.8	49.8	49.5
49.5	49.5	51.0	52.2	49.8	47.7	47.7	48.0	48.0	48.0
48.3	48.0	45.6	46.7	50.6	53.7	50.6	48.0	47.4	47.2
47.2	46.9	49.5	53.2	57.8	51.8	48.3	48.9	54.3	46.0
42.0	39.7	38.3	37.7	37.9	36.9	38.5	40.5	43.2	42.2
41.8	42.2	42.5	41.2	41.5	42.0	42.4	45.1	42.4	44.6
42.5	40.7	42.0	40.7	41.8	44.0	46.9	48.0	47.4	46.9
46.2	45.8	45.1	48.0	46.7	47.2	53.7	53.2	51.0	49.5
48.0	48.9	49.8	51.0	52.2	57.8	77.8	77.8	77.8	77.8
77.8									

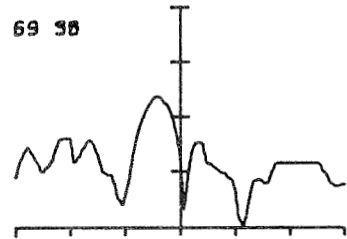
310 38



HERRING 28.0 CM 38 KHZ FISH NO 69

51.2	48.4	46.6	45.4	46.3	47.3	48.7	50.1	49.4	48.7
47.6	45.6	44.1	43.7	43.9	44.2	48.4	47.3	46.1	45.0
44.1	45.0	46.3	48.1	50.1	50.8	50.4	52.1	54.8	56.1
54.2	51.7	46.8	43.7	41.4	39.6	38.1	36.9	36.2	36.1
36.9	37.7	38.6	40.5	43.4	47.6	56.9	50.8	46.3	44.6
44.6	45.0	48.4	48.7	49.1	49.7	50.1	50.4	51.2	51.7
53.6	58.6	63.7	57.7	54.2	51.7	51.2	51.7	52.1	51.7
49.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
48.4	48.4	48.4	48.7	49.7	50.8	52.1	52.6	52.6	52.1
52.1									

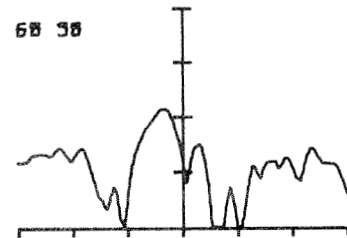
69 38



HERRING 28.3 CM 38 KHZ FISH NO 68

48.0	48.0	47.8	47.2	46.7	46.5	46.5	46.7	47.2	46.7
46.0	45.3	46.0	47.0	48.0	47.2	46.2	45.5	46.2	48.0
50.0	52.5	54.7	55.3	56.8	54.7	52.5	54.1	58.5	68.0
54.1	49.0	46.0	44.3	42.9	41.7	40.8	39.9	39.0	38.4
38.4	39.0	40.4	42.3	44.7	47.8	52.0	48.0	45.3	44.7
45.5	48.3	52.5	60.7	62.0	63.6	59.5	55.3	52.5	56.0
63.6	65.5	56.0	51.6	48.6	49.6	51.1	49.0	48.0	47.8
47.8	49.3	48.3	47.2	47.8	49.3	51.1	51.6	49.0	46.7
45.5	46.2	47.2	48.3	48.3	48.6	48.6	49.0	50.3	52.0
54.1									

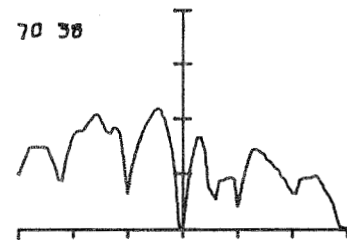
68 38



HERRING 28.7 CM 38 KHZ FISH NO 70

50.0	48.1	46.3	44.8	44.8	45.0	45.0	45.2	45.4	47.0
48.7	51.2	51.2	47.3	44.6	42.7	41.9	41.9	41.5	40.5
39.6	38.8	39.5	40.6	42.1	42.7	41.4	41.8	42.8	47.8
53.6	49.0	46.0	43.8	42.1	40.6	39.4	38.3	37.9	38.4
40.1	42.4	45.2	49.7	59.6	77.6	54.7	48.7	45.4	43.1
43.3	45.8	52.5	53.6	54.7	50.8	50.8	50.4	50.4	51.2
56.1	52.5	49.3	47.0	45.2	45.4	46.0	46.5	47.3	47.8
48.7	49.3	50.4	51.2	52.5	53.6	53.6	50.8	50.4	50.4
50.4	50.0	50.8	51.6	53.0	54.1	55.4	57.6	59.6	63.7
68.1									

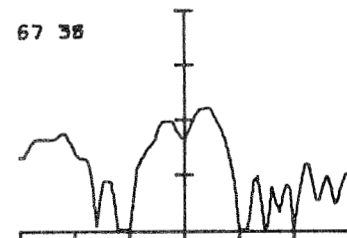
70 38



HERRING 29.3 CM 38 KHZ FISH NO 67

46.4	46.4	45.2	44.1	43.3	43.5	43.5	43.5	43.7	43.3
42.9	42.4	42.2	43.3	44.6	46.1	46.9	47.1	47.4	48.3
51.9	59.4	54.0	50.7	51.1	51.5	55.2	68.0	77.5	77.5
77.5	55.2	48.6	47.1	45.9	44.8	44.1	43.2	41.2	40.0
40.0	40.0	40.8	42.1	43.3	43.2	41.9	40.1	38.7	37.9
37.7	37.5	38.1	39.2	40.5	41.8	43.5	45.7	48.6	52.9
61.9	77.5	77.5	56.7	50.7	49.9	54.6	65.5	58.4	51.9
55.2	56.7	53.4	51.5	52.9	61.9	55.2	50.7	47.7	48.3
50.7	54.6	54.0	51.5	49.9	51.9	55.2	54.0	51.5	49.5
49.5									

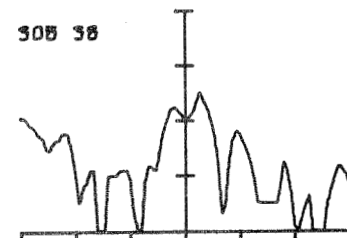
67 38



HERRING 29.5 CM 38 KHZ FISH NO 308

39.3	39.9	40.6	41.2	42.0	42.8	43.7	45.3	44.8	43.7
43.3	42.4	42.0	42.8	45.9	49.8	54.9	51.9	50.8	48.9
48.9	68.9	68.9	68.9	49.8	49.8	49.8	48.9	48.9	48.9
50.8	56.8	68.9	68.9	50.8	48.0	48.9	48.9	45.3	42.0
39.6	37.7	37.3	38.2	39.0	40.2	39.3	38.2	36.4	34.7
36.2	38.0	39.9	42.8	47.3	56.8	54.9	47.3	43.3	41.6
42.8	44.2	45.9	48.0	50.8	54.9	54.9	54.9	54.9	54.9
54.9	51.9	47.3	48.9	53.3	59.3	68.9	56.8	54.9	53.3
62.8	68.9	68.9	62.8	54.9	51.9	49.8	48.0	48.9	49.8
51.9									

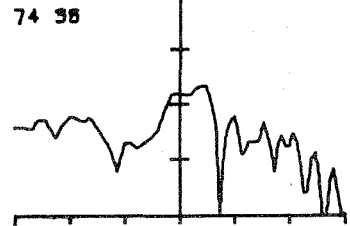
308 38



HERRING AT 38 KHZ

HERRING 32.4 CM 38 KHZ FISH NO 74

43.9	44.1	44.2	44.4	44.6	44.1	42.7	42.6	42.6	43.7
45.0	46.1	44.8	43.5	42.6	42.0	42.3	42.6	43.0	43.0
42.3	42.9	43.9	44.8	45.9	47.1	48.4	50.1	52.1	49.1
46.8	46.8	47.3	47.9	47.6	47.1	46.3	45.9	45.2	44.6
42.4	40.7	39.2	38.0	37.9	38.0	38.2	38.3	38.0	37.3
36.7	36.4	36.4	37.8	40.0	43.9	68.1	50.1	44.8	42.7
42.0	44.6	49.1	48.1	46.6	46.6	46.8	45.9	43.2	45.2
48.1	52.1	47.1	45.6	47.6	47.3	45.2	46.8	50.5	56.1
55.4	49.7	48.7	52.1	60.8	62.1	53.6	51.7	55.4	63.7
60.8									



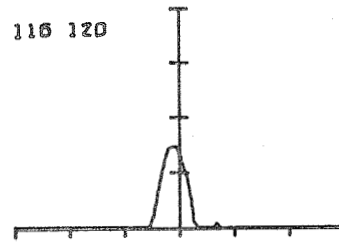


DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF HERRING AT 120 KHZ

HERRING 8.7 CM 120 KHZ FISH NO 116

82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0	82.0	82.0	72.5	68.0	63.9	63.9	63.9	63.9	63.9	65.1
65.1	65.1	65.1	76.0	82.0	82.0	82.0	82.0	68.0	65.1	63.9
63.9	82.0	82.0	82.0	72.5	65.1	62.0	59.1	57.4	54.0	54.0
50.2	47.5	45.5	45.1	45.1	46.6	48.6	50.9	54.0	59.1	59.1
63.9	64.4	72.5	66.4	62.0	59.1	60.4	62.0	63.9	66.4	66.4
70.0	72.5	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	72.5	65.1
65.1	65.1	63.9	63.9	63.9	63.9	63.9	63.9	63.9	62.9	62.9
62.9										

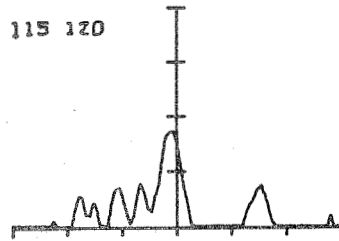
116 120



HERRING 10.0 CM 120 KHZ FISH NO 115

81.9	81.9	81.9	81.9	81.9	81.9	81.9	75.8	67.9	63.8	63.8
61.0	58.9	61.9	66.3	75.8	72.3	61.0	56.3	54.3	55.0	55.0
57.8	57.8	58.4	56.8	61.0	66.3	59.6	55.8	53.2	52.6	52.6
54.6	56.8	59.6	57.8	54.6	52.0	52.9	56.8	57.3	54.3	54.3
52.0	47.4	43.4	42.6	42.5	44.5	48.1	53.2	55.8	59.6	59.6
63.8	61.9	60.3	59.6	59.6	61.0	61.9	63.8	66.3	67.9	67.9
72.3	65.0	61.9	59.6	57.3	55.8	59.6	53.2	52.3	53.9	53.9
56.3	58.9	62.8	63.8	65.0	65.0	66.3	66.3	67.9	67.9	67.9
69.8	69.8	72.3	67.9	63.8	61.9	59.6	67.8	61.0	65.0	65.0
75.8										

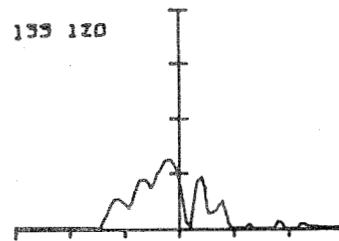
115 120



HERRING 10.1 CM 120 KHZ FISH NO 133

82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0	82.0	70.0	65.1	62.0	61.2	63.9	66.4	70.0	82.0	82.0
70.0	65.1	62.0	59.7	58.5	56.9	55.6	54.4	54.4	55.2	55.2
55.6	56.4	54.4	52.5	50.9	50.9	51.6	52.5	51.4	49.8	49.8
48.4	47.4	47.2	47.9	48.9	51.1	54.4	59.1	62.9	55.2	55.2
51.1	50.4	52.5	57.4	56.9	56.4	55.6	54.8	57.4	62.0	62.0
70.0	66.4	62.9	59.7	59.1	62.0	66.4	72.5	82.0	82.0	82.0
82.0	63.9	58.5	59.1	61.2	62.9	66.4	60.4	59.1	59.1	59.1
59.7	59.7	59.7	60.4	60.4	60.4	61.2	61.2	61.2	62.0	62.0
82.0										

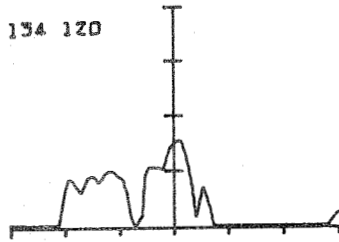
133 120



HERRING 10.6 CM 120 KHZ FISH NO 134

67.9	66.3	63.8	61.8	62.8	63.8	64.9	66.3	67.9	69.8	69.8
72.3	75.8	75.8	61.0	56.3	53.2	51.2	52.0	52.9	53.9	53.9
52.6	51.0	50.8	51.2	52.0	51.0	50.0	49.6	50.0	50.7	50.7
51.2	52.0	54.6	58.3	60.3	58.9	57.8	50.2	49.0	49.2	49.2
49.4	49.6	49.8	47.2	45.2	44.6	44.0	44.7	46.6	49.0	49.0
52.3	58.3	55.4	52.6	54.6	57.2	60.3	66.3	81.8	81.8	81.8
81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	72.3	64.9	64.9
61.0	62.8	64.9	64.9	63.8	61.8	61.0	59.6	58.9	57.8	57.8
57.2										

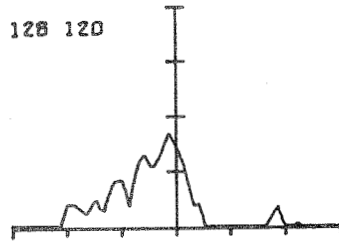
134 120



HERRING 10.8 CM 120 KHZ FISH NO 128

82.2	82.2	82.2	82.2	72.6	66.6	63.1	60.6	61.4	65.3	65.3
70.1	70.1	64.1	59.9	57.6	55.7	55.7	56.2	56.6	57.1	57.1
57.6	56.6	55.3	55.0	56.6	57.1	54.6	52.9	51.6	51.3	51.3
51.6	53.2	56.2	52.4	49.7	47.7	46.8	47.9	49.1	48.6	48.6
47.5	46.2	44.5	43.1	44.2	45.5	46.9	48.7	51.1	53.9	53.9
56.2	55.7	57.6	64.1	64.1	63.1	61.4	60.6	82.2	82.2	82.2
82.2	76.2	68.2	64.1	72.6	70.1	66.6	64.1	62.2	60.6	60.6
59.3	58.1	57.1	56.2	58.7	62.2	63.1	60.6	59.3	60.6	60.6
62.2	64.1	66.6	70.1	76.2	82.2	82.2	82.2	82.2	82.2	82.2
82.2										

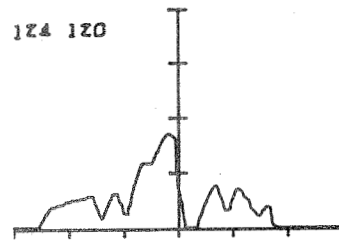
128 120



HERRING 11.0 CM 120 KHZ FISH NO 124

60.3	61.9	65.0	67.9	65.0	62.8	61.0	58.9	57.8	56.8	56.8
55.8	55.8	55.4	55.4	55.0	55.0	54.6	54.6	54.3	54.3	54.3
53.9	53.9	55.4	56.8	58.3	56.3	55.0	53.6	53.6	55.4	55.4
57.3	57.3	53.9	51.5	49.6	47.9	48.1	48.2	47.5	45.9	45.9
44.5	43.3	42.5	43.1	43.7	52.6	55.4	60.3	66.3	62.8	62.8
59.6	57.3	55.8	54.3	52.9	52.0	53.2	55.0	56.8	56.3	56.3
54.3	52.6	53.2	54.3	55.0	56.3	57.3	57.8	56.8	55.8	55.8
56.3	59.6	65.0	69.8	67.9	66.3	66.3	65.0	63.0	66.3	66.3
72.3	81.9	81.9	69.8	65.0	61.9	63.8	66.3	69.8	72.3	72.3
81.9										

124 120

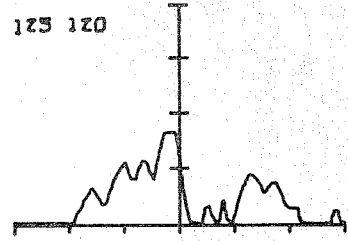


HERRING AT 120 KHZ

HERRING 11.0 CM 120 KHZ FISH NO 125

82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0	82.0	76.0	69.9	65.1	62.0	59.7	57.9	56.9	56.5	
54.4	53.4	54.4	55.5	56.4	56.0	54.0	52.2	50.9	49.5	
48.7	50.2	52.2	51.6	49.7	48.4	49.3	50.6	51.9	49.1	
45.7	43.3	43.0	43.0	43.8	47.3	53.4	57.4	59.7	62.0	
65.1	62.9	56.9	56.4	58.5	60.4	59.1	55.5	59.1	62.0	
58.5	56.0	53.7	52.2	50.9	51.4	52.2	53.0	54.4	53.4	
52.4	52.4	53.7	55.1	56.9	57.4	56.9	56.9	59.7	62.9	
68.0	68.0	61.2	62.0	65.1	68.0	62.0	57.4	57.9	66.4	
65.1										

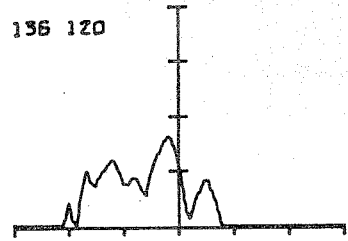
125 120



HERRING 11.0 CM 120 KHZ FISH NO 136

81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
81.7	81.7	81.7	64.8	58.1	55.6	58.7	60.8	55.2	52.1	
49.6	52.1	52.7	51.3	50.1	49.2	48.2	47.9	49.0	50.5	
52.4	52.4	51.3	51.3	52.1	53.4	54.4	51.3	49.2	47.3	
46.0	44.6	43.6	44.2	46.0	48.4	51.8	57.1	58.7	56.6	
54.4	53.0	51.6	51.6	53.4	55.2	57.6	60.8	62.6	63.6	
64.8	66.1	67.7	69.6	72.1	75.6	81.7	81.7	81.7	81.7	
81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	
81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	
81.7										

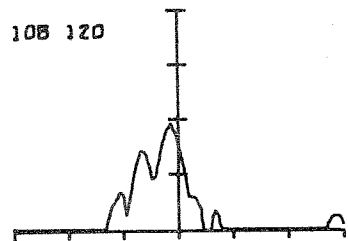
136 120



HERRING 11.3 CM 120 KHZ FISH NO 108

82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
82.0	82.0	76.0	66.5	63.0	59.8	57.4	55.6	54.4	53.1	
53.7	57.4	53.4	49.8	47.2	45.3	46.2	48.1	50.7	50.0	
46.2	43.7	41.6	40.6	42.2	44.1	46.6	50.0	54.1	54.1	
54.4	56.0	70.0	66.5	59.8	56.5	57.4	62.0	70.0	76.0	
70.0	66.5	64.0	62.0	60.5	60.5	62.0	63.0	65.1	68.1	
70.0	76.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	
76.0	70.0	66.5	64.0	62.0	60.5	58.5	57.4	57.4	58.0	
59.1										

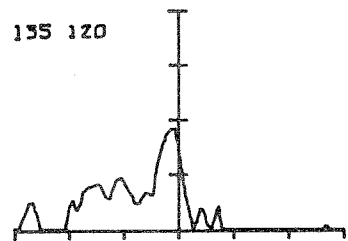
108 120



HERRING 11.3 CM 120 KHZ FISH NO 135

62.9	60.4	57.9	56.4	54.8	54.8	56.9	59.7	62.9	65.1	
65.1	63.9	63.9	63.9	59.7	56.0	54.4	56.4	55.2	52.8	
52.2	51.9	51.6	51.4	52.5	54.0	54.4	52.5	50.9	50.2	
51.1	52.5	53.7	55.2	55.2	54.0	53.1	53.7	53.4	48.9	
46.0	43.8	42.1	41.5	41.5	44.6	49.3	54.0	56.4	59.7	
58.5	56.0	56.9	59.1	60.4	57.4	55.6	59.7	70.0	82.0	
82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	
82.0	82.0	82.0	76.0	72.5	68.0	66.4	63.9	62.9	61.2	
62.9	68.0	70.0	63.9	60.4	59.1	60.4	61.2	62.0	63.9	
82.0										

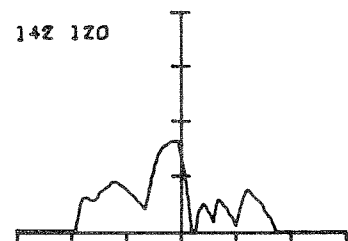
135 120



HERRING 11.4 CM 120 KHZ FISH NO 142

62.9	63.9	65.1	66.4	68.0	69.9	72.4	82.0	82.0	82.0	
82.0	82.0	82.0	82.0	82.0	66.4	59.7	56.0	53.7	53.7	
54.4	54.4	53.7	52.7	52.2	51.6	50.9	50.9	51.4	51.9	
52.4	53.0	53.7	54.4	55.1	56.0	53.4	49.9	47.5	45.6	
44.4	44.0	43.6	43.3	43.7	46.0	49.1	54.4	66.4	59.7	
56.0	54.8	56.0	56.9	58.5	54.0	54.8	55.5	56.4	57.9	
59.1	56.4	53.7	52.2	53.0	53.7	54.4	55.1	56.4	57.4	
58.5	60.4	62.0	63.9	66.4	72.4	82.0	82.0	82.0	82.0	
82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	
82.0										

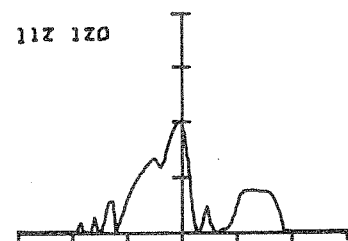
142 120



HERRING 11.7 CM 120 KHZ FISH NO 112

82.1	82.1	82.1	82.1	82.1	82.1	82.1	72.6	65.2	68.1	
76.1	76.1	65.2	62.1	68.1	82.1	64.0	58.0	61.3	70.1	
62.1	57.0	59.8	61.3	57.0	54.1	54.1	59.8	58.0	55.7	
53.8	52.3	50.7	49.6	48.7	47.8	47.0	46.3	47.1	48.1	
47.0	44.4	42.5	40.8	39.5	39.8	42.9	49.2	56.1	68.1	
60.5	57.0	54.9	58.6	60.5	59.8	59.2	59.2	58.6	57.0	
54.9	52.9	52.0	52.3	52.3	52.3	52.6	52.6	52.6	52.9	
53.8	55.2	57.0	59.8	63.0	68.1	82.1	82.1	82.1	82.1	
82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
82.1										

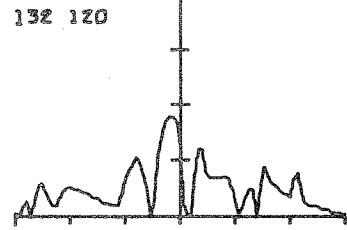
112 120



HERRING AT 120 KHZ

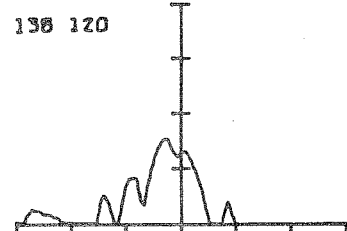
HERRING 11.7 CM 120 KHZ FISH NO 132

60.3	59.6	58.4	57.3	62.6	58.4	55.0	53.9	55.4	56.8
58.4	58.4	56.8	55.4	54.7	55.0	55.4	55.4	55.9	55.9
56.3	56.8	56.8	57.3	57.8	57.8	58.4	58.4	58.4	55.9
53.6	51.8	50.5	49.2	50.5	52.6	55.4	60.2	57.3	49.0
44.7	42.7	41.8	42.2	43.1	46.6	57.8	61.1	65.0	52.3
47.6	48.3	52.3	52.8	52.9	52.9	52.9	52.6	53.3	55.0
56.8	59.6	58.4	56.8	55.0	55.4	63.8	55.0	51.0	52.6
54.3	54.7	55.4	55.9	56.3	56.8	53.3	52.1	55.4	57.8
58.4	58.4	58.4	59.0	59.0	59.0	59.6	59.6	59.6	60.3
81.9									



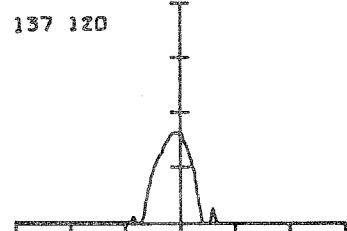
HERRING 11.9 CM 120 KHZ FISH NO 138

62.7	61.0	59.5	58.3	57.2	57.7	57.7	58.3	58.3	58.3
58.9	58.9	59.5	63.9	61.8	61.8	61.8	61.8	61.8	61.8
61.8	67.8	60.2	56.2	54.6	55.8	57.7	60.2	61.8	56.2
53.2	51.7	51.4	52.0	55.4	56.7	52.6	49.8	47.6	46.0
44.5	44.3	45.8	47.0	47.8	47.0	46.7	47.8	49.1	50.4
52.3	54.6	57.7	62.7	75.8	66.2	61.0	57.7	55.8	58.3
61.8	67.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
61.8	61.8	61.8	61.8	69.8	61.8	60.2	60.2	61.0	61.0
61.0	61.8	61.8	61.8	61.8	62.7	62.7	62.7	62.7	63.7
81.8									



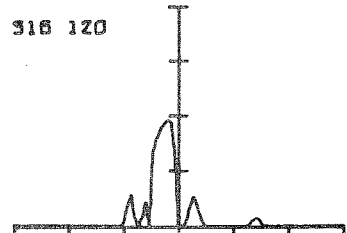
HERRING 12.0 CM 120 KHZ FISH NO 137

82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
82.3	82.3	70.2	64.2	65.4	72.7	82.3	82.3	82.3	82.3
70.2	60.7	58.8	62.3	65.4	58.8	54.7	51.9	49.8	48.3
46.9	45.6	46.6	43.6	43.6	43.7	44.9	46.6	48.7	51.4
55.4	63.2	70.2	61.5	57.2	65.3	72.7	64.2	60.7	60.7
61.5	61.5	61.5	61.5	61.5	62.3	62.3	62.3	62.3	63.2
63.2	63.2	63.2	64.2	64.2	65.4	66.7	68.3	70.2	72.7
76.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
82.3									



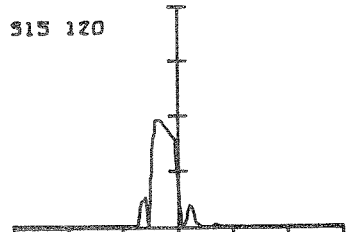
HERRING 19.2 CM 120 KHZ FISH NO 316

80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	68.6	61.5	59.8	61.5	65.0	68.6	71.1	63.7
59.0	56.5	54.2	58.3	74.6	58.3	55.5	62.5	46.3	44.1
42.3	41.1	40.6	41.0	46.4	66.6	62.5	59.0	56.5	54.6
56.0	58.3	62.5	68.6	66.6	66.6	65.0	63.7	63.7	62.5
61.5	61.5	60.6	59.8	59.8	59.0	58.3	59.0	61.5	63.7
68.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6									



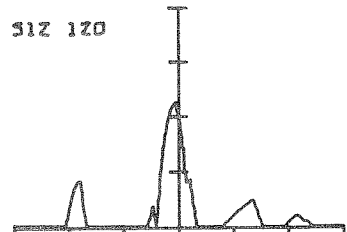
HERRING 20.0 CM 120 KHZ FISH NO 315

81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
81.0	81.0	81.0	81.0	81.0	81.0	69.0	81.0	67.0	62.9
62.9	64.1	71.5	81.0	81.0	81.0	67.0	67.0	61.9	75.0
62.9	75.0	78.0	81.0	64.0	55.4	54.6	61.0	46.0	40.5
40.7	41.5	42.3	43.3	44.2	51.5	61.9	58.7	55.9	56.9
59.4	62.9	49.0	67.0	61.9	59.4	61.0	64.1	67.0	75.0
81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
81.0									



HERRING 20.2 CM 120 KHZ FISH NO 312

80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80.6	80.6	80.6	71.1	61.5	56.5	51.7	51.7	51.3	56.5
62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.7	63.7
63.7	63.7	63.7	63.7	63.7	63.7	62.7	58.3	56.0	65.0
50.0	44.3	40.9	38.4	36.9	39.7	43.8	52.0	51.1	56.0
68.6	66.6	65.0	63.7	62.5	61.5	60.6	59.8	59.0	58.3
57.7	57.1	56.5	56.0	55.5	55.0	56.5	58.3	60.6	63.7
62.5	61.5	60.6	60.6	60.6	60.6	59.0	58.3	57.7	58.3
59.0	59.8	60.6	61.5	62.5	63.7	65.0	66.6	68.6	71.1
74.6									

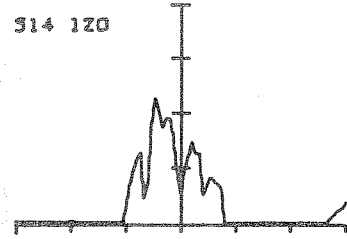


HERRING AT 120 KHZ

HERRING 20.3 CM 120 KHZ FISH NO 314

81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
81.0	71.4	65.4	61.0	59.4	59.4	60.2	60.2	60.2	60.2	62.9
71.4	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	64.1
56.9	53.0	50.1	48.1	46.8	55.4	52.4	41.5	36.9	32.3	
42.7	40.6	41.2	44.0	51.2	54.5	50.1	47.4	45.1	47.5	
47.4	55.0	53.0	51.4	52.4	53.0	54.1	64.1	81.0	81.0	
81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	
81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	
81.0	81.0	81.0	81.0	66.9	59.4	58.7	58.1	57.5	56.9	
65.9										

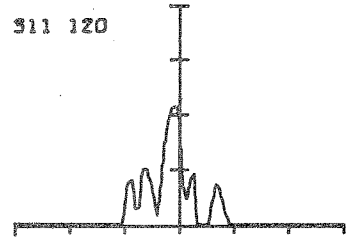
314 120



HERRING 21.0 CM 120 KHZ FISH NO 311

80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	70.5
57.1	52.0	51.7	57.1	56.5	49.6	49.9	52.0	54.4	58.4	
52.0	44.9	41.1	38.5	38.2	40.1	52.8	55.4	51.7	50.5	
68.0	80.0	80.0	61.9	55.9	52.4	53.6	55.9	58.4	63.1	
74.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
80.0										

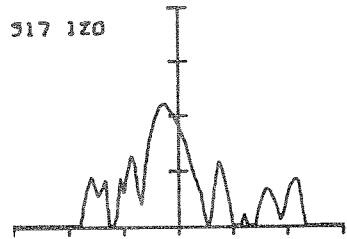
311 120



HERRING 21.0 CM 120 KHZ FISH NO 317

80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
68.6	62.6	60.6	63.7	66.6	65.1	63.7	63.7	60.6	56.0	
53.0	50.8	52.7	54.6	53.0	51.4	59.8	80.6	58.3	51.1	
53.8	50.3	46.8	48.6	53.8	56.0	48.4	44.4	41.6	39.6	
37.9	37.4	38.3	39.3	40.5	41.7	43.4	45.2	47.6	50.3	
52.0	54.2	57.7	62.6	58.3	51.7	48.0	49.7	52.3	56.0	
62.6	68.6	59.8	57.7	62.6	63.7	59.8	56.5	54.6	53.0	
53.8	55.1	56.5	59.0	57.1	54.2	52.0	51.1	52.3	56.5	
66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	
66.6										

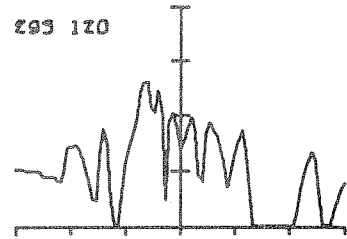
317 120



HERRING 22.5 CM 120 KHZ FISH NO 293

49.5	49.5	50.3	50.3	50.3	50.3	50.3	51.1	51.1	51.1	
51.1	52.0	52.0	50.3	45.5	45.5	45.1	46.0	47.6	49.5	
52.0	55.5	55.5	46.5	42.2	45.5	55.5	71.1	65.1	53.0	
48.2	45.5	43.1	40.5	35.8	33.6	33.7	38.6	39.5	35.3	
38.8	55.5	40.7	39.3	42.2	45.0	44.3	41.9	40.0	42.5	
51.1	52.0	43.1	41.0	42.5	43.9	46.0	48.8	53.0	49.5	
46.5	44.3	42.5	46.5	53.0	71.1	71.1	71.1	71.1	71.1	
71.1	71.1	71.1	71.1	71.1	71.1	65.1	57.1	53.0	50.3	
48.2	46.5	48.2	54.2	71.1	71.1	61.6	57.1	55.5	53.0	
52.0										

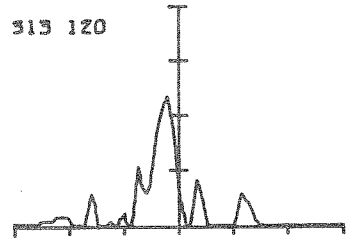
293 120



HERRING 23.2 CM 120 KHZ FISH NO 313

80.6	80.6	80.6	80.6	80.6	80.6	63.7	59.1	59.1	59.1	
59.1	58.4	58.4	58.4	58.4	59.1	61.6	63.7	68.6	63.7	
57.7	54.2	56.0	61.6	80.6	61.6	59.1	66.7	65.1	58.4	
57.7	63.7	80.6	55.1	48.8	53.0	54.2	52.7	48.4	43.3	
40.0	37.7	36.4	39.7	45.2	53.4	57.1	63.7	63.7	56.0	
51.7	54.2	57.1	61.6	61.6	61.6	60.6	60.6	60.6	61.6	
71.1	57.7	54.2	55.1	56.0	57.1	59.1	60.6	62.6	65.1	
71.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	
80.6										

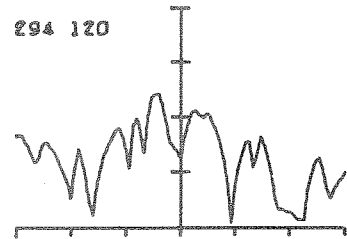
313 120



HERRING 23.4 CM 120 KHZ FISH NO 294

43.2	43.2	44.3	45.4	46.9	46.4	47.2	45.0	44.3	45.3	
46.2	47.4	48.8	50.2	52.2	54.8	49.5	45.7	48.0	50.7	
55.3	57.9	52.5	49.5	47.0	45.1	43.7	42.4	41.7	43.6	
46.0	49.3	41.1	40.0	42.6	46.4	39.4	36.2	35.6	35.7	
37.9	40.7	44.5	45.4	46.4	47.6	43.7	41.0	39.0	38.6	
39.6	40.3	39.2	39.9	41.4	43.0	45.1	47.8	51.6	59.3	
52.5	48.8	46.2	44.2	44.5	49.0	46.4	43.6	45.0	47.2	
50.2	54.8	56.8	56.8	57.3	57.3	57.9	58.6	58.6	58.6	
53.2	50.0	47.8	47.4	49.7	53.2	54.8	53.2	51.9	51.0	
50.0										

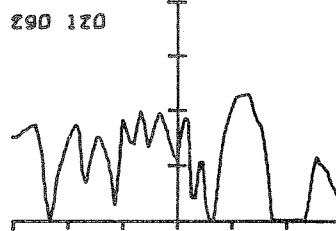
294 120



HERRING AT 120 KHZ

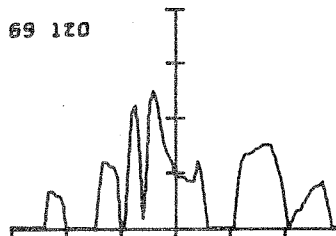
HERRING 24.7 CM 120 KHZ FISH NO 290

44.5	44.5	44.1	43.4	43.0	42.7	42.4	44.9	48.4	55.8
71.3	57.4	52.3	49.8	47.3	45.3	43.7	42.4	43.7	51.3
53.3	49.1	46.7	44.5	45.3	47.3	49.1	52.3	57.4	48.8
41.5	43.4	45.8	46.2	42.7	40.0	42.7	46.7	44.5	42.1
40.2	41.8	43.4	45.8	48.4	49.1	44.1	41.2	42.1	55.8
55.8	49.1	49.8	57.4	71.3	71.3	54.4	47.8	43.7	41.2
39.1	37.5	37.0	36.9	36.7	37.7	40.5	42.1	43.0	46.2
52.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
65.3	55.8	51.3	48.4	49.8	50.5	51.3	53.3	54.4	55.8
59.3									



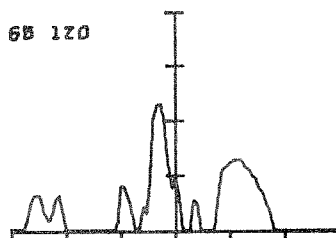
HERRING 28.0 CM 120 KHZ FISH NO 69

72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
53.2	53.2	54.2	54.2	55.4	72.3	72.3	72.3	72.3	72.3
72.3	72.3	72.3	72.3	53.2	47.7	48.2	48.8	48.8	50.7
66.3	72.3	48.2	38.7	37.5	42.8	58.3	50.0	36.9	34.8
37.5	41.4	45.1	46.7	48.2	50.7	50.7	50.7	51.5	51.5
51.5	47.7	50.0	55.4	72.3	72.3	72.3	72.3	72.3	72.3
72.3	60.3	51.5	47.7	46.3	46.3	45.9	45.5	45.1	44.7
44.7	45.1	46.7	48.8	51.5	55.4	60.3	58.3	56.7	56.7
55.4	54.2	53.2	52.3	52.3	51.5	54.2	56.7	60.3	66.3
72.3									



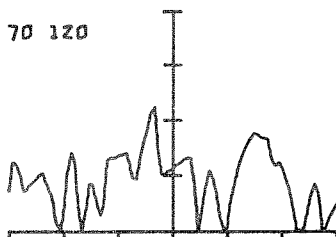
HERRING 28.3 CM 120 KHZ FISH NO 68

72.4	72.4	66.4	60.4	58.4	55.5	53.3	53.3	54.3	56.8
58.4	56.8	54.3	53.3	56.8	66.4	72.4	72.4	72.4	72.4
72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	58.4
51.6	52.4	54.3	56.8	62.9	72.4	55.5	56.8	50.8	39.2
36.7	36.7	40.4	47.3	52.4	50.1	53.3	60.4	72.4	72.4
54.3	55.5	66.4	72.4	72.4	72.4	58.4	52.4	48.3	47.8
47.3	46.8	46.8	47.3	48.3	48.9	50.1	50.8	52.4	53.3
55.5	56.8	60.4	62.9	72.4	72.4	72.4	72.4	72.4	72.4
72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
72.4									



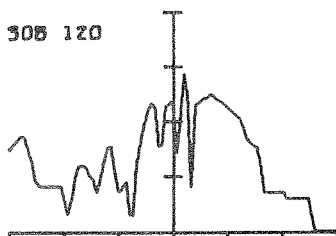
HERRING 28.7 CM 120 KHZ FISH NO 70

52.9	47.3	48.3	49.9	52.9	52.0	51.3	50.6	49.9	49.3
51.3	52.9	54.8	58.9	63.3	56.0	49.3	45.6	47.8	56.0
66.8	56.0	51.3	52.0	54.8	57.3	54.8	46.8	46.4	46.4
46.0	46.0	45.6	47.8	50.6	50.6	46.4	43.6	41.5	38.4
37.3	45.3	49.9	49.3	48.8	48.3	47.8	47.3	46.8	46.4
46.8	52.0	66.8	56.0	52.0	48.8	50.6	52.9	57.3	63.3
58.9	53.8	50.6	47.8	46.0	44.6	43.0	42.2	42.5	43.0
43.3	43.6	46.8	48.3	47.3	48.8	50.6	52.9	56.0	60.8
63.3	58.9	56.0	52.9	51.3	53.8	60.8	58.9	57.3	56.0
54.8									



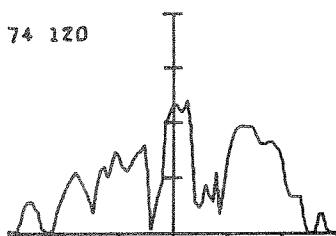
HERRING 29.5 CM 120 KHZ FISH NO 308

44.8	44.0	43.2	42.5	42.9	44.8	47.3	50.8	51.8	51.8
51.8	51.8	51.8	51.8	51.8	53.9	56.9	53.9	50.0	47.9
47.9	48.6	50.0	50.8	52.8	50.0	46.8	44.4	44.4	49.3
52.8	51.8	50.8	56.9	56.9	47.3	43.2	40.2	38.0	36.4
37.8	44.4	43.6	36.9	36.2	37.2	45.7	38.2	31.2	35.4
51.8	36.7	36.2	35.7	35.4	35.0	35.4	35.9	36.4	37.0
37.6	38.2	38.8	39.5	40.7	42.9	44.0	44.4	44.8	47.9
52.8	52.8	52.8	52.8	52.8	52.8	53.9	53.9	53.9	53.9
53.9	53.9	53.9	56.9	70.8	70.8	70.8	70.8	70.8	70.8
70.8									



HERRING 32.4 CM 120 KHZ FISH NO 74

73.4	63.9	61.4	57.9	55.4	54.3	54.3	55.4	56.5	59.4
61.4	63.9	59.4	56.5	54.3	52.6	51.1	49.9	48.8	49.9
51.1	52.6	54.3	56.5	51.8	48.3	47.8	49.9	47.8	45.1
46.2	47.8	48.8	47.8	46.6	45.5	44.8	43.9	48.8	59.4
55.4	52.6	50.5	40.0	38.0	36.4	36.8	38.1	37.2	35.8
41.0	54.3	55.4	54.3	51.1	53.4	54.3	48.8	56.5	51.1
46.2	43.3	41.2	40.5	40.5	40.7	40.7	41.2	42.5	43.9
43.9	43.3	43.3	44.2	45.1	47.0	51.1	53.4	53.4	53.4
53.4	57.9	73.4	73.4	63.9	56.5	56.5	59.4	61.4	63.9
73.4									

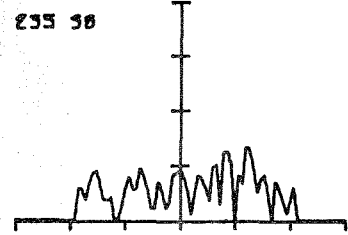


DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF MACKEREL AT 38 KHZ

MACKEREL 29.7 CM 38 KHZ FISH NO 235

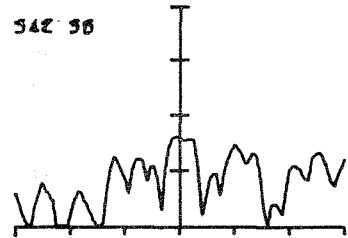
N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -28 TO 31 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	53.8	54.4	56.3
53.3	51.0	50.7	53.3	56.3	56.3	55.6	59.8	63.9	57.1	
53.8	51.9	54.4	53.8	50.3	51.9	54.4	57.9	57.9	52.8	
55.0	57.9	56.3	51.5	51.0	50.7	52.3	55.0	58.8	55.0	
51.5	52.8	54.4	56.3	49.9	49.6	57.1	47.3	47.3	49.9	
61.0	51.5	53.3	46.3	47.0	49.9	55.0	52.3	51.5	55.0	
62.3	52.8	54.4	56.3	58.8	56.3	53.8	77.9	77.9	77.9	
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	
77.9										



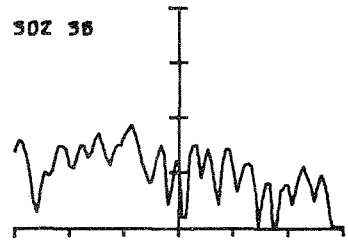
MACKEREL 30.5 CM 38 KHZ FISH NO 342

54.5	56.5	59.0	62.5	60.0	56.5	54.0	52.0	53.4	54.5	
55.8	62.5	68.5	62.5	60.0	57.2	55.1	53.4	54.5	55.8	
57.2	59.0	61.1	64.1	59.0	52.9	49.4	47.2	48.5	50.1	
51.6	54.0	49.4	47.7	47.9	48.5	52.0	48.8	49.1	51.6	
57.2	49.7	45.6	43.9	43.4	44.2	44.6	44.1	44.2	44.6	
48.8	58.0	55.1	51.6	50.4	50.8	54.5	50.8	48.2	46.2	
45.2	46.2	47.4	48.8	47.7	46.7	47.7	51.2	57.2	61.1	
55.8	55.8	57.2	58.0	52.9	49.4	48.8	49.7	50.4	51.6	
51.6	47.4	46.7	46.5	47.7	49.7	52.0	52.9	50.8	49.1	
47.7										



MACKEREL 31.5 CM 38 KHZ FISH NO 302

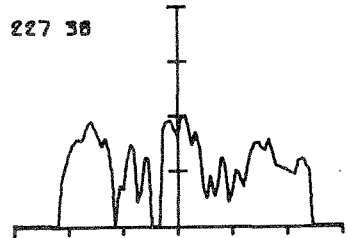
45.8	44.1	45.0	47.1	50.3	55.3	57.4	52.7	49.9	50.6	
49.6	46.9	44.8	45.4	46.0	49.0	49.3	46.6	44.8	45.4	
47.3	46.0	43.6	42.8	44.8	47.3	48.7	46.4	44.8	44.8	
43.3	42.1	41.2	43.0	45.2	48.4	50.6	52.2	50.3	47.1	
45.0	46.9	55.9	53.1	47.9	49.0	58.2	58.2	46.6	44.8	
44.8	51.0	47.9	45.6	48.1	53.1	55.9	48.4	45.4	46.2	
49.6	53.6	50.6	48.4	48.4	49.3	53.6	64.2	54.7	51.8	
52.2	61.3	60.2	53.1	52.2	52.7	55.9	52.7	50.3	48.7	
50.6	52.7	55.3	52.2	50.3	52.7	56.6	62.7	66.2	61.3	
78.2										



MACKEREL 32.4 CM 38 KHZ FISH NO 227

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -32 TO 36 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

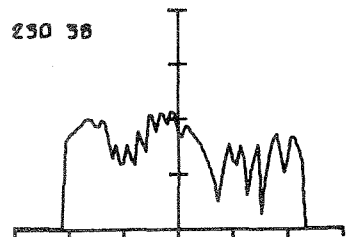
78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	
78.0	78.0	78.0	51.5	48.7	46.6	44.9	44.0	44.5	43.7	
41.6	40.8	42.1	43.7	45.5	43.8	46.4	50.7	59.9	52.4	
53.4	48.2	44.9	46.4	55.7	53.4	47.4	48.2	62.4	62.4	
62.4	41.9	40.7	40.6	42.7	43.8	40.0	39.6	42.0	45.3	
42.7	45.9	53.4	55.1	50.7	54.5	52.4	47.4	48.7	55.7	
53.4	49.7	51.1	52.9	49.4	46.6	44.7	44.7	45.7	46.2	
44.0	46.6	49.0	49.4	49.7	50.0	50.4	50.7	47.9	47.6	
48.7	50.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	
78.0										



MACKEREL 32.5 CM 38 KHZ FISH NO 230

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -31 TO 34 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

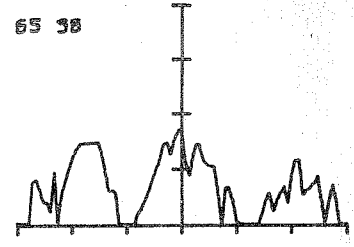
77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	
77.5	77.5	77.5	77.5	43.7	42.8	42.2	41.5	41.0	40.3	
39.9	40.3	41.1	41.4	40.2	41.0	44.2	47.1	44.6	48.2	
47.7	44.6	47.4	48.2	42.1	44.0	45.9	39.0	39.6	42.4	
38.9	39.4	41.0	38.5	39.3	42.4	43.3	41.1	41.9	42.8	
43.7	44.8	46.1	47.7	49.5	51.9	55.2	50.3	46.9	44.4	
47.7	48.5	45.0	47.4	54.0	49.2	46.4	44.6	57.5	50.6	
46.4	43.7	42.7	45.7	49.9	47.4	43.2	43.9	45.7	47.9	
77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	
77.5										



MACKEREL AT 36 KHZ

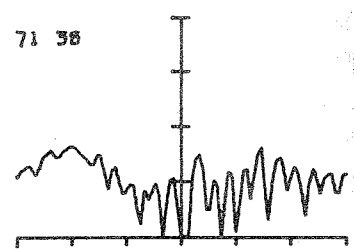
MACKEREL 33.0 CM 38 KHZ FISH NO 65

77.7	77.7	77.7	71.6	52.1	51.6	54.1	56.1	56.1	57.7
50.4	59.6	54.7	52.1	49.7	47.8	46.3	45.2	45.2	45.2
45.0	45.0	45.0	47.0	49.7	54.1	53.6	54.7	62.1	68.1
63.7	62.1	59.6	57.7	56.8	55.4	53.6	51.6	49.7	48.1
45.2	45.0	47.3	44.4	42.7	42.7	46.4	51.2	47.6	45.2
45.8	48.7	49.4	49.4	49.7	54.7	65.6	53.1	53.6	56.1
59.6	65.6	77.7	77.7	68.1	63.7	59.6	57.7	55.4	54.1
57.7	55.4	54.1	53.1	56.1	51.2	48.1	48.4	54.7	53.6
53.1	52.1	51.2	55.4	59.6	55.4	52.6	56.1	63.7	77.7
68.1									



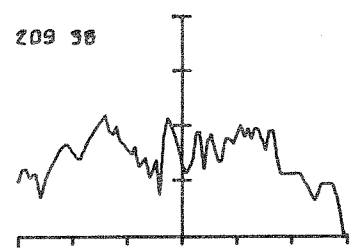
MACKEREL 33.0 CM 38 KHZ FISH NO 71

48.8	48.0	47.3	47.1	48.0	48.8	47.2	45.4	44.8	44.2
45.3	45.6	44.8	44.2	43.6	43.6	44.1	44.7	45.3	46.1
46.9	46.4	44.9	45.7	46.1	51.4	47.9	47.1	49.8	52.3
51.4	50.4	51.2	55.2	57.8	51.5	53.3	51.5	50.1	52.1
63.3	53.9	49.5	49.1	54.7	60.3	63.3	67.7	49.5	45.7
44.8	48.0	55.2	54.7	49.6	51.1	60.3	53.9	48.0	49.4
59.2	54.3	47.7	47.5	53.2	48.7	44.6	43.6	50.8	57.0
49.8	45.9	45.5	47.2	51.5	49.1	47.1	48.8	52.1	56.2
50.0	47.5	49.5	52.1	49.3	48.3	48.7	52.0	52.0	48.5
48.5									



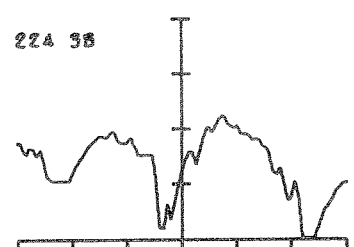
MACKEREL 33.0 CM 38 KHZ FISH NO 209

50.2	47.7	48.0	49.5	48.6	49.2	53.2	50.6	48.6	47.2
45.8	44.7	43.7	43.2	44.0	44.9	46.0	46.0	44.2	42.8
41.6	40.5	39.5	39.7	37.9	41.2	41.6	40.0	42.8	43.7
44.4	45.3	43.7	47.4	46.4	45.6	49.5	47.7	46.0	52.7
41.4	38.5	40.1	41.8	44.2	47.2	48.6	47.2	45.8	40.9
41.3	48.0	42.4	41.4	44.2	46.7	45.8	42.1	42.7	43.3
41.3	39.8	42.2	40.2	42.5	40.2	41.2	42.8	44.7	40.8
40.8	46.0	48.9	48.6	48.6	48.6	48.3	48.9	49.9	51.0
52.2	53.7	52.2	50.2	50.6	50.6	51.0	52.7	55.5	60.9
77.8									



MACKEREL 33.2 CM 38 KHZ FISH NO 224

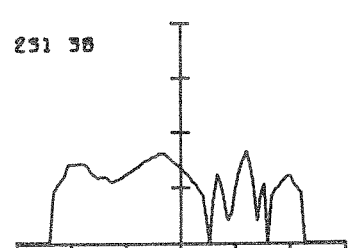
42.4	43.4	44.8	43.4	43.8	45.0	43.8	46.0	48.8	49.5
49.5	49.5	49.5	49.5	49.5	48.0	46.7	45.4	44.5	43.6
42.7	42.0	41.3	41.4	41.8	40.9	40.4	41.4	42.7	42.8
42.2	41.6	43.3	44.8	44.8	44.6	44.5	45.2	49.5	58.1
58.1	53.5	56.5	53.5	50.1	47.5	45.6	43.9	44.5	46.5
43.9	41.1	39.5	40.6	39.7	38.2	37.5	38.4	39.5	39.9
39.3	40.7	41.1	41.2	42.0	41.6	42.2	43.0	43.6	44.6
48.0	48.5	47.0	49.5	53.0	52.1	49.5	52.5	60.0	68.5
64.1	60.0	58.1	56.5	54.6	53.5	52.5	51.2	50.5	49.8



MACKEREL 33.4 CM 38 KHZ FISH NO 231

N.B. YS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -35 TO 33 DEGREES INCLUSIVE, SEE TEXT FOR FURTHER EXPLANATION.

78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
50.4	49.4	48.5	47.7	45.6	45.6	45.4	45.3	45.4	45.9
46.7	47.7	48.2	47.9	47.9	48.5	48.8	48.5	48.2	47.9
47.4	47.0	46.5	46.1	45.6	45.1	44.7	44.3	44.0	43.7
43.8	44.2	44.7	45.3	45.9	46.5	47.2	47.9	48.8	49.4
50.4	51.5	55.4	62.8	51.9	47.4	49.4	52.3	56.0	54.2
49.7	46.7	44.5	43.2	45.6	49.4	56.0	50.7	49.1	62.8
51.1	50.0	49.4	48.5	47.7	47.9	49.1	50.4	50.7	78.3
78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
78.3									

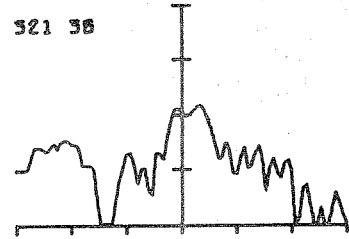


MACKEREL AT 38 KHZ

MACKEREL 34.0 CM 38 KHZ FISH NO 321

50.4	50.4	50.1	49.7	47.6	45.8	46.1	46.5	46.8	46.1
45.2	46.3	45.0	44.6	45.0	45.4	45.4	46.5	49.4	49.4
49.4	50.1	55.4	63.7	63.7	62.1	62.1	56.1	52.1	49.4
47.0	46.8	49.4	52.6	49.7	49.7	54.1	54.7	46.8	47.3
48.1	43.9	41.0	38.9	39.0	39.5	40.2	39.7	39.1	38.4
38.2	39.4	40.9	42.7	45.0	48.1	47.3	45.0	46.3	50.8
50.8	47.8	45.8	49.7	49.0	46.8	45.6	48.4	54.1	49.7
47.8	50.4	51.6	48.7	48.1	50.8	62.1	58.6	53.1	52.6
56.1	63.7	63.7	56.8	60.8	60.8	56.8	54.1	56.1	58.6
63.7									

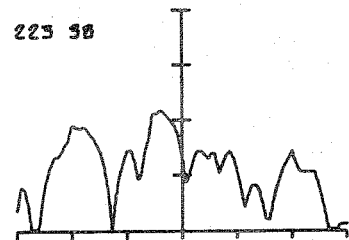
321 38



MACKEREL 34.3 CM 38 KHZ FISH NO 223

56.5	52.1	53.0	55.8	61.2	72.1	59.0	54.0	50.9	48.6
46.7	46.5	45.8	44.5	43.3	40.8	41.4	41.7	41.0	41.7
42.7	43.6	44.8	46.1	48.6	53.5	60.0	54.0	50.1	47.5
45.4	45.2	47.5	50.9	49.2	45.4	42.8	38.7	38.5	38.1
38.7	39.5	40.4	41.2	43.1	46.3	51.3	49.5	47.2	45.4
45.6	46.3	47.0	45.8	46.1	49.5	47.7	46.3	45.4	47.0
49.2	52.1	55.8	53.5	51.7	51.7	53.0	55.2	58.1	58.1
54.0	51.7	49.8	48.0	46.7	45.4	47.7	49.5	49.5	49.2
49.2	49.5	51.3	53.5	56.5	60.0	60.0	60.0	59.0	59.0
59.0									

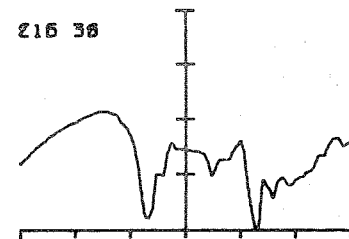
223 38



MACKEREL 34.7 CM 38 KHZ FISH NO 216

47.9	47.2	46.4	45.8	45.2	44.6	44.1	43.4	42.9	42.5
42.0	41.6	41.3	40.9	40.5	40.2	39.9	39.5	39.2	39.0
38.7	38.4	38.3	38.6	38.9	39.1	39.3	40.1	41.0	41.9
43.1	45.0	48.5	54.0	58.0	58.0	55.8	49.7	50.1	50.4
45.8	44.1	45.2	45.4	45.4	45.6	45.8	46.0	46.0	46.2
46.4	47.7	50.4	49.1	47.4	47.2	47.2	46.9	45.6	44.4
43.7	45.8	52.5	56.5	61.1	64.1	50.8	52.0	52.9	54.5
51.2	50.4	51.2	52.0	51.6	50.8	50.4	50.1	49.4	49.1
48.5	46.4	46.2	46.4	44.6	43.4	43.2	44.1	45.0	44.1
44.1									

216 38

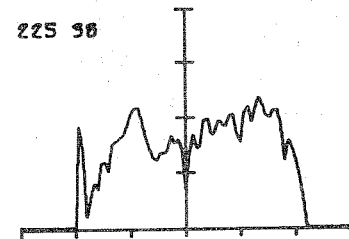


MACKEREL 34.7 CM 38 KHZ FISH NO 225

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -29 TO 33 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
78.0	78.0	78.0	78.0	78.0	78.0	41.3	46.2	58.0	54.5
51.6	52.9	47.9	47.7	49.7	44.4	43.9	43.4	42.9	41.3
39.2	38.0	38.1	40.3	43.2	45.2	47.2	47.7	46.2	46.2
45.4	43.1	44.6	43.7	46.0	52.9	46.4	42.8	45.6	44.4
40.1	39.9	43.1	42.3	40.2	41.4	41.1	39.2	39.1	43.2
44.4	38.9	37.7	40.8	38.1	36.1	37.8	39.8	40.0	38.3
38.7	41.1	47.9	43.9	45.6	47.7	50.4	55.1	64.1	78.0
78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
78.0									

225 38

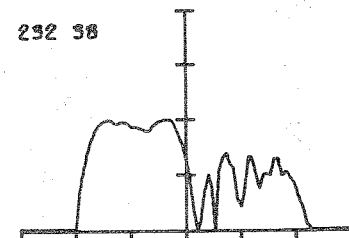


MACKEREL 34.7 CM 38 KHZ FISH NO 232

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -29 TO 35 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
78.1	78.1	78.1	78.1	78.1	78.1	53.0	48.8	46.0	43.8
42.1	40.7	40.2	39.9	39.8	40.5	40.7	40.3	40.2	40.8
41.3	41.2	41.6	41.8	42.2	41.8	40.8	40.2	40.0	39.8
40.0	40.2	41.3	42.8	44.8	47.2	50.8	56.5	78.1	58.1
53.0	49.8	52.5	60.0	48.8	46.5	45.8	48.2	48.8	54.6
55.8	52.5	46.5	47.4	49.8	52.5	49.8	49.8	50.1	47.0
47.0	50.1	49.4	50.1	51.2	52.5	54.6	56.5	59.0	62.5
72.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
78.1									

232 38



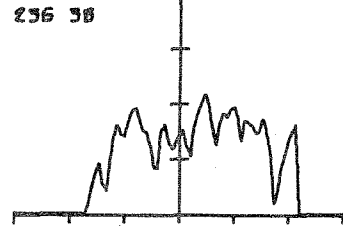


MACKEREL AT 38 KHZ

MACKEREL 35.0 CM 38 KHZ FISH NO 236

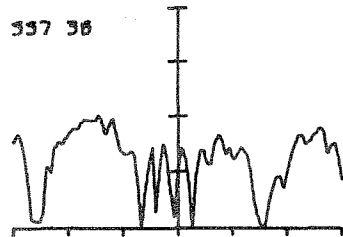
N.B. TS FUNCTION MEASURED ONLY FOR TILT  
 ANGLES FROM -26 TO 32 DEGREES INCLUSIVE.  
 SEE TEXT FOR FURTHER EXPLANATION.

78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	64.1
58.1	54.6	52.1	50.5	54.6	55.8	49.8	46.0	43.6	45.6	
45.8	43.1	40.9	40.5	42.7	45.0	45.2	47.7	51.6	51.6	
44.6	43.4	46.3	48.2	46.7	45.4	44.6	48.0	49.4	44.1	
41.4	39.5	37.9	39.9	43.8	47.4	43.4	41.4	42.5	40.8	
40.3	41.9	46.7	42.7	43.6	43.9	45.2	44.6	42.4	44.3	
48.8	58.1	55.8	51.6	48.8	46.7	45.0	43.6	78.1	78.1	
78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	
78.1										



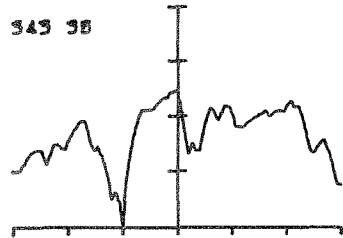
MACKEREL 35.0 CM 38 KHZ FISH NO 337

44.2	42.9	45.1	48.1	52.6	59.1	59.1	59.1	57.4	48.9	
50.2	45.5	44.4	44.9	43.7	42.8	41.9	42.3	41.3	40.3	
40.7	41.0	40.8	39.6	40.7	43.4	41.4	40.1	42.5	45.9	
47.1	46.6	46.1	47.3	52.6	61.3	52.6	48.4	45.5	57.4	
48.9	44.7	47.6	53.6	58.2	49.6	45.3	47.8	52.6	60.1	
50.2	45.7	46.4	48.9	48.4	44.2	43.2	44.4	46.8	45.5	
47.8	46.8	46.5	46.4	47.1	50.2	55.9	58.2	60.1	60.1	
55.3	52.6	50.6	50.6	53.1	49.9	47.1	44.7	43.1	43.1	
44.9	44.0	43.2	42.5	41.8	43.2	46.8	45.1	44.6	47.3	
51.7										



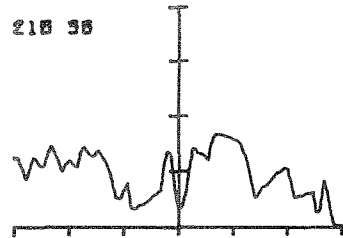
MACKEREL 35.3 CM 38 KHZ FISH NO 343

50.2	50.2	49.2	48.3	47.2	46.5	46.1	45.9	47.0	48.9	
46.8	44.9	45.1	45.9	45.9	44.3	43.0	41.9	40.9	40.6	
41.7	44.7	46.3	45.5	47.0	48.9	51.3	55.2	53.5	55.8	
64.1	51.7	46.3	43.0	40.6	38.8	38.7	38.6	38.6	37.8	
37.0	36.5	36.5	35.5	35.2	36.1	39.0	43.6	47.0	44.7	
46.3	45.9	42.4	40.1	38.2	39.5	40.7	39.2	37.9	38.4	
39.6	42.0	42.1	41.6	41.1	40.5	40.1	39.6	39.2	38.8	
40.0	39.4	38.8	38.9	39.3	38.0	37.1	38.3	38.0	39.4	
41.7	45.1	46.8	45.9	44.9	44.1	45.7	47.2	49.5	52.5	
52.5										



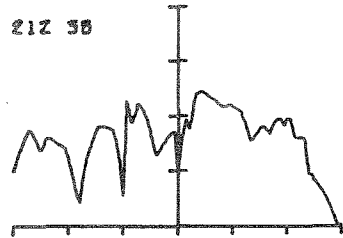
MACKEREL 35.4 CM 38 KHZ FISH NO 218

47.3	48.0	49.8	51.6	49.8	47.5	48.3	49.2	48.9	46.8	
45.2	46.6	48.3	50.1	48.3	48.0	48.9	49.2	46.6	45.5	
46.4	47.3	46.8	46.2	47.3	48.6	50.1	52.4	54.9	54.9	
53.3	52.0	56.8	56.8	56.1	56.1	55.5	54.9	54.3	53.8	
53.3	48.3	46.2	47.1	53.3	56.8	56.1	53.3	48.6	45.7	
46.4	46.8	47.5	47.8	44.8	43.0	43.3	43.5	43.8	43.9	
44.3	44.4	45.2	46.8	48.9	51.6	54.9	53.8	52.8	52.4	
51.6	50.8	50.1	49.8	49.2	49.8	52.0	54.9	54.3	54.3	
53.8	53.8	53.8	57.6	56.8	51.6	53.8	57.6	62.9	61.5	
78.4										



MACKEREL 36.0 CM 38 KHZ FISH NO 212

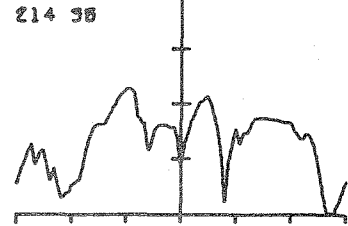
50.1	47.5	45.4	43.8	42.4	43.3	44.7	46.3	45.4	43.8	
44.3	44.7	45.2	45.6	46.1	48.0	50.5	54.0	55.8	50.9	
47.5	45.2	43.3	41.8	42.0	42.1	42.4	42.7	44.5	48.3	
54.6	37.1	41.3	39.6	37.7	38.6	40.3	42.2	44.8	47.2	
45.8	44.8	43.9	43.1	42.8	50.1	44.1	40.6	42.5	39.1	
35.9	35.3	35.8	36.2	36.7	37.2	37.8	38.4	38.2	37.9	
38.4	38.8	39.3	40.7	42.5	44.5	43.6	42.7	41.8	42.4	
43.3	41.7	40.5	40.5	41.8	40.4	40.7	44.1	44.1	43.9	
44.7	50.5	51.2	52.1	53.0	54.0	55.2	56.5	58.1	60.0	
78.1										



MACKEREL AT 38 KHZ

MACKEREL 36.0 CM 38 KHZ FISH NO 214

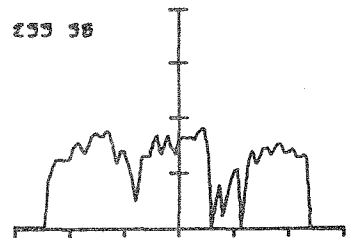
54.5	52.0	50.1	48.5	47.2	51.2	48.8	48.2	50.8	54.0
51.6	54.5	57.2	56.5	55.8	54.5	54.0	53.5	51.2	48.0
45.8	43.9	43.6	43.6	43.6	41.9	40.7	39.6	38.5	37.6
37.0	37.3	38.0	42.4	43.3	43.7	48.5	46.7	44.3	43.7
43.9	44.1	44.4	44.1	46.2	51.6	47.4	44.8	42.6	41.0
39.6	39.0	38.6	39.9	42.1	45.0	49.4	58.1	50.8	46.9
44.4	47.4	45.2	45.4	43.9	42.5	42.5	42.6	42.8	42.9
43.1	43.1	43.3	43.4	43.6	43.7	44.8	46.2	46.5	45.4
45.8	47.4	49.8	53.0	57.2	68.5	66.0	61.2	58.1	55.8
54.0									



MACKEREL 36.3 CM 38 KHZ FISH NO 233

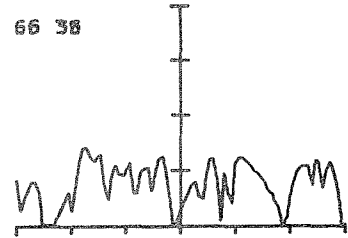
N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM +36 TO 35 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	51.1
49.0	47.4	47.4	47.4	47.4	46.9	44.9	44.2	45.3	46.4
44.9	43.0	42.4	43.3	43.3	42.1	42.7	45.3	48.2	45.7
46.2	48.4	51.1	55.1	51.5	46.6	46.9	46.4	44.2	42.9
46.6	44.5	42.9	45.3	46.6	43.7	43.2	43.8	43.2	44.0
42.7	41.6	42.4	45.9	64.0	55.1	52.0	58.0	54.5	51.1
49.4	49.0	59.9	52.9	47.6	45.7	48.4	46.9	45.3	45.1
46.6	45.5	44.4	44.9	46.4	45.7	45.5	46.9	47.1	46.4
47.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
78.0									



MACKEREL 37.0 CM 38 KHZ FISH NO 66

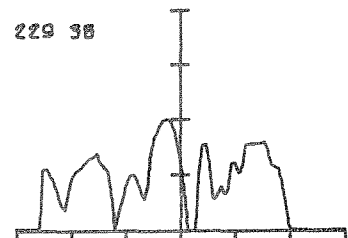
52.3	57.5	54.8	53.3	51.9	52.3	54.3	60.3	66.3	62.8
60.3	58.4	56.8	55.4	53.8	57.5	53.3	48.5	45.7	45.7
47.5	48.5	47.5	47.0	52.8	55.4	50.8	48.8	50.8	51.1
49.7	48.5	54.3	53.8	50.1	49.4	49.4	53.8	50.4	47.7
47.2	50.4	54.8	61.5	59.3	56.8	55.4	53.8	52.3	51.9
54.8	55.4	50.8	47.7	48.0	51.9	59.3	50.4	54.3	56.1
48.5	47.5	48.0	48.5	49.1	50.1	50.8	51.5	52.3	53.8
54.8	56.1	57.5	60.3	58.4	54.3	51.9	49.7	49.1	49.4
49.4	52.8	48.0	49.1	53.3	49.7	48.3	50.4	53.3	78.4
78.4									



MACKEREL 37.0 CM 38 KHZ FISH NO 229

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -38 TO 30 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

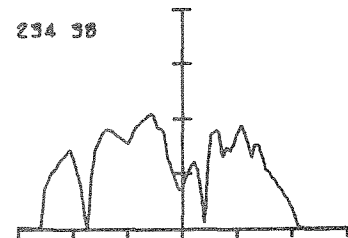
78.0	78.0	78.0	78.0	78.0	78.0	78.0	48.7	48.7	50.0
51.5	53.4	55.7	56.4	52.9	50.4	49.3	48.7	48.1	47.3
46.8	46.4	45.9	48.1	48.7	49.7	53.9	61.1	56.4	53.9
51.5	50.0	50.0	51.1	52.9	54.4	51.5	45.3	42.9	41.3
39.9	39.8	40.2	41.3	43.8	47.1	52.4	61.1	62.4	65.9
50.0	44.3	44.3	47.9	54.4	53.4	51.9	53.4	52.4	47.6
47.9	49.7	48.1	44.3	44.2	44.2	44.0	44.0	43.8	45.5
48.4	48.7	49.0	51.9	56.4	68.4	78.0	78.0	78.0	78.0
78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
78.0									



MACKEREL 37.0 CM 38 KHZ FISH NO 234

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -38 TO 32 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

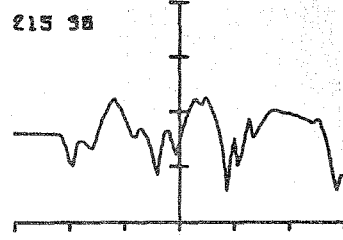
78.1	78.1	78.1	78.1	78.1	78.1	78.1	52.5	51.2	42.8
48.8	47.7	47.0	46.3	45.4	47.2	49.5	52.5	57.3	68.5
50.5	45.4	43.9	42.7	41.8	42.2	42.7	43.1	43.6	44.1
44.6	43.4	41.4	40.8	40.1	39.6	39.0	39.8	41.6	42.0
42.7	47.2	49.1	50.9	53.0	52.5	50.5	48.8	47.7	49.1
52.5	59.0	48.0	42.7	42.0	42.8	47.0	45.2	46.0	44.5
42.7	41.2	42.7	44.6	47.0	44.6	45.2	47.2	49.5	50.1
51.2	52.1	53.0	54.0	55.2	56.5	58.1	61.2	78.1	78.1
78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
78.1									



MACKEREL AT 38 KHZ

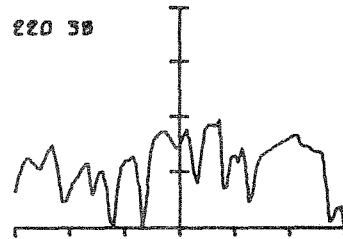
MACKEREL 37.5 CM 38 KHZ FISH NO 215

43.8	43.8	43.9	43.9	43.9	43.9	43.9	44.1	44.1	44.1
44.1	44.3	44.3	44.7	46.8	49.3	49.9	45.4	45.2	45.7
46.3	46.8	45.2	42.9	41.3	39.7	38.4	37.5	38.5	39.6
41.0	42.6	44.7	44.7	43.1	43.4	44.8	46.5	48.7	51.5
46.8	43.4	43.6	45.4	47.8	45.7	42.8	40.8	39.0	37.6
38.4	38.8	37.4	39.3	39.8	41.8	44.3	47.8	54.4	48.1
44.7	49.9	47.5	43.8	41.3	44.8	43.6	42.3	41.4	40.4
39.6	39.7	40.0	40.2	40.4	40.5	40.8	41.0	41.3	41.5
41.8	42.1	41.4	41.6	43.3	45.2	48.1	51.9	54.4	51.5
51.5									



MACKEREL 37.8 CM 38 KHZ FISH NO 220

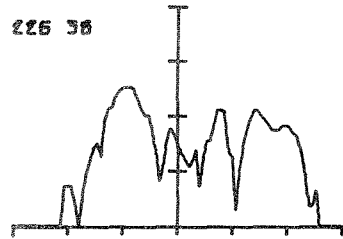
53.7	50.7	48.5	47.3	47.9	48.5	49.2	49.2	47.6	46.1
44.9	47.3	50.3	55.6	54.9	53.1	51.6	50.7	49.6	48.5
48.2	54.3	52.1	49.9	49.6	53.1	59.1	60.3	53.1	48.9
47.9	47.6	47.1	48.5	52.6	61.6	54.3	46.3	43.9	43.2
42.5	42.5	43.6	44.5	45.8	44.9	43.4	42.2	45.4	50.3
52.1	45.8	42.2	41.3	41.6	41.6	40.4	53.1	52.1	47.1
46.8	48.2	45.4	48.5	55.6	53.7	48.9	47.1	46.5	46.1
45.6	45.1	44.7	44.3	43.9	43.6	43.2	43.2	45.1	45.4
45.6	46.1	46.3	46.5	46.8	52.6	59.1	58.1	56.3	56.3
71.2									



MACKEREL 38.0 CM 38 KHZ FISH NO 226

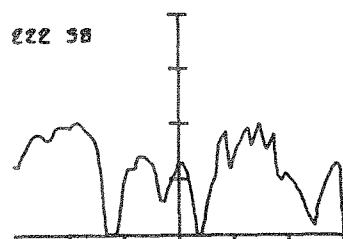
N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -31 TO 38 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
77.9	77.9	77.9	77.9	52.4	52.8	52.8	56.4	62.4	54.4
50.3	47.3	45.3	44.7	47.3	40.3	38.4	38.0	36.5	35.1
34.6	34.7	34.8	35.2	36.8	38.7	40.0	39.7	42.1	45.7
51.9	48.7	44.7	42.0	43.3	44.9	46.8	48.1	49.3	47.8
45.9	52.8	47.1	44.3	44.0	41.2	38.5	39.0	39.5	46.8
47.6	57.1	49.0	45.1	42.4	40.3	38.6	39.3	40.0	40.8
41.8	42.8	42.5	42.0	41.4	41.8	42.5	43.3	44.5	47.1
50.7	56.4	55.7	53.3	77.9	77.9	77.9	77.9	77.9	77.9
77.9									



MACKEREL 38.2 CM 38 KHZ FISH NO 222

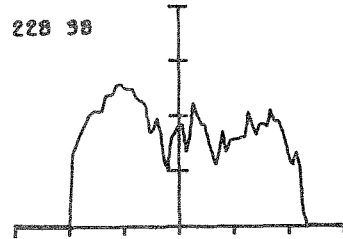
47.3	47.3	45.6	44.4	43.2	42.1	41.7	42.1	42.6	43.0
42.3	40.9	40.2	40.4	40.6	41.0	39.9	39.5	40.2	40.9
41.7	42.4	43.3	45.2	50.1	63.7	77.7	77.7	71.6	55.4
50.1	47.8	47.8	47.6	45.6	45.8	46.3	46.8	47.3	50.1
54.1	54.1	51.6	50.1	48.4	47.0	46.8	48.7	51.2	54.7
60.8	62.1	56.8	53.6	50.8	49.0	43.3	42.0	41.3	48.4
46.1	44.0	42.6	41.1	40.5	43.9	41.7	39.8	42.3	44.8
43.2	41.8	49.4	50.4	48.7	49.7	50.4	51.6	52.6	54.1
56.1	57.7	58.6	54.7	52.6	50.4	49.0	47.6	47.0	48.1
77.7									



MACKEREL 38.7 CM 38 KHZ FISH NO 228

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -29 TO 34 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

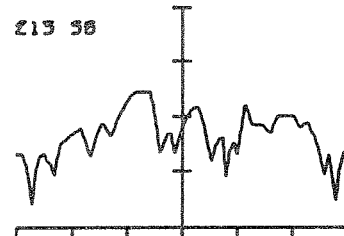
77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
77.7	77.7	77.7	77.7	77.7	77.7	46.6	44.7	42.9	41.6
40.3	39.3	38.9	39.3	38.8	36.1	35.9	35.7	34.2	34.3
35.1	35.2	34.9	36.4	37.2	37.5	38.5	43.1	42.3	40.2
43.2	47.9	50.1	43.9	42.5	41.5	41.6	46.6	43.2	37.6
39.6	41.7	41.6	44.3	46.6	48.8	46.4	42.6	46.6	44.3
44.1	43.9	43.7	43.6	39.1	41.5	43.6	41.3	41.7	42.0
38.9	41.1	40.9	42.3	44.5	47.4	49.1	46.4	49.1	57.7
77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
77.7									



MACKEREL AT 38 KHZ

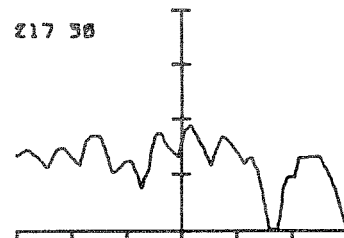
MACKEREL 39.0 CM 38 KHZ FISH NO 213

46.6	46.8	48.3	51.7	55.9	49.9	47.0	46.6	47.8	48.9
50.6	46.8	44.5	44.0	43.4	42.9	42.5	42.0	43.5	45.5
47.3	44.7	42.7	41.1	42.0	43.4	42.7	40.9	39.4	38.1
36.9	35.9	35.3	35.3	35.4	35.4	35.4	37.9	41.5	46.6
44.5	42.9	43.2	46.8	44.0	42.0	40.3	38.9	38.1	38.2
39.5	41.9	45.3	48.1	45.1	43.8	43.7	50.9	46.1	44.5
47.0	42.6	37.7	39.5	41.5	41.6	41.3	41.9	42.6	43.0
41.0	39.7	39.8	39.8	39.9	40.0	40.9	42.0	41.3	41.0
42.3	43.8	45.7	48.1	50.6	46.8	50.9	55.2	49.5	46.3
46.3									



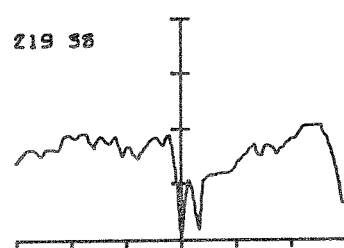
MACKEREL 39.4 CM 38 KHZ FISH NO 217

46.2	45.8	45.2	45.6	46.2	46.7	47.4	47.9	48.8	47.7
46.2	45.2	44.8	45.4	46.2	46.9	47.7	48.5	45.8	43.7
42.8	42.8	42.8	43.4	45.2	47.2	49.7	49.1	48.5	47.9
47.2	47.4	48.8	50.4	52.5	50.4	48.8	44.8	42.5	42.3
43.4	45.0	45.6	46.2	46.9	44.1	41.8	40.9	41.8	42.8
44.1	45.4	46.9	48.5	46.2	44.4	42.9	43.4	44.2	45.0
46.0	46.9	48.2	46.9	46.7	48.2	50.1	52.9	56.5	62.5
62.5	60.0	57.2	52.0	50.1	50.1	50.1	46.7	46.7	46.7
46.5	46.5	46.5	47.4	48.5	49.7	51.2	52.9	55.1	58.0
78.0									



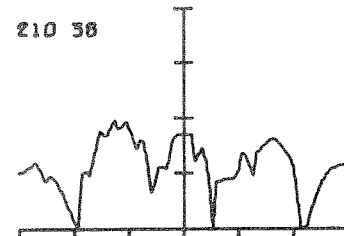
MACKEREL 39.9 CM 38 KHZ FISH NO 219

45.8	45.0	44.1	43.5	43.6	44.0	44.8	44.5	43.6	43.5
43.8	44.0	42.9	41.1	40.8	41.5	41.8	40.9	40.6	40.9
42.3	43.5	41.9	41.1	42.0	42.9	42.0	41.1	42.9	45.2
43.3	43.0	45.0	45.4	44.3	43.3	42.4	41.6	41.4	42.2
43.0	41.4	40.9	44.5	50.7	62.7	53.7	49.0	51.0	55.4
58.3	49.0	48.5	48.2	48.2	47.9	47.9	47.9	47.7	47.4
46.2	45.4	44.7	44.0	43.3	42.6	45.0	44.8	42.9	43.0
43.6	44.5	43.6	43.0	42.3	41.6	41.8	40.8	39.6	39.2
39.2	39.1	39.1	39.3	40.6	42.0	43.8	46.0	49.0	53.7
53.7									



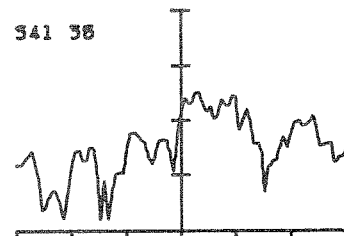
MACKEREL 40.4 CM 38 KHZ FISH NO 210

49.8	49.5	48.9	48.6	48.0	48.9	50.2	51.7	50.5	50.9
51.7	53.0	54.1	55.9	57.3	59.1	62.6	49.8	49.5	50.5
48.0	44.5	42.3	43.2	42.9	41.2	40.3	42.0	41.4	40.5
41.9	43.5	45.7	43.8	44.5	48.0	53.5	51.7	48.9	48.9
49.2	47.0	43.5	42.9	42.9	43.0	43.0	43.0	47.8	46.5
45.5	47.8	52.1	61.2	51.3	51.3	50.9	50.9	50.9	50.5
49.2	46.1	47.3	48.9	50.5	46.1	45.5	44.7	44.2	43.7
44.0	44.7	45.5	46.3	47.5	48.9	53.0	62.6	64.2	59.1
56.6	54.6	52.6	51.3	50.2	49.2	48.9	48.6	48.3	48.3
48.0									



MACKEREL 41.5 CM 38 KHZ FISH NO 341

48.0	48.0	47.1	46.3	45.6	48.0	51.2	56.4	55.6	53.7
52.6	53.7	55.6	58.1	53.1	48.3	45.4	45.4	47.4	47.1
44.7	45.4	49.6	58.1	50.8	58.1	53.1	49.6	49.3	49.6
45.2	42.2	42.2	42.9	43.6	44.1	46.8	48.0	45.6	43.6
43.4	43.8	46.1	49.3	42.4	38.6	36.0	37.0	36.4	34.8
34.8	37.2	38.5	37.5	39.7	38.9	36.1	37.1	37.5	35.3
35.9	41.9	39.6	37.8	40.4	44.3	44.1	45.8	53.1	48.3
47.4	47.1	44.7	42.9	45.0	42.4	40.4	39.9	41.0	40.7
40.2	39.0	41.2	44.7	44.3	44.0	44.0	47.7	46.8	46.3
45.6									

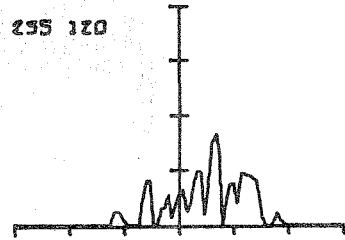


DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF MACKEREL AT 120 KHZ

MACKEREL 29.7 CM 120 KHZ FISH NO 235

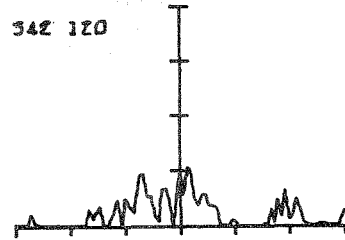
N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -26 TO 32 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	73.7
71.2	67.6	66.3	64.1	62.4	62.4	64.1	57.6	57.2	58.1	
59.1	60.3	61.6	63.2	60.3	54.9	51.6	52.3	62.4	60.9	
56.8	56.4	54.3	58.6	56.0	54.0	53.4	57.6	56.0	52.1	
49.9	50.5	58.1	52.8	44.7	43.2	46.5	61.6	55.6	52.1	
52.3	56.0	50.3	50.7	50.9	51.4	51.8	54.3	58.6	66.3	
63.2	59.1	57.6	59.1	60.9	63.2	62.4	59.7	83.2	83.2	
83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	
83.2										



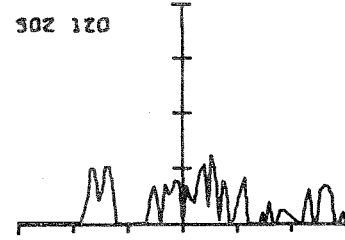
MACKEREL 30.5 CM 120 KHZ FISH NO 342

82.4	70.3	63.3	60.1	57.7	59.4	61.5	63.3	66.8	70.3	
64.3	61.5	63.3	66.8	70.3	72.8	63.3	61.5	76.3	82.4	
56.8	58.8	57.2	56.3	60.1	64.3	58.3	56.8	55.1	60.1	
54.8	56.3	67.7	54.4	50.5	50.5	54.8	54.4	58.3	59.4	
53.1	53.1	55.1	60.8	54.8	49.9	54.4	49.1	50.8	55.1	
56.3	54.1	54.4	56.3	56.3	57.2	63.3	68.4	62.4	58.8	
59.4	64.3	66.8	65.5	64.3	62.4	61.5	60.1	59.4	63.3	
56.8	59.4	55.1	58.3	53.4	58.8	57.7	54.8	56.8	59.4	
63.3	62.4	60.8	59.4	59.4	65.5	65.5	62.4	60.1	58.3	
56.8										



MACKEREL 31.5 CM 120 KHZ FISH NO 302

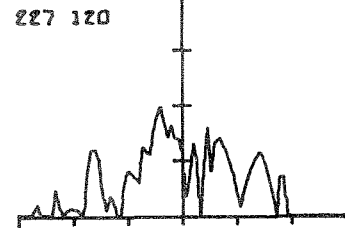
83.0	77.0	73.5	71.0	67.4	66.1	63.9	63.0	64.9	69.0	
69.0	64.9	63.9	64.1	71.0	69.0	63.0	59.5	57.0	55.0	
49.6	50.5	55.8	53.5	49.4	49.9	54.4	63.0	67.4	69.0	
69.0	71.0	73.5	77.0	83.0	83.0	55.0	52.9	55.8	60.7	
52.6	54.7	53.5	51.9	52.9	62.2	52.9	55.8	56.2	52.4	
50.1	49.0	57.0	47.3	50.3	59.5	51.9	53.5	63.9	58.9	
55.8	53.5	51.4	64.9	62.2	62.2	73.5	57.9	62.2	55.8	
66.1	62.2	57.4	57.9	58.4	58.9	59.5	63.9	62.2	55.8	
53.5	60.1	61.4	53.5	52.9	53.5	55.0	69.0	61.4	57.9	
83.0										



MACKEREL 32.4 CM 120 KHZ FISH NO 227

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -42 TO 29 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

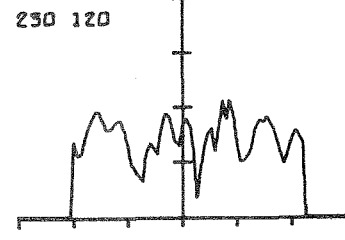
83.0	83.0	83.0	67.5	59.0	57.9	60.1	64.0	69.1	61.5	
55.1	58.4	65.0	59.0	58.4	59.0	59.0	71.0	57.9	51.5	
47.8	47.9	49.6	55.4	59.0	56.2	57.9	62.2	60.1	54.1	
51.7	52.4	53.2	54.1	47.5	48.4	48.9	44.6	41.8	40.0	
43.0	45.8	43.6	45.8	46.3	48.6	56.6	52.4	46.7	50.4	
62.2	50.0	43.8	51.9	46.5	45.7	46.9	48.4	50.2	52.4	
55.4	58.4	55.1	52.9	51.0	49.6	48.4	49.2	51.0	53.2	
56.2	60.8	52.7	52.7	62.2	83.0	83.0	83.0	83.0	83.0	
83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
83.0										



MACKEREL 32.5 CM 120 KHZ FISH NO 230

N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -30 TO 33 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

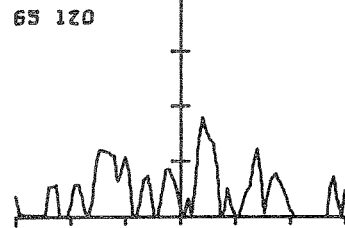
81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	
81.5	81.5	81.5	81.5	81.5	46.2	48.8	48.2	45.6	43.6	
42.0	40.6	41.0	42.5	44.2	43.8	43.1	42.4	42.5	44.4	
47.0	50.6	51.9	52.8	53.5	48.2	46.5	47.5	48.6	44.4	
41.0	41.6	43.3	46.3	47.1	43.0	42.0	43.5	47.7	56.4	
51.1	47.1	44.6	43.7	48.0	43.1	38.7	42.2	38.6	41.6	
46.5	49.9	49.2	48.4	47.0	43.7	42.1	42.8	41.7	42.6	
44.1	45.9	48.2	50.3	47.7	45.6	44.0	45.2	46.5	81.5	
81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	
81.5										



MACKEREL AT 120 KHZ

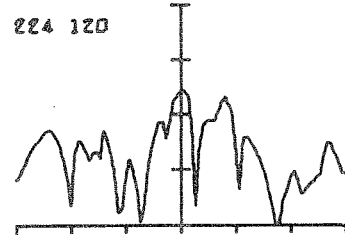
MACKEREL 33.0 CM 120 KHZ FISH NO 65

56.7	59.6	64.0	73.6	83.1	83.1	83.1	83.1	83.1	54.5
54.5	54.2	67.6	66.2	65.1	58.0	54.2	54.2	56.3	59.6
64.0	56.3	50.2	47.8	48.2	48.5	48.8	49.1	53.9	51.3
49.1	51.7	65.1	65.1	57.1	53.3	52.5	55.9	61.5	61.5
55.2	51.3	51.5	53.3	55.5	58.5	60.2	56.7	59.6	54.8
46.1	41.9	44.7	46.1	46.9	51.5	69.1	59.0	54.8	58.5
69.1	67.6	57.5	55.5	54.5	50.6	47.6	52.2	59.6	55.9
53.0	52.2	53.6	54.8	56.7	59.0	62.3	66.2	77.1	83.1
83.1	83.1	77.1	77.1	73.6	60.8	54.5	52.7	57.1	62.3
55.2									



MACKEREL 33.2 CM 120 KHZ FISH NO 224

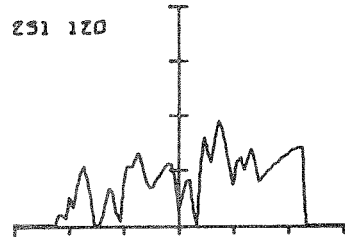
52.0	50.7	49.0	47.6	46.3	45.3	44.6	43.7	42.9	42.7
43.5	44.6	46.0	48.5	52.0	56.7	47.1	44.6	45.6	46.7
48.5	46.7	46.7	48.0	42.7	44.9	47.6	51.3	58.0	56.7
51.3	48.0	50.7	53.6	59.6	56.7	49.5	46.0	43.5	41.3
41.1	44.3	40.9	37.3	36.3	35.3	35.8	36.9	42.9	56.7
46.3	41.8	40.9	41.1	41.1	39.4	37.6	36.6	38.0	39.8
46.0	53.6	44.0	44.0	44.9	46.0	47.6	49.0	50.7	53.6
56.7	61.5	59.6	55.5	53.6	51.3	50.1	52.0	54.5	53.6
52.7	52.0	51.3	50.7	47.6	44.9	45.6	47.1	48.5	50.7
50.7									



MACKEREL 33.4 CM 120 KHZ FISH NO 231

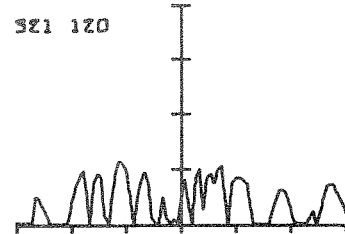
N.B. YS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -33 TO 34 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
83.3	83.3	57.7	58.2	58.7	54.6	56.8	52.9	50.2	48.8
51.4	55.3	62.4	65.2	58.7	55.3	52.9	54.3	57.7	59.2
52.4	48.8	49.3	48.0	46.5	48.5	51.7	53.2	52.6	51.4
50.4	49.3	48.5	48.8	51.7	57.3	54.6	51.7	51.4	57.3
61.0	48.6	43.7	46.5	48.5	43.7	40.6	42.4	45.2	49.3
52.6	48.2	47.3	50.0	47.7	45.8	48.5	51.9	51.0	50.2
49.5	48.8	48.3	47.7	47.1	46.6	46.1	45.7	45.5	45.8
83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
83.3									



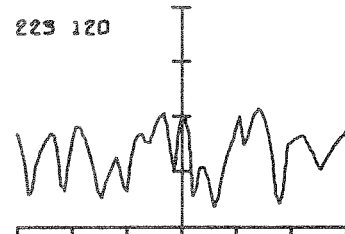
MACKEREL 34.0 CM 120 KHZ FISH NO 321

83.1	83.1	83.1	83.1	83.1	54.8	55.9	57.1	58.5	60.2
63.1	66.2	71.1	65.0	59.0	55.5	53.0	51.1	50.0	53.6
61.5	52.0	50.6	51.7	58.5	64.0	55.1	50.6	48.3	49.3
50.4	54.5	60.8	55.1	52.0	50.2	52.7	59.0	71.1	59.6
54.8	59.0	67.5	59.0	61.5	55.1	51.7	56.7	60.8	51.1
49.7	57.5	51.1	50.6	52.5	49.7	49.1	54.5	63.1	52.0
51.3	51.7	52.2	52.7	56.7	83.1	83.1	73.6	64.0	60.2
57.5	55.5	53.6	53.9	55.1	57.1	59.6	63.1	61.5	60.2
59.0	57.5	63.1	58.0	55.1	52.7	52.5	53.6	54.8	56.3
58.0									



MACKEREL 34.3 CM 120 KHZ FISH NO 223

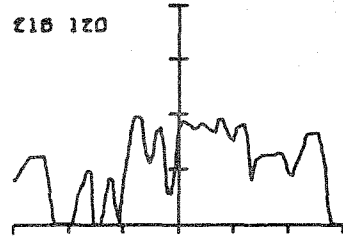
43.2	45.7	49.1	54.6	53.1	48.9	46.4	45.1	44.0	43.1
43.6	47.0	52.6	53.7	47.6	44.2	41.7	42.1	43.5	45.1
47.2	50.0	53.7	54.9	52.3	50.3	48.6	47.2	49.4	52.8
53.7	47.6	44.3	43.0	43.0	44.6	44.8	42.9	41.2	39.9
39.2	42.1	46.6	50.1	43.0	39.9	40.4	43.4	54.6	52.8
49.1	49.1	51.0	53.4	56.4	54.6	51.0	48.2	46.2	44.1
41.8	39.9	45.1	43.8	41.4	39.5	38.4	39.5	40.9	43.3
47.6	54.6	56.0	53.4	44.9	44.4	43.9	43.5	43.3	44.3
45.6	47.0	48.6	49.8	48.4	47.1	45.9	44.9	44.1	43.3
42.5									



MACKEREL AT 120 KHZ

MACKEREL 34.7 CM 120 KHZ FISH NO 216

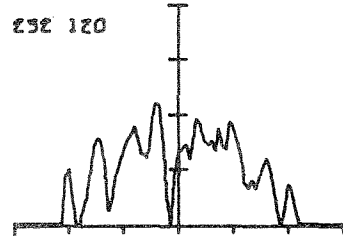
52.1	50.7	49.6	48.5	47.6	47.6	47.6	47.6	47.6	50.7
55.6	64.1	73.6	73.6	73.6	67.6	59.7	56.7	53.6	52.1
50.1	50.7	61.6	73.6	64.1	55.6	51.4	52.1	56.7	59.7
52.1	48.1	43.0	40.2	40.4	41.2	47.2	49.0	47.2	43.0
42.3	45.7	54.6	54.6	49.6	42.5	41.2	41.6	42.0	42.8
42.3	41.6	42.0	42.5	43.0	43.5	40.6	40.8	42.5	44.4
45.0	42.3	41.8	41.6	45.0	52.1	48.1	47.6	47.2	47.2
47.2	47.2	46.8	47.2	48.5	50.7	51.4	49.0	47.6	46.0
43.5	43.3	43.3	43.3	45.7	49.6	56.7	61.6	67.6	73.6



MACKEREL 34.7 CM 120 KHZ FISH NO 232

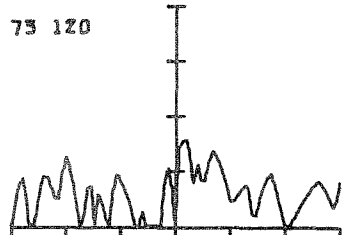
N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -31 TO 32 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
83.2	83.2	83.2	83.2	51.1	49.6	54.2	64.1	59.7	56.7
54.9	49.9	45.3	43.9	45.3	49.6	57.6	55.2	51.1	48.4
46.4	44.7	43.3	42.0	44.3	47.3	48.1	46.0	40.6	37.6
39.0	45.8	55.6	60.3	49.9	46.4	45.8	45.1	48.1	45.0
40.6	42.0	44.9	45.6	44.6	46.7	42.3	45.6	46.4	41.0
42.5	44.7	47.8	52.5	53.6	51.6	53.6	51.4	49.4	47.9
50.1	53.1	57.2	66.3	57.2	52.5	53.9	57.6	83.2	83.2
83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2



MACKEREL 35.0 CM 120 KHZ FISH NO 73

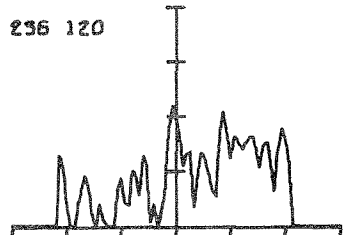
61.9	55.8	52.3	51.1	54.7	61.1	62.7	56.7	53.1	50.6
51.3	53.1	55.1	55.1	50.2	47.3	49.2	52.1	56.2	64.6
58.1	52.6	52.6	59.8	54.1	56.2	58.6	61.9	53.7	50.2
51.6	53.1	55.1	57.1	60.4	62.7	57.1	60.4	64.6	73.1
82.7	60.4	52.1	49.2	53.1	61.1	45.2	44.2	44.2	48.0
52.1	48.5	51.6	51.8	48.0	46.2	47.4	48.9	50.4	52.6
55.5	55.1	54.1	53.1	52.3	53.4	58.1	58.1	55.1	52.9
51.1	50.2	52.1	54.4	57.6	62.7	60.4	58.6	57.6	56.2
55.1	54.1	53.1	52.3	51.6	52.6	53.7	55.1	56.7	55.1



MACKEREL 35.0 CM 120 KHZ FISH NO 236

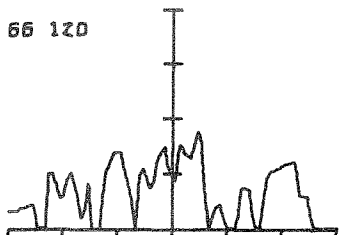
N.B. TS FUNCTION MEASURED ONLY FOR TILT ANGLES FROM -32 TO 31 DEGREES INCLUSIVE. SEE TEXT FOR FURTHER EXPLANATION.

83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
83.0	83.0	83.0	46.7	49.8	56.2	73.5	60.7	55.8	52.9
50.5	53.2	58.4	71.0	55.8	58.9	73.5	71.0	67.4	52.9
51.0	55.8	56.2	49.8	50.7	54.4	47.0	48.9	59.5	55.8
63.9	57.0	53.5	42.0	37.9	40.3	43.5	49.0	46.6	46.2
56.6	50.1	46.5	47.6	50.1	53.5	54.7	43.1	39.0	43.4
47.7	43.6	44.8	45.9	44.7	43.7	43.8	46.1	49.2	44.9
44.5	48.2	53.5	45.9	42.0	44.4	47.6	83.0	83.0	83.0
83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0



MACKEREL 37.0 CM 120 KHZ FISH NO 66

57.1	56.7	56.7	56.2	56.2	55.8	55.5	56.7	82.7	82.7
73.1	49.8	50.0	51.6	54.4	53.7	50.9	49.6	51.6	54.1
58.1	56.2	51.6	62.7	67.1	82.7	53.4	49.2	47.9	45.9
46.0	46.2	49.6	52.1	55.5	60.4	50.0	48.9	50.6	52.6
51.1	47.4	45.8	44.8	49.1	50.0	51.1	44.6	45.7	46.8
47.1	44.2	42.1	44.3	52.9	60.4	57.6	55.8	55.5	58.1
61.1	65.8	73.1	57.1	52.3	52.6	53.1	57.6	67.1	62.7
54.4	50.2	49.4	49.1	48.7	48.4	48.0	47.9	47.6	49.1
54.1	54.4	54.4	58.1	82.7	82.7	82.7	82.7	82.7	82.7

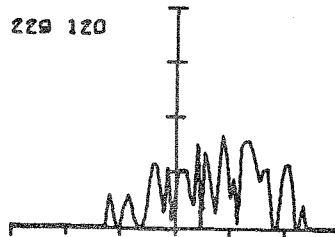


MACKEREL AT 120 KHZ

MACKEREL 37.0 CM 120 KHZ FISH NO 229

N.B. TS FUNCTION MEASURED ONLY FOR TILT  
 ANGLES FROM -19 TO 35 DEGREES INCLUSIVE.  
 SEE TEXT FOR FURTHER EXPLANATION.

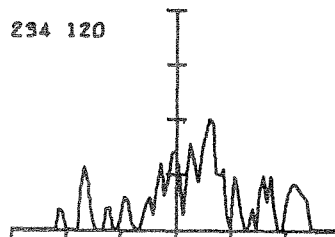
83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
83.3	83.3	83.3	83.3	83.3	83.3	83.3	69.3	53.8	56.5	83.3
61.7	56.1	54.1	56.1	58.7	63.3	71.3	57.3	51.5	48.1	
49.3	53.5	57.3	48.8	58.7	53.8	49.2	49.5	49.9	54.4	
56.1	44.7	67.8	46.2	48.8	54.4	57.3	48.8	42.9	47.2	
54.7	50.9	59.2	44.9	43.9	44.0	45.9	48.7	51.7	49.2	
49.0	55.0	61.7	61.7	51.1	48.2	48.5	52.7	61.0	59.2	
55.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	
83.3										



MACKEREL 37.0 CM 120 KHZ FISH NO 234

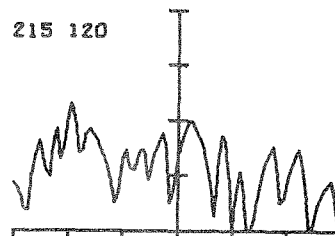
N.B. TS FUNCTION MEASURED ONLY FOR TILT  
 ANGLES FROM -38 TO 36 DEGREES INCLUSIVE.  
 SEE TEXT FOR FURTHER EXPLANATION.

73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
73.0	73.0	60.9	56.1	57.4	63.4	73.0	66.9	60.9	52.1	
48.4	51.4	57.4	73.0	73.0	73.0	56.1	56.1	63.4	63.4	
57.4	53.9	54.9	59.0	66.9	63.4	57.4	54.9	53.9	57.4	
51.4	47.9	53.9	50.7	45.7	46.1	50.0	57.4	49.4	44.3	
47.4	51.4	46.1	42.6	39.9	40.7	50.0	50.0	48.9	57.4	
60.9	50.0	53.0	57.4	63.4	59.0	56.1	60.9	53.0	50.0	
54.9	50.0	56.1	73.0	60.9	56.1	53.0	51.4	52.1	53.0	
53.9	54.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	
73.0										



MACKEREL 37.5 CM 120 KHZ FISH NO 215

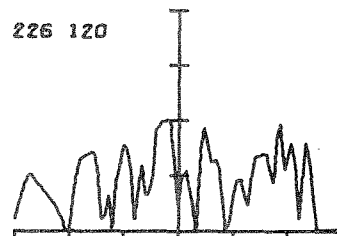
51.6	52.4	54.1	56.3	56.3	49.7	46.3	43.6	46.0	49.1	
50.3	43.6	41.4	47.2	43.9	39.2	36.8	40.1	46.0	45.2	
42.1	41.4	42.6	43.6	45.2	46.7	48.6	51.6	55.1	52.4	
47.2	45.2	48.6	49.1	47.2	45.2	46.0	50.9	48.1	45.6	
43.6	42.3	45.2	55.1	51.6	47.2	43.9	41.8	40.1	40.3	
41.8	43.4	45.2	48.1	51.6	57.6	48.1	42.6	43.9	50.3	
61.1	53.2	49.1	53.2	61.1	67.2	57.6	53.2	50.3	47.6	
46.0	44.6	47.6	55.1	54.1	50.9	48.6	46.7	45.2	47.2	
52.4	63.6	59.2	56.3	54.1	52.4	51.6	50.9	54.1	61.1	
73.2										



MACKEREL 38.0 CM 120 KHZ FISH NO 226

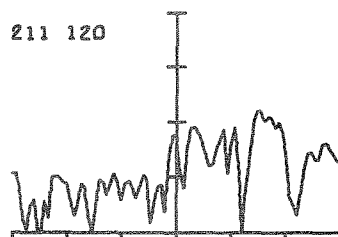
N.B. TS FUNCTION MEASURED ONLY FOR TILT  
 ANGLES FROM -45 TO 37 DEGREES INCLUSIVE.  
 SEE TEXT FOR FURTHER EXPLANATION.

58.0	55.5	52.8	50.7	49.5	50.1	51.3	52.0	52.8	53.6	
54.5	55.5	56.7	58.0	61.5	64.0	54.5	49.0	46.7	46.3	
46.0	45.6	46.3	50.1	58.0	56.7	53.6	59.6	51.3	47.1	
44.3	45.3	49.5	58.0	52.8	48.0	53.6	52.8	50.1	41.5	
40.3	40.0	39.6	40.5	49.0	55.5	50.1	49.0	52.0	55.5	
61.5	45.0	41.3	44.3	47.6	47.1	48.5	53.6	64.0	58.0	
53.6	50.7	50.7	53.6	55.5	50.1	46.3	46.3	46.0	46.0	
49.5	51.3	43.2	40.5	49.0	46.3	44.0	48.5	58.0	50.1	
44.0	48.0	54.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	
73.6										



MACKEREL 38.2 CM 120 KHZ FISH NO 211

49.1	49.3	52.7	58.0	59.6	55.3	53.9	59.6	63.5	54.3	
57.5	49.7	49.7	50.3	51.0	51.4	53.9	57.0	55.0	51.2	
52.2	57.5	68.6	55.7	50.5	51.2	53.3	51.2	49.3	51.4	
54.3	51.0	50.5	52.2	53.9	51.7	49.5	50.7	58.5	55.3	
51.4	51.4	56.5	46.9	42.2	42.7	48.6	52.2	44.8	40.9	
41.0	42.3	43.9	45.8	48.1	47.3	44.8	42.8	41.2	49.5	
43.7	40.9	48.1	60.3	51.7	47.3	39.9	37.9	38.1	39.9	
39.0	39.6	41.2	40.0	42.1	46.0	53.6	55.3	57.0	53.0	
48.6	45.5	45.7	47.0	46.9	43.8	44.1	45.1	46.2	47.4	
47.4										

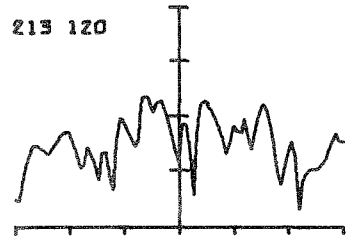




MACKEREL AT 120 KHZ

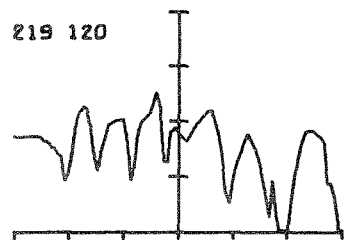
MACKEREL 39.0 CM 120 KHZ FISH NO 213

55.6	55.6	51.6	48.9	46.9	45.2	45.6	46.0	46.4	46.9
46.0	44.9	44.2	43.2	42.6	43.2	44.9	46.9	49.5	48.4
45.6	47.4	48.9	51.6	46.4	46.4	50.9	53.4	44.5	40.2
41.3	42.6	44.2	45.6	43.8	36.3	36.2	37.5	39.2	37.3
36.9	38.5	40.4	42.9	46.4	48.4	41.1	41.8	46.0	54.4
42.6	37.3	37.0	38.1	39.2	40.6	42.4	44.2	46.9	44.5
41.6	42.9	43.2	40.2	43.5	46.0	42.1	39.6	37.7	38.7
41.1	44.5	50.2	52.5	48.9	46.4	44.5	47.8	56.9	51.6
50.2	49.5	49.5	49.5	48.9	47.8	46.0	44.5	43.2	44.9
44.9									



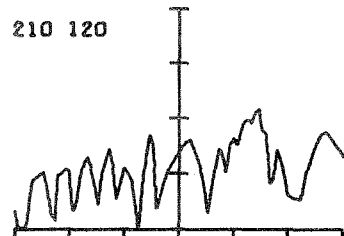
MACKEREL 39.9 CM 120 KHZ FISH NO 219

42.7	42.7	42.7	42.5	42.5	42.5	42.5	43.0	43.5	43.8
44.5	45.1	45.9	46.6	50.8	49.0	45.1	40.0	37.8	37.1
37.8	41.0	46.6	49.0	45.1	42.5	40.4	40.0	39.6	39.5
39.5	43.5	50.8	47.1	41.5	39.8	39.1	38.4	36.6	34.6
37.5	47.5	47.5	41.7	41.0	42.0	43.0	43.5	42.5	41.3
40.2	39.5	38.6	37.8	38.0	40.0	42.5	46.2	53.1	55.0
50.8	47.5	45.5	43.5	42.2	43.5	45.1	47.1	49.6	53.1
57.5	50.8	57.5	73.1	73.1	67.1	55.0	49.6	45.9	43.5
41.7	41.5	42.0	42.5	43.0	44.1	51.5	51.5	54.0	63.5
73.1									



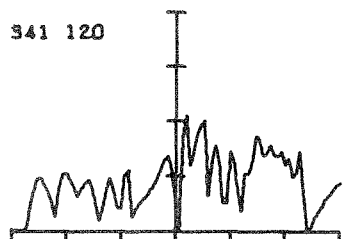
MACKEREL 40.4 CM 120 KHZ FISH NO 210

57.2	60.3	65.1	62.4	55.2	51.2	50.5	50.0	49.6	52.8
57.6	58.6	50.3	49.8	49.1	49.6	56.8	54.6	50.5	47.9
46.9	49.2	52.3	55.6	50.3	47.1	45.5	48.9	54.6	51.6
48.9	50.0	51.2	55.6	69.2	52.6	46.4	42.9	44.8	56.4
53.7	51.4	49.8	48.2	46.9	45.9	44.9	44.1	43.7	45.3
47.1	49.2	52.3	57.2	53.1	48.6	45.5	46.7	49.8	44.5
43.5	44.8	42.1	40.4	40.0	40.9	38.6	38.1	42.3	42.9
51.8	50.9	45.6	47.6	50.3	54.0	54.6	54.6	54.9	53.1
49.8	47.5	45.6	44.1	42.8	42.3	43.1	43.9	44.9	45.9
47.1									



MACKEREL 41.5 CM 120 KHZ FISH NO 341

81.0	81.0	81.0	68.9	59.4	55.4	52.4	50.3	50.3	51.7
53.0	55.0	57.5	52.7	49.6	49.4	50.6	52.0	53.7	52.4
51.4	50.6	52.0	54.5	58.1	55.4	52.4	50.3	52.4	55.9
55.9	49.9	48.7	57.5	55.9	55.0	54.1	53.4	52.4	51.7
50.3	48.3	46.8	46.2	49.2	53.7	62.9	62.9	42.5	38.7
45.4	42.0	40.5	39.8	53.7	46.5	44.2	47.9	55.0	55.0
45.3	47.5	52.7	56.4	49.2	49.6	46.8	42.7	43.4	46.3
45.6	44.2	46.2	46.5	45.4	48.1	46.7	50.1	49.2	45.4
52.0	61.0	59.4	57.5	56.4	55.4	54.1	53.4	52.7	51.7
51.2									

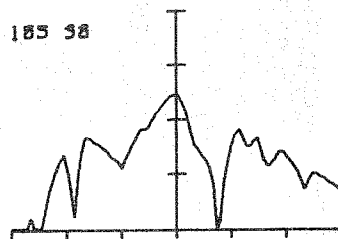


DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF POLLACK AT 38 KHZ

POLLACK 19.7 CM 38 KHZ FISH NO 185

76.9	76.9	76.9	67.3	60.0	57.8	61.3	70.8	62.9	56.9
53.3	51.3	49.3	47.6	46.2	48.6	52.2	57.8	50.0	46.0
43.2	43.4	44.0	44.4	44.8	45.5	46.0	46.8	47.3	47.9
48.9	47.0	45.5	44.0	42.9	41.7	41.7	41.3	40.1	39.0
38.0	37.1	36.3	35.6	35.3	35.2	36.3	38.0	40.0	42.5
44.8	45.7	46.8	47.6	48.9	51.8	64.8	57.8	50.8	47.0
44.4	42.4	41.7	43.2	44.8	44.8	43.6	43.2	45.3	47.6
48.6	47.6	46.8	45.7	46.0	46.8	47.6	48.6	49.6	51.3
52.8	50.8	49.6	50.0	50.4	50.8	51.3	51.8	52.2	52.8
53.3									

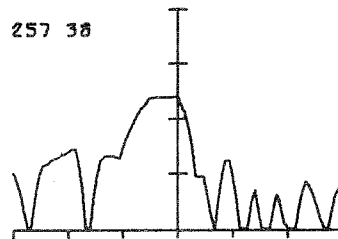
185 38



POLLACK 20.6 CM 38 KHZ FISH NO 257

49.9	51.7	54.1	57.3	62.6	59.1	53.6	50.2	48.3	48.1
47.5	47.1	46.8	46.4	46.1	45.7	45.3	45.5	48.3	52.6
60.1	61.3	53.6	49.9	47.1	46.6	46.6	46.8	47.1	47.3
45.1	43.2	41.5	40.2	39.0	38.0	37.1	36.2	35.9	35.8
35.8	35.8	35.8	35.8	35.7	36.0	37.5	39.4	41.8	45.1
50.6	50.2	50.6	53.6	57.3	64.2	54.7	50.2	47.3	47.5
50.2	54.1	62.6	78.2	66.1	55.3	52.6	56.6	62.6	78.2
62.6	56.6	53.6	55.3	59.1	66.1	68.6	60.1	55.9	53.1
51.3	52.6	54.1	55.9	58.2	61.3	61.3	56.6	53.6	52.2
78.2									

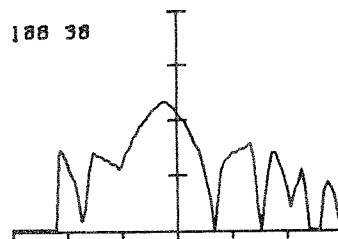
257 38



POLLACK 20.8 CM 38 KHZ FISH NO 188

68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
68.0	68.0	68.0	45.1	46.4	48.0	49.9	51.1	54.0	58.5
56.0	48.9	45.7	46.4	46.4	47.2	47.2	48.0	48.0	48.9
48.0	45.7	44.5	42.9	42.0	40.8	40.0	39.1	38.2	37.6
36.9	36.4	36.6	37.4	37.9	38.7	39.7	40.4	41.6	42.9
44.5	45.7	48.0	51.1	54.0	62.0	54.0	48.9	47.2	46.4
45.7	45.7	45.1	45.1	44.5	43.9	47.2	56.0	62.0	54.0
48.9	45.7	45.7	48.0	49.9	52.4	56.0	52.4	51.1	48.9
52.4	62.0	68.0	68.0	68.0	52.4	51.1	52.4	54.0	58.5
62.0									

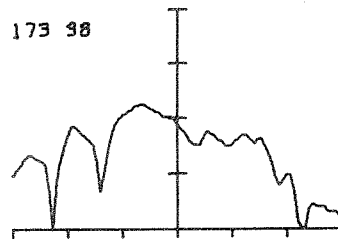
188 38



POLLACK 21.2 CM 38 KHZ FISH NO 173

50.5	49.3	48.3	47.4	46.6	46.8	47.4	47.7	48.0	48.6
53.4	60.0	51.8	48.0	45.1	43.0	41.4	41.7	42.3	43.0
43.5	44.3	44.9	48.0	53.4	49.3	45.8	43.1	41.1	39.7
39.2	38.8	38.3	37.9	37.5	37.3	37.7	38.1	38.5	38.8
39.2	39.7	39.6	39.6	40.3	41.1	42.0	42.8	43.9	44.7
44.9	44.9	43.5	42.3	42.8	43.3	43.9	44.3	44.9	45.1
44.5	43.9	43.3	42.8	43.3	43.9	44.7	43.7	43.5	44.9
46.6	48.3	50.9	52.3	50.9	50.1	50.5	53.4	58.9	70.9
63.0	56.1	55.4	56.1	56.1	56.1	56.9	56.9	56.9	57.9
57.9									

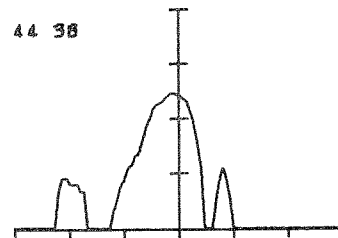
173 38



POLLACK 21.5 CM 38 KHZ FISH NO 44

68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
68.8	68.8	53.3	50.8	50.8	51.9	51.9	51.9	53.3	53.3
62.8	68.8	68.8	68.8	68.8	68.8	62.8	56.8	54.8	51.9
50.8	48.8	48.0	46.5	45.9	43.7	41.2	39.6	37.9	37.2
36.8	36.2	35.6	35.2	35.6	35.8	36.2	37.0	38.7	40.9
44.2	48.8	62.8	68.8	62.8	54.8	50.8	48.8	50.8	54.8
62.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
68.8									

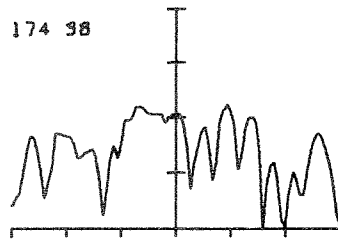
44 38



POLLACK 21.5 CM 38 KHZ FISH NO 174

56.1	54.7	53.4	49.7	46.1	43.3	43.9	46.6	50.1	54.7
51.4	49.0	42.8	43.0	43.3	43.5	43.7	44.9	47.4	46.9
46.3	45.8	45.6	47.1	50.9	57.9	52.9	47.4	44.9	47.4
44.5	40.3	40.2	39.5	37.9	37.8	38.5	39.1	39.5	39.5
39.3	39.5	41.0	39.8	39.2	39.3	39.5	41.4	45.4	52.9
48.0	44.7	42.1	41.4	44.9	51.4	47.7	40.2	38.4	37.4
39.0	41.0	49.4	46.6	41.7	39.8	39.8	41.2	46.6	61.4
51.4	48.3	48.0	51.8	50.9	60.1	53.4	49.7	51.4	54.0
54.0	49.0	45.6	43.3	42.5	43.9	45.8	48.3	51.8	57.9
77.0									

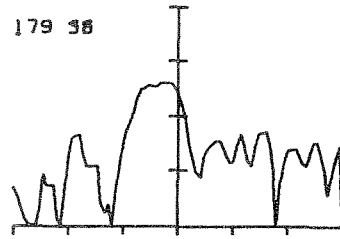
174 38



POLLACK AT 38 KHZ

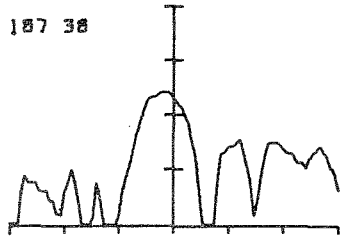
POLLACK 21.5 CM 38 KHZ FISH NO 179

53.4	54.6	56.9	58.8	61.3	64.9	76.9	56.9	50.5	52.8
52.8	52.8	58.8	76.9	52.8	46.5	43.7	43.3	43.3	47.1
49.3	49.3	48.9	49.3	56.1	57.8	56.1	67.4	54.0	48.3
44.7	42.3	40.4	38.7	36.2	35.0	34.6	34.2	34.8	34.6
33.9	33.9	33.8	34.0	34.8	35.8	37.8	40.8	45.3	48.0
50.5	51.3	47.1	45.8	45.1	44.4	44.4	45.5	47.1	48.6
48.0	45.3	43.3	45.5	48.3	49.3	45.1	43.1	42.9	42.6
45.5	50.1	60.0	52.3	47.7	46.0	45.8	46.0	47.4	48.9
49.3	46.5	44.7	44.9	47.1	50.1	54.6	50.9	48.0	45.5
76.9									



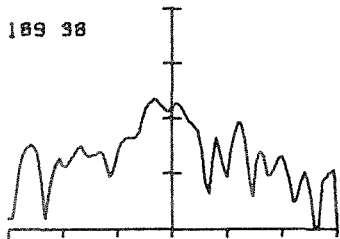
POLLACK 21.8 CM 38 KHZ FISH NO 187

67.9	67.9	61.8	53.9	51.0	52.3	52.3	52.3	53.9	53.9
53.9	55.8	55.8	58.3	58.3	53.9	52.3	49.8	52.3	55.8
67.9	67.9	67.9	58.3	52.3	55.8	67.9	67.9	67.9	67.9
58.3	53.9	51.0	48.8	46.3	43.2	40.6	38.6	37.0	36.5
36.3	35.8	35.6	35.6	36.3	37.0	38.0	38.9	40.3	41.8
44.3	47.9	53.9	67.9	67.9	67.9	61.8	52.3	47.0	46.3
45.6	45.6	44.9	44.3	46.3	48.8	52.3	58.3	55.8	51.0
47.0	44.9	44.9	44.9	45.6	46.3	47.0	47.0	47.9	48.8
48.8	49.8	47.9	47.0	46.3	45.6	47.0	47.9	49.8	51.0
53.9									



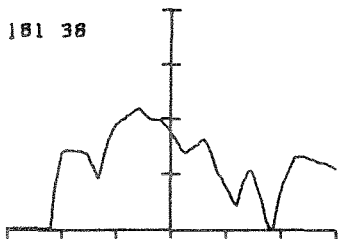
POLLACK 22.1 CM 38 KHZ FISH NO 189

58.4	58.4	53.3	48.6	46.4	45.2	44.5	45.4	46.6	50.8
58.4	53.8	50.5	48.3	47.1	48.9	48.6	47.3	46.4	45.4
44.8	46.4	47.1	46.6	46.4	46.0	46.6	48.6	50.8	48.9
46.2	44.3	43.6	43.5	43.5	43.3	42.3	39.8	37.9	36.9
36.3	36.9	37.7	38.5	38.9	37.9	36.9	37.7	38.7	40.0
40.9	41.7	42.5	42.5	45.6	51.6	53.8	47.1	43.3	45.8
50.8	45.8	42.5	40.5	41.3	44.1	50.8	54.4	47.6	46.0
47.1	50.5	50.1	48.9	47.1	46.8	48.9	51.6	55.5	54.4
51.6	49.8	51.6	54.9	60.4	59.4	51.2	50.5	49.8	49.2
78.4									



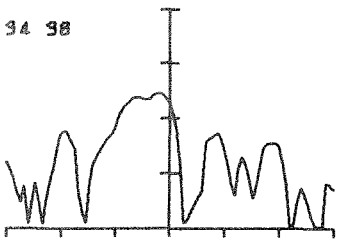
POLLACK 22.4 CM 38 KHZ FISH NO 181

77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
77.4	77.4	61.8	53.3	48.7	45.8	45.5	45.8	45.8	46.0
46.0	46.2	46.5	47.8	49.1	50.9	48.4	45.8	43.7	41.9
40.8	40.2	39.7	39.2	38.8	38.3	37.9	38.5	39.2	39.9
40.3	40.3	40.3	40.7	41.5	42.4	43.4	44.5	45.8	46.2
45.5	44.9	44.5	43.9	43.4	44.7	46.2	48.1	50.1	50.9
52.3	53.3	55.1	55.8	53.3	51.3	49.4	49.4	50.9	52.8
55.1	58.3	63.4	60.5	55.8	53.3	51.3	49.4	48.1	46.7
46.7	46.7	47.0	47.3	47.5	47.8	48.1	48.1	48.4	48.7
49.1									



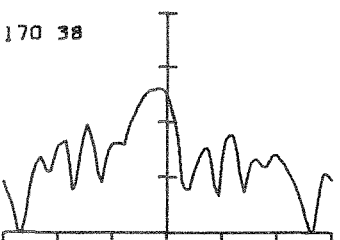
POLLACK 22.5 CM 38 KHZ FISH NO 34

47.9	49.3	51.4	53.7	55.4	52.3	59.2	55.4	51.8	54.8
59.2	54.8	51.8	49.3	45.4	42.7	42.2	43.2	44.5	45.8
53.7	57.5	59.2	51.8	48.2	46.7	45.6	44.5	43.5	42.7
41.4	39.3	38.0	37.4	36.7	36.1	36.3	36.5	36.7	36.6
35.9	35.3	35.4	35.7	36.5	37.4	39.4	43.0	49.3	59.2
58.3	56.7	55.4	54.2	53.2	44.1	43.6	43.2	42.7	43.5
45.6	48.2	52.3	54.2	49.0	46.9	48.7	51.4	54.8	52.3
48.2	45.2	44.5	44.5	44.7	45.2	47.9	52.3	61.4	59.2
55.4	52.7	54.2	56.0	58.3	60.2	64.3	72.3	51.8	52.7
53.2									



POLLACK 22.5 CM 38 KHZ FISH NO 170

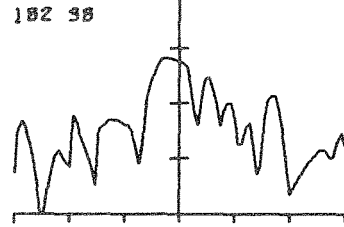
51.0	52.9	54.7	57.0	61.5	67.5	57.0	52.4	49.4	47.2
46.1	47.5	49.1	48.7	45.9	44.0	43.6	43.2	46.7	52.4
50.6	45.7	42.5	40.3	42.2	45.0	49.4	51.0	47.2	44.6
43.6	43.8	44.0	44.2	41.8	39.9	38.3	36.9	35.8	34.8
34.0	33.9	33.8	34.0	34.4	35.1	37.1	39.8	43.6	51.0
52.4	51.9	49.4	47.5	45.9	44.6	44.6	46.9	51.9	53.5
46.7	43.0	42.1	42.4	44.8	49.4	52.9	49.8	47.2	46.4
47.2	48.1	48.1	46.9	45.7	45.9	46.9	47.8	49.1	50.2
51.5	53.5	55.4	57.9	63.0	63.0	55.4	51.5	49.1	49.8
50.6									



POLLACK AT 38 KHZ

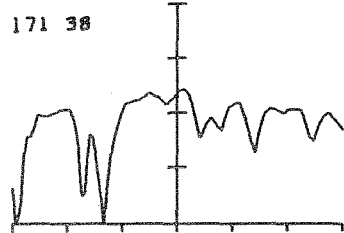
POLLACK 23.4 CM 38 KHZ FISH NO 182

52.6	44.4	42.9	44.6	46.8	49.8	54.4	64.6	62.7	55.8
52.0	49.4	48.4	49.8	51.1	51.6	42.0	43.8	46.3	48.0
49.8	52.0	55.1	44.4	43.8	43.2	42.7	43.0	43.2	43.6
44.0	44.2	45.5	48.0	51.1	47.4	38.9	36.5	34.5	33.0
31.6	31.6	31.8	32.0	32.3	32.5	32.8	33.4	36.6	41.7
44.0	38.6	35.3	35.1	37.1	40.0	44.2	41.2	39.8	40.0
43.0	47.7	47.1	44.0	43.4	47.1	53.1	51.1	42.9	39.2
38.4	38.7	41.2	44.8	51.1	56.7	55.1	53.7	52.6	51.6
50.6	49.8	49.1	48.4	48.4	49.1	50.2	49.4	46.8	45.3
47.7									



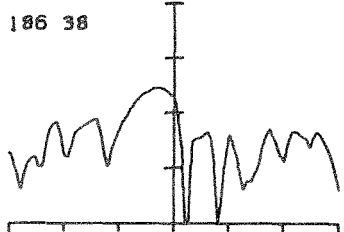
POLLACK 23.5 CM 38 KHZ FISH NO 171

54.0	62.9	57.8	48.6	44.2	44.0	42.3	40.1	40.8	40.7
40.4	40.0	39.8	39.4	39.2	39.4	39.9	41.9	46.3	55.3
54.0	43.8	44.7	48.3	54.0	70.9	52.8	47.4	44.0	41.6
39.6	38.1	37.8	37.6	37.5	37.4	36.7	36.2	36.7	37.1
37.5	38.0	38.6	37.7	36.9	36.1	35.4	36.0	36.8	38.4
41.2	44.7	43.1	41.6	40.8	41.8	42.9	43.3	40.7	38.7
38.4	38.0	38.4	40.1	42.1	44.9	47.4	44.0	41.6	39.8
39.1	39.4	39.6	39.9	40.3	39.4	39.2	39.4	39.6	39.9
41.9	44.7	45.3	43.3	41.6	40.4	39.9	40.7	41.5	42.3
43.3									



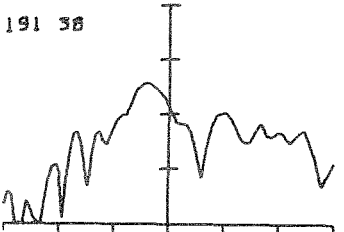
POLLACK 24.0 CM 38 KHZ FISH NO 186

47.1	48.9	51.1	54.0	51.1	48.9	48.0	48.0	49.9	49.9
45.7	42.9	41.9	41.5	43.9	48.0	48.0	45.7	43.4	42.9
42.4	41.9	41.5	41.1	41.1	43.9	48.0	49.9	46.4	44.4
42.9	41.5	40.4	39.3	38.1	37.3	36.6	36.1	35.9	35.5
35.3	35.3	35.7	36.1	36.8	37.3	40.4	46.4	68.0	61.9
45.0	44.4	44.4	43.9	43.4	45.0	49.9	61.9	55.9	48.0
43.9	45.7	48.0	51.1	54.0	52.4	52.4	51.1	49.9	46.4
43.9	42.9	44.4	45.7	48.0	48.9	45.7	43.4	43.4	43.9
44.4	45.0	46.4	44.4	43.4	44.4	45.7	47.1	48.9	51.1
54.0									



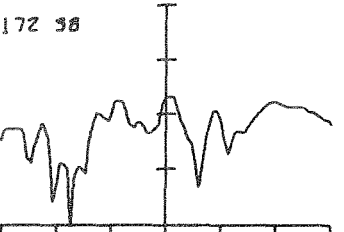
POLLACK 24.3 CM 38 KHZ FISH NO 191

56.5	54.0	55.1	64.1	64.1	62.5	55.8	57.2	59.0	68.5
62.5	55.8	52.0	49.4	49.1	50.8	59.0	50.8	46.5	43.4
43.2	45.6	50.4	53.4	47.2	43.6	43.2	45.0	45.8	43.7
42.1	40.8	40.0	40.3	38.8	37.5	35.3	34.8	34.3	34.3
34.8	35.3	35.8	36.4	37.5	38.8	40.4	41.8	41.9	42.2
42.3	43.6	45.8	48.8	51.6	46.9	44.1	41.8	40.0	39.7
39.5	40.2	41.1	42.2	43.6	45.0	45.4	45.2	44.2	42.8
41.7	42.8	44.2	44.2	43.7	43.2	43.7	44.4	45.4	44.6
43.9	43.2	42.9	44.4	46.2	48.2	51.2	53.4	51.6	50.1
48.8									



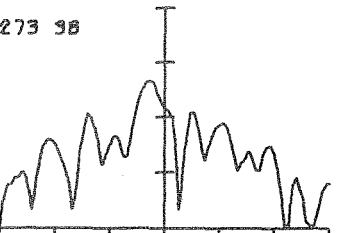
POLLACK 24.5 CM 38 KHZ FISH NO 172

44.3	42.5	42.5	42.5	42.6	42.8	43.7	48.3	49.0	45.8
43.7	41.5	43.0	44.7	56.1	52.9	48.7	49.4	50.1	60.1
50.9	49.4	50.1	50.9	44.9	41.1	39.6	40.2	40.8	41.4
39.7	37.5	37.5	37.9	39.3	42.0	42.5	41.3	41.7	42.6
43.7	43.2	42.3	41.7	37.8	36.7	36.8	37.1	38.9	41.4
42.6	44.7	45.6	48.7	53.4	48.3	44.1	41.3	39.2	39.6
41.4	44.5	47.4	44.9	43.0	43.3	43.5	42.5	41.5	40.6
39.8	39.1	38.5	37.9	37.5	37.8	38.2	38.6	38.8	38.8
38.8	38.8	38.9	39.2	39.6	39.9	40.3	40.7	41.1	41.5
42.0									



POLLACK 24.6 CM 38 KHZ FISH NO 273

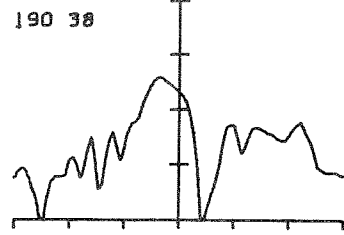
68.9	54.9	52.0	52.0	50.8	50.8	49.8	50.8	53.3	56.8
50.8	47.3	44.8	43.8	44.3	44.8	45.9	48.0	49.8	52.0
56.8	52.0	45.3	42.0	39.3	40.6	42.4	44.8	48.9	46.6
44.8	43.3	43.8	45.3	47.3	46.6	41.6	38.8	36.4	34.7
33.4	33.3	33.9	35.4	37.3	38.5	39.0	40.2	45.3	56.8
49.8	42.8	39.0	39.0	41.3	45.3	48.0	45.3	43.3	41.6
41.3	40.9	42.0	44.3	46.6	49.8	48.0	47.3	45.9	47.3
49.8	49.8	46.6	45.3	45.3	46.6	49.8	54.9	68.9	62.8
52.0	50.8	53.3	54.9	59.3	68.9	59.3	56.8	53.3	52.0
52.0									



POLLACK AT 38 KHZ

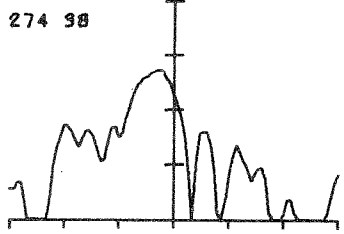
POLLACK 24.7 CM 38 KHZ FISH NO 190

52.5	51.2	50.5	51.2	52.5	54.6	54.5	60.0	60.0	55.8
53.0	52.1	52.1	52.1	51.6	49.1	48.5	50.1	52.5	50.8
47.4	45.0	48.5	54.6	53.5	48.5	45.4	44.1	46.5	49.4
47.4	44.3	42.4	42.1	41.3	39.2	37.4	36.0	34.8	34.1
34.2	34.7	35.2	35.7	36.3	36.9	37.6	38.9	41.2	44.4
49.4	62.5	61.2	57.2	55.2	53.0	50.1	45.8	43.0	42.5
43.0	45.2	48.0	46.7	44.8	43.3	43.3	43.6	43.9	44.3
44.6	45.0	45.4	45.8	45.4	44.4	43.4	42.7	42.2	43.4
44.8	46.3	48.2	50.8	51.2	51.6	51.6	51.6	51.6	52.1
52.1									



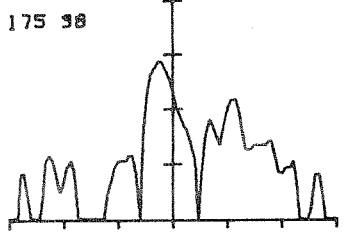
POLLACK 24.7 CM 38 KHZ FISH NO 274

54.6	54.6	53.0	53.0	56.5	62.6	68.6	68.6	68.6	68.6
68.6	56.5	50.5	47.0	44.5	42.6	43.0	44.0	45.7	47.0
45.1	43.5	44.0	45.1	47.0	49.5	48.6	45.7	43.0	43.0
45.1	44.0	41.0	38.8	37.0	35.5	34.4	33.9	33.5	33.0
32.6	32.6	33.0	34.3	35.5	37.2	39.0	41.7	45.1	51.7
62.6	48.6	44.0	44.0	44.0	46.3	50.5	59.0	68.6	56.5
51.7	48.6	46.3	47.8	49.5	50.5	53.0	51.7	50.5	50.5
53.0	59.0	68.6	68.6	62.6	59.0	56.5	56.5	59.0	68.6
68.6	68.6	68.6	68.6	68.6	68.6	68.6	59.0	56.5	53.0
51.7									



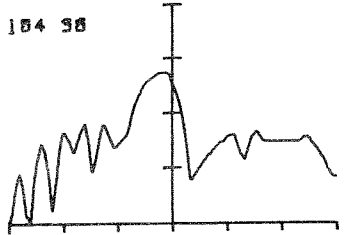
POLLACK 25.0 CM 38 KHZ FISH NO 175

67.3	67.3	67.3	51.7	51.7	55.2	61.2	67.3	67.3	57.7
49.2	48.2	49.2	51.7	55.2	53.3	50.4	49.2	51.7	61.2
61.2	61.2	61.2	67.3	67.3	67.3	61.2	55.2	53.3	50.4
49.2	49.2	49.2	48.2	48.2	51.7	67.3	43.2	36.9	33.3
32.0	31.0	31.4	32.8	34.4	36.6	39.7	41.7	43.2	44.3
46.4	49.2	67.3	50.4	44.3	41.7	43.2	45.0	46.4	42.2
39.3	38.0	38.0	40.0	43.7	47.3	47.3	46.4	46.4	46.4
46.4	45.7	45.7	48.2	51.7	51.7	50.4	50.4	49.2	53.3
67.3	67.3	67.3	57.7	51.7	51.7	55.2	61.2	67.3	67.3
67.3									



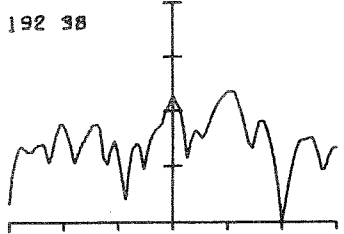
POLLACK 25.4 CM 38 KHZ FISH NO 184

70.9	57.8	52.8	50.9	54.0	58.8	60.0	52.3	48.3	45.5
47.1	50.9	57.8	53.4	46.8	43.3	44.2	45.8	47.4	45.1
43.3	41.8	45.1	50.9	48.6	44.7	41.9	43.1	44.7	46.3
45.8	44.9	44.2	43.1	40.1	38.0	36.3	34.9	34.0	33.5
33.0	32.5	32.4	32.6	33.0	34.5	36.2	38.5	41.5	46.0
52.3	51.3	50.1	49.3	48.3	47.4	46.8	46.0	45.3	44.9
44.2	43.8	44.0	45.8	47.7	48.6	46.0	44.0	43.3	44.2
45.3	45.3	45.3	45.3	45.3	45.3	45.1	45.1	45.1	45.1
45.1	44.4	44.2	45.1	46.0	46.8	48.0	48.9	50.5	51.8
51.8									



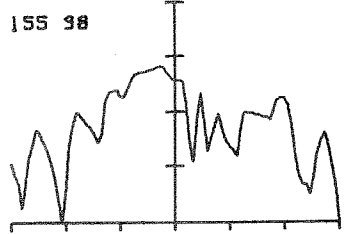
POLLACK 25.7 CM 38 KHZ FISH NO 192

56.8	51.2	47.8	46.2	46.8	47.5	47.5	46.6	45.9	45.7
47.0	49.5	47.3	44.4	42.2	42.7	44.1	46.6	49.5	47.5
45.9	44.6	43.4	42.4	42.2	43.3	48.6	49.8	47.0	45.2
47.8	51.6	56.1	50.1	46.6	45.7	46.8	50.5	47.5	44.8
43.3	42.7	42.0	40.0	38.5	37.1	38.5	40.0	43.6	48.6
45.3	43.3	44.1	45.0	43.8	41.9	40.3	39.0	37.9	36.9
36.2	36.3	36.7	38.2	40.1	42.6	45.9	47.0	43.9	41.6
41.9	43.4	45.7	48.9	53.8	66.4	56.8	52.4	49.2	46.8
45.2	45.0	44.8	44.6	45.7	48.0	50.8	50.1	48.0	46.4
46.4									



POLLACK 27.3 CM 38 KHZ FISH NO 155

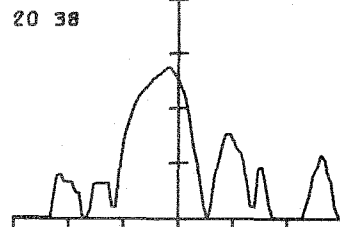
49.2	51.7	53.3	57.7	53.3	48.2	45.7	43.2	44.3	45.7
47.3	49.2	51.7	55.2	61.2	55.2	46.4	42.2	40.0	40.8
41.7	42.7	43.2	44.3	45.7	43.7	37.7	36.4	36.1	35.9
37.4	37.4	35.7	34.2	33.1	32.8	32.6	32.5	32.3	32.1
31.8	31.7	32.3	33.3	34.2	34.6	34.4	34.8	38.6	45.7
49.2	40.8	36.6	41.7	47.3	44.3	42.2	40.4	43.2	45.7
46.4	47.3	48.2	43.2	40.0	40.4	40.4	40.8	40.8	41.2
41.2	41.7	39.7	37.7	37.4	37.7	39.0	42.7	48.2	51.7
53.3	53.3	55.2	51.7	47.3	45.0	43.7	45.7	49.2	53.3
67.3									



POLLACK AT 38 KHZ

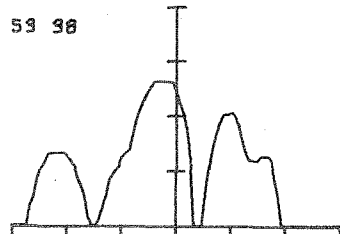
POLLACK 28.3 CM 38 KHZ FISH NO 20

67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
67.5	55.5	52.0	52.0	53.5	53.5	53.5	55.5	55.5	61.5	
67.5	58.0	53.5	53.5	53.5	53.5	53.5	58.0	58.0	50.6	
45.9	43.4	41.1	39.2	38.0	36.9	36.2	35.5	34.6	34.1	
33.5	33.0	32.4	32.7	33.7	34.8	36.2	38.3	41.9	46.7	
49.5	53.5	58.0	67.5	58.0	52.0	49.5	46.7	44.6	44.6	
45.9	47.5	48.4	50.6	53.5	58.0	58.0	50.6	50.6	53.5	
58.0	61.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	
58.0	55.5	52.0	50.6	48.4	49.5	52.0	53.5	58.0	67.5	



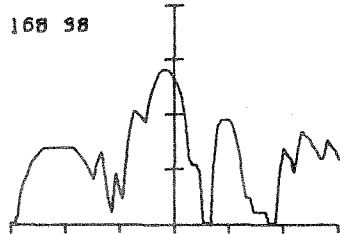
POLLACK 28.5 CM 38 KHZ FISH NO 53

68.2	68.2	68.2	62.2	62.2	56.2	54.3	51.3	49.2	48.2	
46.7	46.7	46.7	46.7	46.7	47.4	48.2	49.2	51.3	52.7	
54.3	58.7	62.2	68.2	58.7	56.2	54.3	51.3	50.2	49.2	
47.4	46.7	46.0	43.6	40.6	38.7	36.9	35.6	34.4	33.6	
33.6	33.8	33.8	33.9	34.1	35.6	37.6	39.9	43.1	49.2	
68.2	68.2	68.2	54.3	49.2	45.3	43.1	41.0	39.6	39.6	
39.3	39.9	41.8	44.2	46.7	48.2	48.2	48.2	47.4	47.4	
47.4	48.2	51.3	54.3	62.2	68.2	68.2	68.2	68.2	68.2	
68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	



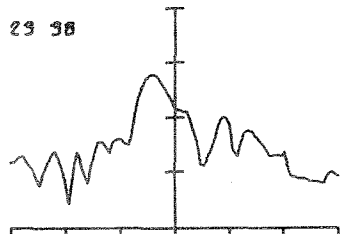
POLLACK 28.9 CM 38 KHZ FISH NO 168

67.5	61.5	58.0	53.5	51.9	50.6	48.4	47.5	46.7	45.9	
45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	46.7	47.5	
48.4	49.4	50.6	51.9	48.4	46.7	50.6	55.5	58.0	50.6	
53.5	55.5	45.9	41.9	39.2	39.9	40.7	41.5	38.0	35.7	
33.7	32.2	31.8	31.9	32.5	33.7	34.8	37.1	41.1	48.4	
49.4	49.4	50.6	67.5	67.5	67.5	47.5	41.9	40.7	41.1	
41.1	41.9	44.6	47.5	51.9	55.5	55.5	58.0	58.0	58.0	
58.0	61.5	61.5	61.5	50.6	45.9	47.5	48.4	50.6	45.9	
42.9	44.0	44.6	45.9	46.7	48.4	47.5	44.6	45.9	46.7	



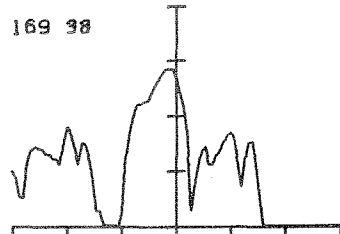
POLLACK 29.0 CM 38 KHZ FISH NO 23

47.8	47.8	47.0	46.7	47.8	48.7	49.7	51.3	52.7	50.1	
48.4	46.7	46.0	47.5	49.4	51.8	55.8	50.5	46.2	47.8	
50.1	52.2	48.7	46.2	44.3	44.5	45.5	46.5	44.3	43.7	
44.1	44.7	45.1	43.2	39.1	36.2	34.1	32.7	32.1	32.0	
32.8	33.7	34.7	35.8	37.1	38.6	38.7	39.1	38.9	40.4	
42.4	44.9	48.7	49.0	47.0	45.5	43.5	41.1	39.7	40.2	
41.5	46.2	47.2	44.7	42.7	42.1	42.7	43.5	44.3	45.1	
46.2	47.2	46.7	46.7	47.2	46.2	49.0	50.9	50.9	51.3	
51.3	51.3	51.8	51.8	51.8	52.2	52.2	50.5	49.7	50.5	



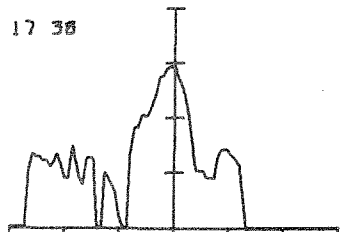
POLLACK 29.5 CM 38 KHZ FISH NO 169

50.1	51.4	54.9	54.9	48.9	46.1	45.4	46.1	46.1	47.0	
47.0	47.9	47.9	48.9	44.7	41.9	43.4	46.1	48.9	44.7	
45.4	47.9	51.4	57.4	57.4	60.9	60.9	67.0	67.0	67.0	
57.4	47.9	42.9	40.1	38.0	37.7	37.4	37.1	35.8	34.5	
33.3	32.3	31.4	31.5	31.7	33.2	35.6	38.7	44.0	57.4	
53.0	48.9	46.1	45.4	48.9	48.9	47.0	46.1	44.7	43.4	
42.9	44.0	48.9	53.0	47.9	44.7	44.7	48.9	54.9	67.0	
67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	
67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	



POLLACK 30.0 CM 38 KHZ FISH NO 17

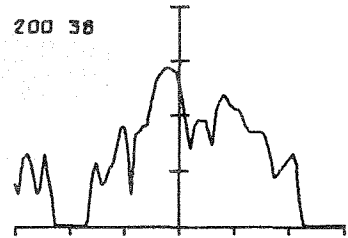
67.9	67.9	67.9	67.9	67.9	49.8	46.3	47.1	47.1	47.9	
47.9	48.8	47.9	46.3	48.8	51.0	51.0	45.0	47.9	51.0	
52.3	47.1	47.1	47.9	67.9	67.9	49.8	51.0	52.3	53.9	
58.4	61.9	67.9	45.6	41.5	41.5	39.3	39.9	39.0	37.3	
35.2	32.3	32.1	30.8	30.4	30.9	32.5	34.3	36.5	39.9	
45.0	49.8	49.8	49.8	51.0	51.0	51.0	47.1	45.6	45.6	
46.3	47.1	47.9	48.8	53.9	67.9	67.9	67.9	67.9	67.9	
67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	
67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	



POLLACK AT 38 KHZ

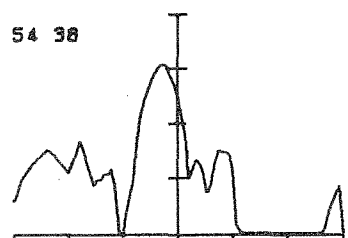
POLLACK 30.9 CM 38 KHZ FISH NO 200

52.7	54.3	47.4	46.7	48.2	50.2	54.3	52.7	46.7	50.2
54.3	68.2	68.2	68.2	68.2	68.2	62.2	62.2	62.2	62.2
58.7	51.3	48.2	50.2	52.7	51.3	49.2	48.2	45.3	41.8
42.2	46.0	54.3	43.1	42.7	41.8	41.4	38.4	35.4	33.1
31.9	31.1	31.3	31.7	32.1	34.1	37.4	42.7	46.0	41.8
40.6	41.0	41.0	43.1	45.3	38.7	37.1	36.0	37.1	38.4
39.0	38.7	40.3	42.2	43.1	43.1	43.1	43.1	43.6	45.3
48.2	51.3	50.2	49.2	48.2	47.4	46.7	49.2	56.2	68.2
68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
68.2									



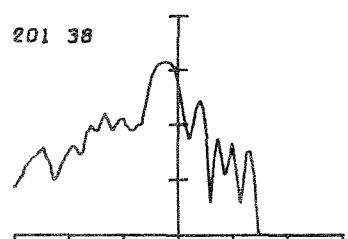
POLLACK 31.5 CM 38 KHZ FISH NO 54

54.2	52.6	50.1	49.1	48.2	47.4	46.6	45.9	45.3	44.7
45.3	45.9	46.6	47.4	48.2	49.1	47.4	45.3	43.1	44.7
46.6	49.1	51.3	50.1	50.1	49.1	49.1	48.2	51.3	62.2
68.2	56.1	52.6	50.1	42.6	38.4	35.5	33.5	31.8	30.5
29.4	29.2	29.9	31.4	33.1	35.1	38.1	42.2	50.1	48.2
46.6	47.4	49.1	52.6	51.3	47.4	44.7	45.3	45.3	45.9
48.2	58.6	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
68.2	68.2	68.2	68.2	62.2	58.6	56.1	54.2	52.6	51.3
68.2									



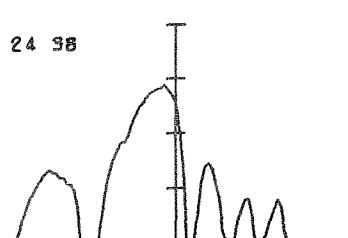
POLLACK 31.5 CM 38 KHZ FISH NO 201

51.4	50.3	49.2	47.5	46.7	46.0	45.4	44.8	44.2	46.0
47.5	50.3	49.2	47.5	46.0	44.8	43.7	44.2	45.4	44.8
41.1	40.0	41.1	41.1	39.4	37.9	39.4	41.1	40.0	38.8
38.8	40.4	41.1	40.7	40.0	39.7	36.7	33.3	30.9	29.5
28.6	28.5	28.4	28.8	29.6	32.1	35.4	40.4	42.7	40.4
36.9	35.4	37.2	42.3	54.3	46.0	42.3	45.4	49.2	46.7
43.2	47.5	54.3	50.3	44.8	44.8	49.2	62.3	68.3	68.3
68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
68.3									



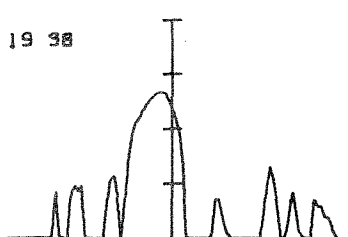
POLLACK 33.0 CM 38 KHZ FISH NO 24

67.5	61.5	57.9	55.4	53.5	51.9	50.6	49.4	48.4	47.5
46.7	47.5	47.5	48.4	48.4	49.4	49.4	50.6	53.5	67.5
67.5	67.5	67.5	67.5	61.5	53.5	49.4	46.7	44.6	42.9
41.5	41.5	40.3	38.2	36.6	35.2	34.2	33.2	32.5	32.1
31.8	31.5	31.1	32.1	33.2	34.4	38.2	45.9	67.5	67.5
61.5	53.5	48.4	45.9	45.2	46.7	49.4	51.9	57.9	67.5
67.5	61.5	55.4	53.5	51.9	51.9	55.4	67.5	67.5	61.5
57.9	55.4	53.5	51.9	53.5	57.9	61.5	67.5	67.5	67.5
67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
67.5									



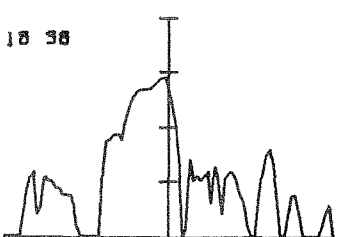
POLLACK 35.0 CM 38 KHZ FISH NO 19

68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
68.3	68.3	58.8	51.4	62.3	68.3	68.3	51.4	50.3	51.4
50.3	68.3	68.3	68.3	68.3	68.3	68.3	54.3	49.2	48.3
52.8	62.3	52.8	44.8	41.1	38.8	37.7	36.5	35.4	34.5
33.7	33.2	33.4	33.4	34.7	36.1	37.7	40.7	46.7	68.3
68.3	68.3	68.3	68.3	68.3	68.3	58.8	52.8	52.8	56.3
58.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
56.3	50.3	46.7	49.2	54.3	62.3	68.3	56.3	51.4	54.3
58.8	68.3	68.3	68.3	52.8	54.3	54.3	56.3	56.3	58.8
68.3									



POLLACK 35.2 CM 38 KHZ FISH NO 18

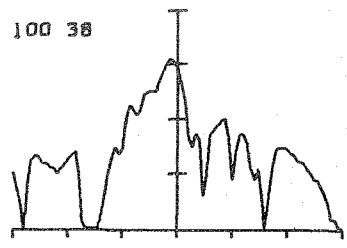
68.0	68.0	68.0	68.0	61.9	55.9	51.1	48.9	48.0	55.9
54.0	48.9	49.9	49.9	51.1	51.1	52.4	52.4	52.4	54.0
58.4	68.0	68.0	68.0	68.0	68.0	68.0	48.0	42.4	41.9
41.1	41.1	42.4	39.0	36.8	34.9	33.5	33.0	33.0	33.0
32.8	32.3	31.6	30.9	30.7	32.7	35.5	39.7	47.1	68.0
58.4	45.7	49.9	48.9	49.9	48.9	48.0	54.0	47.1	49.9
55.9	48.9	48.0	48.9	49.9	52.4	54.0	58.4	61.9	61.9
52.4	48.0	45.0	43.9	47.1	52.4	68.0	61.9	55.9	52.4
52.4	55.9	61.9	68.0	68.0	61.9	61.9	58.4	55.9	54.0
68.0									



POLLACK AT 38 KHZ

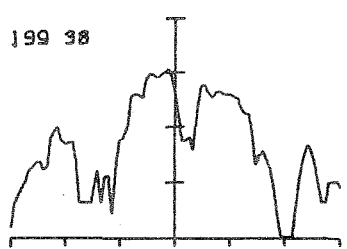
POLLACK 35.5 CM 38 KHZ FISH NO 100

50.0	52.5	54.0	62.1	51.2	47.2	46.5	47.2	48.1	48.1
49.0	49.0	50.0	49.0	48.1	47.2	46.5	45.8	50.0	50.5
68.1	68.1	68.1	68.1	58.5	54.1	50.0	47.2	45.2	46.5
45.2	40.1	37.4	38.5	39.4	38.2	35.2	34.8	35.0	34.8
32.8	31.3	29.9	28.8	29.7	30.7	33.3	36.9	43.5	45.2
42.5	44.0	54.1	50.0	42.5	41.6	40.8	40.1	39.8	43.5
51.2	45.8	42.5	43.0	44.6	49.0	51.2	49.0	54.1	62.1
52.5	48.1	45.2	45.2	45.2	45.8	46.5	47.2	48.1	48.1
49.0	50.0	51.2	51.2	52.5	54.1	56.0	58.5	58.5	62.1
68.1									



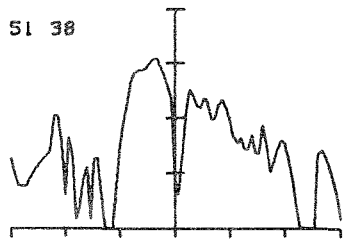
POLLACK 39.4 CM 38 KHZ FISH NO 199

58.2	53.8	52.2	50.9	49.7	47.8	47.0	46.2	46.2	47.8
47.0	41.8	40.5	39.8	42.7	43.2	42.7	42.7	46.2	53.8
53.8	53.8	53.8	50.9	47.8	53.8	48.7	48.7	55.7	47.0
42.2	41.8	39.8	34.2	33.8	34.2	34.7	31.1	30.1	30.5
31.0	30.4	29.9	29.4	30.8	33.6	38.0	42.7	42.2	41.8
44.3	36.4	32.4	32.2	33.8	34.7	33.5	33.6	34.0	34.2
34.3	34.5	35.1	36.7	37.7	37.7	40.9	47.0	44.9	44.3
46.2	47.8	50.9	55.7	61.8	61.8	67.8	67.8	53.8	48.7
45.5	43.2	44.3	46.2	49.7	53.8	53.8	49.7	49.7	49.7
50.9									



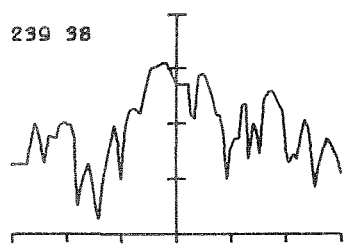
POLLACK 42.5 CM 38 KHZ FISH NO 51

47.2	49.9	52.4	52.4	52.4	51.1	49.9	48.9	48.0	47.2
46.4	45.1	39.4	39.7	44.5	54.0	43.4	47.2	58.4	55.9
51.1	48.9	58.4	47.2	47.2	54.0	68.0	68.0	68.0	52.4
45.1	40.8	36.9	33.2	31.5	31.2	31.0	30.7	29.9	29.1
29.3	30.7	32.3	34.2	36.6	51.1	54.0	45.7	38.7	34.7
35.9	37.9	38.2	36.2	37.1	40.4	39.7	37.4	36.4	38.2
40.4	43.4	44.5	43.4	45.7	45.7	42.9	46.4	46.4	41.1
45.1	49.9	48.0	45.7	43.9	44.5	47.2	51.1	55.9	68.0
68.0	68.0	68.0	68.0	46.4	45.7	47.2	48.9	51.1	54.0
58.4									



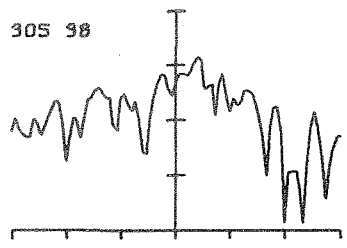
POLLACK 43.7 CM 38 KHZ FISH NO 239

47.2	47.2	47.2	47.2	47.2	43.7	39.9	41.6	44.3	47.2
42.1	42.6	42.6	40.3	39.6	40.3	40.3	42.6	55.1	51.6
49.1	47.2	50.3	55.1	57.6	50.3	47.2	43.7	40.3	43.7
50.3	40.7	37.6	37.1	37.6	38.2	35.1	32.2	29.9	29.6
29.2	28.9	28.0	30.0	31.6	33.0	32.9	32.9	32.7	38.6
39.2	31.2	30.8	31.6	33.6	35.8	38.6	38.6	41.6	50.3
44.3	42.6	42.6	36.3	36.3	46.4	39.9	41.6	45.6	35.4
34.1	34.1	35.1	36.6	37.9	44.3	47.2	45.6	46.4	42.1
39.2	41.2	45.6	51.6	48.1	44.9	42.6	43.7	44.9	46.4
49.1									



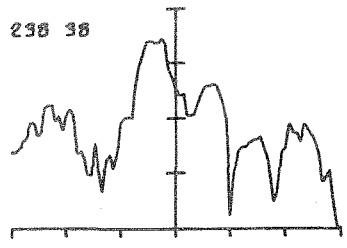
POLLACK 51.0 CM 38 KHZ FISH NO 305

41.6	39.5	42.0	42.8	43.3	42.8	39.8	40.8	42.8	41.2
39.2	37.8	36.4	37.0	40.8	47.6	43.3	39.5	40.4	43.3
39.8	35.9	35.7	34.4	33.9	35.1	36.1	36.1	41.2	42.0
35.7	35.1	37.3	38.3	36.4	39.8	46.1	46.1	39.5	35.7
33.0	31.5	32.0	34.4	35.7	33.1	31.4	31.7	32.0	31.0
29.5	28.4	29.2	34.4	33.8	33.4	39.2	33.3	31.5	35.7
38.6	35.9	37.5	36.4	34.4	34.8	35.3	37.0	39.5	43.3
50.3	41.2	37.5	37.3	42.4	58.9	49.3	49.3	49.3	52.8
58.9	46.8	40.8	38.3	41.6	46.8	54.4	48.4	44.9	42.8
42.8									



POLLACK 52.0 CM 38 KHZ FISH NO 238

45.8	45.8	45.1	43.8	43.3	40.5	40.9	43.3	42.3	37.8
37.3	37.5	40.5	39.4	42.3	39.1	38.1	39.8	46.5	45.8
47.4	50.5	50.5	44.4	49.3	53.4	47.4	46.5	49.3	45.8
40.5	39.8	39.8	40.1	34.1	30.5	28.0	26.0	26.0	26.5
26.2	25.5	26.5	31.2	32.9	34.9	36.0	35.5	39.8	39.4
39.1	37.0	35.3	34.1	33.9	33.7	34.1	35.5	37.3	40.9
57.8	50.5	45.8	45.1	45.1	44.4	43.8	43.8	43.3	45.1
47.4	50.5	55.3	53.4	45.8	45.1	40.9	42.8	42.8	44.4
40.9	42.3	43.3	44.4	46.5	51.8	50.5	49.3	55.3	67.4
67.4									



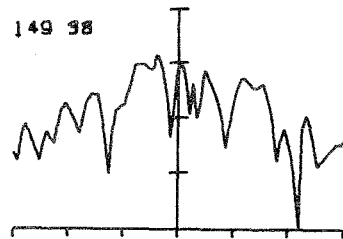


POLLACK AT 38 KHZ

POLLACK 56.5 CM 38 KHZ FISH NO 149

46.2	47.9	43.5	41.0	42.4	44.1	46.2	47.9	44.7	42.4
44.1	44.7	41.0	38.4	37.2	38.4	39.8	41.4	42.9	39.4
36.9	35.6	35.4	35.6	39.0	44.1	50.1	42.4	38.4	37.7
37.4	35.6	33.4	30.1	30.0	30.3	30.7	31.3	30.6	28.3
30.0	32.7	36.4	43.5	35.9	30.5	30.2	33.2	39.4	33.7
40.1	36.9	31.3	32.5	33.9	35.9	38.0	41.0	45.4	40.5
37.2	34.5	32.7	33.0	33.7	34.5	34.5	34.1	33.7	35.6
38.4	41.9	47.9	44.1	41.9	44.1	47.0	53.0	67.0	41.4
39.4	41.9	44.7	48.9	47.9	47.0	46.2	45.4	44.7	44.7
44.1									

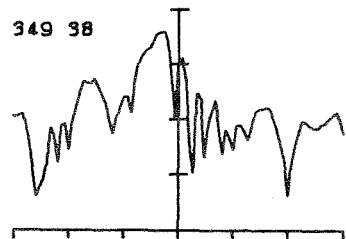
149 38



POLLACK 61.0 CM 38 KHZ FISH NO 349

39.2	39.2	38.9	40.2	43.2	47.9	53.9	52.3	50.9	47.9
41.4	43.2	47.9	41.0	40.6	45.6	40.6	37.2	35.0	33.0
33.5	33.5	32.7	34.0	35.6	37.5	39.9	42.7	39.9	37.5
35.8	35.8	38.9	32.6	29.7	28.3	27.3	27.0	25.8	24.4
24.1	24.2	26.0	31.1	39.9	30.0	28.7	33.2	45.6	49.8
35.2	36.5	47.0	41.8	38.6	36.5	41.8	46.3	41.8	43.8
45.6	41.0	41.0	42.3	43.8	41.8	38.3	38.0	38.0	37.7
38.3	39.9	41.8	44.3	47.9	53.9	47.9	44.3	42.3	40.2
40.6	41.4	41.8	41.8	41.0	40.6	39.9	39.2	38.6	40.2
42.7									

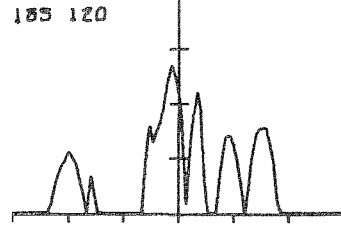
349 38



DORSAL ASPECT TARGET STRENGTH FUNCTIONS OF POLLACK AT 120 KHZ

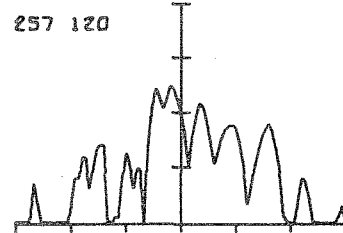
POLLACK 19.7 CM 120 KHZ FISH NC 185

72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	62.6
58.2	55.3	53.1	51.3	49.9	48.6	49.9	51.3	54.1	56.6	
62.6	53.1	56.6	72.2	72.2	72.2	72.2	72.2	72.2	72.2	
72.2	72.2	72.2	72.2	72.2	72.2	49.2	43.9	47.1	44.9	
42.9	38.9	35.3	32.8	35.1	38.4	43.5	58.2	48.6	41.3	
37.7	42.3	54.1	72.2	72.2	72.2	54.1	49.6	45.7	45.7	
47.6	50.6	55.3	66.1	55.3	49.2	45.3	44.2	44.2	44.6	
47.6	51.3	58.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	
72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	
72.2										



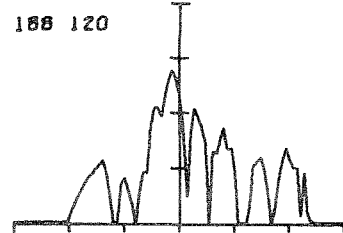
POLLACK 20.6 CM 120 KHZ FISH NC 257

70.7	70.7	70.7	70.7	58.7	52.7	56.8	61.2	70.7	70.7	
64.7	64.7	70.7	70.7	70.7	56.8	51.7	51.7	47.8	48.5	
53.8	49.2	46.1	45.6	46.1	61.2	64.7	58.7	58.7	51.7	
47.2	49.2	53.8	49.9	50.7	64.7	44.7	38.9	35.5	36.8	
39.2	37.3	34.9	35.8	37.7	40.1	43.5	49.9	43.9	40.6	
38.1	39.4	41.8	45.2	49.2	46.7	44.3	42.8	42.1	42.4	
43.1	45.6	49.9	56.8	53.8	49.9	46.7	44.3	42.8	41.8	
43.9	46.7	50.7	58.7	70.7	70.7	61.2	55.2	51.7	52.7	
55.2	61.2	70.7	70.7	70.7	70.7	70.7	70.7	58.7	56.9	
70.7										



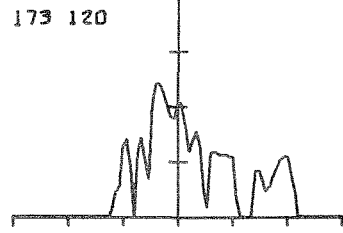
POLLACK 20.8 CM 120 KHZ FISH NC 188

70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	
70.8	70.8	70.8	64.8	61.2	58.7	56.8	55.2	53.9	52.7	
51.7	50.8	50.0	49.2	48.5	50.8	55.2	61.2	61.2	52.7	
51.7	53.9	56.8	61.2	53.9	50.8	50.8	42.5	39.0	39.0	
40.7	36.8	34.1	32.1	33.8	37.0	42.2	55.2	43.6	39.0	
40.7	42.8	45.7	61.2	46.7	47.3	44.3	42.5	46.7	46.2	
50.8	70.8	70.8	70.8	56.8	49.2	48.5	47.9	50.0	53.9	
64.8	56.8	51.7	48.5	46.2	48.5	50.0	50.0	58.7	50.8	
58.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	
70.8										



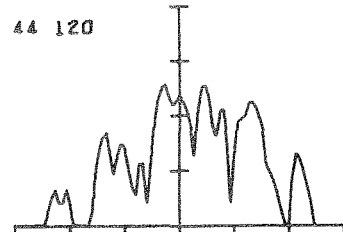
POLLACK 21.2 CM 120 KHZ FISH NC 173

72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	
72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	
72.3	72.3	72.3	72.3	66.2	62.7	60.2	58.3	55.3	54.2	
46.7	45.8	50.7	62.7	48.2	45.4	50.0	53.2	39.6	35.6	
36.1	37.6	39.6	41.9	42.1	39.0	39.6	43.6	48.2	45.8	
44.3	47.6	55.3	58.3	48.2	48.2	48.7	48.7	48.7	49.3	
49.3	56.7	72.3	72.3	72.3	72.3	51.4	51.4	53.2	55.3	
54.2	52.3	50.7	49.3	48.7	49.3	52.3	55.3	62.7	72.3	
72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	
72.3										



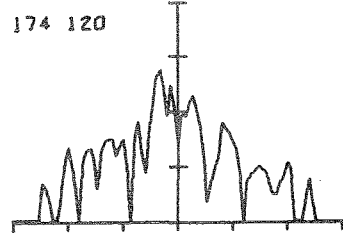
POLLACK 21.5 CM 120 KHZ FISH NC 44

71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	65.4	57.4	
54.5	53.3	55.8	55.8	53.3	55.8	71.4	71.4	71.4	71.4	
71.4	57.4	49.8	46.3	43.8	43.1	46.8	50.6	47.3	44.9	
45.8	49.1	53.3	54.5	48.5	48.5	55.8	49.8	41.3	37.1	
34.5	34.0	36.6	38.1	37.1	36.1	37.6	39.3	42.1	47.3	
38.5	34.4	34.4	36.7	41.8	43.8	38.9	38.9	43.8	55.8	
47.3	40.8	40.3	39.6	37.4	37.6	38.9	40.8	42.8	49.1	
50.6	52.3	54.5	57.4	61.8	65.4	51.4	46.8	47.9	49.8	
52.3	55.8	65.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	
71.4										



POLLACK 21.5 CM 120 KHZ FISH NC 174

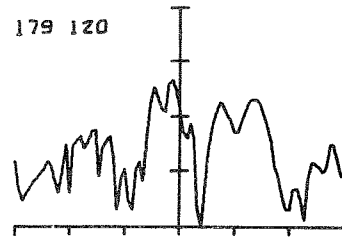
72.0	72.0	72.0	72.0	72.0	72.0	72.0	60.0	53.0	54.0	
56.5	62.5	72.0	56.5	49.1	46.5	49.8	54.0	66.0	48.5	
46.9	46.5	49.1	54.0	46.9	45.2	44.8	44.8	48.0	46.0	
44.8	49.8	62.5	44.4	41.7	47.4	51.2	42.8	38.8	33.4	
32.3	35.6	40.9	35.1	40.0	45.6	40.2	40.9	39.1	36.9	
39.4	42.8	48.5	56.5	53.0	49.8	48.0	41.9	43.1	44.1	
45.6	46.9	52.0	66.0	52.0	51.2	50.5	49.8	50.5	51.2	
53.0	55.1	55.1	53.0	51.2	49.1	50.5	62.5	72.0	66.0	
56.5	52.0	56.5	72.0	72.0	72.0	72.0	72.0	72.0	72.0	
72.0										



POLLACK AT 120 KHZ

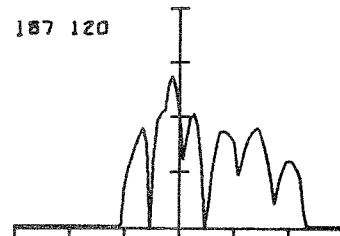
POLLACK 21.5 CM 120 KHZ FISH NO 179

48.1	53.0	55.5	54.1	53.0	51.9	51.0	50.2	49.4	48.1
49.4	51.9	54.1	50.2	45.0	54.1	45.0	44.2	43.4	45.9
44.6	42.4	42.4	51.0	45.5	44.2	43.4	47.5	57.1	51.0
49.4	55.5	57.1	49.4	48.1	51.9	42.4	36.9	34.5	36.4
38.8	39.2	33.8	33.3	35.5	38.6	43.1	44.2	41.2	44.6
57.1	71.0	51.9	45.5	41.5	38.8	37.2	38.4	39.7	41.2
43.1	42.7	40.4	38.6	36.9	36.7	36.9	37.8	39.7	41.8
45.0	49.4	51.0	54.1	57.1	57.1	53.0	53.0	55.5	59.0
51.0	48.1	48.8	49.4	50.2	48.8	45.0	45.5	48.1	51.0
51.0									



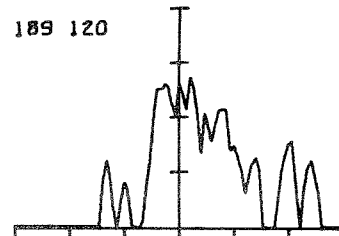
POLLACK 21.8 CM 120 KHZ FISH NO 187

71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	59.3
52.3	49.1	46.8	44.5	43.1	41.8	44.9	65.4	46.3	40.3
38.9	38.3	33.8	32.4	35.1	39.3	47.9	43.1	39.8	39.3
41.6	49.1	71.4	55.8	49.1	44.9	42.4	42.4	43.1	43.8
44.9	50.6	47.9	44.9	43.4	42.4	41.6	42.8	44.9	47.3
51.4	55.8	52.3	49.8	47.9	47.9	48.5	49.8	51.4	57.4
71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
71.4									



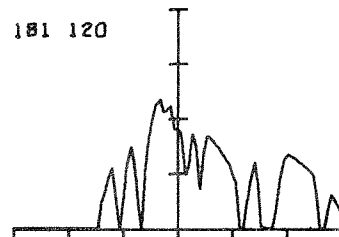
POLLACK 22.1 CM 120 KHZ FISH NO 189

70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
70.7	70.7	70.7	61.1	51.6	47.7	50.7	56.7	61.1	55.1
51.6	53.8	70.7	70.7	70.7	58.6	51.6	47.1	39.5	34.7
35.0	33.8	34.7	37.6	39.8	33.8	35.7	38.6	32.6	34.5
38.6	46.6	39.3	41.4	44.6	40.8	38.4	38.6	38.8	46.1
45.1	47.1	49.8	53.8	50.7	48.4	47.1	49.8	70.7	70.7
70.7	64.6	55.1	49.8	46.6	44.6	44.2	53.8	61.1	52.6
49.1	47.7	50.7	53.8	61.1	70.7	70.7	70.7	70.7	70.7
70.7									



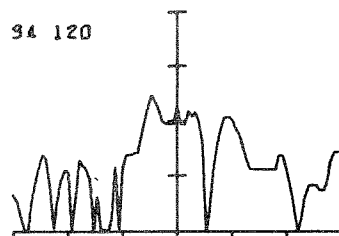
POLLACK 22.4 CM 120 KHZ FISH NO 181

71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
71.9	71.9	65.8	59.8	55.0	52.8	50.3	48.9	53.8	65.8
55.0	48.3	45.0	48.3	55.0	65.8	48.3	42.9	39.6	37.2
36.3	38.8	38.2	37.5	42.0	41.8	42.9	50.3	48.3	42.6
45.0	52.8	46.3	42.9	43.6	44.6	45.4	46.3	47.3	48.3
50.3	51.9	71.9	65.8	55.0	51.0	47.8	51.9	59.8	71.9
71.9	71.9	56.3	51.0	47.3	46.3	46.8	47.3	47.8	48.3
48.9	49.6	50.3	53.8	62.3	62.3	56.3	53.8	55.0	56.3
57.9									



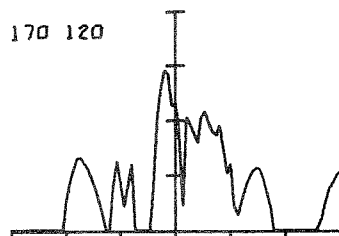
POLLACK 22.5 CM 120 KHZ FISH NO 34

53.7	54.8	57.7	62.2	65.7	54.8	50.9	48.2	46.1	47.1
52.6	59.7	54.8	50.9	48.8	49.4	59.7	53.7	47.1	48.2
48.8	50.9	62.2	53.7	59.7	71.7	71.7	57.7	48.2	59.7
48.2	46.1	46.1	45.7	45.7	43.1	39.7	37.1	35.2	36.6
38.3	40.4	40.6	40.6	40.4	37.2	40.6	40.8	38.1	39.3
38.3	40.4	44.5	71.7	56.2	48.2	44.1	41.1	39.3	39.3
39.9	41.4	42.8	44.9	47.1	48.8	48.8	48.8	48.8	48.8
48.8	48.8	48.8	46.1	46.6	48.8	51.7	56.2	62.2	57.7
53.7	51.7	51.7	51.7	52.6	52.6	50.9	47.1	45.7	45.7
45.7									



POLLACK 22.5 CM 120 KHZ FISH NO 170

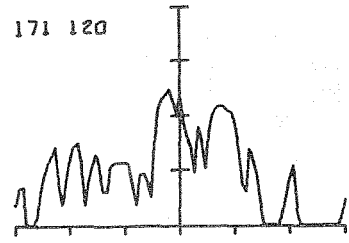
71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
71.2	71.2	71.2	71.2	61.6	54.3	51.2	48.3	46.6	46.6
47.7	48.9	50.4	52.1	54.3	57.2	61.6	71.2	52.1	47.1
51.2	55.6	51.2	47.7	61.6	71.2	71.2	71.2	71.2	52.1
38.7	33.8	30.6	31.6	37.4	36.7	41.9	55.6	39.1	40.6
42.2	44.0	39.1	38.1	40.1	42.2	42.6	40.8	44.7	49.6
47.7	55.6	57.2	54.3	52.1	50.4	48.9	48.3	48.9	50.4
53.1	55.6	61.6	71.2	71.2	71.2	71.2	71.2	71.2	71.2
71.2	71.2	71.2	65.2	59.1	57.2	54.3	52.1	51.2	49.6
48.9									



POLLACK AT 120 KHZ

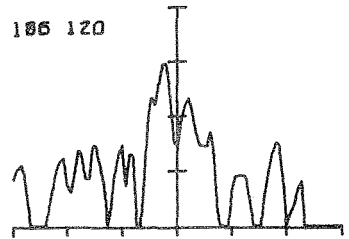
POLLACK 23.5 CM 120 KHZ FISH NC 171

56.5	53.0	53.0	72.0	72.0	66.0	58.1	53.0	50.5	48.5
46.9	45.6	53.0	56.5	51.2	48.0	45.6	44.8	48.5	56.5
52.0	49.1	46.9	49.1	54.0	54.0	49.1	48.5	48.5	48.5
48.5	49.1	53.0	56.5	50.5	50.5	52.0	55.1	45.6	38.6
36.6	35.8	34.9	37.1	39.6	36.2	41.4	44.4	46.0	50.5
41.9	45.2	49.8	42.2	39.4	38.1	38.1	38.6	39.2	39.6
41.9	46.0	53.0	54.0	46.0	48.0	51.2	56.5	66.0	72.0
72.0	72.0	62.5	58.1	54.0	51.2	49.1	58.1	72.0	72.0
72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	66.0	58.1
55.1									



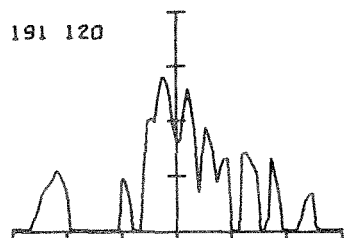
POLLACK 24.0 CM 120 KHZ FISH NC 186

51.5	49.6	48.7	50.5	55.6	69.6	69.6	69.6	69.6	60.0
55.6	52.7	49.6	48.0	47.3	52.7	54.0	49.6	46.0	47.3
51.5	51.5	45.0	46.0	48.7	52.7	60.0	55.6	50.5	46.6
45.0	52.7	46.6	47.3	69.6	69.6	50.5	40.0	36.3	38.0
33.4	30.1	30.5	34.9	45.0	45.5	40.9	37.7	36.5	38.9
42.7	45.5	45.5	45.5	42.7	47.3	57.5	69.6	69.6	63.5
52.7	50.5	50.5	50.5	51.5	55.6	69.6	69.6	63.5	54.0
49.6	46.6	44.5	45.5	51.5	63.5	57.5	55.6	52.7	51.5
63.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
69.6									



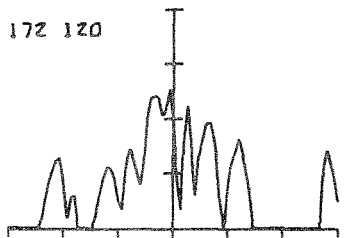
POLLACK 24.3 CM 120 KHZ FISH NC 191

71.3	71.3	71.3	71.3	65.2	59.2	57.3	55.7	53.2	52.2
51.3	50.4	49.0	49.7	51.3	53.2	71.3	71.3	71.3	71.3
71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	65.2
50.4	51.3	54.4	61.7	71.3	71.3	48.3	39.9	39.4	40.4
35.0	31.9	32.5	34.6	41.2	44.0	43.3	37.8	34.0	37.1
41.7	53.2	45.7	41.2	43.0	46.2	51.3	48.3	46.7	46.7
71.3	71.3	71.3	45.7	45.7	46.7	48.3	49.7	71.3	71.3
57.3	46.7	49.7	53.2	61.7	71.3	65.2	61.7	59.2	57.3
54.4	53.2	53.2	59.2	71.3	71.3	71.3	71.3	71.3	71.3
71.3									



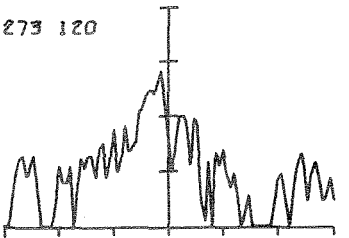
POLLACK 24.5 CM 120 KHZ FISH NC 172

72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	66.1	58.2
54.1	51.3	49.2	47.5	47.0	51.3	58.2	54.1	54.1	72.1
72.1	72.1	72.1	62.6	56.6	53.0	50.5	48.6	49.2	51.3
55.2	56.6	48.6	45.3	47.0	49.2	52.1	48.0	38.9	36.0
35.6	36.4	39.5	38.2	34.4	39.5	49.9	56.6	42.6	37.6
44.2	54.1	47.0	43.5	40.8	40.5	43.2	47.0	55.2	62.6
53.0	48.6	45.7	43.5	45.7	48.6	53.0	62.6	72.1	72.1
72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
72.1	72.1	72.1	72.1	72.1	62.6	50.5	45.7	47.5	50.5
55.2									



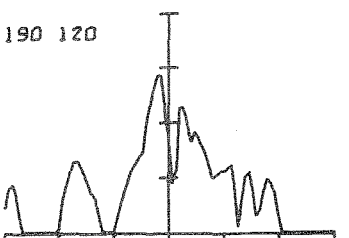
POLLACK 24.6 CM 120 KHZ FISH NO 273

71.1	61.5	54.2	50.2	47.5	47.0	51.1	48.8	47.0	53.0
71.1	71.1	71.1	71.1	55.5	48.8	52.0	52.0	48.8	61.5
53.0	47.5	49.5	47.0	47.5	51.1	45.5	44.6	51.1	47.0
42.1	50.2	47.5	41.5	46.5	45.5	44.2	38.8	38.0	35.8
34.9	36.1	33.7	31.6	37.4	44.2	50.2	43.8	39.7	39.7
41.2	48.8	40.2	41.8	55.5	59.0	48.1	71.1	46.5	48.8
46.0	50.2	53.0	50.2	54.2	65.0	57.1	54.2	71.1	71.1
71.1	71.1	71.1	61.5	55.5	51.1	50.2	55.5	61.5	54.2
49.5	46.5	48.8	55.5	50.2	48.1	51.1	55.5	54.2	51.1
55.5									



POLLACK 24.7 CM 120 KHZ FISH NO 190

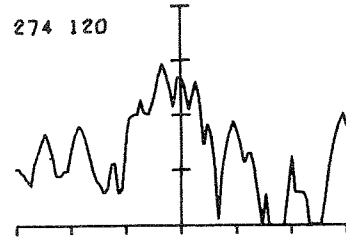
55.6	52.0	51.1	53.1	57.1	61.6	71.1	71.1	71.1	71.1
71.1	71.1	71.1	71.1	71.1	59.1	54.2	51.1	48.8	47.0
47.0	48.2	49.5	51.1	53.1	54.2	57.1	61.6	71.1	71.1
61.6	57.1	54.2	52.0	50.3	48.2	47.0	46.0	45.1	40.0
35.9	33.0	31.3	31.8	37.7	43.2	51.1	48.2	37.0	37.3
39.5	43.5	41.6	42.8	44.3	46.0	48.2	50.3	49.5	48.8
48.8	48.2	47.6	51.1	59.1	54.2	49.5	48.8	52.0	57.1
55.6	52.0	50.3	51.1	53.1	57.1	65.1	71.1	71.1	71.1
71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
71.1									



POLLACK AT 120 KHZ.

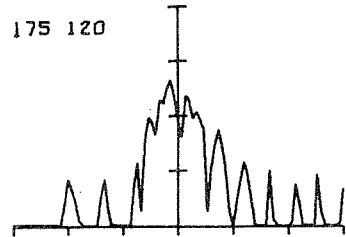
POLLACK 24.7 CM 120 KHZ FISH NC 274

49.6	50.3	51.2	52.1	53.1	48.9	46.6	44.7	43.2	45.1
47.6	51.2	51.2	50.3	50.3	46.6	43.9	41.9	42.9	44.7
47.1	50.3	52.1	53.1	54.3	53.1	48.9	48.9	54.3	53.1
44.3	40.3	39.8	39.6	37.2	39.6	40.0	38.1	35.9	32.8
30.5	32.4	35.0	38.5	33.0	33.3	34.6	39.1	36.2	33.8
37.0	45.6	41.6	43.6	48.2	59.1	50.3	46.1	43.2	41.1
42.9	45.1	48.9	47.1	47.1	50.3	55.6	65.1	54.3	61.6
71.2	71.2	71.2	71.2	53.1	47.6	54.3	54.3	54.3	55.6
71.2	71.2	71.2	71.2	55.6	49.6	46.1	43.6	41.3	39.8
42.2									



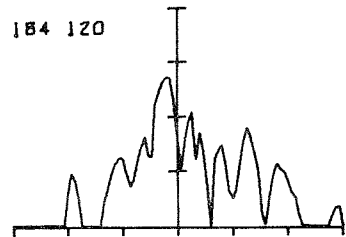
POLLACK 25.0 CM 120 KHZ FISH NC 175

71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
71.4	71.4	71.4	65.3	55.8	51.4	53.3	55.8	59.3	71.4
71.4	71.4	71.4	71.4	54.5	51.4	57.4	71.4	71.4	71.4
71.4	71.4	61.8	52.3	48.4	57.4	43.8	40.0	41.3	43.4
37.0	37.7	34.8	33.3	36.7	41.0	43.8	36.1	37.2	40.5
39.1	41.0	42.7	57.4	49.8	44.5	42.4	45.3	49.1	57.4
61.8	55.8	51.4	48.4	50.5	54.5	65.3	71.4	71.4	61.8
49.8	59.3	71.4	71.4	71.4	71.4	59.3	52.3	55.8	71.4
71.4	71.4	71.4	50.5	57.4	71.4	71.4	71.4	71.4	59.3
53.3									



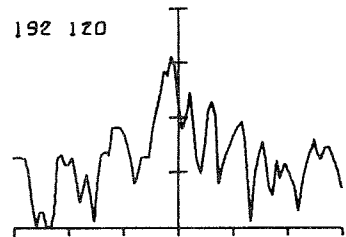
POLLACK 25.4 CM 120 KHZ FISH NC 184

71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
71.9	71.9	71.9	71.9	59.8	53.8	50.3	51.9	55.0	62.3
71.9	71.9	71.9	65.9	59.8	55.0	52.8	50.3	48.4	47.3
47.8	50.3	52.8	51.1	47.8	45.4	43.6	47.3	47.3	37.6
35.1	33.3	32.7	33.2	37.1	43.9	49.6	43.9	40.5	39.0
47.8	42.6	46.3	52.8	65.9	47.3	45.9	45.0	48.4	53.8
55.0	52.8	47.3	43.9	41.8	43.9	46.8	50.3	57.9	59.8
53.8	50.3	48.4	49.6	50.3	51.9	53.8	55.0	57.9	59.8
65.9	71.9	71.9	65.9	65.9	62.3	59.8	57.9	56.3	56.3
71.9									



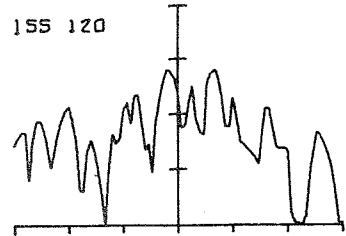
POLLACK 25.7 CM 120 KHZ FISH NC 192

47.1	47.1	47.7	47.7	50.3	55.6	71.2	57.2	57.2	71.2
71.2	57.2	47.1	46.6	48.9	48.3	47.1	51.2	55.6	53.1
50.3	54.3	59.1	51.2	46.6	46.1	47.1	41.6	41.9	42.2
42.9	44.7	47.7	52.1	50.3	47.1	47.1	47.1	41.9	38.9
35.2	31.5	32.5	28.7	31.0	38.1	42.2	39.6	35.3	41.3
42.7	50.3	45.6	38.3	37.0	40.3	52.1	48.9	46.6	44.7
42.9	41.6	40.5	43.6	50.3	59.1	50.3	46.6	44.3	47.7
53.1	54.3	47.7	51.2	48.3	49.6	51.2	53.1	57.2	52.1
48.9	46.1	43.9	46.6	47.7	45.2	45.2	46.6	48.3	50.3
53.1									



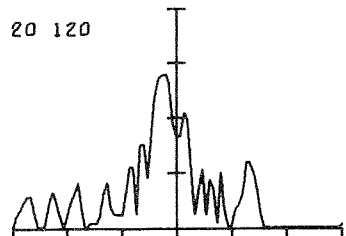
POLLACK 27.3 CM 120 KHZ FISH NC 155

45.3	44.2	43.2	43.6	52.2	45.0	41.1	41.3	42.6	45.3
49.9	46.6	43.2	40.8	39.1	38.4	41.3	45.3	54.1	54.1
46.6	44.6	46.6	49.9	54.1	66.2	49.3	43.6	45.3	43.9
38.9	37.7	41.8	36.3	36.3	41.1	46.6	45.3	50.6	41.1
36.8	33.8	31.6	32.5	33.6	36.1	42.6	41.6	37.5	34.8
41.1	43.6	43.9	34.1	32.3	31.8	33.4	36.8	42.4	42.1
36.8	40.4	45.3	45.7	46.6	47.1	48.1	49.3	43.2	38.6
39.3	42.9	46.2	46.2	46.2	47.1	58.2	72.2	72.2	72.2
58.2	49.9	46.2	43.2	44.2	45.7	47.6	49.9	54.1	60.1
72.2									



POLLACK 28.3 CM 120 KHZ FISH NC 20

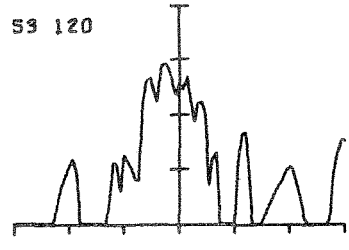
61.2	57.7	56.4	55.2	54.2	54.2	57.7	63.7	63.7	59.3
55.2	53.3	55.2	57.7	61.2	57.7	55.2	53.3	51.7	56.4
61.2	59.3	59.3	59.3	57.7	53.3	51.7	56.4	57.7	57.7
57.7	54.2	48.7	49.2	57.7	44.6	45.0	51.0	44.0	36.7
32.8	32.0	31.9	33.7	41.4	43.4	43.4	38.9	40.6	49.7
57.7	52.4	49.2	57.7	51.0	53.3	59.3	49.7	56.4	61.2
59.3	56.4	55.2	53.3	47.7	48.2	50.3	53.3	57.7	63.7
73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	67.2	63.7
59.3									



POLLACK AT 120 KHZ

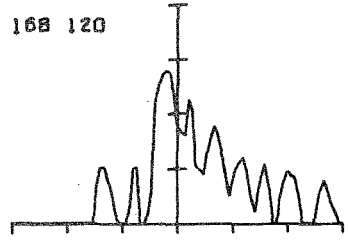
POLLACK 28.5 CH 120 KHZ FISH NO 53

70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
64.9	58.9	55.4	52.9	50.9	49.4	48.0	50.9	70.9	70.9	70.9
70.9	70.9	70.9	70.9	70.9	70.9	55.4	48.7	49.4	54.0	
47.4	48.7	50.1	51.9	51.9	38.1	33.7	33.2	35.5	37.7	
30.9	30.6	31.6	33.7	36.5	34.5	35.4	33.1	37.5	41.4	
37.9	37.7	40.3	52.9	48.0	46.9	70.9	70.9	70.9	70.9	
64.9	48.7	43.3	43.3	49.4	70.9	64.9	61.4	58.9	57.0	
55.4	54.0	52.9	51.9	50.1	49.4	50.1	52.9	55.4	58.9	
64.9	70.9	70.9	70.9	70.9	70.9	58.9	50.9	47.4	44.5	
44.9										



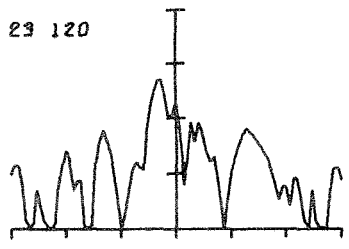
POLLACK 28.9 CH 120 KHZ FISH NO 168

72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
72.0	72.0	60.0	52.9	49.7	49.7	52.0	53.9	58.0	66.0	
72.0	72.0	56.4	49.7	49.7	60.0	66.0	58.0	53.9	37.7	
34.3	32.5	32.0	32.6	36.4	42.5	43.4	44.0	37.4	39.5	
49.7	50.4	51.2	47.4	44.4	42.2	44.0	46.9	50.4	55.1	
52.0	49.7	48.5	47.9	50.4	55.1	58.0	53.9	51.2	49.1	
53.9	62.5	62.5	55.1	52.0	50.4	51.2	52.0	55.1	62.5	
72.0	62.5	60.0	56.4	53.9	52.0	53.9	56.4	58.0	62.5	
72.0										



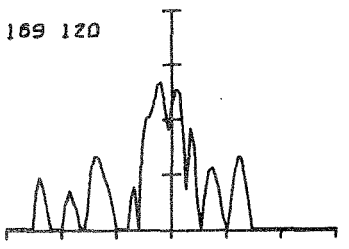
POLLACK 29.0 CH 120 KHZ FISH NO 23

50.0	48.3	48.8	52.1	58.9	72.9	58.9	52.9	56.0	58.9	
63.4	72.9	58.9	52.1	48.3	45.7	47.8	52.9	51.3	51.3	
72.9	72.9	58.9	48.3	44.0	42.0	44.0	46.1	49.4	54.8	
72.9	57.3	52.9	49.4	47.8	48.8	49.4	41.8	37.8	35.1	
32.9	32.9	35.8	39.8	39.3	36.9	41.5	52.1	46.1	40.6	
44.3	40.6	42.5	46.1	47.8	46.9	50.0	54.8	60.9	53.8	
49.4	46.5	44.3	42.8	41.8	42.5	43.4	44.3	45.3	46.5	
47.8	50.0	52.1	54.8	52.1	52.9	56.0	50.6	51.3	54.8	
58.9	66.9	52.9	58.9	72.9	72.9	60.9	52.9	48.8	48.8	
51.3										



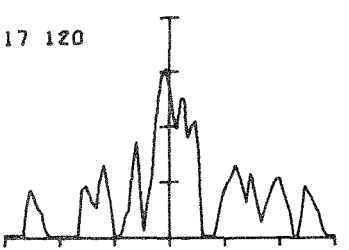
POLLACK 29.5 CH 120 KHZ FISH NO 169

72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	52.9	50.4	
52.9	56.4	62.4	72.0	72.0	72.0	55.1	52.9	55.1	56.4	
59.9	62.4	56.4	49.1	46.4	47.4	49.1	51.2	52.9	56.4	
62.4	72.0	72.0	72.0	53.9	52.0	72.0	43.7	39.5	39.1	
37.0	33.4	33.0	37.0	41.9	37.3	34.3	35.5	43.0	52.9	
41.4	45.5	55.1	62.4	53.9	49.1	48.5	50.4	52.9	58.0	
66.0	56.4	49.7	46.4	47.4	50.4	55.1	62.4	72.0	72.0	
72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	
72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	
72.0										



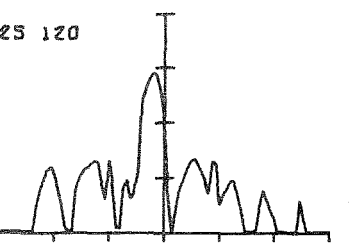
POLLACK 30.0 CH 120 KHZ FISH NO 17

72.9	72.9	72.9	72.9	72.9	72.9	53.8	51.3	52.9	54.8	
56.0	58.9	63.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	
72.9	51.3	50.6	52.0	53.8	54.8	49.3	46.8	49.9	53.8	
63.3	63.3	58.9	56.0	54.8	47.3	42.5	50.6	58.9	53.8	
49.9	41.5	34.5	30.6	29.4	32.8	37.7	40.4	34.8	35.1	
42.0	39.6	38.9	44.6	66.8	72.9	72.9	63.3	57.3	53.8	
51.3	49.9	48.3	46.8	48.8	50.6	53.8	48.3	50.6	53.8	
57.3	54.8	52.9	51.3	49.3	49.3	51.3	53.8	56.0	60.8	
72.9	56.0	50.6	52.0	52.9	54.8	56.0	58.9	60.8	66.8	
72.9										



POLLACK 30.0 CH 120 KHZ FISH NO 25

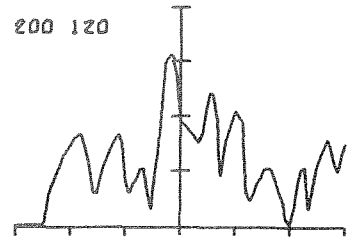
73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	61.1	
55.1	52.3	50.2	48.5	48.0	49.6	51.6	55.1	59.2	67.1	
59.2	51.6	49.6	48.5	48.0	47.1	46.7	47.6	50.9	54.1	
46.7	50.9	59.2	59.2	51.6	50.2	54.1	52.3	47.6	35.4	
33.1	31.5	30.6	31.7	34.8	39.7	52.3	63.6	56.2	52.3	
50.2	48.0	46.7	46.3	47.6	49.1	50.9	53.1	46.7	48.0	
55.1	53.1	51.6	50.2	50.9	53.1	56.2	61.1	73.1	67.1	
59.2	55.1	52.3	54.1	56.2	57.6	61.1	67.1	73.1	73.1	
73.1	73.1	54.1	57.6	61.1	73.1	73.1	73.1	73.1	73.1	
73.1										



POLLACK AT 120 KHZ

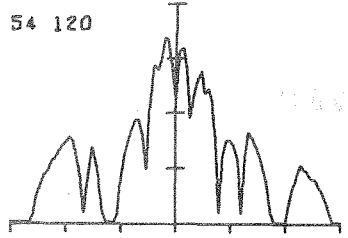
POLLACK 30.9 CM 120 KHZ FISH NC 200

71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	65.0	59.0	54.1
51.9	50.2	48.7	46.9	45.9	45.0	43.8	43.1	43.8	43.8	45.9
48.7	54.1	54.1	51.0	48.7	46.9	45.4	44.2	43.1	45.0	
51.9	54.1	51.9	51.0	49.4	49.4	54.1	57.0	50.2	46.4	
36.4	29.6	28.6	29.2	32.9	41.2	41.8	42.7	43.4	44.2	
45.0	42.7	38.5	35.7	36.2	40.9	51.0	46.4	43.1	40.6	
39.0	40.1	41.5	54.1	55.4	54.1	51.9	51.0	49.4	49.4	
50.2	51.9	54.1	55.4	59.0	65.0	57.0	51.9	49.4	49.4	
57.0	52.9	49.4	47.5	45.9	44.2	45.9	48.7	50.2	46.9	
45.0										



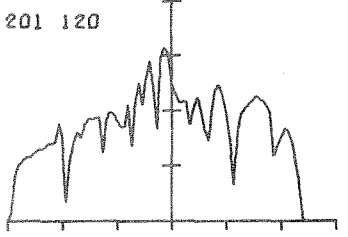
POLLACK 31.5 CM 120 KHZ FISH NC 54

70.2	70.2	70.2	70.2	70.2	60.7	58.2	54.7	53.3	51.1	
50.2	48.6	47.9	46.7	45.6	45.1	44.2	45.6	48.6	52.2	
58.2	50.2	46.1	48.6	52.2	58.2	70.2	70.2	70.2	58.2	
51.1	47.3	44.7	42.6	41.0	41.0	44.2	50.2	38.6	31.2	
32.1	30.1	26.2	27.0	32.1	37.4	28.4	28.1	32.2	41.0	
36.4	33.5	32.3	36.6	35.4	38.2	44.7	58.2	47.3	44.7	
45.1	46.1	48.6	58.2	47.9	43.4	44.7	46.1	47.9	50.2	
53.3	58.2	70.2	70.2	70.2	60.7	56.2	53.3	51.1	49.4	
50.2	51.1	52.2	52.2	53.3	54.7	56.2	58.2	60.7	60.7	
64.2										



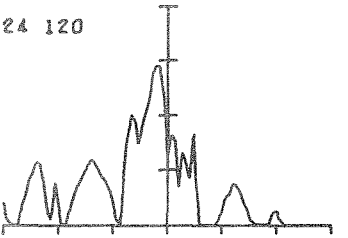
POLLACK 31.5 CM 120 KHZ FISH NC 201

70.6	58.6	51.6	49.8	49.1	48.4	48.4	47.7	47.1	47.1	
46.6	46.0	46.0	45.5	42.3	45.1	56.7	49.1	45.5	43.8	
45.1	42.3	41.4	41.7	41.1	41.1	47.7	41.4	40.0	40.8	
42.0	43.0	42.7	38.8	46.6	38.6	34.9	39.0	33.7	31.0	
35.7	43.4	30.1	28.5	29.6	35.1	36.8	38.6	38.2	38.6	
42.7	39.0	37.4	40.0	43.4	45.5	39.3	35.8	35.2	37.6	
40.5	45.1	53.7	43.8	40.3	39.5	38.6	38.0	37.4	37.9	
38.4	39.3	40.5	48.4	46.0	44.6	43.0	44.2	46.0	49.1	
52.6	61.1	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	
70.6										



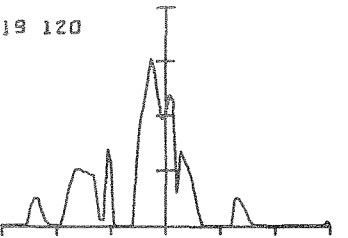
POLLACK 33.0 CM 120 KHZ FISH NC 24

56.2	59.1	67.1	67.1	61.1	56.2	54.0	51.5	50.2	48.5	
49.0	52.3	57.5	59.1	52.3	56.2	63.6	61.1	57.5	55.0	
53.1	51.5	50.2	49.0	48.0	49.0	50.2	51.5	52.3	54.0	
56.2	59.1	63.6	49.0	43.3	39.9	41.3	45.2	41.5	39.3	
36.7	32.0	30.7	31.3	36.9	47.1	43.6	44.8	53.1	46.7	
48.5	51.5	43.3	53.1	73.1	73.1	73.1	67.1	61.1	59.1	
57.5	55.0	54.0	52.3	53.1	54.0	56.2	57.5	59.1	63.6	
67.1	73.1	73.1	61.1	57.5	57.5	59.1	61.1	63.6	67.1	
73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	
73.1										



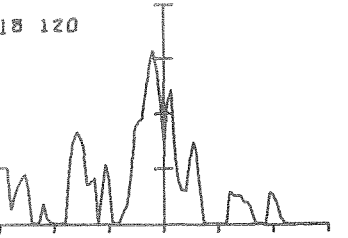
POLLACK 35.0 CM 120 KHZ FISH NC 19

73.1	73.1	73.1	73.1	73.1	67.1	63.6	59.1	56.2	55.0	
55.0	57.5	59.1	63.6	67.1	73.1	63.6	57.5	54.0	51.5	
49.6	49.6	50.2	50.2	50.8	50.8	54.0	59.1	59.1	45.9	
49.0	61.1	73.1	73.1	73.1	73.1	73.1	48.0	41.5	37.8	
33.4	29.4	31.7	36.4	40.8	39.7	35.9	37.5	54.0	46.2	
48.0	49.6	51.5	54.0	57.5	63.6	73.1	73.1	73.1	73.1	
73.1	73.1	73.1	63.6	55.0	55.0	56.2	57.5	59.1	61.1	
67.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	
73.1	73.1	73.1	73.1	73.1	67.1	63.6	61.1	61.1	59.1	
73.1										



POLLACK 35.2 CM 120 KHZ FISH NC 18

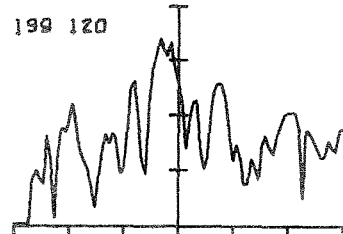
49.5	49.5	50.1	57.5	55.0	53.1	51.5	50.8	54.0	61.0	
63.5	59.1	56.2	59.1	61.0	63.5	67.0	73.1	73.1	50.8	
44.8	43.2	44.4	46.2	53.1	52.2	51.5	63.5	55.0	49.0	
52.2	67.0	63.5	59.1	57.5	56.2	50.8	42.2	41.2	40.6	
35.8	30.8	28.3	31.6	37.1	45.5	37.9	35.4	47.0	52.2	
54.0	54.0	48.5	45.1	47.0	54.0	73.1	73.1	73.1	73.1	
73.1	73.1	73.1	54.0	55.0	55.0	55.0	56.2	56.2	57.5	
73.1	73.1	73.1	67.0	54.0	55.0	56.2	59.1	63.5	73.1	
73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	
73.1										



POLLACK AT 120 KHZ

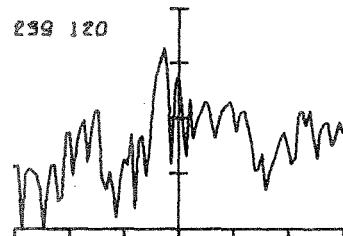
POLLACK 39.4 CM 120 KHZ FISH NC 199

70.8	70.8	70.8	70.8	61.2	51.7	49.9	51.7	52.7	43.5
48.5	58.7	46.7	42.1	43.2	40.4	37.9	42.8	46.7	48.5
49.9	52.7	56.8	51.7	46.7	43.2	45.2	43.2	44.3	50.8
49.2	43.5	34.5	33.6	39.6	48.5	50.8	38.1	31.3	29.4
25.8	28.0	29.2	26.6	31.6	34.5	37.0	46.2	40.4	37.5
37.0	46.7	49.9	47.2	39.2	34.4	33.9	35.1	36.8	43.5
48.5	45.2	47.8	52.7	52.7	47.8	49.9	51.7	45.2	43.5
46.2	47.2	43.9	41.8	39.9	39.4	39.6	39.9	42.8	55.2
42.5	43.5	44.7	46.2	47.8	47.2	44.7	46.2	46.7	42.5
42.5									



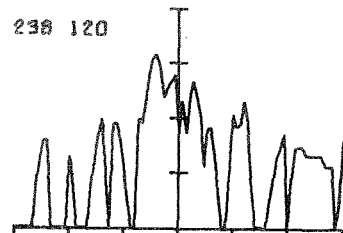
POLLACK 43.7 CM 120 KHZ FISH NC 239

48.5	48.5	66.0	49.8	49.1	49.8	50.5	53.0	62.5	53.0
48.5	48.5	55.2	54.0	42.5	42.5	50.5	44.1	41.4	40.2
48.0	42.0	38.4	39.0	51.2	53.0	49.8	53.0	58.1	50.5
47.5	48.5	42.8	56.5	43.8	43.1	50.5	44.8	36.1	31.8
29.0	27.2	32.7	48.5	33.8	31.9	39.6	47.0	36.4	43.8
40.7	38.6	36.9	37.6	40.0	43.8	40.7	38.3	37.6	36.9
38.6	42.5	38.8	38.6	40.9	44.1	49.8	49.1	46.5	53.0
49.8	48.0	46.0	43.8	42.5	45.2	48.5	47.0	39.0	38.8
41.4	38.6	43.4	47.5	42.0	40.9	41.2	45.2	43.4	40.7
42.8									



POLLACK 52.0 CM 120 KHZ FISH NC 238

60.9	60.9	60.9	60.9	60.9	60.9	51.3	46.9	44.0	44.0
60.9	60.9	60.9	60.9	60.9	60.9	46.9	51.3	60.9	60.9
60.9	51.3	46.9	42.8	40.0	51.3	60.9	40.9	40.9	44.0
48.8	54.8	60.9	60.9	40.0	40.9	36.3	31.9	29.0	28.4
30.8	36.3	34.4	33.3	32.2	41.8	36.8	42.8	36.3	33.3
35.8	40.0	48.8	41.8	41.8	46.9	54.8	60.9	60.9	48.8
39.3	41.8	40.9	36.8	40.9	51.3	60.9	60.9	60.9	60.9
54.8	51.3	46.9	45.3	42.8	60.9	51.3	45.3	45.3	45.3
46.9	46.9	46.9	46.9	46.9	48.8	48.8	48.8	60.9	54.8
44.0									





FISKEN OG HAVET SERIE B

Oversikt over tidligere artikler finnes i tidligere nr.

1978 Nr. 1 Roald Sætre: Midlere temperatur og saltholdighet i overflatelaget langs en del skipsruter i Nordsjøen.

1978 Nr. 2 Johan Blindheim og Harald Loeng: Strømmålinger i området Troms - Bjørnøya i 1970, 1971 og 1975.